#### AIR CONDITIONING CONTROL MODULE

$\bigtriangledown$	Pin	Description	Active	Inactive
0	CC28-6	DEFROST VENT SERVO MOTOR	B+	0 V
0	CC28-7	CENTER VENT SERVO MOTOR	B+	0 V
0	CC28-8	LH FRESH / RECIRCULATION VENT MOTOR	B+	0 V
0	CC28-9	RH FRESH / RECIRCULATION VENT MOTOR	B+	0 V
0	CC28-12	FOOTWELL VENT SERVO MOTOR	B+	0 V
0	CC28-13	COOL AIR BYPASS VENT SERVO MOTOR	B+	0 V
0	CC28-19	DEFROST VENT SERVO MOTOR	B÷	0 V
0	CC28-20	CENTER VENT SERVO MOTOR	B+	0 V
0	CC28-21	LH FRESH / RECIRCULATION VENT SERVO MOTOR	B+	0 V
0	CC28-22	RH FRESH / RECIRCULATION VENT SERVO MOTOR	B+	0 V
0	CC28-25	FOOTWELL SERVO MOTOR	B+	0 V
0	CC28-26	COOL AIR BYPASS SERVO MOTOR	B+	0 V
1	CC29-1	SOLAR SENSOR FEEDBACK	0.75 V - 4.75 V: INCREASING WITH SOLAR LOAD	
I	CC29-2	CENTER VENT POTENTIOMETER FEEDBACK	> 3.5 V = OPFN	< 1 V = CLOSED
1	CC29-3	RH FRESH / RECIRCULATION VENT POTENTIOMETER FEEDBACK	> 3.5 V = OPEN	< 1 V = CLOSED
ì	CC29-5	COOL AIR BYPASS VENT POTENTIOMETER EFEDRACK	> 3.5 V - OPEN	< 1 V = CLOSED
1	CC29-6	ENGINE COOLANT TEMPERATURE	2.5.V @ 90° C: DECREASING WITH TEMPERATURE	
ı	CC29-10	DEFROST VENT POTENTIOMETER FEEDBACK	$>35 V \approx OPEN$	< 1 V = CLOSED
I	CC29-11	LH FRESH / RECIRCULATION VENT POTENTIOMETER FEEDBACK	> 35 V = OPEN	< 1 V = CLOSED
I	CC29-13	FOOTWELL VENT POTENTIOMETER FEEDBACK	> 3.5 V = OPEN	< 1 V = CLOSED
о	CC30-2	CLOCK	B+ (1 45 Hz)	
D	CC30-3	SERIAL DATA OUTPUT TO CONTROL PANEL		
1	CC30-5	AMBIENT TEMPERATURE SENSOR FEEDBACK	2 18 V @ 25° C: DECREASING WITH TEMPERATURE	
1	CC30-6	HEATER MATRIX TEMPERATURE SENSOR FEEDBACK	2 25 V @ 20° C. DECREASING WITH TEMPERATURE	
D	CC30-7	SERIAL DATA INPUT FROM CONTROL PANEL		
0	CC30-8	START	R. (MOMENTARY)	٥v
1	CC30-11	IN CAR TEMPERATURE SENSOR FEEDBACK	3 25 V @ 0° C. DECREASING WITH TEMPERATURE	
L	CC30-12	EVAPORATOR TEMPERATURE SENSOR FEEDBACK	3.25 V @ 0° C; DECREASING WITH TEMPERATURE	
1	CC31-1	IGNITION SWITCHED POWER SUPPLY	В+	0 V
1	CC31-2	ISOLATE RELAY CONTROLLED BATTERY POWER SUPPLY	B+	0 V
1	CC31-3	IGNITION SWITCHED GROUND	0 V	B+
0	CC31-4	CONTROL PANEL BATTERY POWER SUPPLY	B+	0 V
T	CC31-5	BATTERY POWER SUPPLY	B+	B+
1	CC31-6	ENGINE SPEED SIGNAL	5 V @ 1000 RPM = 45 Hz; 2000 RPM = 90 Hz	
0	CC31-8	POTENTIOMETER COMMON REFERENCE VOLTAGE	5 V	5 V
D	CC31-10	SERIAL COMMUNICATIONS INPUT		
0	CC31-12	CONTROL PANEL BATTERY POWER SUPPLY	R.	R.
T	CC31-13	GROUND	0.V	0 V
0	CC31-14	CONTROL PANEL GROUND SUPPLY	0 V	0 V
0	CC31-15	ISOLATE RELAY ACTIVE	с. В+	οv
t	CC31-16	VEHICLE SPEED SIGNAL	22 Hz @ 10 MPH (16 KM/H)· 44 Hz @ 20 MPH (32 KM/H) @ B+	v •
0	CC31 18	ASPIRATOR MOTOR POWER SUPPLY		0 V
0	CC31-19	POTENTIOMETER COMMON REFERENCE GROUND	0.V	0 V
1	CC31-20	GROUND	0.V	0 V
D	CC31-21	SERIAL COMMUNICATIONS OUTPUT	••	••

#### AIR CONDITIONING CONTROL PANEL

$\vee$	Pin	Description	Active	Inactive
1	CC27-1	CLOCK	B+ (1.45 KHz)	B+
1	CC27-2	START	B+	GROUND
D	CC27-3	SERIAL DATA OUTPUT TO A/C CONTROL MODULE		
D	CC27-4	SERIAL DATA INPUT FROM A/C CONTROL MODULE		
I	CC27-5	IGNITION SWITCHED POWER SUPPLY	B+	GROUND
1	CC27-6	BATTERY POWER SUPPLY	B+	B+
I.	CC27-7	CONTROL PANEL GROUND SUPPLY	GROUND	GROUND
1	CC27-8	LOCATE ILLUMINATION SUPPLY	B+	GROUND
T	CC27-9	DIMMER OVERRIDE REQUEST	GROUND	B+

# Fig. 07.1

CONFONEN	TS				
Component AIR CONDITIONING CONTROL MODULE		Connector / 1	Гуре / Color	Location / Access	
		CC28 / 26-WAY MUL CC29 / 16-WAY MUL CC30 / 12-WAY MUL CC31 / 22-WAY MUL	TILOCK 47 / GREY TILOCK 47 / GREY TILOCK 47 / GREY TILOCK 47 / GREY	RH SIDE OF TRANSMISSION TUNNEL / GLOVE BOX ASSEMBL	
AIR CONDITIONING	CONTROL PANEL	CC27 / 12-WAY MUL	TILOCK 040 / BLUE	CENTER CONSOLE	
AIR INTAKE – LH BL	OWER	CC32 / 15-WAY SUM	ITOMO 90 HYBRID / GREEN	LH SIDE FASCIA GLOVE BOX	
AIR INTAKE – RH BL	OWER	CC33 / 15-WAY SUM	ITOMO 90 HYBRID / GREEN	RH SIDE FASCIA GLOVE BOX	
AMBIENT TEMPERA	ATURE SENSOR	LS16 / 2-WAY YAZA	(192 / BLACK	ADJACENT TO RADIATOR / BUMPER UNDER TRAY	
ASPIRATOR ASSEM	1BLY	FC40 / 4-WAY MULT	LOCK 070 / WHITE	DRIVER SIDE KNEE BOLSTER	
EVAPORATOR / HEA	ATER MATRIX ASSEMBLY	CC34 / 12-WAY MUL	TILOCK 040 / BLACK	LH SIDE OF TRANSMISSION TUNNEL / LH DASH LINER	
SOLAR SENSOR		FC52 / 2-WAY MULT	LOCK 070 / GREY	WINDSHIELD CENTER VENT	
VENT ASSEMBLY		FC44 / 12-WAY MUL	TILOCK 040 / BLACK	FASCIA - CENTER	
RELAYS					
Relay		Case Color	Connector / Color	Location / Access	
I told y					
HARNESS-T	O-HARNESS CONNECTORS	;			
Connector	Type / Color	Loc	ation / Access		
CA19	20.WAY MULTILOCK 070 / YELLOW	(H 'A	LH 14' POST CONNECTOR MOLINTING BRACKET / LOWER (A' POST FINISHER		
CA15	20-WAY MULTILOCK 070 / YELLOW	RH 'A' POST CONNECTOR MOUNTING BRACKET / LOWER 'A' POST FINISHER		CKET / LOWER 'A' POST FINISHER	
EC7	20-WAY MULTILOCK 070 / WHITE	ABOV	ABOVE DIMMER MODULE (CONTRAY		
FC11	18-WAY MULTILOCK 070 / WHITE	ABOV	ABOVE DIMMER MODULE / COIN TRAY		
GROUNDS					
	Location / Type				
Ground		NNEL GROUND STUD			
Ground CA31L	EYELET (PAIR) – RH DRIVE SHAFT TU				
Ground CA31L CC3R	EYELET (PAIR) – RH DRIVE SHAFT TU EYELET (PAIR) – RH FRÔNT BULKHËA	D STUD / CABIN SIDE			

The following symbols are used to represent values for Control Module Pin Out data:

- Input D Serial and encoded communications
- O Output
- С SG Signal Ground
  - S
- SCP Network
- CAN (Network)
- V Voltage (DC) Hz Frequency
- MS Milliseconds
  - MV Millivolts

KHz Frequency x 1000

B+ Battery voltage

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

or	I	Color
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#### AIR CONDITIONING CONTROL MODULE

$\bigtriangledown$	Pin	Description	Active	Inactive
1	CC28-1	COMPRESSOR CLUTCH STATUS	B+ (ON)	0 V
0	CC28-2	HEATER VALVE ACTIVE	B+	0 V
0	CC28-3	RH BLOWER MOTOR RELAY ACTIVE	0 V	B+
0	CC28-4	LH / RH WINDSHIELD HEATER RELAYS ACTIVATE	0 V	B+
0	CC28-5	DOOR MIRROR HEATER RELAY ACTIVATE	0 V	8+
0	CC28-16	LH BLOWER MOTOR RELAY ACTIVATE	B÷	0 V
o	CC28-17	HEATER PUMP RELAY ACTIVATE	0 V	B+
0	CC28-18	HEATED BACKLIGHT RELAY ACTIVATE	0 V	B÷
I	CC29-7	RH BLOWER SPEED FEEDBACK	7.6 V = LOW SPEED	0.83 V = HIGH SPEED
0	CC29-8	RH BLOWER SPEED CONTROL DRIVE SIGNAL	1.3 V = LOW SPEED	0 V = HIGH SPEED
1	CC29-15	LH BLOWER SPEED FEEDBACK	7.6 V = LOW SPEED	0.83 V = HIGH SPEED
0	CC29-16	LH BLOWER SPEED CONTROL DRIVE SIGNAL	1.3 V = LOW SPEED	0 V = HIGH SPEED
0	CC30-1	AIR CONDITIONING ELECTRICAL LOAD SIGNAL	8+	0 V
T	CC31-7	LOAD INHIBIT	0 V	B+
0	CC31-9	COMPRESSOR CLUTCH ON REQUEST	B+	0 V
T	CC31 17	REFRIGERANT 4 WAY PRESSURE SWITCH	0 V (2 - 30 BAR)	B+ (OUT OF ACTIVE RANGE)

#### ENGINE CONTROL MODULE

$\sim$	Pin	Description	Active	Inactive
0	EM10-2	A/CCM LOAD INHIBIT	GROUND	B+
1	EM10-3	A/CCM ELECTRICAL LOAD SIGNAL	В+	GROUND
I	EM10-4	A/CCM COMPRESSOR CLUTCH REQUEST	8+	GROUND
I	EM12-5	4 WAY REFRIGERANT SWITCH HIGH PRESSURE	GROUND @ 20 BAR (290 PSI)	
1	EM12-6	4 WAY REFRIGERANT SWITCH HIGH PRESSURE	GROUND @ 12 BAR (174 PSI)	
0	EM12-10	AIR CONDITIONING COMPRESSOR RELAY ACTIVATE	GROUND	B+
0	EM13-15	SERIES (LOW) SPEED FAN ACTIVATE	GROUND	B+
0	EM13-16	PARALLEL (HIGH) SPEED FAN ACTIVATE	GROUND	B+

Fig. 07.2

COMPONENTS		
Component	Connector / Type / Color	Location / Access
AIR CONDITIONING COMPRESSOR CLUTCH	PI36 / 1-WAY SUMITOMO 90 A TYPE / BLACK	ENGINE COMPARTMENT / A/C COMPRESSOR
AIR CONDITIONING CONTROL MODULE	CC28 / 26-WAY MULTILOCK 47 / GREY CC29 / 16-WAY MULTILOCK 47 / GREY CC30 / 12-WAY MULTILOCK 47 / GREY CC31 / 22-WAY MULTILOCK 47 / GREY	RH SIDE OF TRANSMISSION TUNNEL / GLOVE BOX ASSEMBLY
AIR CONDITIONING CONTROL PANEL	CC27 / 12-WAY MULTILOCK 040 / BLUE	CENTER CONSOLE
BLOWER MOTOR – LH	CC32 / 15-WAY SUMITOMO 90 HYBRID / GREEN	LH SIDE FASCIA GLOVE BOX
BLOWER MOTOR - RH	CC33 / 15-WAY SUMITOMO 90 HYBRID / GREEN	RH SIDE FASCIA GLOVE BOX
DOOR MIRROR - DRIVER	DD8 / 12-WAY MULTILOCK 040 / BLACK	DRIVER DOOR
DOOR MIRROR - PASSENGER	PD8 / 12-WAY MULTILOCK 040 / BLACK	PASSENGER DOOR
ENGINE CONTROL MODULE	EM10 / 28-WAY MULTILOCK 040 / GREY EM11 / 16-WAY MULTILOCK 040 / GREY EM12 / 22-WAY MULTILOCK 040 / GREY EM13 / 34-WAY MULTILOCK 040 / GREY EM14 / 12-WAY MULTILOCK 47 / WHITE EM15 / 22-WAY MULTILOCK 47 / WHITE	ENGINE COMPARTMENT / CONTROL MODULE ENCLOSURE
FUSE BOX – ENGINE COMPARTMENT	LS5 / 10-WAY U.T.A. FUSE BOX / NATURAL LS6 / 10-WAY U.T.A. FUSE BOX / BLACK LS7 / 10-WAY U.T.A. FUSE BOX / GREEN LS8 / 10-WAY U.T.A. FUSE BOX / BLUE ST19 / EPELET	ENGINE COMPARTMENT / LH FRONT
FUSE BOX – TRUNK	BT10 / 10-WAY U.T.A. FUSE BOX / NATURAL BT11 / 10-WAY U.T.A. FUSE BOX / BLACK BT12 / 10-WAY U.T.A. FUSE BOX / GREEN BT13 / 10-WAY U.T.A. FUSE BOX / BLUE BT64 / EYELET	TRUNK ELECTRICAL CARRIER
HEATED BACKLIGHT	CA21 / LUCAR – LOCKING POSILOCK MKI IC18 / LUCAR	INSIDE 'E' POST / 'E' POST UPPER TRIM BEHIND LEFT HAND REAR QUARTER PANEL
HEATER PUMP	EM36 / 2-WAY ECONOSEAL III LC / BLACK	ENGINE COMPARTMENT / LEFT HAND REAR
HEATER VALVE	EM40 / 2-WAY ECONOSEAL III LC / WHITE	ENGINE COMPARTMENT / LEFT HAND REAR
RADIATOR FAN CONTROL RELAY MODULE	LS31 / 8-WAY TRW / BLACK	ENGINE COMPARTMENT / ADJACENT TO LH CRUSH TUBE
RADIATOR FAN LH	CF1 / 2-WAY REINSHAGEN / BLACK	ENGINE COMPARTMENT / BELOW LH FAN
RADIATOR FAN - RH	CF2 / 2-WAY REINSHAGEN / BLACK	ENGINE COMPARTMENT / BELOW RH FAN
REFRIGERANT 4-WAY PRESSURE SWITCH	LS26 / 6-WAY ECONOSEAL III LC / BLACK	ENGINE COMPARTMENT / ADJACENT TO LH SIDE OF RADIATOR
WINDSHIELD HEATER - LH	SH4 / 2-WAY AMP SERIES 187C / GREY	CONNECTOR ADJACENT TO HOOD LATCH
WINDSHIELD HEATER - RH	SH5 / 2-WAY AMP SERIES 187C / GREY	CONNECTOR ADJACENT TO HOOD LATCH

Relay	Case Color	Connect
AIR CONDITIONING COMPRESSOR CLUTCH RELAY	BROWN	EM25 / BROV
BLOWER MOTOR RELAY - LH	BLUE	CA58 / BLUE
BLOWER MOTOR RELAY - RH	BLUE	CA58 / BLUE
DOOR MIRROR HEATER RELAY	BLUE	CA18 / BLUE
HEATED BACKLIGHT RELAY (#2)	BROWN	BUS
HEATER PUMP RELAY (#1)	BROWN	BUS
WINDSHIELD HEATER RELAY – LH	BLACK	SH2 / BLACK
WINDSHIELD HEATER RELAY – RH	BLACK	SH3 / BLACK

#### HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Acc
BT4	54-WAY THROUGH PANEL / BLACK	BELOW PARCEL SHEL
CA10	8-WAY MULTILOCK 070 / YELLOW	DRIVER 'A' POST / DO
CA12	8-WAY MULTILOCK 070 / YELLOW	PASSENGER 'A' POST
CA19	20-WAY MULTILOCK 070 / YELLOW	LH 'A' POST CONNEC
CA20	20-WAY MULTILOCK 070 / YELLOW	RH 'A' POST CONNEC
EM1	12-WAY AUGAT 1.6 / BLACK	ENGINE COMPARTME
EM42	4-WAY YAZAKI / GREY	BULKHEAD / REAR OF
EM51	12-WAY AUGAT 1.6 / GREY	ENGINE COMPARTME
EM53	20-WAY MULTILOCK 070 / WHITE	PASSENGER 'A' POST
LS3	54-WAY THROUGH PANEL CONNECTOR / BLACK	LH 'A' POST / LOWER
LS32	4-WAY YAZAKI / GREY	FORWARD OF LH FRO
PI1	57-WAY SUMITOMO TS090 / BLACK	ENGINE COMPARTME

#### GROUNDS

Ground	Location / Type
CA30R	EYELET (PAIR) – LH 'A' POST GROUND SCREW
CA33R	EYELET (PAIR) – RH 'A' POST GROUND SCREW
CC2L	EYELET (PAIR) – DRIVE SHAFT TUNNEL GROUND STUD – LH SIDE
M8R	EYELET (PAIR) – EMS LH GROUND STUD
M18L	EYELET (PAIR) – EMS BULKHEAD GROUND STUD
M18R	EYELET (PAIR) – EMS BULKHEAD GROUND STUD
C6	EYELET (SINGLE) – TRUNK / LH FORWARD GROUND STUD
.S10L	EYELET (PAIR) – LH FORWARD GROUND STUD
.S10R	EYELET (PAIR) – LH FORWARD GROUND STUD
.S20L	EYELET (PAIR) – RH FORWARD GROUND STUD

#### CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)



The following symbols are used to represent values for Control Module Pin Out data:

- Input
- O Output
- SG Signal Ground
- С

D

- CAN (Network)

- S SCP Network

Serial and encoded communications

- V Hz Frequency
- MV Millivolts

KHz Frequency x 1000 MS Milliseconds

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

B+ Battery voltage

Voltage (DC)

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

Location / Access tor / Color CONTROL MODULE ENCLOSURE RELAYS / ENGINE COMPARTMENT WN RH HEELBOARD RELAYS / HEELBOARD COVER RH HEELBOARD RELAYS / HEELBOARD COVER RH HEELBOARD RELAYS / HEELBOARD COVER

RELAY #2. TRUNK FUSE BOX / TRUNK RELAY #'1, ENGINE COMPARTMENT FUSE BOX / ENGINE COMPARTMENT FRONT BULKHEAD RELAYS / ENGINE COMPARTMENT FRONT BULKHEAD RELAYS / ENGINE COMPARTMENT

#### cess

ELF / TRUNK / REAR BULKHEAD / RH SIDE OR HARNESS GAITER / DOOR HARNESS GAITER TOR MOUNTING BRACKET / LOWER 'A' POST FINISHER CTOR MOUNTING BRACKET / LOWER 'A' POST FINISHER IENT / ADJACENT TO ABS PUMP ENGINE ENT / ADJACENT TO ABS PUMP / LOWER 'A' POST FINISHER 'A' POST FINISHER ONT SUSPENSION ARM ENT / BULKHEAD / REAR OF ENGINE

#### INSTRUMENT PACK

$\nabla$	Pin	Description	Active	Inactive
1	FC24-1	GROUND	GROUND	GROUND
1	FC24-2	IGNITION SWITCHED POWER SUPPLY	B+	GROUND
1	FC24-6	ADAPTIVE DAMPENING WARNING	GROUND	B+
[	FC24-10	TRIP CYCLE	GROUND (MOMENTARY)	
[	FC24-13	'A/B' TRIP SELECT	GROUND (MOMENTARY)	
1	FC24-14	'ML/KM' SELECT	GROUND (MOMENTARY)	
S	FC24-19	SCP NETWORK	2 – 1600 Hz	
S	FC24-20	SCP NETWORK	2 – 1600 Hz	
С	FC24-23	CAN NETWORK	15~1500 Hz	
С	FC24-24	CAN NETWORK	15 – 1500 Hz	
1	FC24-25	BATTERY POWER SUPPLY	B+	B+
1	FC24-26	GROUND	GROUND	GROUND
1	FC24-27	ILLUMINATION SUPPLY	B+	GROUND
0	FC24-33	GROUND REFERENCE	GRÔUND	GROUND
1	FC24-35	'CLEAR' SELECT	GROUND (MOMENTARY)	
1	FC24-36	'000' SELECT	GROUND (MOMENTARY)	
С	FC24-47	CAN NETWORK	15 – 1500 Hz	
С	FC24-48	CAN NETWORK	15 – 1500 Hz	
0	FC25-3	ENGINE SPEED	5 V @ 1000 RPM = 45 Hz; 2000 RPM = 90 Hz	
0	FC25-4	ENGINE COOLANT TEMPERATURE	6 V = 90° C	
0	FC25-5	VEHICLE SPEED - A/CCM	22 Hz @ 10 MPH (16 KM/H); 44 Hz @ 20 MPH (32 KM/H) @ B+	
0	FC25-6	VEHICLE SPEED - PAS	22 Hz @ 10 MPH (16 KM/H); 44 Hz @ 20 MPH (32 KM/H) @ B+	
0	FC25-7	VEHICLE SPEED – ADAPTIVE DAMPING CONTROL MODULE	22 Hz @ 10 MPH (16 KM/H); 44 Hz @ 20 MPH (32 KM/H) @ B+	
1	FC25-13	FUEL LEVEL GAUGE FEEDBACK	B+ = EMPTY	0 V = FULL
0	FC25-14	FUEL LEVEL GAUGE REFERENCE GROUND	GROUND	GROUND
[	FC25-16	AIRBAG MIL	GROUND (ON)	B+
1	FC25-19	LOW OIL PRESSURE WARNING	> 3 V = > 3 PSI	B+
0	FC25-20	VEHICLE SPEED	22 Hz @ 10 MPH (16 KM/H); 44 Hz @ 20 MPH (32 KM/H) @ B+	
I	FC25-21	DIMMER OVERRIDE	GROUND	B+
1	FC25-22	CHARGE WARNING	B+	GROUND
I	FC25-23	LOW COOLANT WARNING	GROUND	B+

NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

The following symbols are used to represent values for Control Module Pin Out data:

- Input D Serial and encoded communications
- 0 Output
- SG Signal Ground
- CAN (Network) С S SCP Network
- v
- Voltage (DC) Hz Frequency

B+ Battery voltage

KHz Frequency x 1000 MS Milliseconds MV Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

Fig. 08.1

#### COMPONENTS

#### Component ANALOG CLOCK COOLANT LEVEL SWITCH FUEL LEVEL SENSOR

#### INSTRUMENT PACK

OIL PRESSURE SWITCH TRIP COMPUTER SWITCH PACK TRIP CYCLE SWITCH (COLUMN SWITCHGEAR)

#### HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location /
BT4	54-WAY THROUGH PANEL / BLACK	BELOW PARCEL
EM2	20-WAY MULTILOCK 070 / GREY	PASSENGER 'A'
FC1	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW PASSEN
PI1	57-WAY SUMITOMO TS090 / BLACK	ENGINE COMPAR

#### GROUNDS

4-

Ground	Location / Type
EM8L	EYELET (PAIR) – EMS LH GROUND STUD
FC17L	EYELET (PAIR) – EMS BULKHEAD GROUND STUD
FC17R	EYELET (PAIR) – EMS BULKHEAD GROUND STUD
FC29R	EYELET (PAIR) – LH BULKHEAD GROUND STUD / CABIN SIDE

#### CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

FC38 / 6-WAY AMP MICRO QUADLOCK / BLACK EM55 / 2-WAY AMP JUNIOR POWER TIMER / BROWN BT14 / LUCAR - LOCKING POSILOCK MKI

Connector / Type / Color

BT15 / LUCAR - LOCKING POSILOCK MKI

FC24 / 48-WAY AMP MODULE PCB SIGNAL / BLACK FC25 / 24-WAY AMP MODULE PCB SIGNAL / BLACK P140 / 1-WAY ECONOSEAL EC J2 / BLACK FC27 / 10-WAY AMP MICRO QUAD LOCK / BLACK SC2 / 10-WAY MULTILOCK 070 / YELLOW

#### Location / Access

FASCIA

CENTER AIR VENT ENGINE COMPARTMENT / ON COOLANT RESERVOIR FUEL TANK SENDER UNIT / TRUNK CARPET

ENGINE BLACK / BELOW GENERATOR FASCIA COLUMN SWITCHGEAR HARNESS / ADJACENT TO STEERING COLUMN MOTOR

#### Access

SHELF / TRUNK / REAR BULKHEAD / RH SIDE POST / LOWER 'A' POST FINISHER GER SIDE AIR VENT / GLOVE BOX ASSEMBLY RTMENT / BULKHEAD / REAR OF ENGINE

#### BODY PROCESSOR MODULE

$\bigtriangledown$	Pin	Description	Active	Inactive
D	FC15-10	SRS AUDIBLE BACKUP	ENCODED COMMUNICATIONS	
1	FC15-15	IGNITION SWITCHED GROUND	GROUND	B+
1	FC15-31	SEAT BELT SWITCH STATUS	GROUND (UNFASTENED)	B+ (FASTENED)
1	FC15-32	IGNITION SWITCHED GROUND	GROUND	B+
1	FC15-41	STARTER ENGAGE REQUEST	GROUND (CRANKING)	B+
1	FC15-80	BATTERY SUPPLY VOLTAGE	B+	B+
0	FC15-82	AUDIBLE WARNING SPEAKER	AUDIO OUTPUT	
0	FC15-83	AUDIBLE WARNING SPEAKER	AUDIO OUTPUT	
S	FC15-84	SCP NETWORK	2 - 1600 Hz	
S	FC15-85	SCP NETWORK	2 - 1600 Hz	
1	FC15-104	BATTERY SUPPLY VOLTAGE	B≁	B÷

NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

# Fia. 08.2

Component		Conne	ctor / Type / Color
AUDIBLE WARNING	SPEAKER (COLUMN SWITCHGEAR)	SC1 / 12-W	AY MULTILOCK 070 / WHITE
BODY PROCESSOR	MODULE	FC15 / 14-	WAY AMP EEEC / GREY
SEAT BELT SWITCH	D-HARNESS CONNECTORS	SM8-D / 2-	WAY MULTILOCK 070 / BLACK
SEAT BELT SWITCH HARNESS-TO Connector	D-HARNESS CONNECTORS Type / Color	SM8-D / 2-	WAY MULTILOCK 070 / BLACK
SEAT BELT SWITCH HARNESS-TO Connector CA23	D-HARNESS CONNECTORS Type / Color 10-WAY MULTILOCK 070 / WHITE	SM8-D / 2-	WAY MULTILOCK 070 / BLACK Location / Access BELOW DRIVER SEAT
HARNESS-TO Connector CA23 FC5	D-HARNESS CONNECTORS Type / Color 10-WAY MULTILOCK 070 / WHITE 54-WAY THROUGH PANEL CONNECTOR	SM8-D / 2-	WAY MULTILOCK 070 / BLACK Location / Access BELOW DRIVER SEAT BELOW DRIVER SIDE AIR V

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Ground	Location / Type
CA25R	EYELET (PAIR) - PASSENGER SEAT GROUND STUD
CA26R	EYELET (PAIR) - DRIVER SEAT GROUND STUD

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)

The following symbols are used to represent values for Control Module Pin Out data:

- Input D Serial and encoded communications
- O Output
- SG Signal Ground
- CAN (Network) С
  - S SCP Network
- V Voltage (DC) Hz Frequency
- B+ Battery voltage
- KHz Frequency x 1000 MS Milliseconds MV Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

#### Location / Access

COLUMN SWITCHGEAR HARNESS / ADJACENT TO STEERING COLUMN MOTOR BULKHEAD / BEHIND GLOVE BOX DRIVER SEAT

VENT / COIN TRAY

#### BODY PROCESSOR MODULE

$\vee$	Pin	Description	Active	Inactive
0	FC15-1	RH FRONT SIDE LAMP SUPPLY	B+	GROUND
0	FC15-2	LH FRONT DI LAMP SUPPLY	B+ (PULSED)	GROUND
0	FC15-3	RH FRONT DI LAMP SUPPLY	B+ (PULSED)	GROUND
I	FC15-14	HEADLAMP MAIN BEAM REQUEST	GROUND	B+
1	FC15-15	IGNITION SWITCHED GROUND	GROUND	B+
1	FC15-16	SIDE LAMP REQUEST	GROUND	B+
0	FC15-20	FRONT FOG LAMP RELAY ACTIVATE	GROUND	B÷
1	FC15-30	HEADLAMP FLASH REQUEST	GROUND (MOMENTARY)	B+
1	FC15-38	FRONT FOG LAMP REQUEST	GROUND	B+
1	FC15-41	STARTER ENGAGE REQUEST	GROUND (CRANKING)	B÷
I.	FC15-42	HEADLAMP DIP REQUEST	GROUND (MOMENTARY)	B+
Ο	FC15-45	MAIN BEAM RELAY ACTIVATE	GROUND	B+
0	FC15-53	LH FRONT SIDE LAMP SUPPLY	B+	GROUND
1	FC15-59	HAZARD LAMP REQUEST	GROUND (MOMENTARY)	B+
1	FC15-61	RH DI REQUEST	GROUND	B+
0	FC15-68	DIP BEAM RELAY ACTIVATE	GROUND	8+
1	FC15-79	BATTERY SUPPLY VOLTAGE	B+	B+
1	FC15-80	BATTERY SUPPLY VOLTAGE	B+	B+
S	FC15-84	SCP NETWORK	2 - 1600 Hz	
s	FC15-85	SCP NETWORK	2 - 1600 Hz	
1	FC15-88	1H DI REQUEST	GROUND	B+
0	FC15-96	HAZARD LAMP STATUS	GROUND (PULSE)	B+
INS	TRUMENT	РАСК		
$\bigtriangledown$	Pin	Description	Active	Inactive
s	FC24-19	SCP NETWORK	2 - 1600 Hz	

2 - 1600 Hz

S FC24-20 SCP NETWORK

NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

# Fig. 09.1

COMPONENT	rs		
Component		Connector / 1	Type / Color
BODY PROCESSOR I	MODULE	FC15 / 14-WAY AMP	EEEC / GREY
CENTER CONSOLE \$	WITCH PACK	CC1 / 16-WAY FORD	IDC S.U. / BLACK
DIRECTION INDICAT	OR LAMP – LH FRONT	BL2 / 2-WAY REINSH	AGEN / VOLKSWAGEN /
DIRECTION INDICAT	OR LAMP - RH FRONT	BR2 / 2-WAY REINSH	AGEN / VOLKSWAGEN )
FOG LAMP SWITCH	ES	FC3 / 10-WAY AMP N	ICRO QUAD LOCK / NA
FOG LAMP - LH FRO	INT	BL4 / 2-WAY DELPHI	/ PACKARD METRIPACK
FOG LAMP - RH FRO	ONT	BR4 / 2-WAY DELPHI	/ PACKARD METRIPACK
LAMP UNIT – LH FRO	ONT	LS38 / 6-WAY AUGA	T 1.6 / BLACK
LAMP UNIT - RH FR	ONT	LS40 / 6-WAY AUGA	T 1.6 / BLACK
FUSE BOX - ENGINE	COMPARTMENT	LS5 / 10-WAY U.T.A. LS6 / 10-WAY U.T.A. LS7 / 10-WAY U.T.A. LS8 / 10-WAY U.T.A. ST19 / EYELET	FUSE BOX / NATURAL FUSE BOX / BLACK FUSE BOX / GREEN FUSE BOX / BLUE
INSTRUMENT PACK		FC24 / 48-WAY AMP FC25 / 24-WAY AMP	MODULE PCB SIGNAL / MODULE PCB SIGNAL /
LIGHTING STALK (C	OLUMN SWITCHGEAR)	SC2 / 10-WAY MULT	ILOCK 070 / YELLOW
SIDE MARKER - LH	FRONT	BL5 / 2-WAY REINSH	AGEN / VOLKSWAGEN
SIDE MARKER - RH	FRONT	BR5 / 2-WAY REINSH	AGEN / VOLKSWAGEN
RELAYS			
Relay		Case Color	Connector
DIP BEAM RELAY		BROWN	BUS
FRONT FOG RELAY		BROWN	BUS
MAIN BEAM RELAY		BROWN	BUS
HARNESS-TO	0-HARNESS CONNECT	ORS	
Connector	Type / Color	Loc	ation / Access
BL1	4-WAY AUGAT 1.6 / BLACK	BEHI	ND LEFT HAND WHEEL A

Connector	Type / Color	Location / Acce
L1	4-WAY AUGAT 1.6 / BLACK	BEHIND LEFT HAND WH
R1	4-WAY AUGAT 1.6 / BLACK	ADJACENT TO BOTTOM
C5	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW DRIVER SIDE AIR
C7	20-WAY MULTILOCK 070 / WHITE	ABOVE DIMMER MODUL
\$3	54-WAY THROUGH PANEL CONNECTOR / BLACK	LH 'A' POST / LOWER 'A

GROUNDS

Ground	Location / Type
CC3L	EYELET (PAIR) - RH FRONT BULKHEAD STUD / CABIN SIDE
CC3R	EYELET (PAIR) - RH FRONT BULKHEAD STUD / CABIN SIDE
FC17L	EYELET (PAIR) – EMS BULKHEAD GROUND STUD
FC17R	EYELET (PAIR) – EMS BULKHEAD GROUND STUD
LS18L	EYELET (PAIR) – LH FORWARD GROUND STUD
LS19R	EYELET (PAIR) - RH FORWARD GROUND STUD

#### CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)

The following symbols are used to represent values for Control Module Pin Out data:

- Input D Serial and encoded communications
- O Output
- SG Signal Ground
- С S
- CAN (Network) SCP Network
- Voltage (DC) v Hz Frequency

B+ Battery voltage

- MS Milliseconds
  - MV Millivolts

KHz Frequency x 1000

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

/ BLACK / BLACK ATURAL 280 / GREY ( 280 / GREY

/ BLACK / BLACK

/ BLACK / BLACK

#### Location / Access

BULKHEAD / BEHIND GLOVE BOX CENTER CONSOLE SWITCH PACK FRONT BUMPER - LH SIDE FRONT BUMPER – RH SIDE FASCIA / OUTBOARD OF STEERING COLUMN FRONT BUMPER - LH SIDE FRONT BUMPER - BH SIDE ENGINE COMPARTMENT / LH FRONT ENGINE COMPARTMENT / RH FRONT ENGINE COMPARTMENT / LH FRONT

#### FASCIA

COLUMN SWITCHGEAR HARNESS / ADJACENT TO STEERING COLUMN MOTOR FRONT BUMPER - 1H SIDE FRONT BUMPER - RH SIDE

#### / Color

#### Location / Access

RELAY #5, ENGINE COMPARTMENT FUSE BOX / ENGINE COMPARTMENT RELAY #2, ENGINE COMPARTMENT FUSE BOX / ENGINE COMPARTMENT RELAY #3, ENGINE COMPARTMENT FUSE BOX / ENGINE COMPARTMENT

ARCH LINER OF WASHER FLUID RESERVOIR IR VENT / COIN TRAY LE / COIN TRAY POST FINISHER

#### BODY PROCESSOR MODULE

$\bigtriangledown$	Pin	Description	Active	Inactive
0	FC15-1	RH FRONT SIDE LAMP SUPPLY	В+	GROUND
0	FC15-2	LH FRONT DI LAMP SUPPLY	B+ (PULSED)	GROUND
0	FC15-3	RH FRONT DI LAMP SUPPLY	B+ (PULSED)	GROUND
1	FC15-14	HEADLAMP MAINBEAM REQUEST	GROUND	B+
L	FC15-15	IGNITION SWITCHED GROUND	GROUND	B+
t	FC15-16	SIDE LAMP REQUEST	GROUND	B+
0	FC15-20	FRONT FOG LAMP RELAY ACTIVATE	GROUND	B+
0	FC15-27	LH SIDE DI REPEATER LAMP SUPPLY (ROW ONLY)	B+ (PULSED)	GROUND
I.	FC15-30	HEADLAMP FLASH REQUEST	GROUND (MOMENTARY)	B+
1	FC15-38	FRONT FOG LAMP REQUEST	GROUND	B+
1	FC15-41	STARTER ENGAGE REQUEST	GROUND (CRANKING)	B+
1	FC15-42	HÉADLAMP DIP REQUEST	GROUND (MOMENTARY)	B+
0	FC15-45	MAIN BEAM RELAY ACTIVATE	GROUND	<b>B</b> +
0	FC15-53	LH FRONT SIDE LAMP SUPPLY	B+	GROUND
1	FC15-59	HAZARD LAMP REQUEST	GROUND (MOMENTARY)	B+
Ł	FC15-61	RH DI REQUEST	GROUND	B+
0	FC15-68	DIP BEAM RELAY ACTIVATE	GROUND	B+
1	FC15-79	BATTERY SUPPLY VOLTAGE	B+	B+
1	FC15-80	BATTERY SUPPLY VOLTAGE	B+	B+
0	FC15-81	RH SIDE DI REPEATER LAMP SUPPLY (ROW ONLY)	B+ (PULSED)	GROUND
s	FC15-84	SCP NETWORK	2 – 1600 Hz	
s	FC15-85	SCP NETWORK	2 – 1600 Hz	
1	FC15-88	LH DI REQUEST	GROUND	В+
0	FC15-96	HAZARD LAMP STATUS	GROUND (PULSE)	B+
INS	TRUMEN	Т РАСК		
$\bigtriangledown$	Pin	Description	Active	Inactive

2 – 1600 Hz

2 – 1600 Hz

SCP NETWORK NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

# Fia. 09.2

COMPONENT	S		
Component		Connector / 1	Гуре / Color
BODY PROCESSOR M	IODULE	FC15 / 14-WAY AMP	EEEC / GREY
CENTER CONSOLE S	WITCH PACK	CC1 / 16-WAY FORD IDC S.U. / BLACK BL2 / 2-WAY REINSHAGEN / VOLKSWAGEN / E BR2 / 2-WAY REINSHAGEN / VOLKSWAGEN / I FC3 / 10-WAY AMP MICRO QUAD LOCK / NATI	
DIRECTION INDICATO	DR LAMP – LH FRONT		
DIRECTION INDICATO	DR LAMP – RH FRONT		
FOG LAMP SWITCHE	s		
FOG LAMP - LH FROI	ти	BL4 / 2-WAY DELPHI	/ PACKARD METRIPACK 2
FOG LAMP - RH FRO	NT	BR4 / 2-WAY DELPHI	/ PACKARD METRIPACK
FRONT LAMP UNIT -	LH	LS38 / 6-WAY AUGA	T 1.6 / BLACK
FRONT LAMP UNIT -	RH	L\$40 / 6-WAY AUGA	T 1.6 / BLACK
FUNT LAMP UNIT - BR		LS5 / 10-WAY U.T.A. FUSE BOX / NATURAL LS6 / 10-WAY U.T.A. FUSE BOX / DLACK LS7 / 10-WAY U.T.A. FUSE BOX / GREEN LS8 / 10-WAY U.T.A. FUSE BOX / BLUE ST19 / EYELET	
INSTRUMENT PACK		FC24 / 48-WAY AMP MODULE PCB SIGNAL / E FC25 / 24-WAY AMP MODULE PCB SIGNAL / E	
LIGHTING STALK (COLUMN SWITCHGEAR) SIDE DI REPEATER – LH		SC2 / 10-WAY MULTILOCK 070 / YELLOW	
RELAYS			
Relay		Case Color	Connector /
DIP BEAM RELAY		BROWN	BUS
FRONT FOG BELAY		BROWN	BUS
MAIN BEAM RELAY		BRÓWN	BUS
HARNESS-TO		RS	
Connector	Type / Color	Loc	ation / Access
BL1	4-WAY AUGAT 1.6 / BLACK	BEHI	ND LEFT HAND WHEEL AF

Connector	Type / Color	Location / Acco
BL1	4-WAY AUGAT 1.6 / BLACK	BEHIND LEFT HAND WH
BR1	4-WAY AUGAT 1.6 / BLACK	ADJACENT TO BOTTOM
FC5	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW DRIVER SIDE A
FC7	20-WAY MULTILOCK 070 / WHITE	ABOVE DIMMER MODU
LS3	54-WAY THROUGH PANEL CONNECTOR / BLACK	LH 'A' POST / LOWER 'A

GROUNDS

Ground	Location / Type
CA33R	EYELET (PAIR) – RH 'A' POST GROUND SCREW
CC3L	EYELET (PAIR) – RH FRONT BULKHEAD STUD / CABIN SIDE
CC3R	EYELET (PAIR) - RH FRONT BULKHEAD STUD / CABIN SIDE
FC17L	EYELET (PAIR) – EMS BULKHEAD GROUND STUD
FC17R	EYELET (PAIR) – EMS BULKHEAD GROUND STUD
LS18L	EYELET (PAIR) - LH FORWARD GROUND STUD
LS19R	EYELET (PAIR) – RH FORWARD GROUND STUD

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)



The following symbols are used to represent values for Control Module Pin Out data:

- I Input D
- O Output

S FC24-19

S FC24-20

SCP NETWORK

- SG Signal Ground
- S
- С SCP Network
- CAN (Network)

Serial and encoded communications

- v Voltage (DC) Hz Frequency

B+ Battery voltage

KHz Frequency x 1000 MS Milliseconds MV Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

BLACK / BLACK TURAL 280 / GREY ( 280 / GREY

/ BLACK / BLACK

BLACK BLACK

#### Location / Access

BULKHEAD / BEHIND GLOVE BOX CENTER CONSOLE SWITCH PACK FRONT BUMPER - LH SIDE FRONT BUMPER - RH SIDE FASCIA / OUTBOARD OF STEERING COLUMN FRONT BUMPER - LH SIDE FRONT BUMPER - RH SIDE ENGINE COMPARTMENT / LH FRONT ENGINE COMPARTMENT / RH FRONT ENGINE COMPARTMENT / LH FRONT

#### FASCIA

COLUMN SWITCHGEAR HARNESS / ADJACENT TO STEERING COLUMN MOTOR BEHIND LEFT HAND WHEEL ARCH LINER BEHIND RIGHT HAND WHEEL ARCH LINER

#### Color

#### Location / Access

RELAY #5, ENGINE COMPARTMENT FUSE BOX / ENGINE COMPARTMENT RELAY #2, ENGINE COMPARTMENT FUSE BOX / ENGINE COMPARTMENT RELAY #3, ENGINE COMPARTMENT FUSE BOX / ENGINE COMPARTMENT

ARCH LINER M OF WASHER FLUID RESERVOIR AIR VENT / COIN TRAY ULE / COIN TRAY A' POST FINISHER

#### BODY PROCESSOR MODULE

$\bigtriangledown$	Pin	Description	Active	Inactive
I.	FC15-12	REAR FOG LAMP REQUEST	GROUND	B+
1	FC15-15	IGNITION SWITCHED GROUND	GROUND	B+
Г	FC15-16	SIDE LAMP REQUEST	GROUND	B+
0	FC15-28	RH TAIL LAMP SUPPLY	В+	GROUND
1	FC15-41	STARTER ENGAGE REQUEST	GROUND (CRANKING)	B+
0	FC15-44	REAR FOG LAMP STATUS	GROUND	B+
0	FC15-49	TRAILER RH DI LAMP SUPPLY	B+ (PULSED)	GROUND
0	FC15-50	LH DI LAMP SUPPLY	B∸ (PULSED)	GROUND
0	FC15-54	LH TAIL LAMP SUPPLY	B₄	GROUND
I.	FC15-59	HAZARD LAMP REQUEST	GROUND (MOMENTARY)	B+
1	FC15-61	RH DI REQUEST	GROUND	B+
0	FC15-75	TRAILER LH DI LAMP SUPPLY	B+ (PULSED)	GROUND
0	FC15-76	RH DI LAMP SUPPLY	B+ (PULSED)	GROUND
1	FC15-79	BATTERY SUPPLY VOLTAGE	В+	В+
I.	FC15-80	BATTERY SUPPLY VOLTAGE	8+	B+
s	FC15-84	SCP NETWORK	2 – 1600 Hz	
s	FC15-85	SCP NETWORK	2 - 1600 Hz	
t	FC15-88	LH DI REQUEST	GROUND	8+
0	FC15-95	SIDE MARKER & NUMBER PLATE LAMP RELAY ACTIVATE	GROUND	B+
0	FC15-96	HAZARD LAMP STATUS	GROUND (PULSE)	B+
1	FC15-104	BATTERY SUPPLY VOLTAGE	B+	B+
INS	TRUMENT	РАСК		
$\bigtriangledown$	Pin	Description	Active	Inactive
S	FC24-19	SCP NETWORK	2 - 1600 Hz	
s	FC24-20	SCP NETWORK	2 - 1600 Hz	
С	FC24-24	CAN NETWORK	15 – 1500 Hz	
С	FC24-47	CAN NETWORK	15 – 1500 Hz	
SEC	CURITY AN	D LOCKING CONTROL MODULE		
$\vee$	Pin	Description	Active	Inactive
0	BT1-3	RH STOP LAMP SUPPLY	B+	GROUND
0	BT1-4	REAR FOG LAMP SUPPLY	В+	GROUND
0	BT1-5	REVERSE LAMP SUPPLY	B+	GROUND
1	BT1-6	BATTERY SUPPLY	В+	B+
0	BT1-7	SPLIT CHARGE CONTROL		
s	BT1-8	SCP NETWORK	2 – 1600 Hz	
0	BT1-9	LH STOP LAMP SUPPLY	B+	GROUND
1	BT1-13	LOGIC GROUND	GROUND	GROUND
1	BT1-14	LOGIC GROUND	GROUND	GROUND
S	BT1-16	SCP NETWORK	2 – 1600 Hz	
,	BT2-1	BRAKE SWITCH STATUS		D.
T	BT2-6	TRAILER CONNECTION STATUS		
			GROUND (TRAILER PRESENT)	B+ (NO IRAILER)

NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

# Fia. 09.3

	COMPONEN	тѕ		
	Component		Connector	/ Type / Color
	BODY PROCESSOR BRAKE SWITCH	MODULE	FC15 / 14-WAY A CC40 / 4-WAY M	MP EEEC / GREY ULTILOCK 070 / WHITE
	CENTER CONSOLE	SWITCH PACK	CC1 / 16-WAY F0	ORD IDC S.U. / BLACK
	DIODE (BT40) · NUI	MBER PLATE	8T40 / 2-WAY D1	ODE MODULE ASSEMB
	FOG LAMP SWITCH	ES	FC3 / 10-WAY A	MP MICRO QUAD LOCK
	FUSE BOX – TRUNK		BT10 / 10-WAY L BT11 / 10-WAY L BT12 / 10-WAY L BT13 / 10-WAY L BT64 / EYELET	J.T.A. FUSE BOX / NATU J.T.A. FUSE BOX / BLAC J.T.A. FUSE BOX / GREE J.T.A. FUSE BOX / BLUE
	HIGH MOUNTED ST	OP LAMP	CA35 / 2-WAY Y	AZAKI / NATURAL
	INSTRUMENT PACE	ζ.	FC24 / 48-WAY A FC25 / 24-WAY A	MP MODULE PCB SIGN MP MODULE PCB SIGN
	LIGHTING STALK (C	OLUMN SWITCHGEAR)	SC2 / 10-WAY M	ULTILOCK 070 / YELLOW
	NUMBER PLATE LA	MP – LH	BT27 / 2-WAY AI	MP POSILOCK II / BLACK
	NUMBER PLATE LA	MP RH	BT26 / 2-WAY AI	MP POSILOCK II / BLACK
	REAR SIDE MARKE	1 – LH	BT29 / 2-WAY RE	EINSHAGEN / VOLKSWA
	REAR SIDE MARKEI SECURITY AND LOG	R – RH CKING CONTROL MODULE	BT31 / 2-WAY RE BT1 / 16-WAY FC BT2 / 26-WAY FC BT6 / 1-WAY CO	EINSHAGEN / VOLKSWA DRD 2.8 TIMER / BLACK DRD IDC / BLACK AXIAL CONNECTOR
	TAIL LAMP UNIT - I	_H	BT51 / 7-WAY FF	AM - FORD 2.8 TIMER /
	TAIL LAMP UNIT – I	RH	BT50 / 7-WAY FF	AM - FORD 2.8 TIMER /
	TRAILER CONNECT	OR	BT32 / 14-WAY M	MULTILOCK 070 / YELLO
	RELAYS			
	Relay		Case Color	Connect
	STOP LAMP RELAY		BROWN	BUS
	SIDE MARKER AND	NUMBER PLATE LAMP RELAY	BROWN	BUS
	HARNESS-T	O-HARNESS CONNECTO	RS	
	Connector	Type / Color	L	ocation / Acces
	BT4	54-WAY THROUGH PANEL / BLAC	к в	ELOW PARCEL SHELF / "
	CA19	20-WAY MULTILOCK 070 / YELLO	W LI	H 'A' POST CONNECTOR
	FC1	54-WAY THROUGH PANEL CONN	ECTOR / BLACK B	ELOW PASSENGER SID
	FC5	54-WAY THROUGH PANEL CONN	ECTOR / BLACK B	ELOW DRIVER SIDE AIR
	FC7	20-WAY MULTILOCK 0/0 / WHITE	A	BOVE DIMMER MODULI
	GROUNDS			
	Ground	Location / Type		
3)	BT20	EYELET (SINGLE) - TRUNK / RH R	EAR GROUND STUD	
	BT20	EYELET (SINGLE) – TRUNK / RH R	EAR GROUND STUD	
	BT21L	EYELET (PAIR) – TRUNK / RH REA	R GROUND STUD	
	BT22L	EYELET (PAIR) ~ TRUNK / RH CEN	TER GROUND STUD	
	CA31L	EYELET (PAIR) - RH DRIVE SHAFT	TUNNEL GROUND STUD	
	CC3L	EYELET (PAIR) - RH FRONT BULK	HEAD STUD / CABIN SIDE	
	CC3R	EYELET (PAIR) - RH FRONT BULK	HEAD STUD / CABIN SIDE	
	FC1/L	EYELET (PAIR) - EMS BULKHEAD	GROUND STUD	

#### CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)

EYELET (PAIR) - EMS BULKHEAD GROUND STUD

The following symbols are used to represent values for Control Module Pin Out data:

- Input D Serial and encoded communications
- O Output
- SG Signal Ground
  - S
- С
- CAN (Network) SCP Network
- B+ Battery voltage V Voltage (DC)
- Hz Frequency
- KHz Frequency x 1000 MS Milliseconds MV Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

FC17R

Location	/ Access
----------	----------

BULKHEAD / BEHIND GLOVE BOX ADJACENT TO THE BRAKE PEDAL MOUNTING ASSEMBLY CENTER CONSOLE SWITCH PACK ADJACENT TO BATTERY / BATTERY COVER FASCIA / OUTBOARD OF STEERING COLUMN TRUNK ELECTRICAL CARRIER

BLY /NATURAL JRAL K

NAL / BLACK NAL / BLACK w

AGEN / BLACK AGEN / BLACK

BLACK BLACK w

BACKLIGHT FASCIA

COLUMN SWITCHGEAR HARNESS / ADJACENT TO STEERING COLUMN MOTOR BEHIND TRUNK LID LINER BEHIND TRUNK LID LINER TRUNK LH SIDE / TRUNK CARPET TRUNK RH SIDE / TRUNK CARPET BELOW TRUNK FUSE BOX

TRUNK LH SIDE / REAR LAMP COVER TRUNK RH SIDE / REAR LAMP COVER ABOVE TRUNK FUSE BOX

#### tor / Color

#### Location / Access

RELAY #5, TRUNK FUSE BOX / TRUNK RELAY #3, TRUNK FUSE BOX / TRUNK

#### SS

/ TRUNK / REAR BULKHEAD / RH SIDE R MOUNTING BRACKET / LOWER 'A' POST FINISHER E AIR VENT / GLOVE BOX ASSEMBLY VENT / COIN TRAY LE / COIN TRAY

#### BODY PROCESSOR MODULE

$\bigtriangledown$	Pin	Description	Active	Inactive
1	FC15-12	REAR FOG LAMP REQUEST	GROUND	B+
1	FC15-15	IGNITION SWITCHED GROUND	GROUND	B+
1	FC15-16	SIDE LAMP REQUEST	GROUND	B+
0	FC15-28	RH TAIL LAMP SUPPLY	B+	GROUND
1	FC15-41	STARTER ENGAGE REQUEST	GROUND (CRANKING)	B+
0	FC15-44	REAR FOG LAMP STATUS	GROUND	B+
0	FC15-49	TRAILER RH DI LAMP SUPPLY	B+ (PULSED)	GROUND
0	FC15-50	LH DI LAMP SUPPLY	B+ (PULSED)	GROUND
0	FC15-54	LH TAIL LAMP SUPPLY	B+	GROUND
1	FC15-59	HAZARD LAMP REQUEST	GROUND (MOMENTARY)	B+
1	FC15-61	RH DI REQUEST	GROUND	B+
0	FC15-75	TRAILER LH DI LAMP SUPPLY	B+ (PULSED)	GROUND
0	FC15-76	RH DI LAMP SUPPLY	B+ (PULSED)	GROUND
I	FC15-79	BATTERY SUPPLY VOLTAGE	B+	B+
1	FC15-80	BATTERY SUPPLY VOLTAGE	B+	B+
s	FC15-84	SCP NETWORK	2 – 1600 Hz	
s	FC15-85	SCP NETWORK	2 – 1600 Hz	
1	FC15-88	LH DI REQUEST	GROUND	B+
0	FC15-95	SIDE MARKER & NUMBER PLATE LAMP RELAY ACTIVATE	GROUND	B+
0	FC15-96	HAZARD LAMP STATUS	GROUND (PULSE)	B+
I	FC15-104	BATTERY SUPPLY VOLTAGE	B+	B+

#### INSTRUMENT PACK

$\bigtriangledown$	Pin	Description	Active
s	FC24-19	SCP NETWORK	2 – 1600 Hz
s	FC24-20	SCP NETWORK	2 – 1600 Hz
с	FC24-24	CAN NETWORK	15 – 1500 Hz
C	FC24-47	CAN NETWORK	15 – 1500 Hz

#### SECURITY AND LOCKING CONTROL MODULE

$\vee$	Pin	Description	Active	Inactive
0	BT1-3	RH STOP LAMP SUPPLY	B+	GROUND
0	BT1-4	REAR FOG LAMP SUPPLY	B+	GROUND
0	BT1-5	REVERSE LAMP SUPPLY	B+	GROUND
1	BT1-6	BATTERY SUPPLY	B+	B+
0	8T1-7	SPLIT CHARGE CONTROL		
s	BT1-8	SCP NETWORK	2 – 1600 Hz	
0	BT1-9	LH STOP LAMP SUPPLY	B+	GROUND
1	BT1-13	LOGIC GROUND	GROUND	GROUND
1	BT1-14	LOGIC GROUND	GROUND	GROUND
s	BT1-16	SCP NETWORK	2 – 1600 Hz	
I.	BT2-1	BRAKE SWITCH STATUS	GROUND (BRAKE ON)	B+
1	BT2-6	TRAILER CONNECTION STATUS	GROUND (TRAILER PRESENT)	B+ (NO TRAILER)

NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

# Fig. 09.4

	COMPONENT	S			
	Component		Connector	· / Type / Color	Location / Access
	BODY PROCESSOR M BRAKE SWITCH CENTER CONSOLE S DIODE (BT40) – NUM FOG LAMP SWITCHE FUSE BOX – TRUNK	NODULE WITCH PACK BER PLATE S	FC15 / 14-WAY // CC40 / 4-WAY N CC1 / 16-WAY F BT40 / 2-WAY D FC3 / 10-WAY A BT10 / 10-WAY BT11 / 10-WAY BT12 / 10-WAY BT13 / 10-WAY	AMP EEEC / GREY IULTILOCK 070 / WHITE ORD IDC S.U. / BLACK IODE MODULE ASSEMBLY MP MICRO QUAD LOCK / NATURAL U.T.A. FUSE BOX / NATURAL U.T.A. FUSE BOX / BLACK U.T.A. FUSE BOX / BLACK U.T.A. FUSE BOX / BLUE	BULKHEAD / BEHIND GLOVE BOX ADJACENT TO THE BRAKE PEDAL MOUNTING ASSEMBLY CENTER CONSOLE SWITCH PACK ADJACENT TO BATTERY / BATTERY COVER FASCIA / OUTBOARD OF STEERING COLUMN TRUNK ELECTRICAL CARRIER
	WOUNDED ST		BT64 / EYELET		BACKLIGHT
	INSTRUMENT PACK		FC24 / 48-WAY FC25 / 24-WAY	AMP MODULE PCB SIGNAL / BLACK AMP MODULE PCB SIGNAL / BLACK	FASCIA
	LIGHTING STALK (CO	DLUMN SWITCHGEAR)	SC2 / 10-WAY N	IULTILOCK 070 / YELLOW	COLUMN SWITCHGEAR HARNESS / ADJACENT TO STEERING COLUMN MOTOR
	NUMBER PLATE LAN	/P - LH	BT27 / 2-WAY A	MP POSILOCK II / BLACK	BEHIND TRUNK LID LINER
	NUMBER PLATE LAN	ЛР – RH	BT26 / 2-WAY A	MP POSILOCK II / BLACK	BEHIND TRUNK LID LINER
	SECURITY AND LOC	KING CONTROL MODULE	BT1 / 16-WAY F BT2 / 26-WAY F BT6 / 1-WAY CO	ORD 2.8 TIMER / BLACK ORD IDC / BLACK DAXIAL CONNECTOR	BELOW TRUNK FUSE BOX
	TAIL LAMP UNIT – LI	н	BT51 / 7-WAY F	RAM – FORD 2.8 TIMER / BLACK	TRUNK LH SIDE / REAR LAMP COVER
	TAIL LAMP UNIT – R	н	BT50 / 7-WAY F	RAM – FORD 2.8 TIMER / BLACK	TRUNK RH SIDE / REAR LAMP COVER
	TRAILER CONNECTO	)R	BT32 / 14-WAY	MULTILOCK 070 / YELLOW	ABOVE TRUNK FUSE BOX
	RELAYS				
	Relay		Case Color	Connector / Color	Location / Access
	STOP LAMP RELAY SIDE MARKER AND	NUMBER PLATE LAMP RELAY	BROWN BROWN	BUS BUS	RELAY #5, TRUNK FUSE BOX / TRUNK RELAY #3, TRUNK FUSE BOX / TRUNK
	HARNESS-TO	D-HARNESS CONNECTOR	S		
	Connector	Type / Color		Location / Access	
	BT4 CA19 FC1 FC5 FC7	54-WAY THROUGH PANEL / BLACK 20-WAY MULTILOCK 070 / YELLOW 54-WAY THROUGH PANEL CONNEC 54-WAY THROUGH PANEL CONNEC 20-WAY MULTILOCK 070 / WHITE	CTOR / BLACK CTOR / BLACK	BELOW PARCEL SHELF / TRUNK / REAR BUI H 'A' POST CONNECTOR MOUNTING BRAU BELOW PASSENGER SIDE AIR VENT / GLOV BELOW DRIVER SIDE AIR VENT / COIN TRAY ABOVE DIMMER MODULE / COIN TRAY	LKHEAD / RH SIDE CKET / LOWER 'A' POST FINISHER 'E BOX ASSEMBLY '
	GROUNDS				
	Ground	Location / Type			
	BT20	EYELET (SINGLE) - TRUNK / RH REA	AR GROUND STUD		
	BT20	EYELET (SINGLE) - TRUNK / RH REA	AR GROUND STUD		
FR)	BT21L	EYELET (PAIR) – TRUNK / RH REAR	GROUND STUD		
	BT22L	EYELET (PAIR) - TRUNK / RH CENT	R GROUND STUD		
	CA31L	EYELET (PAIR) - RH DRIVE SHAFT T	UNNEL GROUND STUD	)	
	CC3L	EYELET (PAIR) - RH FRONT BULKH	EAD STUD / CABIN SIDE		
	CC3R	EYELET (PAIR) - RH FRONT BULKH	EAU STUD / CABIN SIDE		
	FC17L	EYELET (PAIR) – EMS BULKHEAD G	ROUND STUD		

EYELET (PAIR) - EMS BULKHEAD GROUND STUD FC17R EVELET (PAIR) - EMS BULKHEAD GROUND STUD

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)

The following symbols are used to represent values for Control Module Pin Out data:

- Input
- O Output
- SG Signal Ground
- С

D

- CAN (Network)
- S SCP Network

Serial and encoded communications

- Hz Frequency
- KHz Frequency x 1000 B+ Battery voltage V Voltage (DC)
  - MS Milliseconds

Inactive

MV Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

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# Fig. 09.5

#### COMPONENTS

#### Component

HEADLAMP LEVELING ACTUATOR – LH HEADLAMP LEVELING ACTUATOR – RH HEADLAMP LEVELING SWITCH (FASCIA SWITCH PACK)

#### Connector / Type / Color LF41 / 3-WAY REINSHAGEN / BLACK

LF42 / 3-WAY REINSHAGEN / BLACK FC14 / 6-WAY JAE IL-AG5 / GREEN

#### HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location
FC5	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW DRIVE
LS3	54-WAY THROUGH PANEL CONNECTOR / BLACK	LH 'A' POST /

#### GROUNDS

Ground	Location / Type
FC17L	EYELET (PAIR) – EMS BULKHEAD GROUND STUD
LS18L	EYELET (PAIR) – LH FORWARD GROUND STUD
LS19R	EYELET (PAIR) – RH FORWARD GROUND STUD

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

#### Location / Access

ENGINE COMPARTMENT / LH HÉADLAMP ENGINE COMPARTMENT / RH HEADLAMP FASCIA SWITCH PACK

n / Access ER SIDE AIR VENT / COIN TRAY / LOWER 'A' POST FINISHER

#### DRIVER DOOR CONTROL MODULE

$\bigtriangledown$	Pin	Description	Active	Inactive
1	DD10-1	BATTERY POWER SUPPLY	B+	B+
1	DD10-8	LOGIC GROUND	GROUND	GROUND
s	DD10-9	SCP NETWORK	2 - 1600 Hz	
0	DD10-14	DRIVER DOOR PUDDLE LAMP SUPPLY	В+	GROUND
s	DD10-16	SCP NETWORK	2 – 1600 Hz	
1	DD10-17	POWER GROUND	GROUND	GROUND
1	DD11-4	DRIVER DOOR LOCK BARREL UNLOCK REQUEST	B+ (MOMENTARY)	GROUND
ſ	DD11-12	DRIVER DOOR LOCK BARREL LOCK REQUEST	B+ (MOMENTARY)	GROUND
1	DD11-20	DRIVER DOOR SWITCH	GROUND (DOOR OPEN)	B÷
DRI				
		DOON CONTROL MODOLL		
$\vee$	Pin	Description	Active	Inactive
1	RD10-1	BATTERY POWER SUPPLY	B+	B+
1	RD10-8	LOGIC GROUND	GROUND	GROUND
s	RD10-9	SCP NETWORK	2 - 1600 Hz	
0	RD10-14	PASSENGER DOOR PUDDLE LAMP SUPPLY	B+ (LIGHT ON)	GROUND
s	RD10-16	SCP NETWORK	2 - 1600 Hz	
1	RD10-17	POWER GROUND	GROUND	GROUND
I	RD11-20	DRIVER REAR DOOR SWITCH	GROUND (DOOR OPEN)	B+
PAS	SENGER D			
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				1
$\sim$	Pin	Description	Active	Inactive
I	PD10-1	BATTERY POWER SUPPLY	В+	8+
1	PD10-8	LOGIC GROUND	GROUND	GROUND
s	PD10-9	SCP NETWORK	2 – 1600 Hz	
0	PD10-14	PASSENGER DOOR PUDDLE LAMP SUPPLY	B+ (LIGHT ON)	GROUND
s	PD10-16	SCP NETWORK	2 – 1600 Hz	
I.	PD10-17	POWER GROUND	GROUND	GROUND
l.	PD11-20	PASSENGER DOOR SWITCH	GROUND (DOOR OPEN)	B+
PAS	SENGER F	REAR DOOR CONTROL MODULE		
$\nabla$	Pin	Description	Active	Inactive
,	PBIO 1			p.
		DATIENT POWER SUPPLY	8+ 27.0/11/2	CROUND
e i	NF 10-0			GROOND
0	BP10-3		2 - 1600 HZ	GROUND
ç	RP10.16	CONTRACTION	0+ (LIGH: ON)	Giloono
1	RP10-17			GROUND
	10-17	1 OWEN GROOND	GROUND	Gilborio
1	RP11-20	PASSENGER REAR DOOR SWITCH	GROUND (DOOR OPEN)	B+
BOI				
$\overline{\nabla}$		DOUD INICICLE		
- X /				Incotivo
v	Pin	Description	Active	Inactive
ī	Pin FC15-15		Active ground	Inactive B+
I I	Pin FC15-15 FC15-24	Description IGNITION SWITCHED GROUND COURTESY LAMP SUPPLY	Active ground B+	Inactive <sup>B+</sup> GROUND
1 1 1	Pin FC15-15 FC15-24 FC15-32	Description IGNITION SWITCHED GROUND COURTESY LAMP SUPPLY IGNITION SWITCHED GROUND	Active ground B+ ground	<b>Inactive</b> B+ GROUND B+
	Pin FC15-15 FC15-24 FC15-32 FC15-41	Description IGNITION SWITCHED GROUND COURTESY LAMP SUPPLY IGNITION SWITCHED GROUND STARTER ENGAGE REQUEST	Active ground B+ ground ground (cranking)	Inactive B+ GROUND B+ B+
       0	Pin FC15-15 FC15-24 FC15-32 FC15-32 FC15-41 FC15-57	Description IGNITION SWITCHED GROUND COURTESY LAMP SUPPLY IGNITION SWITCHED GROUND STARTER ENGAGE REQUEST COURTESY LAMP ACTIVATE REQUEST	Active ground B+ ground ground (cranking) ground (momentary)	Inactive B+ GROUND B+ B+ B+
       0	Pin FC15-15 FC15-24 FC15-32 FC15-32 FC15-41 FC15-57 FC15-67	Description IGNITION SWITCHED GROUND COURTESY LAMP SUPPLY IGNITION SWITCHED GROUND STARTER ENGAGE REQUEST COURTESY LAMP ACTIVATE REQUEST KEY IN IGNITION	Active GROUND B+ GROUND GROUND (CRANKING) GROUND (MOMENTARY) GROUND (KEY IN)	Inactive B+ GROUND B+ B+ B+ B+ B+ (KEY OUT)
	Pin FC15-15 FC15-24 FC15-32 FC15-32 FC15-41 FC15-57 FC15-67 FC15-74	Description IGNITION SWITCHED GROUND COURTESY LAMP SUPPLY IGNITION SWITCHED GROUND STARTER ENGAGE REQUEST COURTESY LAMP ACTIVATE REQUEST KEY IN IGNITION COURTESY LAMP SUPPLY	Active GROUND B+ GROUND GROUND (CRANKING) GROUND (MOMENTARY) GROUND (KEY IN) B+	Inactive B+ GROUND B+ B+ B+ B+ (KEY OUT) GROUND
	Pin FC15-15 FC15-24 FC15-22 FC15-24 FC15-24 FC15-24 FC15-57 FC15-67 FC15-67 FC15-74 FC15-80	Description IGNITION SWITCHED GROUND COURTESY LAMP SUPPLY IGNITION SWITCHED GROUND STARTER ENGAGE REQUEST COURTESY LAMP ACTIVATE REQUEST KEY IN IGNITION COURTESY LAMP SUPPLY BATTERY SUPPLY VOLTAGE	Active GROUND B+ GROUND (CRANKING) GROUND (MOMENTARY) GROUND (KEY IN) B+ B+	Inactive B+ GROUND B+ B+ B+ B+ (KEY OUT) GROUND B+
       0           	Pin FC15-15 FC15-24 FC15-24 FC15-32 FC15-41 FC15-57 FC15-67 FC15-74 FC15-80 FC15-84	Description IGNITION SWITCHED GROUND COURTESY LAMP SUPPLY IGNITION SWITCHED GROUND STARTER ENGAGE REQUEST COURTESY LAMP ACTIVATE REQUEST KEY IN IGNITION COURTESY LAMP SUPPLY BATTERY SUPPLY VOLTAGE SCP NETWORK	Active GROUND B+ GROUND (CRANKING) GROUND (MOMENTARY) GROUND (KEY IN) B+ B+ 2 - 1600 Hz	Inactive B+ GROUND B+ B+ B+ H+ (KEY OUT) GROUND B+
     0   0   \$ \$	Pin FC15-15 FC15-24 FC15-24 FC15-24 FC15-32 FC15-67 FC15-67 FC15-67 FC15-80 FC15-84 FC15-85	Description IGNITION SWITCHED GROUND COURTESY LAMP SUPPLY IGNITION SWITCHED GROUND STARTER ENGAGE REQUEST COURTESY LAMP ACTIVATE REQUEST KEY IN IGNITION COURTESY LAMP SUPPLY BATTERY SUPPLY VOLTAGE SCP NETWORK SCP NETWORK	Active GROUND B+ GROUND (CRANKING) GROUND (MOMENTARY) GROUND (KEY IN) B+ B+ 2 - 1600 Hz 2 - 1600 Hz	Inactive B+ GROUND B+ B+ B+ B+ (KEY OUT) GROUND B+
       0   0   5 \$ 0	Pin FC15-15 FC15-24 FC15-24 FC15-32 FC15-32 FC15-34 FC15-80 FC15-84 FC15-84 FC15-85 FC15-85 FC15-101	Description IGNITION SWITCHED GROUND COURTESY LAMP SUPPLY IGNITION SWITCHED GROUND STARTER ENGAGE REQUEST COURTESY LAMP ACTIVATE REQUEST KEY IN IGNITION COURTESY LAMP SUPPLY BATTERY SUPPLY VOLTAGE SCP NETWORK ILLUMINATION BATTERY SUPPLY VOLTAGE	Active GROUND B+ GROUND GROUND (CRANKING) GROUND (MOMENTARY) GROUND (KEY IN) B+ B+ 2 - 1600 Hz 2 - 1600 Hz B+	Inactive B+ GROUND B+ B+ B+ B+ (KEY OUT) GROUND B+ B+
     0   0   5 5 0 	Pin FC15-15 FC15-24 FC15-32 FC15-31 FC15-57 FC15-67 FC15-67 FC15-80 FC15-84 FC15-84 FC15-85 FC15-101 FC15-104	Description IGNITION SWITCHED GROUND COURTESY LAMP SUPPLY IGNITION SWITCHED GROUND STARTER ENGAGE REQUEST COURTESY LAMP ACTIVATE REQUEST KEY IN IGNITION COURTESY LAMP SUPPLY BATTERY SUPPLY VOLTAGE SCP NETWORK ILLUMINATION BATTERY SUPPLY VOLTAGE BATTERY SUPPLY VOLTAGE	Active GROUND B+ GROUND GROUND (CRANKING) GROUND (MOMENTARY) GROUND (KEY IN) B+ B+ 2 - 1600 Hz 2 - 1600 Hz B+ B+ B+ B+ B+ B+	Inactive B+ GROUND B+ B+ B+ B+ (KEY OUT) GROUND B+ B+ B+

NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

# Fig. 10.1

## COMPONENTS

Component
BODY PROCESSOR MODULE
DOOR CONTROL MODULE - DRIVER
DOOR CONTROL MODULE - DRIVER REAR
DOOR CONTROL MODULE - PASSENGER
DOOR CONTROL MODULE - PASSENGER REAR

DOOR LOCK SWITCHES - DRIVER DOOR SWITCH - DRIVER DOOR SWITCH - DRIVER REAR DOOR SWITCH - PASSENGER DOOR SWITCH - PASSENGER REAR 'E' POST LAMP - LH 'E' POST LAMP - RH GARAGE DOOR OPENER GLOVE BOX LAMP IGNITION SWITCH (KEY-IN SWITCH) PUDDLE LAMP - DRIVER REAR DOOR PUDDLE LAMP - DRIVER DOOR PUDDLE LAMP - DRIVER PASSENGER PUDDLE LAMP ~ PASSENGER REAR DOOR TRUNK LAMP - LH

TRUNK LAMP - RH TRUNK SWITCH VANITY LAMP - LH VANITY LAMP - RH

←

Connector / Type / Color	Location / Access	
FC15 / 14-WAY AMP EEEC / GREY	BULKHEAD / BEHIND GLOVE BOX	
DD10 / 22-WAY FORD 2.8 TIMER / BLUE DD11 / 22-WAY FORD 2.8 TIMER / BLACK	DOOR CASING / TRIM PANEL	
RD10 / 22-WAY FORD 2.8 TIMER / BLUE RD11 / 22-WAY FORD 2.8 TIMER / BLACK	DOOR CASING / TRIM PANEL	
PD10 / 22-WAY FORD 2.8 TIMER / BLUE PD11 / 22-WAY FORD 2.8 TIMER / BLACK	DOOR CASING / TRIM PANEL	
RP10 / 22-WAY FORD 2.8 TIMER / BLUE RP11 / 22-WAY FORD 2.8 TIMER / BLACK	DOOR CASING / TRIM PANEL	
DD3 / 13-WAY ECONOSEAL III LC / BLACK	DOOR CASING / TRIM PANEL	
DD3 / 13-WAY ECONOSEAL III LC / BLACK	DOOR CASING / TRIM PANEL	
RD3 / 6-WAY ECONOSEAL III LC / BLACK	DOOR CASING / TRIM PANEL	
PD3 / 13-WAY ECONOSEAL III LC / BLACK	DOOR CASING / TRIM PANEL	
RP3 / 6-WAY ECONOSEAL III LC / BLACK	DOOR CASING / TRIM PANEL	
IC4 / 4-WAY MULTILOCK 040 / BLACK	LH 'E' POST / 'E' POST TRIM	
CA5 / 4-WAY MULTILOCK 040 / BLACK	RH 'E' POST / 'E' POST TRIM	
CA53 / 8-WAY MULTILOCK 040 / BLACK	ROOF CONSOLE	
FC33 / LUCAR – STRAIGHT – 2.8 FC34 / LUCAR – STRAIGHT – 2.8	GLOVE BOX	
FC4 / 8-WAY MULTILOCK 070 / WHITE	STEERING COLUMN	
RD14 / 2-WAY AMP JUNIOR TIMER / BLACK	DOOR CASING / TRIM PANEL	
DD14 / 2-WAY AMP JUNIOR TIMER / BLACK	DOOR CASING / TRIM PANEL	
PD14 / 2 WAY AMP JUNIOR TIMER / BLACK	DOOR CASING / TRIM PANEL	
RP14 / 2-WAY AMP JUNIOR TIMER / BLACK	DOOR CASING / TRIM PANEL	
BT46 / 2-WAY AMP JUNIOR POWER TIMER / BLACK	TRUNK LH SIDE / TRUNK CARPET	
BT47 / 2-WAY AMP JUNIOR POWER TIMER / BLACK	TRUNK RH SIDE / TRUNK CARPET	
BT41 / 2-WAY AUGAT 1.6 / BLACK	BEHIND TRUNK LID LINER	
CA69 / 2-WAY MULTILOCK 070 / WHITE	LH SUN VISOR	
CA70 / 2-WAY MULTILOCK 070 / WHITE	RH SUN VISOR	

Connector	Type / Color	Location /
BT4	54-WAY THROUGH PANEL / BLACK	BELOW PARCEL
CA8	20-WAY MULTILOCK 070 / WHITE	DRIVER 'A' POST
CA10	8-WAY MULTILOCK 070 / YELLOW	DRIVER 'A' POST
CA11	20-WAY MULTILOCK 070 / WHITE	PASSENGER 'A'
CA12	8-WAY MULTILOCK 070 / YELLOW	PASSENGER 'A'
CA14	6-WAY MULTILOCK 070 / WHITE	DRIVER 'B/C' POS
CA16	6-WAY MULTILOCK 070 / WHITE	PASSENGER 'B/O
FC1	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW PASSEN
FC5	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW DRIVER
IC1	14-WAY MULTILOCK 070 / WHITE	LH HEELBOARD
GROUNDS		
Ground	Location / Type	

Ground	Location / Type
CA30L	EYELET (PAIR) - LH 'A' POST GROUND SCREW
CA30R	EYELET (PAIR) - LH 'A' POST GROUND SCREW
CA31L	EYELET (PAIR) – RH DRIVE SHAFT TUNNEL GROUND STUD
CA33L	EYELET (PAIR) - RH 'A' POST GROUND SCREW
CA33R	EYELET (PAIR) - RH 'A' POST GROUND SCREW
CA36L	EYELET (PAIR) - LH 'A' POST GROUND SCREW
CA36R	EYELET (PAIR) - LH 'A' POST GROUND SCREW
FC17L	EYELET (PAIR) – EMS BULKHEAD GROUND STUD
FC29L	EYELET (PAIR) - LH BULKHEAD GROUND STUD / CABIN SIDE
IC20	EYELET (SINGLE) - TRUNK / LH FORWARD GROUND STUD

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)

The following symbols are used to represent values for Control Module Pin Out data:

- D Serial and encoded communications С
- I Input O Output
- SG Signal Ground
  - S
- CAN (Network) SCP Network
- V Voltage (DC) Hz Frequency

B+ Battery voltage

KHz Frequency x 1000 MS Milliseconds MV Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

#### Access

SHELF / TRUNK / REAR BULKHEAD / RH SIDE T / DOOR HARNESS GAITER T / DOOR HARNESS GAITER POST / DOOR HARNESS GAITER POST / DOOR HARNESS GAITER OST / DOOR HARNESS GAITER C' POST / DOOR HARNESS GAITER NGER SIDE AIR VENT / GLOVE BOX ASSEMBLY SIDE AIR VENT / COIN TRAY

# REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS,

#### DIMMER MODULE

$\nabla$	Pin	Description	Active	Inactive		
0	FC23-1	INSTRUMENT PACK ILLUMINATION BULB SUPPLY	B+ (LIGHTS ON)	GROUND		
0	FC23-2	INSTRUMENT PACK ILLUMINATION BULB SUPPLY	B+ (LIGHTS ON)	GROUND		
1	FC23-3	IGNITION SWITCHED GROUND SUPPLY	GROUND			
1	FC23-4	SIDE LAMPS ON REQUEST	GROUND			
1	FC23-5	DIMMER POTENTIOMETER FEEDBACK VOLTAGE	1.3 V = DIM; 4 V = BRIGHT			
0	FC23-6	DIMMER POTENTIOMETER REFERENCE GROUND	GROUND	GROUND		
0	FC23-7	GENERAL ILLUMINATION BULB SUPPLY	B+ (LIGHTS ON)	GROUND		
0	FC23-8	GENERAL ILLUMINATION BULB SUPPLY	B+ (LIGHTS ON)	GROUND		
1	FC23-9	GROUND SUPPLY	GROUND	GROUND		
I.	FC23-10	BATTERY POWER SUPPLY	B+	B+		
1	FC23-11	BATTERY POWER SUPPLY	B+	B+		
0	FC23-12	DIMMER POTENTIOMETER REFERENCE VOLTAGE	4 V	0 V		
INS	INSTRUMENT PACK					
57	D	D. i.i.				

$\sim$	Pin	Description	Active	Inactive
1	FC24-26	GROUND	GROUND	GROUND
1	FC24-27	ILLUMINATION SUPPLY	B+	GROUND
1	FC25-21	DIMMER OVERRIDE	GROUND	B+

Fia. 10.2

#### COMPONENTS

#### Component

AIR CONDITIONING CONTROL PANEL CENTER CONSOLE SWITCH PACK CIGAR LIGHTER - FRONT CIGAR LIGHTER - REAR

ANALOG CLOCK CRUISE CONTROL ON / OFF SWITCH DIMMER CONTROL DIMMER MODULE FASCIA SWITCH PACK FOG LAMP SWITCHES GEAR SELECTOR ILLUMINATION MODULE INSTRUMENT PACK

LIGHTING STALK (COLUMN SWITCHGEAR)

MODE SWITCH (TRANSMISSION) RADIO / CASSETTE HEAD UNIT

BOOF CONSOLE SPLICE HEADER - CA224 SWITCH PACK - DRIVER DOOR SWITCH PACK - DRIVER REAR DOOR SWITCH PACK - PASSENGER DOOR SWITCH PACK - PASSENGER REAR DOOR TRIP COMPUTER SWITCH PACK

#### Connector / Type / Color

CC27 / 12-WAY MULTILOCK 040 / BLUE CC1 / 16-WAY FORD IDC S.U. / BLACK CA74 / 3-WAY MULTILOCK 070 / WHITE CA75 / 2-WAY CIGAR LIGHTER / YELLOW CA76 / LUCAR - LOCKING POSILOCK MKI FC38 / 6-WAY AMP MICRO QUADLOCK / BLACK CC20 / 10-WAY AMP MICRO QUAD LOCK / NATURAL SC11 / 6-WAY MULTILOCK 070 / WHITE FC23 / 12-WAY MULTILOCK 040 / BLACK FC14 / 6-WAY JAE 1L-AG5 / GREEN FC3 / 10-WAY AMP MICRO QUAD LOCK / NATURAL CC14 / 10-WAY MULTILOCK 070 / WHITE FC24 / 48-WAY AMP MODULE PCB SIGNAL / BLACK FC25 / 24-WAY AMP MODULE PCB SIGNAL / BLACK SC2 / 10-WAY MULTILOCK 070 / YELLOW

CC4 / 10-WAY AMP MICRO QUAD LOCK / BLACK CA3 / COAXIAL CONNECTOR IC10 / 20-WAY MULTILOCK 070 / WHITE IC19 / CD AUTOCHANGER DATA CABLE CA53 / 8-WAY MULTILOCK 040 / BLACK CA224 / 20-WAY SUMITOMO SPLICE HEADER / GREEN DD1 / 26-WAY MOS-26 / YELLOW RD1 / 5-WAY LAG / GREEN PD1 / 26-WAY MQS-26 / YELLOW RP1 / 5-WAY LAG / GREEN FC27 / 10-WAY AMP MICRO QUAD LOCK / BLACK

#### HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Acc
CA8	20-WAY MULTILOCK 070 / WHITE	DRIVER 'A' POST / DOG
CA11	20-WAY MULTILOCK 070 / WHITE	PASSENGER 'A' POST
CA14	6-WAY MULTILOCK 070 / WHITE	DRIVER 'B/C' POST / D
CA16	6-WAY MULTILOCK 070 / WHITE	PASSENGER 'B/C' POS
CA19	20-WAY MULTILOCK 070 / YELLOW	LH 'A' POST CONNECT
CA27	10-WAY MULTILOCK 070 / WHITE	BELOW PASSENGER S
CA45	6-WAY MULTILOCK 070 / WHITE	PASSENGER 'B/C' POS
CA46	4-WAY MULTILOCK 070 / WHITE	DRIVER 'B/C' POST / D
FC1	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW PASSENGER S
FC5	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW DRIVER SIDE A
FC7	20-WAY MULTILOCK 070 / WHITE	ABOVE DIMMER MOD
SC3	12-WAY MULTILOCK 070 / GREY	ADJACENT TO STEERI
SM25-P	10-WAY MULTILOCK 070 / WHITE	BEHIND PASSENGER S

#### GROUNDS

Ground	Location / Type
CA30L	EYELET (PAIR) - LH 'A' POST GROUND SCREW
CA33L	EYELET (PAIR) - RH 'A' POST GROUND SCREW
CA36L	EYELET (PAIR) – LH 'A' POST GROUND SCREW
CA47L	EYELET (PAIR) – DRIVE SHAFT TUNNEL GROUND STUD – RH SIDE
CA47R	EYELET (PAIR) – DRIVE SHAFT TUNNEL GROUND STUD – RH SIDE
CC2R	EYELET (PAIR) – DRIVE SHAFT TUNNEL GROUND STUD – LH SIDE
CC3L	EYELET (PAIR) - RH FRONT BULKHEAD STUD / CABIN SIDE
CC3R	EYELET (PAIR) – RH FRONT BULKHEAD STUD / CABIN SIDE
FC17R	EYELET (PAIR) – EMS BULKHEAD GROUND STUD
FC17R	EYELET (PAIR) – EMS BULKHEAD GROUND STUD
FC29L	EYELET (PAIR) – LH BULKHEAD GROUND STUD / CABIN SIDE
FC29R	EYELET (PAIR) – LH BULKHEAD GROUND STUD / CABIN SIDE

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)

The following symbols are used to represent values for Control Module Pin Out data:

- Input D Serial and encoded communications
- O Output
- С SG Signal Ground S
- CAN (Network) SCP Network
- B+ Battery voltage V Voltage (DC)
  - Hz Frequency

KHz Frequency x 1000 MS Milliseconds MV Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

Location / Access

CENTER CONSOLE CENTER CONSOLE SWITCH PACK CENTER CONSOLE ASSEMBLY REAR CENTER CONSOLE VENT

CENTER AIR VENT CENTER CONSOLE ASSEMBLY COLUMN SWITCHGEAR BELOW INSTRUMENT PACK FASCIA SWITCH PACK FASCIA / OUTBOARD OF STEERING COLUMN CENTER CONSOLE ASSEMBLY FASCIA COLUMN SWITCHGEAR HARNESS / ADJACENT TO STEERING COLUMN MOTOR

CENTER CONSOLE ASSEMBLY CENTER CONSOLE

ROOF CONSOLE LH HEELBOARD / HEELBOARD COVER DOOR TRIM PANEL DOOR TRIM PANEL DOOR TRIM PANEL DOOR TRIM PANEL FASCIA

#### cess

OOR HARNESS GAITER / DOOR HARNESS GAITER OOR HARNESS GAITER ST / DOOR HARNESS GAITER FOR MOUNTING BRACKET / LOWER 'A' POST FINISHER SEAT ST / DOOR HARNESS GAITER DOOR HARNESS GAITER SIDE AIR VENT / GLOVE BOX ASSEMBLY AIR VENT / COIN TRAY DULE / COIN TRAY RING COLUMN MOTOR SEAT BACK FINISHER

# REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS,

#### POWER ASSISTED STEERING CONTROL MODULE

		· · · · ·
$\bigtriangledown$	Pin	Description
0	CA32-2	TRANSDUCER NEGATIVE
1	CA32-4	VEHICLE SPEED
0	CA32-5	TRANSDUCER POSITIVE
E.	CA32-6	IGNITION SWITCHED POWER SUPPLY
1	CA32-8	GROUND

Active
2 V @ IDLE DECREASING WITH VEHICLE SPEED
B+ @ 10 MPH (16 KM/H) = 20 Hz, 20 MPH (32 KM/H) = 40 Hz
9 V @ IDLE INCREASING WITH VEHICLE SPEED
B+
0 V

Fig. 11.1

Inactive

0 V

0 V

## COMPONENTS

Connector / Type / Color Component CA32 / 9-WAY RISTS / BLACK / RED POWER ASSISTED STEERING CONTROL MODULE VARIABLE STEERING CONVERTER

# HARNESS-TO-HARNESS CONNECTORS

#### Type / Color Connector 54-WAY THROUGH PANEL CONNECTOR / BLACK

2-WAY AUGAT 1.6 / BLACK 54-WAY THROUGH PANEL CONNECTOR / BLACK

Location / Access BELOW DRIVER SIDE AIR VENT / COIN TRAY BELOW CHASSIS RAIL / LH SIDE LH 'A' POST / LOWER 'A' POST FINISHER

#### GROUNDS Location / Type

Ground CA30L

EYELET (PAIR) - LH 'A' POST GROUND SCREW

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)



FC5

LL2

LS3

The following symbols are used to represent values for Control Module Pin Out data:

- Input 1
- 0 Output
- SG Signal Ground
- D
  - CAN (Network) С
  - SCP Network S

Serial and encoded communications

v Voltage (DC) Hz Frequency

B+ Battery voltage

- MS Milliseconds MV Millivolts

KHz Frequency x 1000

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

#### Location / Access

LOWER LH 'A' POST / LOWER 'A' POST FINISHER STEERING RACK / CONTROL VALVE

LL3 / 2-WAY AMP JUNIOR POWER TIMER / NATURAL

#### BODY PROCESSOR MODULE

$\bigtriangledown$	Pin	Description	Active	Inactive
1	FC15-11	AUTO TILT REQUEST	GROUND	B+
1	FC15-15	IGNITION SWITCHED GROUND	GROUND	В+
1	FC15-25	GROUND SUPPLY	GROUND	GROUND
1	FC15-32	IGNITION SWITCHED GROUND	GROUND	B+
0	FC15-40	COLUMN MOTOR POTENTIOMETER REFERENCE VOLTAGE	5V	
1	FC15-41	STARTER ENGAGE REQUEST	GROUND (CRANKING)	B≁
0	FC15-52	COLUMN REACH MOTOR SUPPLY	B+	GROUND
1	FC15-58	NOT IN PARK MICROSWITCH STATUS	GROUND (PARK)	B+ (NOT IN PARK)
1	FC15-66	COLUMN REACH MOTOR POTENTIOMETER FEEDBACK	$0.5 V = OUT, 4 V \approx IN$	
1	FC15-67	KEY IN IGNITION	GRÔUND (KEY IN)	B+ (KEY OUT)
0	FC15-78	COLUMN REACH MOTOR SUPPLY	B+	GROUND
1	FC15-80	BATTERY SUPPLY VOLTAGE	B+	B+
S	FC15-84	SCP NETWORK	2 - 1600 Hz	
S	FC15-85	SCP NETWORK	2 - 1600 Hz	
1	FC15-87	COLUMN MOVEMENT REQUEST	UP = 10.1V, DOWN = 12.1V, RETRACT = 8.5V, EXTEND = 6.8V	
0	FC15-90	COLUMN TILT MOTOR POTENTIOMETER REFERENCE GROUND	GRÓUND	GROUND
0	FC15-91	COLUMN REACH MOTOR POTENTIOMETER REFERENCE GROUND	GROUND	GROUND
I.	FC15-93	COLUMN TILT MOTOR POTENTIOMETER FEEDBACK	UP = 4V, $DOWN = 0.5V$	
0	FC15-99	COLUMN TILT MOTOR SUPPLY	B+	GROUND
0	FC15-100	COLUMN TILT MOTOR SUPPLY	B÷	GROUND
1	FC15-102	BATTERY SUPPLY VOLTAGE	8-	B+
DR	VER DOOF			
$\nabla$	Pin	Description	Antivo	Inactive
· ·		Description	Active	mactive
	DD10-1	BATTERY POWER SUPPLY	B+	B+
, ,	DD10-8	LOGIC GROUND	GROUND	GROUND
5	DD10-9	SCP NETWORK	2 – 1600 Hz	
5	DD10-16	SCP NETWORK	2 - 1600 Hz	
0	DD11-2	SEAT MEMORY STATUS LED	GROUND (LED ON)	B+
ł	DD11-20	DRIVER DOOR SWITCH	GROUND (DOOR OPEN)	B+
DR		DOOR CONTROL MODULE		
			<b>A</b>	
$\vee$	PIN	Description	Active	Inactive
1	RD10-1	BATTERY POWER SUPPLY	B+	B+
1	RD10-8	LOGIC GROUND	GROUND	GROUND
S	RD10-9	SCP NETWORK	2 - 1600 Hz	
S	RD10-16	SCP NETWORK	2 – 1600 Hz	
1	RD10-19	MODULE IDENTIFICATION	GROUND	GROUND
I	RD11-5	MEMORY 1	B+	GROUND
I.	RD11-7	MODULE IDENTIFICATION	GROUND	GROUND
I.	RD11-13	MEMORY SET	B+	GROUND
1	RD11-15	MEMORY 3	B+	GROUND
I.	RD11-22	MEMORY 2	В+	GROUND

NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

Fig. 11.2

		Commentary / Tyme / Color	
Component		Connector / Type / Color	
AUTO TILT SWITCH (COLUMN SWITCHGEAR)		SC9 / 8-WAY GROTE AND HARTMAN MDK /	
BODY PROCESSOR	MODULE	FC15 / 14-WAY AMP EEEC / GREY SC9 / 8-WAY GROTE AND HARTMAN MDK /	
COLUMN JOYSTICK	(COLUMN SWITCHGEAR)		
DOOR CONTROL MO	ODULE - DRIVER	DD10 / 22-WAY FORD 2.8 TIMER / BLUE DD11 / 22-WAY FORD 2.8 TIMER / BLACK	
DOOR CONTROL MO	ODULE – DRIVER REAR	RD10 / 22-WAY FORD 2.8 TIMER / BLUE RD11 / 22-WAY FORD 2.8 TIMER / BLACK	
DOOR SWITCH - DR	IVER	DD3 / 13-WAY ECONOSEAL III LC / BLACK	
IGNITION SWITCH (	KEY-IN ŚWITCH)	FC4 / 8-WAY MULTILOCK 070 / WHITE	
MEMORY SWITCHE (DRIVER DOOR	S SWITCH PACK)	DD1 / 26-WAY MQS-26 / YELLOW	
NOT-IN-PARK MICR	OSWITCH	CC13 / 3-WAY MULTILOCK 070 / YELLOW	
STEERING COLUMN	MOTORS	FC49 / 6-WAY MULTILOCK 070 / WHITE FC50 / 8-WAY MULTILOCK 070 / YELLOW	
HANNESS-I	U-MANNESS CONNECTORS		
Connector	Type / Color	Location / Access	
Connector	Type / Color 20-WAY MULTILOCK 070 / WHITE	Location / Access	
Connector CA8 CA10	Type / Color 20-way multilock 070 / white 8-way multilock 070 / yellow	Location / Access DRIVER 'A' POST / DOOR HA DRIVER 'A' POST / DOOR HA	
Connector CA8 CA10 CA13	Type / Color 20-way multilock 070 / white 8-way multilock 070 / yellow 6-way multilock 070 / white	Location / Access DRIVER 'A' POST / DOOR HA DRIVER 'A' POST / DOOR HA DRIVER 'B/C' POST / DOOR H	
Connector CA8 CA10 CA13 CA14	Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / YELLOW 6-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE	Location / Access DRIVER 'A' POST / DOOR HA DRIVER 'A' POST / DOOR HA DRIVER 'B/C' POST / DOOR H DRIVER 'B/C' POST / DOOR H	
<b>Connector</b> CA8 CA10 CA13 CA14 FC7	Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / YELLOW 6-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE 20-WAY MULTILOCK 070 / WHITE	Location / Access DRIVER 'A' POST / DOOR HA DRIVER 'A' POST / DOOR HA DRIVER 'B/C' POST / DOOR H DRIVER 'B/C' POST / DOOR H ABOVE DIMMER MODULE / (	
Connector CA8 CA10 CA13 CA14 FC7 GROUNDS	Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / YELLOW 6-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE 20-WAY MULTILOCK 070 / WHITE	Location / Access DRIVER 'A' POST / DOOR HA DRIVER 'A' POST / DOOR HA DRIVER 'B'C' POST / DOOR H DRIVER 'B'C' POST / DOOR H ABOVE DIMMER MODULE / C	
Connector CA8 CA10 CA13 CA14 FC7 GROUNDS Ground	Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / YELLOW 6-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE 20-WAY MULTILOCK 070 / WHITE	Location / Access DRIVER 'A' POST / DOOR HAI DRIVER 'A' POST / DOOR HAI DRIVER 'B/C' POST / DOOR H DRIVER 'B/C' POST / DOOR H ABOVE DIMMER MODULE / C	
Connector CA8 CA10 CA13 CA14 FC7 GROUNDS Ground CA33L	Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / YELLOW 6-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE 20-WAY MULTILOCK 070 / WHITE <b>Location / Type</b> EYELET (PAIR) - RH 'A' POST GROUND	Location / Access DRIVER 'A' POST / DOOR HA DRIVER 'A' POST / DOOR HA DRIVER 'B'C' POST / DOOR H DRIVER 'B'C' POST / DOOR H ABOVE DIMMER MODULE / C	
Connector CA8 CA10 CA13 CA14 FC7 GROUNDS Ground CA33L CA36L	Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / YELLOW 6-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE 20-WAY MULTILOCK 070 / WHITE EVELET (PAIR) - RH 'A' POST GROUND EYELET (PAIR) - RH 'A' POST GROUND EYELET (PAIR) - LH 'A' POST GROUND	Location / Access DRIVER 'A' POST / DOOR HA DRIVER 'A' POST / DOOR HA DRIVER 'B'C' POST / DOOR HA DRIVER 'B'C' POST / DOOR H ABOVE DIMMER MODULE / C	
Connector CA8 CA13 CA13 CA14 FC7 GROUNDS Ground CA33L CA34L CC3L	Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / YELLOW 6-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE 20-WAY MULTILOCK 070 / WHITE 20-WAY MULTILOCK 070 / WHITE EYELET (PAIR) - RH 'A' POST GROUND EYELET (PAIR) - LH 'A' POST GROUND EYELET (PAIR) - LH 'A' POST GROUND EYELET (PAIR) - LH 'A' POST GROUND	Location / Access DRIVER 'A' POST / DOOR HA DRIVER 'A' POST / DOOR HA DRIVER 'B'C' POST / DOOR HA DRIVER 'B'C' POST / DOOR H ABOVE DIMMER MODULE / C DSCREW DSCREW DSCREW DSTUD / CABIN SIDE	
Connector CA8 CA13 CA13 CA14 FC7 GROUNDS Ground CA33L CA36L CC3L FC17L	Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / YELLOW 6-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE 20-WAY MULTILOCK 070 / WHITE 20-WAY MULTILOCK 070 / WHITE EYELET (PAIR) - RH 'A' POST GROUND EYELET (PAIR) - RH 'A' POST GROUND EYELET (PAIR) - RH FRONT BULKHEAD EYELET (PAIR) - RH FRONT BULKHEAD EYELET (PAIR) - RM SBULKHEAD GRO	Location / Access DRIVER 'A' POST / DOOR HA DRIVER 'A' POST / DOOR HA DRIVER 'A' POST / DOOR HA DRIVER 'B/C' POST / DOOR H DRIVER 'B/C' POST / DOOR H ABOVE DIMMER MODULE / C D SCREW D SCREW D SCREW D SCREW D SCREW D SCREW D SCREW D SCREW D SCREW	
Connector CA8 CA10 CA13 CA14 FC7 GROUNDS GROUNDS Ground CA33L CA36L CC3L FC17L FC17R	Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / YELLOW 6-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE 20-WAY MULTILOCK 070 / WHITE EVELET (PAIR) - RH 'A' POST GROUND EYELET (PAIR) - RH SBULKHEAD GRO EYELET (PAIR) - EMS BULKHEAD GRO	Location / Access DRIVER 'A' POST / DOOR HA DRIVER 'A' POST / DOOR HA DRIVER 'A' POST / DOOR HA DRIVER 'B/C' POST / DOOR H ABOVE DIMMER MODULE / O SCREW D SCREW D SCREW D SCREW D STUD / CABIN SIDE UND STUD UND STUD	

The following symbols are used to represent values for Control Module Pin Out data:

- 1 Input
- O Output
- С SG Signal Ground

D

- CAN (Network)
- SCP Network S

Serial and encoded communications

- Voltage (DC) V Hz Frequency

B+ Battery voltage

- KHz Frequency x 1000 MS Milliseconds MV Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

OK / BLACK

K / BLACK

#### Location / Access

COLUMN SWITCHGEAR BULKHEAD / BEHIND GLOVE BOX COLUMN SWITCHGEAR DOOR CASING / TRIM PANEL

DOOR CASING / TRIM PANEL

DOOR CASING / TRIM PANEL STEERING COLUMN DOOR TRIM PANEL

CENTER CONSOLE ASSEMBLY STEERING COLUMN

HARNESS GAITER HARNESS GAITER R HARNESS GAITER R HARNESS GAITER E / COIN TRAY

#### BODY PROCESSOR MODULE

$\bigtriangledown$	Pin	Description	Active	Inactive
1	FC15-15	IGNITION SWITCHED GROUND	GROUND	B+
1	FC15-32	IGNITION SWITCHED GROUND	GROUND	В+
1	FC15-41	STARTER ENGAGE REQUEST	GROUND (CRANKING)	В+
1	FC15-58	NOT IN PARK MICROSWITCH STATUS	GROUND (PARK)	B+ (NOT IN PARK)
1	FC15-80	BATTERY SUPPLY VOLTAGE	B+	B+
S	FC15-84	SCP NETWORK	2 - 1600 Hz	
S	FC15-85	SCP NETWORK	2 – 1600 Hz	
0	FC15-101	ILLUMINATION BATTERY SUPPLY VOLTAGE	B÷	B+

#### DRIVER DOOR CONTROL MODULE

$\bigtriangledown$	Pin	Description	Active
1	DD10-1	BATTERY POWER SUPPLY	B∻
0	DD10-2	DRIVER DOOR MIRROR VERTICAL / HORIZONTAL MOTOR COMMON SUPPLY	B+ = LEFT / DOWN; GROUND = RIGHT / UP
0	DD10-3	DRIVER DOOR MIRROR HORIZONTAL MOVEMENT MOTOR	B+ = RIGHT
0	DD10-4	DRIVER DOOR MIRROR VERTICAL MOVEMENT MOTOR	B+ = UP
1	DD10-8	LOGIC GROUND	GROUND
s	DD10-9	SCP NETWORK	2 – 1600 Hz
S	DD10-16	SCP NETWORK	2 - 1600 Hz
1	DD10-17	POWER GROUND	GROUND
0	DD10-20	DRIVER DOOR MIRROR POTENTIOMETER COMMON REFERENCE VOLTAGE	B+
1	DD10-21	DRIVER DOOR MIRROR POTENTIOMETER HORIZONTAL POSITION FEEDBACK	1 V = LEFT; 8 V = RIGHT
T	DD10-22	DRIVER DOOR MIRROR POTENTIOMETER VERTICAL POSITION FEEDBACK	1 V = DOWN; 8 V = UP
I.	DD11-1	MIRROR COMMON GROUND	GROUND
0	DD11-2	SEAT MEMORY STATUS LED	GROUND (LED ON)
I.	DD11-3	LH VERTICAL MOVEMENT REQUEST	B+ = DOWN
1	DD11-5	PASSENGER MIRROR SELECT	B+
1	DD11-9	RH VERTICAL MOVEMENT REQUEST	B+ = DOWN
1	DD11-10	LH HORIZONTAL MOVEMENT REQUEST	B+ = LEFT
1	DD11-13	DRIVER MIRROR SELECT	B÷
ł	DD11-17	RH HORIZONTAL MOVEMENT REQUEST	B+ = LEFT
ι	DD11-20	DRIVER DOOR SWITCH	GROUND (DOOR OPEN)
DRI	VER REAL	R DOOR CONTROL MODULE	
$\bigtriangledown$	Pin	Description	Active
L	RD10-1	BATTERY POWER SUPPLY	B+
1	RD10-8	LOGIC GROUND	GROUND
S	RD10-9	SCP NETWORK	2 - 1600 Hz
S	RD10-16	SCP NETWORK	2 - 1600 Hz
1	RD10-19	MODULE IDENTIFICATION	GROUND
t	RD11-5	MEMORY 1	B+
1	RD11-7	MODULE IDENTIFICATION	GROUND
1	RD11-13	MEMORY SET	B+
1	RD11-15	MEMORY 3	B+
I.	RD11-22	MEMORY 2	B+

#### INSTRUMENT PACK

$\bigtriangledown$	Pin	Description	Active
s	FC24-19	SCP NETWORK	2 – 1600 Hz
s	FC24-20	SCP NETWORK	2 – 1600 Hz
С	FC24-24	CAN NETWORK	15 – 1500 Hz
С	FC24-47	CAN NETWORK	15 – <b>1</b> 500 Hz

#### PASSENGER DOOR CONTROL MODULE

$\sim$	Pin	Description	Active	Inactive
1	PD10-1	BATTERY POWER SUPPLY	B+	B+
0	PD10-2	PASSENGER DOOR MIRROR VERTICAL / HORIZONTAL MOVEMENT MOTORS COMMON	B+ = LEFT / DOWN	GROUND ≈ RIGHT / UP
0	PD10-3	PASSENGER DOOR MIRROR HORIZONTAL MOVEMENT MOTOR	B+ = RIGHT	GROUND
0	PD10-4	PASSENGER DOOR MIRROR VERTICAL MOVEMENT MOTOR	$B_{+} = UP$	GROUND
1	PD10-8	LOGIC GROUND	GROUND	GROUND
s	PD10-9	SCP NETWORK	2 - 1600 Hz	
s	PD10-16	SCP NETWORK	2 - 1600 Hz	
1	PD10-17	POWER GROUND	GROUND	GROUND
0	PD10-20	PASSENGER DOOR MIRROR POTENTIOMETER COMMON REFERENCE VOLTAGE	B+	B+
I	PD10-21	PASSENGER DOOR MIRROR POTENTIOMETER HORIZONTAL POSITION FEEDBACK VOLTAGE	1 V = LEFT; 8 V = RIGHT	
I	PD10-22	PASSENGER DOOR MIRROR POTENTIOMETER VERTICAL POSITION FEEDBACK VOLTAGE	1 V = DOWN; 8 V = UP	

#### NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

The following symbols are used to represent values for Control Module Pin Out data:

1	Input	D	Serial and encoded communications	B+	Battery voltage	KHz	Frequency x 1000
0	Output	С	CAN (Network)	۷	Voltage (DC)	MS	Milliseconds
SG	Signal Ground	S	SCP Network	Hz	Frequency	ΜV	Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

# Fig. 11.3

#### COMPONENTS

#### Component

Inactive

GROUND = LEFT

GROUND B+

GROUND

GROUND

GROUND

Inactive

GROUND

GROUND

GROUND GROUND GROUND GROUND

Inactive

B+

B+ GROUND

GROUND = UP

GROUND = UP

GROUND = RIGHT

GROUND = RIGHT

GROUND = DOWN GROUND

B+

BODY PROCESSOR MODULE DOOR CONTROL MODULE - DRIVER REAR

DOOR MIRROR MOTORS - DRIVER DOOR MIRROR MOTORS - PASSENGER DOOR SWITCH - DRIVER

MEMORY SWITCHES (DRIVER DOOR SWITCH PACK) MIRROR JOYSTICK (DRIVER DOOR SWITCH PACK)

NOT-IN-PARK MICROSWITCH

DOOR CONTROL MODULE - DRIVER

DOOR CONTROL MODULE - PASSENGER

INSTRUMENT PACK

MIRROR SELECT SWITCH (DRIVER DOOR SWITCH PACK)

## Connector / Type / Color

FC15 / 14-WAY AMP EEEC / GREY RD10 / 22-WAY FORD 2.8 TIMER / BLUE RD11 / 22-WAY FORD 2.8 TIMER / BLACK DD10 / 22-WAY FORD 2.8 TIMER / BLUE DD11 / 22-WAY FORD 2.8 TIMER / BLACK PD10 / 22-WAY FORD 2.8 TIMER / BLUE PD11 / 22-WAY FORD 2.8 TIMER / BLACK DD8 / 12-WAY MULTILOCK 040 / BLACK PD8 / 12-WAY MULTILOCK 040 / BLACK DD3 / 13-WAY ECONOSEAL III LC / BLACI FC24 / 48-WAY AMP MODULE PCB SIGNA FC25 / 24-WAY AMP MODULE PCB SIGN DD1 / 26-WAY MQS-26 / YELLOW DD1 / 26-WAY MQS-26 / YELLOW

DD1 / 26-WAY MQS-26 / YELLOW

CC13 / 3-WAY MULTILOCK 070 / YELLOV

#### HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / A
CA8	20-WAY MULTILOCK 070 / WHITE	DRIVER 'A' POST /
CA10	8-WAY MULTILOCK 070 / YELLOW	DRIVER 'A' POST /
CA11	20-WAY MULTILOCK 070 / WHITE	PASSENGER 'A' P
CA12	8-WAY MULTILOCK 070 / YELLOW	PASSENGER 'A' P
CA13	6-WAY MULTILOCK 070 / WHITE	DRIVER 'B/C' POST
CA14	6-WAY MULTILOCK 070 / WHITE	DRIVER 'B/C' POST
FC1	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW PASSENG
FC5	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW DRIVER SI
FC7	20-WAY MULTILOCK 070 / WHITE	ABOVE DIMMER N
GROUNDS		
Ground	Location / Type	
CA30R	EYELET (PAIR) – LH 'A' POST GROUND SCREW	
CA33L	EYELET (PAIR) - RH 'A' POST GROUND SCREW	
CA33R	EYELET (PAIR) - RH 'A' POST GROUND SCREW	

EYELET (PAIR) - LH 'A' POST GROUND SCREW CA36L CC3L EYELET (PAIR) - RH FRONT BULKHEAD STUD / CABIN SIDE

#### CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)

	Location / Access BULKHEAD / BEHIND GLOVE BOX DOOR CASING / TRIM PANEL
	DOOR CASING / TRIM PANEL
	DOOR CASING / TRIM PANEL
K AL / BLACK AL / CHACK	DRIVER DOOR PASSENGER DOOR DOOR CASING / TRIM PANEL FASCIA
	DOOR TRIM PANEL
	DOOR TRIM PANEL
	DOOR TRIM PANEL
v	CENTER CONSOLE ASSEMBLY

#### Access

/ DOOR HARNESS GAITER / DOOR HARNESS GAITER POST / DOOR HARNESS GAITER OST / DOOR HARNESS GAITER / DOOR HARNESS GAITER / DOOR HARNESS GAITER SER SIDE AIR VENT / GLOVE BOX ASSEMBLY SIDE AIR VENT / COIN TRAY MODULE / COIN TRAY

#### BODY PROCESSOR MODULE

$\bigtriangledown$	Pin	Description	Active	Inactive	COMPONEN	ITS
I.	FC15-15	IGNITION SWITCHED GROUND	GROUND	В+	Component	
ſ	FC15-32	IGNITION SWITCHED GROUND	GROUND	- B+	RODY BROCESSOR	
1	FC15-41	STARTER ENGAGE REQUEST	GROUND (CRANKING)	B+	BOOT PROCESSON	
1	FC15-80	BATTERY SUPPLY VOLTAGE	B+	B+	DOOR CONTROL M	IODOLE -
s	FC16-84	SCP NETWORK	2 - 1600 Hz		DOOR CONTROL M	10DULE -
S	FC15-85	SCP NETWORK	2 – 1600 Hz			
0	FC15-101	ILLUMINATION BATTERY SUPPLY VOLTAGE	8+	B+	DOOR CONTROL M	10DULE -
סח		D CONTROL MODULE			DOOR MIRROR MO	TORS - D
UK	IVER DUC	JR CONTROL MODULE			DOOR MIRROR MO	TORS - P
$\bigtriangledown$	Pin	Description	Active	Inactive	MIRROR JOYSTICK (DRIVER DOOF	( R SWITCH
1	DD10-1	BATTERY POWER SUPPLY	β+	B+	MIRROR SELECT SV	WITCH
0	DD10-2	DRIVER DOOR MIRROR VERTICAL / HORIZONTAL MOTOR COMMON SUPPLY	B+ = LEFT / DOWN; GROUND = RIGHT / UP		(DRIVER DOOF	R SWITCH
0	DD10-3	DRIVER DOOR MIRROR HORIZONTAL MOVEMENT MOTOR	B+ = RIGHT	GROUND = LEFT		
0	DD10-4	DRIVER DOOR MIRROR VERTICAL MOVEMENT MOTOR	B+ = UP	GROUND = DOWN	HARNESS-T	O-HAI
1	DD10-8	LOGIC GROUND	GROUND	GROUND	<b>0 1 1</b>	-
S	DD10-9	SCP NETWORK	2 – 1600 Hz		Connector	тy
s	DD10-16	SCP NETWORK	2 – 1600 Hz		CA8	20-1
1	DD10-17	POWER GROUND	GROUND	GROUND	CA10	8-W
					CA11	20-\
1	DD11-1	MIRROR COMMON GROUND	GROUND	GROUND	CA12	8-W
I.	DD11-3	LH VERTICAL MOVEMENT REQUEST	B+ = DOWN	GROUND = UP	CA13	6-W
I	DD11-5	PASSENGER MIRROR SELECT	В+	GROUND	CA14	6-W
1	DD11-9	RH VERTICAL MOVEMENT REQUEST	B+ = DOWN	GROUND = UP	FC1	54-\
1	DD11-10	LH HORIZONTAL MOVEMENT REQUEST	B+ = LEFT	GROUND = RIGHT	FC5	54-\
I.	DD11-13	DRIVER MIRROR SELECT	В+	GROUND		
1	DD11-17	RH HORIZONTAL MOVEMENT REQUEST	B+ = LEFT	GROUND = RIGHT		
					GROUNDS	
PA	SSENGER	DOOR CONTROL MODULE			Ground	Lo
$\sim$	Pin	Description	Active	Inactive	CA30R	EYE
1	PD10-1	BATTERY POWER SUPPLY	в+	B+	CA33L	EYE
0	PD10-2	PASSENGER DOOR MIRROR VERTICAL / HORIZONTAL MOVEMENT MOTORS COMMON	B+ = LEFT / DOWN	GROUND = RIGHT / UP	CA33R CA36L	EYE
0	PD10-3	PASSENGER DOOR MIRROR HORIZONTAL MOVEMENT MOTOR	B+ = RIGHT	GROUND		
0	PD10-4	PASSENGER DOOR MIRROR VERTICAL MOVEMENT MOTOR	B+ = UP	GROUND		
I.	PD10-8	LOGIC GROUND	GROUND	GROUND	CONTROL N	NODU
s	PD10-9	SCP NETWORK	2 - 1600 Hz	-		
S	PD10-16	SCP NETWORK	2 – 1600 Hz		T	
1	PD10-17	POWER GROUND	GRÓUND	GROUND		

NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

The following symbols are used to represent values for Control Module Pin Out data:

- Input D Serial and encoded communications С
- O Output
- SG Signal Ground
- S SCP Network
- CAN (Network)
- Voltage (DC) V Hz Frequency

B+ Battery voltage

KHz Frequency x 1000 MS Milliseconds MV Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

#### DATE OF ISSUE: SEPTEMBER 1997

# Fig. 11.4

e	COMPONEN	TS	
-	Component	С	onnector / Type / Color
	BODY PROCESSOR	MODULE FC	15 / 14-WAY AMP EEEC / GREY
	DOOR CONTROL MO	DDULE DRIVER REAR REAR REAR	010 / 22-WAY FORD 2.8 TIMER / BLUE 011 / 22-WAY FORD 2.8 TIMER / BLACK
	DOOR CONTROL MO	DDULE – DRIVER DI	010 / 22-WAY FORD 2.8 TIMER / BLUE 011 / 22-WAY FORD 2.8 TIMER / BLACK
	DOOR CONTROL MO	DDULE – PASSENGER PI	010 / 22-WAY FORD 2.8 TIMER / BLUE 011 / 22-WAY FORD 2.8 TIMER / BLACK
	DOOR MIRROR MOT	TORS - DRIVER DI	08 / 12-WAY MULTILOCK 040 / BLACK
	DOOR MIRROR MOT	FORS - PASSENGER PE	08 / 12-WAY MULTILOCK 040 / BLACK
e	MIRROR JOYSTICK (DRIVER DOOR	DI SWITCH PACK)	01 / 26-WAY MQS-26 / YELLOW
	MIRROR SELECT SV (DRIVER DOOR	VITCH DI SWITCH PACK)	D1 / 26-WAY MQS-26 / YELLOW
= LEFT			
= DOWN	HARNESS-TO	D-HARNESS CONNECTORS	
	Connector	Type / Color	Location / Acces
	CA8	20-WAY MULTILOCK 070 / WHITE	DRIVER 'A' POST / DOOR
	CA10	8-WAY MULTILOCK 070 / YELLOW	DRIVER 'A' POST / DOOR
	CA11	20-WAY MULTILOCK 070 / WHITE	PASSENGER 'A' POST / D
	CA12	8-WAY MULTILOCK 070 / YELLOW	PASSENGER 'A' POST / D
= UP	CA13	6-WAY MULTILOCK 070 / WHITE	DRIVER 'B/C' POST / DOO
	CA14	6-WAY MULTILOCK 070 / WHITE	DRIVER 'B/C' POST / DOO
= UP	FC1	54-WAY THROUGH PANEL CONNECTOR / BLA	CK BELOW PASSENGER SID
RIGHT	FC5	54-WAY THROUGH PANEL CONNECTOR / BLA	CK BELOW DRIVER SIDE AIR
≖ RIGHT	GROUNDS		<u> </u>
	Ground	Location / Type	
•	CA30R	EYELET (PAIR) - LH 'A' POST GROUND SCREV	v
C	CA33L	EYELET (PAIR) - RH 'A' POST GROUND SCREV	N
	CA33R	EYELET (PAIR) - RH 'A' POST GROUND SCRE	N
= RIGHT / UP	CA36L	EYELET (PAIR) – LH 'A' POST GROUND SCREV	N

LE PIN OUT INFORMATION (FOLD OUT PAGE)

Location / Access BULKHEAD / BEHIND GLOVE BOX DOOR CASING / TRIM PANEL DOOR CASING / TRIM PANEL DOOR CASING / TRIM PANEL DRIVER DOOR

PASSENGER DOOR DOOR TRIM PANEL DOOR TRIM PANEL

ss

R HARNESS GAITER HARNESS GAITER DOOR HARNESS GAITER DOOR HARNESS GAITER OR HARNESS GAITER OR HARNESS GAITER DE AIR VENT / GLOVE BOX ASSEMBLY VENT / COIN TRAY

#### BODY PROCESSOR MODULE

$\bigtriangledown$	Pin	Description	Active	Inactive
1	FC15-15	IGNITION SWITCHED GROUND	GROUND	B+
1	FC15-16	SIDE LAMP REQUEST	GROUND	В+
t	FC15-32	IGNITION SWITCHED GROUND	GROUND	В+
1	FC15-42	HEADLAMP DIP REQUEST	GROUND (MOMENTARY)	B+
0	FC15-72	MIRROR FOLDBACK RELAY ACTIVATE	GROUND	B+
0	FC15-77	MIRROR FOLD OUT RELAY ACTIVATE	GROUND	в+
1	FC15-80	BATTERY SUPPLY VOLTAGE	В+	B+
S	FC15-84	SCP NETWORK	2 - 1600 Hz	
s	FC15-85	SCP NETWORK	2 - 1600 Hz	
0	FC15-101	ILLUMINATION BATTERY SUPPLY VOLTAGE	B+	B+
DRI	VER DOC	DR CONTROL MODULE		
$\bigtriangledown$	Pin	Description	Active	Inactive
1	DD10-1	BATTERY POWER SUPPLY	B+	В+

B≁ GROUND

2 - 1600 Hz

2 - 1600 Hz

v		Description
1	DD10-1	BATTERY POWER SUPPLY
1	DD10-8	LOGIC GROUND
s	DD10-9	SCP NETWORK
s	DD10-16	SCP NETWORK

I	DD10-17	POWER GROUND	GROUND
ı.	DD11-1	MIRROR COMMON GROUND	GROUND
1	DD11-3	FOLD-BACK REQUEST	B+ = DOWN
1	DD11-5	PASSENGER MIRROR SELECT	B+
1	DD11-9	FOLD-OUT REQUEST	B+ = DOWN
1	DD11-10	LH HORIZONTAL MOVEMENT REQUEST	B+ = LEFT
1	DD11-13	DRIVER MIRROR SELECT	B+
T	DD11-17	RH HORIZONTAL MOVEMENT REQUEST	$B \textbf{+} \doteq L E F T$

#### **INSTRUMENT PACK**

$\vee$	Pin	Description	Active
s	FC24-19	SCP NETWORK	2 - 1600 Hz
s	FC24 20	SCP NETWORK	2 - 1600 Hz
С	FC24-24	CAN NETWORK	15 – 1500 Hz
С	FC24-47	CAN NETWORK	15 – 1500 Hz

NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

# Fig. 11.5

	Connector /	Type / Color	Location / Access
ILE - DRIVER	FC15 / 14-WAY AMP	EEEC / GREY	BULKHEAD / BEHIND GLOVE BOX
	DD10 / 22-WAY FOR DD11 / 22-WAY FOR	D 2.8 TIMÉŘ / BLUĚ D 2.8 TIMER / BLACK	DOOR CASING / TRIM PANEL
R	DD8 / 12-WAY MUL	TILOCK 040 / BLACK	DRIVER DOOR
ENGER	PD8 / 12-WAY MULT	FILOCK 040 / BLACK	PASSENGER DOOR
	FC24 / 48-WAY AMF FC25 / 24-WAY AMF	MODULE PCB SIGNAL / BLACK MODULE PCB SIGNAL / BLACK	FASCIA
MIRROR	CA55 / 6-WAY MUL	TILOCK 070 / YELLOW	WINDSHIELD / IN FRONT OF ROOF CONSOLE
UMN SWITCHGEAR)	SC2 / 10-WAY MUL	TILOCK 070 / YELLOW	COLUMN SWITCHGEAR HARNESS / ADJACENT TO STEERING COLUMN MOTOR
VITCH PACK)	DD1 / 26-WAY MQS	-26 / YELLOW	DOOR TRIM PANEL
CH VITCH PACK)	DD1 / 26-WAY MQS	-26 / YELLOW	DOOR TRIM PANEL
24	CA224 / 20-WAY SU	MITOMO SPLICE HEADER / GREEN	LH HEELBOARD / HEELBOARD COVER
	VIOLET	CA60 / VIOLET	LH HEELBOARD RELAYS / HEELBOARD COVER
HARNESS CONNECTORS			
Type / Color	Loc	ation / Access	
54-WAY THROUGH PANEL / BLACK	BELC	W PARCEL SHELF / TRUNK / REAR BUI	KHEAD / RH SIDE
JAMAN HINGOGHT ANEL/ DEAGR			
20-WAY MULTILOCK 070 / WHITE	DRIV	ER 'A' POST / DOOR HARNESS GAITER	
20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / YELLOW	DRIV	ER 'A' POST / DOOR HARNESS GAITER ER 'A' POST / DOOR HARNESS GAITER	
20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / YELLOW 20-WAY MULTILOCK 070 / WHITE	DRIV PASS	ER 'A' POST / DOOR HARNESS GAITER ER 'A' POST / DOOR HARNESS GAITER SENGER 'A' POST / DOOR HARNESS GA	NTER
20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / VELLOW 20-WAY MULTILOCK 070 / WHITE 54-WAY THROUGH PANEL CONNECTO	DRIV DRIV PASS DR / BLACK BELC	ER 'A' POST / DOOR HARNESS GAITEH ER 'A' POST / DOOR HARNESS GAITER SENGER 'A' POST / DOOR HARNESS GA W PASSENGER SIDE AIR VENT / GLOV	NTER Æ BOX ASSEMBLY
	MIRROR UMN SWITCHGEAR) vitch Pack) 24 HARNESS CONNECTORS	FC25 / 24 WAY AMP VIRROR CA55 / 6-WAY MUL' SC2 / 10-WAY MUL' DD1 / 26-WAY MQS VITCH PACK) 24 DD1 / 26-WAY MQS VITCH PACK) 24 CA224 / 20-WAY SU CASE Color VIOLET VIOLET VIOLET	FC25 / 24-WAY AMP MODULE PCB SIGNAL / BLACK         MIRROR       CA55 / 6-WAY MULTILOCK 070 / YELLOW         UMN SWITCHGEAR)       SC2 / 10-WAY MULTILOCK 070 / YELLOW         DD1 / 26-WAY MULTILOCK 070 / YELLOW       DD1 / 26-WAY MQS-26 / YELLOW         VITCH PACK)       DD1 / 26-WAY MQS-26 / YELLOW         CH       DD1 / 26-WAY MQS-26 / YELLOW         VITCH PACK)       DD1 / 26-WAY MQS-26 / YELLOW         24       CA224 / 20-WAY SUMITOMO SPLICE HEADER / GREEN         VIOLET         VIOLET       CA60 / VIOLET         VIOLET         VIOLET         HARNESS CONNECTORS

CA30R	EYELET (PAIR) - LH 'A' POST GROUND SCREW
CA33L	EYELET (PAIR) - RH 'A' POST GROUND SCREW
CA33R	EYELET (PAIR) – RH 'A' POST GROUND SCREW
CA36L	EYELET (PAIR) – LH 'A' POST GROUND SCREW
CA38R	EYELET (PAIR) – LH HEELBOARD POST GROUND SCREW
FC17R	EYELET (PAIR) – EMS BULKHEAD GROUND STUD

←

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)

The following symbols are used to represent values for Control Module Pin Out data:

- l Input
- 0 Output
- SG Signal Ground
- S SCP Network
- B+ Battery voltage V Voltage (DC) Hz Frequency
- KHz Frequency x 1000 MS Milliseconds MV Millivolts

GROUND

GROUND GROUND GROUND = UP GROUND GROUND = UP GROUND = RIGHT GROUND GROUND = RIGHT

Inactive

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

D Serial and encoded communications C CAN (Network)

#### ADAPTIVE DAMPING CONTROL MODULE

$\bigtriangledown$	Pin	Description	Active	Inactive
0	EM68-1	INSTRUMENT PACK ADAPTIVE DAMPENING MIL	GROUND	8+
0	EM68-3	ACCELEROMETER COMMON GROUND SUPPLY	GROUND	GROUND
D	EM68-10	SERIAL COMMUNICATIONS		
1	EM68-11	IGNITION SWITCHED POWER SUPPLY	B+	GROUND
0	EM68-13	LH REAR DAMPER BATTERY POWER SUPPLY	B+	B+
0	EM68-14	RH FRONT DAMPER BATTERY POWER SUPPLY	B+	B+
0	EM68-15	RH REAR DAMPER BATTERY POWER SUPPLY	B+	в+
1	EM68-18	GROUND	GROUND	GROUND
1	EM68-20	FRONT LATERAL ACCELEROMETER FEEDBACK	< 0.2 V OR > 4.8 V	2.3 - 2.7 V = HABD
1	EM68-21	FRONT VERTICAL ACCELEROMETER FEEDBACK	< 0.2 V OR > 4.8 V	2.3 – 2.7 V = HARD
I.	EM68-22	REAR VERTICAL ACCELEROMETER FEEDBACK	< 0.2 V OR > 4.8 V	2.3 - 2.7 V = HARD
1	EM68-24	VEHICLE SPEED SIGNAL	22 Hz @ 10 MPH (16 KM / H); 44 Hz @ 20 MPH (32 KM / H) @ B+	
0	EM68-25	ACCELEROMETER COMMON VOLTAGE SUPPLY	5V	5 V
1	EM68-26	BRAKE SWITCH	GROUND	B+
1	EM68-27	BATTERY POWER SUPPLY	B+	B+
D	EM68-28	SERIAL COMMUNICATIONS		
0	EM68-30	LH FRONT DAMPER BATTERY POWER SUPPLY	B+	B+
0	EM68-31	LH FRONT DAMPER	GROUND	B+
0	EM68-32	LH REAR DAMPER	GROUND	B+
0	EM68-33	RH FRONT DAMPER	GROUND	B+
0	EM68-34	RH REAR DAMPER	GROUND	B+

# Fig. 11.6

#### COMPONENTS

#### Component

ACCELEROMETER - FRONT LATERAL ACCELEROMETER - FRONT VERTICAL ACCELEROMETER - REAR VERTICAL ADAPTIVE DAMPING CONTROL MODULE BRAKE SWITCH

DAMPER SOLENOID - LH FRONT DAMPER SOLENOID - LH REAR DAMPER SOLENOID - RH FRONT DAMPER SOLENOID - RH REAR

# Connector / Type / Color

EM28 / 3-WAY AMP MICRO QUAD LOCK / BLACK EM4 / 3-WAY AMP MICRO QUAD LOCK / BLACK BT7 / 3-WAY AMP MICRO QUAD LOCK / BLACK EM68 / 35-WAY AMP JUNIOR POWER TIMER / BLACK

CC40 / 4-WAY MULTILOCK 070 / WHITE ÉM64 / 2-WAY DELPHI / REINSHAGEN / BLACK LA1 / 2-WAY DELPHI / REINSHAGEN / BLACK EM65 / 2-WAY DELPHI / REINSHAGEN / BLACK RA1 / 2-WAY DELPHI / REINSHAGEN / BLACK

#### HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Acces
BT4	54-WAY THROUGH PANEL / BLACK	BELOW PARCEL SHELF / T
CA9	6-WAY MULTILOCK 070 / WHITE	BELOW REAR SEAT CUSH
CA19	20-WAY MULTILOCK 070 / YELLOW	LH 'A' POST CONNECTOR
CA29	4-WAY MULTILOCK 070 / WHITE	BELOW REAR SEAT CUSH
EM1	12-WAY AUGAT 1.6 / BLACK	ENGINE COMPARTMENT /
EM2	20-WAY MULTILOCK 070 / GREY	PASSENGER 'A' POST / LC
FC1	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW PASSENGER SIDE
FC5	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW DRIVER SIDE AIR \
LS3	54-WAY THROUGH PANEL CONNECTOR / BLACK	LH 'A' POST / LOWER 'A' F

#### GROUNDS

G	round	
EM	17	

Location / Type EYELET (SINGLE) - EMS BULKHEAD GROUND STUD

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)



The following symbols are used to represent values for Control Module Pin Out data:

- E Input D Serial and encoded communications
- O Output
- SG Signal Ground

- S
- С SCP Network
- CAN (Network)
- ۷ Voltage (DC) Hz Frequency

B+ Battery voltage

- KHz Frequency x 1000 MS Milliseconds MV Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

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#### Location / Access

ENGINE COMPARTMENT / CONTROL MODULE ENCLOSURE ENGINE COMPARTMENT / CONTROL MODULE ENCLOSURE BELOW FUEL TANK / TRUNK CARPET ADJACENT TO PASSENGER SIDE BLOWER / GLOVE BOX ASSEMBLY ADJACENT TO THE BRAKE PEDAL MOUNTING ASSEMBLY ENGINE COMPARTMENT / LEFT HAND SIDE REAR AXLE / LH REAR DAMPER SOLENOID ENGINE COMPARTMENT / RIGHT HAND SIDE REAR AXLE / RH REAR DAMPER SOLENOID

#### ss

TRUNK / REAR BULKHEAD / RH SIDE HON MOUNTING BRACKET / LOWER 'A' POST FINISHER RION ADJACENT TO ABS PUMP OWER 'A' POST FINISHER E AIR VENT / GLOVE BOX ASSEMBLY VENT / COIN TRAY POST FINISHER

#### BODY PROCESSOR MODULE

$\bigtriangledown$	Pin	Description	Active	Inactive
1	FC15-15	IGNITION SWITCHED GROUND	GROUND	B+
0	FC15-17	SEAT HEATER STATUS (LHD = PASSENGER, RHD ∞ DRIVER)	GROUND	B+
÷	FC15-32 FC15-35	IGNITION SWITCHED GROUND SEAT HEATER REQUEST / UD - DASSENCED DUD - DRIVEDI		B+ B₄
i	FC15-41	STARTER ENGAGE REQUEST	GROUND (CRANKING)	B+
0	FC15-69	SEAT HEATER STATUS (LHD = DRIVER, RHD = PASSENGER)	GROUND	B+
1	FC15-80	BATTERY SUPPLY VOLTAGE	B+	B+
S	FC15-85	SCP NETWORK	2 – 1600 HZ 2 – 1600 Hz	
I.	FC15-86	SEAT HEATER REQUEST (LHD = DRIVER, RHD = PASSENGER)	GROUND (MOMENTARY)	B+
0.00		CONTROL MODILIT		
שאט	VER DOOR			
$\vee$	Pin	Description	Active	Inactive
1	DD10-1	BATTERY POWER SUPPLY	B+	B+
۱ د	DD10-8	LOGIC GROUND	GROUND	GROUND
S	DD10-16	SCP NETWORK	2 – 1600 Hz	
~	0044.0			
0	DD11-2	SEAT MEMORY STATUS LED	GROUND (LED ON)	В+
DRI	VER REAR	DOOR CONTROL MODULE		
$\nabla$	Pin	Description	Activo	Inactive
· ·		Description	Active	mactive
÷	RD10-1 RD10-8	BATTERY POWER SUPPLY	B+ GROUND	BH GROUND
s	RD10-9	SCP NETWORK	2 – 1600 Hz	0.100.10
S	RD10-16	SCP NETWORK	2 – 1600 Hz	
I	RD10-19	MODULE IDENTIFICATION	GROUND	GROUND
1	RD11-5	MEMORY 1	B+	GROUND
1	RD11-7	MODULE IDENTIFICATION	GROUND	GROUND
1	RD11-13	MEMORY SET	B+	GROUND
-	RD11-15 RD11-22		B+	GROUND
			0+	
DRI	VER SEAT	CONTROL MODULE		
$\nabla$	Pin	Description	Activo	Inactive
Ŷ			Active	
0	SM1-1D SM1-2D	DRIVER SEAT SQUAB FORE / AFT RECLINE MOTOR SUPPLY	B+	GROUND
ŏ	SM1-3D	DRIVER SEAT CUSHION RAISE / LOWER FRONT MOTOR SUPPLY	B+	GROUND
0	SM1-4D	DRIVER SEAT CUSHION RAISE / LOWER FRONT MOTOR SUPPLY	B+	GROUND
0	SM1-5D	DRIVER HEADREST RAISE / LOWER MOTOR SUPPLY	B+	GROUND
ŏ	SM1-7D	DRIVER BEADREST RAISE / LOWER MOTOR SUPPLY	8+ B+	GROUND
0	SM1-8D	DRIVER SEAT CUSHION FORE / AFT MOTOR SUPPLY	8+	GROUND
	SM1-9D	DRIVER SEAT CUSHION FORE MOVEMENT REQUEST	B+	GROUND
1	SM1-11D	DRIVER SEAT CUSHION AFT MOVEMENT REQUEST	B+	GROUND
1	SM1-12D	DRIVER SEAT CUSHION RAISE REAR MOVEMENT REQUEST	B+	GROUND
1	SM1-13D	DRIVER SEAT CUSHION RAISE FRONT MOVEMENT REQUEST	B+	GROUND
1	SM1-14D SM1-15D	DRIVER SEAT CUSHION LOWER FRONT MOVEMENT REQUEST	B+	GROUND
i	SM1-16D	DRIVER SEAT SQUAB FORE RECLINE MOVEMENT REQUEST	B+	GROUND
о	SM2-1D	DRIVER SEAT CUSHION REAR / SOUAB RECLINE MOTOR POT, BEE, GROUND	GROUND	GROUND
ō	SM2-2D	DRIVER SEAT CUSHION FORE / AFT MOTOR POT. REFERENCE GROUND	GROUND	GROUND
0	SM2-5D	DRIVER SEAT CUSHION REAR / SQUAB RECLINE MOTOR POT, REF. VOLTAGE	5V	
U	SM2-6D SM2-8D	DRIVER SEAT CUSHION FRONT MOTOR POT, REFERENCE VOLTAGE		
i	SM2-9D	DRIVER SEAT CUSHION FRONT MOTOR POTENTIONETER FEEDBACK	10 V = UP, 1 V = DOWN	
1	SM2-10D	DRIVER SEAT CUSHION REAR MOTOR POTENTIOMETER FEEDBACK	10 V = UP, 1 V = DOWN	
	SM2-11D SM2 12D	DRIVER SEAT SQUAB RECLINE MOTOR POTENTIOMETER FEEDBACK	9 V = FORE, 2 V - AFT	
ò	SM2-14D	DRIVER SEAT COSHION FORE / AFT MOTOR POTENTIOMETER REEDBACK	2 V = FURE, 10 V = AFT GROUND	GROUND
0	SM2-15D	DRIVER SEAT CUSHION FRONT MOTOR POTENTIOMETER REFERENCE GROUND	GROUND	GROUND
0	SM2-18D	DRIVER SEAT CUSHION FORE / AFT MOTOR POT. REFERENCE VOLTAGE	5V	
U	51012-190	DRIVER SEAT READREST MOTOR POTENTIOMETER REFERENCE VOLTAGE	57	
1	SM3-1D	MODULE IDENTIFICATION	GROUND (DRIVER)	CROUND
ò	SM3-2D SM3-3D	DRIVER SEAT BAISE / LOWER MOTOR SLIPPLY	GROUND B+	GROUND
0	SM3-4D	DRIVER SEAT RAISE / LOWER MOTOR SUPPLY	B+	GROUND
1	SM3-5D	BATTERY POWER SUPPLY	B+	B+
1	SM3-6D SM3-8D	DRIVER SEAT HEADREST RAISE MOVEMENT REQUEST	B+	GROUND
s	SM3-9D	SCP NETWORK	2 – 1600 Hz	
S	SM3-10D	SCP NETWORK	2 ~ 1600 Hz	
INST	RUMENT	РАСК		
$\nabla$	Pin	Description	Active	Inactive
S	FC24-19	SCP NETWORK	 2 - 1600 Hz	-
s	FC24-20	SCP NETWORK	2 - 1600 Hz	
c	FC24-24	CAN NETWORK	15 - 1500 Hz	
C	FG24-47	UAN NETWORK	15 – 1500 Hz	

#### NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

The following symbols are used to represent values for Control Module Pin Out data:

I	Input	D	Serial and encoded communications	B+	Battery voltage	KHz	Frequency x 1000
O	Output	C	CAN (Network)	∨	Voltage (DC)	MS	Milliseconds
SG	Signal Ground	S	SCP Network	Hz	Frequency	MV	Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

Fig. 12.1

Component BODY PROCESSOR MC DOOR CONTROL MOD		Connector / ]		
BODY PROCESSOR MC		oonneotor ,	type / Color	Location / Access
DOOR CONTROL MOD	DULE	FC15 / 14-WAY AMP	EEEC / GREY	BULKHEAD / BEHIND GLOVE BOX
	JLE – DRIVER	DD10 / 22-WAY FORI DD11 / 22-WAY FORI	D 2.8 TIMER / BLUE D 2.8 TIMER / BLACK	DOOR CASING / TRIM PANEL
DOOR CONTROL MUD	JLÉ – DRIVER REAR	RD10 / 22-WAY FORD RD11 / 22-WAY FORD	D 2.8 TIMER / BLUE D 2.8 TIMER / BLACK	DOOR CASING / TRIM PANEL
INSTRUMENT PACK		FC24 / 48-WAY AMP FC25 / 24-WAY AMP	MODULE PCB SIGNAL / BLACK MODULE PCB SIGNAL / BLACK	FASCIA
MEMORY SWITCHES (DRIVER DOOR SV	VITCH PACK)	DD1 / 26-WAY MQS-	26 / YELLOW	DOOR TRIM PANEL
SEAT CONTROL MODI	JLE – DRIVER	SM1-D / 16-WAY FOI SM2-D / 26-WAY FOI SM2-D / 10 WAY FOI	RD 2.8 TIMER / BLACK RD IDC / BLACK RD 2.8 TIMER / BLACK	DRIVER SEAT / UNDER
SEAT CUSHION HEAT	BS - DRIVER	SM7-D / 3-WAY MUL	TILOCK 070 / YELLOW	DRIVER SEAT
SEAT HEATER SWITCH	E SWITCH PACK)	CC1 / 16-WAY FORD	IDC S.U. / BLACK	
SEAT LUMBAR PUMP	- DRIVER	SM10-D / 3-WAY MU	JLTILOCK 070 / YELLOW	DRIVER SEAT
SEAT MOTORS – DRIV	ER	SM4-D / 6-WAY MUL SM6-D / 6-WAY MUL SM11-D / 6-WAY MU SM12-D / 6-WAY MU SM12-D / 6-WAY MU	LTILOCK 070 / GREY LTILOCK 070 / YELLOW JLTILOCK 070 / WHITE JLTILOCK 070 / WHITE JLTILOCK 070 / YELLOW	DRIVER SEAT / UNDER
SEAT SQUAB HEATER	S – DRIVER	SM9-D / 3-WAY MUL	LTILOCK 070 / GREY	DRIVER SEAT
SWITCH PACK - DRIVE	R SEAT	SM5-D / 16-WAY MU	JLTILOCK 040 / BLACK	DRIVER SEAT
RELAVS	· · · · · · · · · · · · · · · · · · ·			
Relay		Case Color	Connector / Color	Location / Access
Relay SEAT HEATER RELAY HARNESS-TO- Connector	HARNESS CONNECTOR	Case Color BROWN RS Loc	Connector / Color SM14-D / BROWN	Location / Access FRONT SEAT RELAYS / UNDER SEAT
Relay SEAT HEATER RELAY HARNESS-TO Connector CAB	- DRIVER HARNESS CONNECTOR Type / Color 20-WAY MULTILOCK 070 / WHITE	Case Color BROWN RS Loc DRIVI	Connector / Color SM14-D / BROWN ation / Access ER 'A' POST / DOOR HARNESS GAITER	Location / Access FRONT SEAT RELAYS / UNDER SEAT
Relay SEAT HEATER RELAY HARNESS-TO- Connector CA8 CA10	- DRIVER HARNESS CONNECTOR Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / YELLOW	Case Color BROWN RS Loc DRIVI DRIVI	Connector / Color SM14-D / BROWN cation / Access ER 'A' POST / DOOR HARNESS GAITER ER 'A' POST / DOOR HARNESS GAITER	Location / Access FRONT SEAT RELAYS / UNDER SEAT
Relay SEAT HEATER RELAY HARNESS-TO- Connector CA8 CA10 CA13	- DRIVER HARNESS CONNECTOR Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE	Case Color BROWN RS Loc DRIVI DRIVI DRIVI	Connector / Color SM14-D / BROWN Station / Access ER 'A' POST / DOOR HARNESS GAITER ER 'A' POST / DOOR HARNESS GAITER ER 'B/C' POST / DOOR HARNESS GAITER	Location / Access FRONT SEAT RELAYS / UNDER SEAT
Relay SEAT HEATER RELAY HARNESS-TO- Connector CAB CA10 CA13 CA14	- DRIVER HARNESS CONNECTOR Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE	Case Color BROWN RS Loc DRIVI DRIVI DRIVI DRIVI DRIVI	Connector / Color SM14-D / BROWN Cation / Access ER 'A' POST / DOOR HARNESS GAITER ER 'A' POST / DOOR HARNESS GAITER ER 'B/C' POST / DOOR HARNESS GAITE ER 'B/C' POST / DOOR HARNESS GAITE ER 'B/C' POST / DOOR HARNESS GAITE	Location / Access FRONT SEAT RELAYS / UNDER SEAT
Relay SEAT HEATER RELAY HARNESS-TO- Connector CA8 CA10 CA13 CA14 CA23 FC4	- DRIVER HARNESS CONNECTOR Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE 10-WAY MULTILOCK 070 / WHITE 10-WAY MULTILOCK 070 / WHITE 10-WAY MULTILOCK 070 / WHITE	Case Color BROWN RS Loc DRIVI DRIVI DRIVI DRIVI BELO	Connector / Color SM14-D / BROWN Cation / Access ER 'A' POST / DOOR HARNESS GAITER ER 'A' POST / DOOR HARNESS GAITER ER 'B/C' POST / DOOR HARNESS GAITE ER 'B/C' POST / DOOR HARNESS GAITE W DRIVER SEAT	E BOX ASSEMBLY
Relay SEAT HEATER RELAY HARNESS-TO- Connector CA8 CA10 CA13 CA14 CA23 FC1 EC5	- DRIVER HARNESS CONNECTOF Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE 10-WAY MULTILOCK 070 / WHITE 10-WAY MULTILOCK 070 / WHITE 54-WAY THROUGH PANEL CONNE 54-WAY THROUGH PANEL CONNE	Case Color BROWN RS Loc DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIV DRIV	Connector / Color SM14-D / BROWN Eation / Access ER 'A' POST / DOOR HARNESS GAITER ER 'B/C' POST / DOOR HARNESS GAITE ER 'B/C' POST / DOOR HARNESS GAITE ER 'B/C' POST / DOOR HARNESS GAITE ER 'B/C' POST / DOOR HARNESS GAITE WY DASSENGER SIDE AIR VENT / GLOV WY DRIVER SIDE AIR VENT / COIN TRAY	E BOX ASSEMBLY
Relay SEAT HEATER RELAY HARNESS-TO- Connector CA8 CA10 CA13 CA14 CA23 FC1 FC5 FC7	- DRIVER HARNESS CONNECTOR Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE 10-WAY MULTILOCK 070 / WHITE 54-WAY THROUGH PANEL CONNE 54-WAY THROUGH PANEL CONNE 54-WAY THROUGH PANEL CONNE 54-WAY MULTILOCK 070 / WHITE	Case Color BROWN AS Loc DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI CTOR / BLACK BELO CTOR / BLACK BELO ABOV	Connector / Color SM14-D / BROWN Station / Access ER 'A' POST / DOOR HARNESS GAITER ER 'A' POST / DOOR HARNESS GAITER ER 'B/C' POST / DOOR HARNESS GAITER ER 'B/C' POST / DOOR HARNESS GAITE ER 'B/C' POST / DOOR HARNESS GAITE WY DRIVER SEAT WY PASSENGER SIDE AIR VENT / GOIN TRAY VE DIMMER MODULE / COIN TRAY	Location / Access FRONT SEAT RELAYS / UNDER SEAT
Relay SEAT HEATER RELAY HARNESS-TO- Connector CAB CA10 CA13 CA14 CA23 FC1 FC5 FC7 GROUNDS	- DRIVER HARNESS CONNECTOR Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE 10-WAY MULTILOCK 070 / WHITE 54-WAY THROUGH PANEL CONNE 20-WAY MULTILOCK 070 / WHITE	Case Color BROWN RS Loc DRIVI DRIVI DRIVI DRIVI DRIVI BELO CTOR / BLACK BELO CTOR / BLACK BELO ABOV	Connector / Color SM14-D / BROWN Station / Access ER 'A' POST / DOOR HARNESS GAITER ER 'B'/C' POST / DOOR HARNESS GAITER ER 'B/C' POST / DOOR HARNESS GAITE ER 'B/C' POST / DOOR HARNESS GAITE ER 'B/C' POST / DOOR HARNESS GAITE WY DASSENGER SIDE AIR VENT / GLOV WY DRIVER SIDE AIR VENT / COIN TRAY VE DIMMER MODULE / COIN TRAY	Location / Access FRONT SEAT RELAYS / UNDER SEAT
Relay SEAT HEATER RELAY HARNESS-TO- Connector CAB CA10 CA13 CA14 CA22 FC1 FC5 FC7 GROUNDS Ground	- DRIVER HARNESS CONNECTOF Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE 10-WAY MULTILOCK 070 / WHITE 54-WAY THROUGH PANEL CONNE 54-WAY THROUGH PANEL CONNE 20-WAY MULTILOCK 070 / WHITE Location / Type	Case Color BROWN RS Loc DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI	Connector / Color SM14-D / BROWN Eation / Access ER 'A' POST / DOOR HARNESS GAITER ER 'A' POST / DOOR HARNESS GAITE ER 'B/C' POST / DOOR HARNESS GAITE ER 'B/C' POST / DOOR HARNESS GAITE W DRIVER SEAT W PASSENGER SIDE AIR VENT / GLOV W DRIVER SIDE AIR VENT / COIN TRAY VE DIMMER MODULE / COIN TRAY	Location / Access FRONT SEAT RELAYS / UNDER SEAT
Relay SEAT HEATER RELAY HARNESS-TO- Connector CA8 CA10 CA13 CA14 CA23 FC1 FC5 FC7 GROUNDS Ground CA25L	- DRIVER HARNESS CONNECTOF Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE 10-WAY MULTILOCK 070 / WHITE 54-WAY THROUGH PANEL CONNE 54-WAY THROUGH PANEL CONNE 20-WAY MULTILOCK 070 / WHITE Location / Type EYELET (PAIR) – PASSENGER SEAT	Case Color BROWN RS Loc DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIV DRIV	Connector / Color SM14-D / BROWN Eation / Access ER 'A' POST / DOOR HARNESS GAITER ER 'A' POST / DOOR HARNESS GAITER ER 'B/C' POST / DOOR HARNESS GAITER ER 'B/C' POST / DOOR HARNESS GAITER W PASSENGER SIDE AIR VENT / GLOV W DRIVER SEAT W PASSENGER SIDE AIR VENT / COIN TRAY VE DIMMER MODULE / COIN TRAY	Location / Access FRONT SEAT RELAYS / UNDER SEAT
Relay SEAT HEATER RELAY HARNESS-TO- Connector CA8 CA10 CA13 CA14 CA23 FC1 FC5 FC7 GROUNDS Ground CA25L CA25R	- DRIVER HARNESS CONNECTOF Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE 10-WAY MULTILOCK 070 / WHITE 54-WAY THROUGH PANEL CONNE 54-WAY THROUGH PANEL CONNE 20-WAY MULTILOCK 070 / WHITE Location / Type EYELET (PAIR) – PASSENGER SEAT EYELET (PAIR) – PASSENGER SEAT	Case Color BROWN RS Loc DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIV DRIV	Connector / Color SM14-D / BROWN Eation / Access ER 'A' POST / DOOR HARNESS GAITER ER 'A' POST / DOOR HARNESS GAITER ER 'B/C' POST / DOOR HARNESS GAITER ER 'B/C' POST / DOOR HARNESS GAITE W PASSENGER SIDE AIR VENT / GLOV W DRIVER SEAT W PASSENGER SIDE AIR VENT / COIN TRAY VE DIMMER MODULE / COIN TRAY	Location / Access FRONT SEAT RELAYS / UNDER SEAT
Relay SEAT HEATER RELAY HARNESS-TO- Connector CA8 CA10 CA13 CA14 CA23 FC1 FC5 FC7 GROUNDS Ground CA25L CA25L CA25L CA25R CA25L CA25L	- DRIVER HARNESS CONNECTOR Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE 10-WAY MULTILOCK 070 / WHITE 54-WAY THROUGH PANEL CONNE 54-WAY THROUGH PANEL CONNE 20-WAY MULTILOCK 070 / WHITE Location / Type EYELET (PAIR) – PASSENGER SEAT EYELET (PAIR) – PASSENGER SEAT EYELET (PAIR) – DRIVER SEAT GRO	Case Color BROWN RS Loc DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIV DRIV	Connector / Color SM14-D / BROWN Cation / Access ER 'A' POST / DOOR HARNESS GAITER ER 'A' POST / DOOR HARNESS GAITER ER 'B/C' POST / DOOR HARNESS GAITER ER 'B/C' POST / DOOR HARNESS GAITE W PASSENGER SIDE AIR VENT / GLOV WD DRIVER SLOE AIR VENT / COIN TRAY VE DIMMER MODULE / COIN TRAY	Location / Access FRONT SEAT RELAYS / UNDER SEAT
Relay SEAT HEATER RELAY HARNESS-TO- Connector CA8 CA10 CA13 CA14 CA13 CA14 CA23 FC1 FC5 FC7 GROUNDS Ground CA25L CA25R CA26L CA26R	- DRIVER HARNESS CONNECTOR Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE 10-WAY MULTILOCK 070 / WHITE 54-WAY THROUGH PANEL CONNE 54-WAY THROUGH PANEL CONNE 54-WAY THROUGH PANEL CONNE 20-WAY MULTILOCK 070 / WHITE EVELET (PAIR) – PASSENGER SEAT EYELET (PAIR) – PASSENGER SEAT EYELET (PAIR) – DRIVER SEAT GRC EYELET (PAIR) – DRIVER SEAT GRC	Case Color BROWN RS Loc DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI	Connector / Color SM14-D / BROWN Eation / Access ER 'A' POST / DOOR HARNESS GAITER ER 'B'/C' POST / DOOR HARNESS GAITER ER 'B/C' POST / DOOR HARNESS GAITE ER 'B/C' POST / DOOR HARNESS GAITE ER 'B/C' POST / DOOR HARNESS GAITE WY DASSENGER SIDE AIR VENT / GLOV WY DRIVER SIDE AIR VENT / COIN TRAY VE DIMMER MODULE / COIN TRAY	Location / Access FRONT SEAT RELAYS / UNDER SEAT
Relay SEAT HEATER RELAY HARNESS-TO- Connector CA8 CA10 CA13 CA14 CA23 FC1 FC5 FC7 GROUNDS Ground CA25L CA25R CA25R CA25R CA25R CA26R CA33L	- DRIVER HARNESS CONNECTOF Type / Color 20-WAY MULTILOCK 070 / WHITE 8-WAY MULTILOCK 070 / WHITE 6-WAY MULTILOCK 070 / WHITE 10-WAY MULTILOCK 070 / WHITE 10-WAY MULTILOCK 070 / WHITE 54-WAY THROUGH PANEL CONNE 24-WAY THROUGH PANEL CONNE 24-WAY THROUGH PANEL CONNE 20-WAY MULTILOCK 070 / WHITE EYELET (PAIR) - PASSENGER SEAT EYELET (PAIR) - DASSENGER SEAT EYELET (PAIR) - DRIVER SEAT GRO EYELET (PAIR) - DRIVER SEAT GRO EYELET (PAIR) - DRIVER SEAT GRO EYELET (PAIR) - DRIVER SEAT GRO	Case Color BROWN RS Loc DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI DRIVI	Connector / Color SM14-D / BROWN Eation / Access ER 'A' POST / DOOR HARNESS GAITER ER 'A' POST / DOOR HARNESS GAITE ER 'B/C' POST / DOOR HARNESS GAITE ER 'B/C' POST / DOOR HARNESS GAITE ER 'B/C' POST / DOOR HARNESS GAITE WY PASSENGER SIDE AIR VENT / GLOV WY DRIVER SIDE AIR VENT / COIN TRAY VE DIMMER MODULE / COIN TRAY	E BOX ASSEMBLY

#### BODY PROCESSOR MODULE

BU				
$\bigtriangledown$	Pin	Description	Active	Inactive
I.	FC15-15	IGNITION SWITCHED GROUND	GROUND	B+
0	FC15-17	SEAT HEATER STATUS (LHD = PASSENGER, RHD = DRIVER)	GROUND	В+
1	FC15-32	IGNITION SWITCHED GROUND	GBOUND	8+
1	FC15-35	SEAT HEATER REQUEST (LHD = PASSENGER, RHD = DRIVER)	GROUND (MOMENTARY)	B+
1	FC15-41	STARTER ENGAGE REQUEST	GROUND (CRANKING)	B+
0	FC15-69	SEAT HEATER STATUS (LHD = DRIVER, RHD = PASSENGER)	GROUND	B+
l.	FC15-80	BATTERY SUPPLY VOLTAGE	В+	B+
s	FC15-84	SCP NETWORK	2 - 1600 Hz	
S	FC15-85	SCP NETWORK	2 – 1600 Hz	
I	FC15-86	SEAT HEATER REQUEST (LHD = DRIVER, RHD = PASSENGER)	GROUND (MOMENTARY)	B+
DRI	IVER SEA	T CONTROL MODULE		
$\bigtriangledown$	Pin	Description	Active	Inactive
0	SM1-1D	DRIVER SEAT SQUAB FORE / AFT RECLINE MOTOR SUPPLY	B+	GROUND
0	SM1-2D	DRIVER SEAT SQUAB FORE / AFT RECLINE MOTOR SUPPLY	B+	GROUND
0	SM1-3D	DRIVER SEAT CUSHION RAISE / LOWER FRONT MOTOR SUPPLY	B÷	GROUND
0	SM1-4D	DRIVER SEAT CUSHION RAISE / LOWER FRONT MOTOR SUPPLY	B÷	GROUND
0	SM1-5D	DRIVER HEADREST RAISE / LOWER MOTOR SUPPLY	<b>B</b> +	GROUND
0	SM1-6D	DRIVER HEADREST RAISE / LOWER MOTOR SUPPLY	В+	GROUND
0	SM1-7D	DRIVER SEAT CUSHION FORE / AFT MOTOR SUPPLY	B+	GROUND
0	SM1-8D	DRIVER SEAT CUSHION FORE / AFT MOTOR SUPPLY	B+	GROUND
1	SM1-9D	DRIVER SEAT CUSHION FORE MOVEMENT REQUEST	B+	GROUND
1	SM1-10D	DRIVER SEAT CUSHION AFT MOVEMENT REQUEST	B+	GROUND
۱.	SM1-11D	DRIVER SEAT CUSHION LOWER REAR MOVEMENT REQUEST	B+	GROUND
1	SM1-12D	DRIVER SEAT CUSHION RAISE REAR MOVEMENT REQUEST	B+	GROUND
1	SM1-13D	DRIVER SEAT CUSHION RAISE FRONT MOVEMENT REQUEST	B+	GROUND
1	SM1-14D	DRIVER SEAT CUSHION LOWER FRONT MOVEMENT REQUEST	B÷	GROUND
1	SM1-15D	DRIVER SEAT SQUAB AFT RECLINE MOVEMENT REQUEST	B≻	GROUND
I	SM1-16D	DRIVER SEAT SQUAB FORE RECLINE MOVEMENT REQUEST	B+	GROUND
T	SM3-1D	MODULE IDENTIFICATION	GROUND (DRIVER)	
1	SM3-2D	POWER GROUND	GROUND	GROUND
0	SM3-3D	DRIVER SEAT RAISE / LOWER MOTOR SUPPLY	B+	GROUND
0	SM3-4D	DRIVER SEAT RAISE / LOWER MOTOR SUPPLY	B+	GROUND
1	SM3-5D	BATTERY POWER SUPPLY	B+	B+
ſ	SM3-6D	DRIVER SEAT HEADREST RAISE MOVEMENT REQUEST	B÷	GROUND
1	SM3-8D	DRIVER SEAT HÉADREST LOWER MOVEMENT REQUEST	B+	GROUND
S	SM3-9D	SCP NETWORK	2 – 1600 Hz	
S	SM3-10D	SCP NETWORK	2 – 1600 Hz	

NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

Fig. 12.2

COMPONEN <sup>®</sup>	rs			
Component		Connecto	or / Type / Color	Location / Access
BODY PROCESSOR I	MODULE	FC15 / 14-WAY	AMP EEEC / GREY	BULKHEAD / BEHIND GLOVE BOX
DOOR CONTROL MO	DOULE - DRIVER	DD10 / 22-WAY DD11 / 22-WAY	/ FORD 2.8 TIMER / BLUE / FORD 2.8 TIMER / BLACK	DOOR CASING / TRIM PANEL
DOOR CONTROL MO	DDULE - DRIVER REAR	RD10 / 22-WAY RD11 / 22-WAY	/ FORD 2.8 TIMER / BLUE / FORD 2.8 TIMER / BLACK	DOOR CASING / TRIM PANEL
SEAT CONTROL MO	DULE – DRIVER	SM1-D / 16-WA SM2-D / 26-WA SM3-D / 10-WA	AY FORD 2.8 TIMER / BLACK AY FORD IDC / BLACK AY FORD 2.8 TIMER / BLACK	DRIVER SEAT / UNDER
SEAT CUSHION HEA	TERS - DRIVER	SM7-D / 3-WA	Y MULTILOCK 070 / YELLOW	DRIVER SEAT
SEAT HEATER SWIT (CENTER CONS	CH OLE SWITCH PACK)	CC1 / 16-WAY	FORD IDC S.U. / BLACK	CENTER CONSOLE SWITCH PACK
SEAT LUMBAR PUM	IP - DRIVER	SM10-D / 3-WA	AY MULTILOCK 070 / YELLOW	DRIVER SEAT
SEAT MOTORS – DR	IVER	SM4-D / 6-WA` SM6-D / 6-WA` SM11-D / 6-WJ SM12-D / 6-WJ SM12-D / 6-WJ SM13-D / 6-WJ	Y MULTILOCK 070 / GREY Y MULTILOCK 070 / YELLOW AY MULTILOCK 070 / WHITE AY MULTILOCK 070 / WHITE AY MULTILOCK 070 / YELLOW	DRIVER SEAT / UNDER
SEAT SOUAB HEAT	ERS – DRIVER	SM9-D / 3-WA	Y MULTILOCK 070 / GREY	DRIVER SEAT
WITCH PACK - DRI	VER SEAT	SM5-D / 16-W	AY MULTILOCK 040 / BLACK	DRIVER SEAT
Relay	Y	Case Color		
		BROWN	SW14-D7 BROWN	
HARNESS-TO	D-HARNESS CONNECTORS	6		
Connector	Type / Color		Location / Access	
CA8	20-WAY MULTILOCK 070 / WHITE		DRIVER 'A' POST / DOOR HARNESS GAITER	
CA13	6-WAY MULTILOCK 070 / WHITE		DRIVER 'B/C' POST / DOOR HARNESS GAITE	R
CA23	10-WAY MULTILOCK 070 / WHITE		BELOW DRIVER SEAT	
FC1	54-WAY THROUGH PANEL CONNECT	OR / BLACK	BELOW PASSENGER SIDE AIR VENT / GLOV	E BOX ASSEMBLY
FC5	54-WAY THROUGH PANEL CONNECT	OR / BLACK	BELOW DRIVER SIDE AIR VENT / COIN TRAY	<i>(</i>
C7	20-WAY MULTILOCK 070 / WHITE		ABOVE DIMMER MODULE / COIN TRAY	
GROUNDS				
Ground	Location / Type			
CA25L	EYELET (PAIR) – PASSENGER SEAT O	ROUND STUD		
CA25R	EVELET (PAIR) - PASSENGER SEAT (	ROUND STUD		

CA26R EYELET (PAIR) - DRIVER SEAT GROUND STUD

EYELET (PAIR) - RH FRONT BULKHEAD STUD / CABIN SIDE

CC3L

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CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)

The following symbols are used to represent values for Control Module Pin Out data:

- l Input D Serial and encoded communications
- O Output
- SG Signal Ground
- S SCP Network
- CAN (Network) С
- V Voltage (DC) Hz Frequency

B+ Battery voltage

KHz Frequency x 1000 MS Milliseconds MV Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

# REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS,

#### BODY PROCESSOR MODULE

$\vee$	Pin	Description	Active	Inactive
ī	FC15-15	IGNITION SWITCHED GROUND	GROUND	
0	FC15-17	SEAT HEATER STATUS (LHD = PASSENGER, BHD = DRIVER)	GROUND	В+
1	FC15-32	IGNITION SWITCHED GROUND	SROUND	В+
1	FC15-35	SEAT HEATER REQUEST (I HD = PASSENGER_BHD - DRIVER)	GROUND	B+
1	FC15-41	STARTER ENGAGE REQUEST	GROUND (MOMENTARY)	8+
0	FC15-69	SEAT HEATER STATUS (I HD - DRIVER, PHD - DASSENCER)	GROUND (CRANKING)	B+
1	FC15-80	BATTERY SUPPLY VOLTAGE	GROUND	B+
1	FC15-86	SEAT HEATER BEQUEST (LHD = DRIVER, RHD = BASSENCOR)	B+	B+
		ELITICE (LENGED) (LENGED DINVER, KHD = PASSENGER)	GROUND (MOMENTARY)	B+

# Fig. 12.3

#### COMPONENTS

#### Component BODY PROCESSOR MODULE DOOR CONTROL MODULE - DRIVER

DOOR CONTROL MODULE - DRIVER REAR

SEAT CUSHION HEATERS - DRIVER SEAT HEATER SWITCH (CENTER CONSOLE SWITCH PACK) SEAT MOTOR - DRIVER (RAISE / LOWER ONLY) SEAT SQUAB HEATERS - DRIVER SWITCH PACK - DRIVER SEAT (RAISE / LOWER ONLY)

#### Connector / Type / Color

FC15 / 14-WAY AMP EEEC / GREY DD10 / 22-WAY FORD 2.8 TIMER / BLUE DD11 / 22-WAY FORD 2.8 TIMER / BLACK RD10 / 22-WAY FORD 2.8 TIMER / BLUE RD11 / 22-WAY FORD 2.8 TIMER / BLACK SM7-D / 3-WAY MULTILOCK 070 / YELLOW CC1 / 16-WAY FORD IDC S.U. / BLACK

SM16-D / 6-WAY MULTILOCK 070 / GREY SM9-D / 3-WAY MULTILOCK 070 / GREY SM17-D / 16-WAY MULTILOCK 040 / BLACK

#### RELAYS

Relay	Case Color	Connector / Color	Location / Access
SEAT HEATER RELAY – DRIVER	BROWN	SM14-D / BROWN	FRONT SEAT RELAYS / UNDER SEAT
SEAT RAISE RELAY	VIOLET	SM18-D / VIOLET	FRONT SEAT RELAYS / UNDER SEAT
SEAT LOWER RELAY	VIOLET	SM18-D / VIOLET	FRONT SEAT RELAYS / UNDER SEAT

#### HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Access
CA8	20-WAY MULTILOCK 070 / WHITE	DRIVER 'A' POST / DOOR HA
CA13	6-WAY MULTILOCK 070 / WHITE	DRIVER 'B/C' POST / DOOR H
CA23	10-WAY MULTILOCK 070 / WHITE	BELOW DRIVER SEAT
FC1	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW PASSENGER SIDE A
FC5	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW DRIVER SIDE AIR VE
FC7	20-WAY MULTILOCK 070 / WHITE	ABOVE DIMMER MODULE / 0

#### GROUNDS

Ground	Location / Type
CA25L	EYELET (PAIR) – PASSENGER SEAT GROUND STUD
CA26L	EYELET (PAIR) - DRIVER SEAT GROUND STUD
CC3L	EYELET (PAIR) - RH FRONT BULKHEAD STUD / CABIN SIDE

#### CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)

The following symbols are used to represent values for Control Module Pin Out data:

- 1 Input
- O Output
- SG Signal Ground
- С S SCP Network

D

CAN (Network)

Serial and encoded communications

- V Voltage (DC) Hz Frequency

KHz Frequency x 1000 MS Milliseconds MV Millivolts

B+ Battery voltage

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

#### Location / Access BULKHEAD / BEHIND GLOVE BOX DOOR CASING / TRIM PANEL DOOR CASING / TRIM PANEL DRIVER SEAT CENTER CONSOLE SWITCH PACK DRIVER SEAT / UNDER DRIVER SEAT DRIVER SEAT / UNDER

/ DOOR HARNESS GAITER ST / DOOR HARNESS GAITER

IGER SIDE AIR VENT / GLOVE BOX ASSEMBLY SIDE AIR VENT / COIN TRAY MODULE / COIN TRAY

# REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS,

#### BODY PROCESSOR MODULE

$\bigtriangledown$	Pin	Description	Active	Inactive
1	FC15-15	IGNITION SWITCHED GROUND	GROUND	B+
0	FC15-17	SEAT HEATER STATUS (LHD = PASSENGER, RHD = DRIVER)	GROUND	B+
I	FC15-32	IGNITION SWITCHED GROUND	GROUND	B+
1	FC15-35	SEAT HEATER REQUEST (LHD - PASSENGER, RHD = DRIVER)	GROUND (MOMENTARY)	B+
L	FC15-41	STARTER ENGAGE REQUEST	GROUND (CRANKING)	B+
0	FC15-69	SEAT HEATER STATUS (LHD = DRIVER, RHD = PASSENGER)	GROUND	B+
I.	FC15-80	BATTERY SUPPLY VOLTAGE	8+	B+
s	FC15-84	SCP NETWORK	2 - 1600 Hz	
S	FC15-85	SCP NETWORK	2 – 1600 Hz	
T I	FC15-86	SEAT HEATER REQUEST (LHD - DRIVER, RHD - PASSENGER)	GROUND (MOMENTABY)	B+

#### PASSENGER SEAT CONTROL MODULE

$\vee$	Pin	Description	Active	Inactive
0	SM1-1P	PASSENGER SEAT SQUAB FORE / AFT RECLINE MOTOR SUPPLY	В+	GROUND
0	SM1-2P	PASSENGER SEAT SQUAB FORE / AFT RECLINE MOTOR SUPPLY	B+	GROUND
0	SM1-3P	PASSENGER SEAT CUSHION RAISE / LOWER FRONT MOTOR SUPPLY	B÷	GROUND
0	SM1-4P	PASSENGER SEAT CUSHION RAISE / LOWER FRONT MOTOR SUPPLY	B∸	GROUND
0	SM1-5P	PASSENGER SEAT HEADREST RAISE / LOWER MOTOR SUPPLY	B+	GROUND
0	SM1-6P	PASSENGER SEAT HEADREST RAISE / LOWER MOTOR SUPPLY	B+	GROUND
0	SM1-7P	PASSENGER SEAT CUSHION FORE / AFT MOTOR SUPPLY	B+	GROUND
0	SM1-8P	PASSENGER SEAT CUSHION FORE / AFT MOTOR SUPPLY	B+	GROUND
L.	SM1-9P	PASSENGER SEAT CUSHION FORE MOVEMENT REQUEST	B+	GROUND
I.	SM1-10P	PASSENGER SEAT CUSHION AFT MOVEMENT REQUEST	B÷	GROUND
ł	SM1-11P	PASSENGER SEAT CUSHION LOWER REAR MOVEMENT REQUEST	B+	GROUND
1	SM1-12P	PASSNGER SEAT CUSHION RAISE REAR MOVEMENT REQUEST	B+	GROUND
1	SM1-13P	PASSENGER SEAT CUSHION RAISE FRONT MOVEMENT REQUEST	B+	GROUND
1	SM1-14P	PASSENGER SEAT CUSHION LOWER FRONT MOVEMENT REQUEST	B+	GROUND
1	SM1-15P	PASSENGER SEAT SQUAB AFT RECLINE MOVEMENT REQUEST	B+	GROUND
1	SM1-16P	PASSENGER SEAT SQUAB FORE RECLINE MOVEMENT REQUEST	B+	GROUND
L	SM3-2P	COMMON GROUND SUPPLY	GROUND	GROUND
0	SM3-3P	PASSENGER SEAT CUSHION RAISE / LOWER REAR MOTOR SUPPLY	B+	GROUND
0	SM3-4P	PASSENGER SEAT CUSHION RAISE / LOWER REAR MOTOR SUPPLY	B+	GROUND
1	SM3-5P	BATTERY SUPPLY	B+	B+
1	SM3-6P	PASSENGER SEAT HEADREST RAISE MOVEMENT REQUEST	B+	GROUND
1	SM3-8P	PASSENGER SEAT HEADREST LOWER MOVEMENT REQUEST	B+	GROUND
S	SM3-9P	SCP NETWORK	2 – 1600 Hz	
S	SM3-10P	SCP NETWORK	2 – 1600 Hz	

NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

Fig. 12.4

COMPONEN	rs			
Component		Connector	/ Type / Color	Location / Access
BODY PROCESSOR MODULE SEAT CONTROL MODULE - PASSENGER		FC15 / 14-WAY A SM1-P / 16-WAY SM3-P / 10-WAY	MP EEEC / GREY FORD 2.8 TIMER / BLACK FORD 2.8 TIMER / BLACK	BULKHEAD / BEHIND GLOVE BOX PASSENGER SEAT / UNDER
SEAT CUSHION HEATERS – PASSENGER SEAT HEATER SWITCH (CENTER CONSOLE SWITCH PACK) SEAT LUMBAR PUMP – PASSENGER SEAT MOTORS – PASSENGER		SM7-P / 3-WAY F CC1 / 16-WAY FC	MULTILOCK 070 / YELLOW DRD IDC S.U. / BLACK	PASSENGER SEAT CENTER CONSOLE SWITCH PACK
		SM10-P / 3-WAY SM4-P / 6-WAY I SM6-P / 6-WAY I SM11-P / 6-WAY SM12-P / 6-WAY SM13-P / 6-WAY	MULTILOCK 070 / YELLOW MULTILOCK 070 / GREY MULTILOCK 070 / YELLOW MULTILOCK 070 / WHITE MULTILOCK 070 / WHITE MULTILOCK 070 / YELLOW	PASSENGER SEAT PASSENGER SEAT / UNDER
SEAT SQUAB HEATERS – PASSENGER SWITCH PACK – PASSENGER SEAT		SM9-P / 3-WAY SM5-P / 16-WAY	MULTILOCK 070 / GREY MULTILOCK 040 / BLACK	PASSENGER SEAT PASSENGER SEAT
RELAYS				
Relay SEAT HEATER RELA	Y – PASSENGER	Case Color BROWN	Connector / Color SM14-P / BROWN	Location / Access
HARNESS-TO	D-HARNESS CONNECTO	RS		
Connector	Type / Color	L	ocation / Access	
CA27 FC1	10-WAY MULTILOCK 070 / WHITE 54-WAY THROUGH PANEL CONN 54-WAY THROUGH PANEL CONN	B ECTOR / BLACK B ECTOR / BLACK B	ELOW PASSENGER SEAT ELOW PASSENGER SIDE AIR VENT / GLOV ELOW DRIVER SIDE AIR VENT / COIN TRAY	YE BOX ASSEMBLY Y

Ground	Location / Type
CA25L	EYELET (PAIR) – PASSENGER SEAT GROUND STUD
CA26L	EYELET (PAIR) - DRIVER SEAT GROUND STUD
CC3L	EYELET (PAIR) – RH FRONT BULKHEAD STUD / CABIN SIDE

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)

The following symbols are used to represent values for Control Module Pin Out data:

- I Input D Serial and encoded communications
- O Output
- SG Signal Ground
- С
- CAN (Network) S SCP Network
- B+ Battery voltage V Voltage (DC) Hz Frequency
- KHz Frequency x 1000 MS Milliseconds MV Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

#### BODY PROCESSOR MODULE

$\bigtriangledown$	Pin	Description	Active	Inactive
1	FC15-15	IGNITION SWITCHED GROUND	GROUND	B+
0	FC15-17	SEAT HEATER STATUS (LHD = PASSENGER, RHD = DRIVER)	GROUND	B+
I.	FC15-32	IGNITION SWITCHED GROUND	GROUND	B+
I.	FC15-35	SEAT HEATER REQUEST (LHD = PASSENGER, RHD = DRIVER)	GROUND (MOMENTARY)	B+
I	FC15-41	STARTER ENGAGE REQUEST	GROUND (CRANKING)	B+
0	FC15-69	SEAT HEATER STATUS (LHD = DRIVER, RHD = PASSENGER)	GROUND	B+
I.	FC15-80	BATTERY SUPPLY VOLTAGE	В+	B+
s	FC15-84	SCP NETWORK	2 · 1600 Hz	
s	FC15-85	SCP NETWORK	2 - 1600 Hz	
i	FC15-86	SEAT HEATER REQUEST (LHD = DRIVER, RHD = PASSENGER)	GROUND (MOMENTARY)	B+

#### PASSENGER SEAT CONTROL MODULE

$\vee$	Pin	Description	Active	Inactive
0	SM1-1P	PASSENGER SEAT SQUAB FORE / AFT RECLINE MOTOR SUPPLY	B+	GROUND
0	SM1-2P	PASSENGER SEAT SQUAB FORE / AFT RECLINE MOTOR SUPPLY	B+	GROUND
0	SM1-3P	PASSENGER SEAT CUSHION RAISE / LOWER FRONT MOTOR SUPPLY	B+	GROUND
0	SM1-4P	PASSENGER SEAT CUSHION RAISE / LOWER FRONT MOTOR SUPPLY	B+	GROUND
0	SM1-5P	PASSENGER SEAT HEADREST RAISE / LOWER MOTOR SUPPLY	B+	GROUND
0	SM1-6P	PASSENGER SEAT HEADREST RAISE / LOWER MOTOR SUPPLY	B+	GROUND
0	SM1-7P	PASSENGER SEAT CUSHION FORE / AFT MOTOR SUPPLY	B+	GROUND
0	SM1-8P	PASSENGER SEAT CUSHION FORE / AFT MOTOR SUPPLY	B÷	GROUND
1	SM1-9P	PASSENGER SEAT CUSHION FORE MOVEMENT REQUEST	B+	GROUND
1	SM1-10P	PASSENGER SEAT CUSHION AFT MOVEMENT REQUEST	B+	GROUND
1	SM1-11P	PASSENGER SEAT CUSHION LOWER REAR MOVEMENT REQUEST	B+	GROUND
1	SM1-12P	PASSNGER SEAT CUSHION RAISE REAR MOVEMENT REQUEST	B+	GROUND
1	SM1-13P	PASSENGER SEAT CUSHION RAISE FRONT MOVEMENT REQUEST	B+	GROUND
I	SM1-14P	PASSENGER SEAT CUSHION LOWER FRONT MOVEMENT REQUEST	B÷	GROUND
I	SM1-15P	PASSENGER SEAT SQUAB AFT RECLINE MOVEMENT REQUEST	B+	GROUND
I	SM1-16P	PASSENGER SEAT SQUAB FORE RECLINE MOVEMENT REQUEST	B+	GROUND
t	SM3-2P	COMMON GROUND SUPPLY	GROUND	GROUND
0	SM3-3P	PASSENGER SEAT CUSHION RAISE / LOWER REAR MOTOR SUPPLY	B+	GROUND
0	SM3-4P	PASSENGER SEAT CUSHION RAISE / LOWER REAR MOTOR SUPPLY	B+	GROUND
ł	SM3-5P	BATTERY SUPPLY	B+	B+
1	SM3-6P	PASSENGER SEAT HEADREST RAISE MOVEMENT REQUEST	B+	GROUND
1	SM3-8P	PASSENGER SEAT HEADREST LOWER MOVEMENT REQUEST	B+	GROUND
s	SM3-9P	SCP NETWORK	2 - 1600 Hz	
s	SM3-10P	SCP NETWORK	2 - 1600 Hz	

NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

Fig. 12.5

COMPONEN	TS		
Component		Connec	tor / Type / Color
BODY PROCESSOR	MODULE	FC15 / 14-W	AY AMP EEEC / GREY
FORE / AFT SWITCH	- PASSENGER REAR	SM19-P / 1	-WAY AMP MICRO QUAD LOC
RECLINE SWITCH -	PASSENGER REAR	SM20-P / 1	-WAY AMP MICRO QUAD LOC
SEAT CONTROL MO	DULE – PASSENGER	SM1-P / 16- SM3-P / 10-	WAY FORD 2.8 TIMER / BLACK WAY FORD 2.8 TIMER / BLACK
SEAT CUSHION HEA	ATERS – PASSENGER	SM7-P / 3-V	VAY MULTILOCK 070 / YELLOW
SEAT HEATER SWIT (CENTER CONS	CH SOLE SWITCH PACK)	CC1 / 16-W	AY FORD IDC S.U. / BLACK
SEAT LUMBAR PUN	1P - PASSENGER	SM10-P / 3	WAY MULTILOCK 070 / YELLO
SEAT MOTORS – PA	ISSENGER	SM4-P / 6-V SM6-P / 6-V SM11-P / 6 SM12-P / 6- SM12-P / 6- SM13-P / 6-	VAY MULTILOCK 070 / GREY VAY MULTILOCK 070 / YELLOW WAY MULTILOCK 070 / WHITE WAY MULTILOCK 070 / WHITE WAY MULTILOCK 070 / YELLO!
SEAT SQUAB HEAT	ERS – PASSENGER	SM9-P / 3-V	VAY MULTILOCK 070 / GREY
SWITCH PACK - PAS	SSENGER SEAT	SM5-P / 16	WAY MULTILOCK 040 / BLACK
SEAT HEATER RELA	Y – PASSENGER	BROWN	SM14-P / BRO\
HARNESS-TO	D-HARNESS CONNEC	TORS	
Connector	Type / Color		Location / Access
CA27	10-WAY MULTILOCK 070 / W	/HITE	BELOW PASSENGER SEAT
FC1	54-WAY THROUGH PANEL C	ONNECTOR / BLACK	BELOW PASSENGER SIDE
FC5	54-WAY THROUGH PANEL C	ONNECTOR / BLACK	BELOW DRIVER SIDE AIR V
FC7	20-WAY MULTILOCK 070 / W	HITE	ABOVE DIMMER MODULE /
SM25-P	10-WAY MULTILOCK 070 / W	/HITE	BEHIND PASSENGER SEAT
GROUNDS			
Ground	Location / Type		
CA25L	EYELET (PAIR) - PASSENGE	R SEAT GROUND STUD	
CA26L			

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)



The following symbols are used to represent values for Control Module Pin Out data:

- Input
- O Output
- SG Signal Ground
- D
  - С SCP Network S
- CAN (Network)

Serial and encoded communications

- B+ Battery voltage V Voltage (DC) Hz Frequency
- MS Milliseconds MV Millivolts
- KHz Frequency x 1000

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

CK / BLACK CK / BLACK

w

w

#### Location / Access

BULKHEAD / BEHIND GLOVE BOX PASSENGER SEAT / REAR PASSENGER SEAT / REAR PASSENGER SEAT / UNDER PASSENGER SEAT CENTER CONSOLE SWITCH PACK

PASSENGER SEAT PASSENGER SEAT / UNDER

PASSENGER SEAT PASSENGER SEAT

or / Color

Location / Access

ΛN

FRONT SEAT RELAYS / UNDER SEAT

AIR VENT / GLOVE BOX ASSEMBLY ENT / COIN TRAY / COIN TRAY BACK FINISHER

#### BODY PROCESSOR MODULE

$\sim$	Pin	Description	Active	Inactive
1	FC15-15	IGNITION SWITCHED GROUND	GROUND	B+
0	FC15-17	SEAT HEATER STATUS (LHD = PASSENGER, RHD = DRIVER)	GROUND	B+
1	FC15-32	IGNITION SWITCHED GROUND	GROUND	8+
1	FC15-35	SEAT HEATER REQUEST (LHD = PASSENGER, RHD = DRIVER)	GROUND (MOMENTARY)	B+
1	FC15-41	STARTER ENGAGE REQUEST	GROUND (CRANKING)	B+
0	FC15-69	SEAT HEATER STATUS (LHD = DRIVER, RHD = PASSENGER)	GROUND	B+
1	FC15-80	BATTERY SUPPLY VOLTAGE	B+	B+
1	FC15-86	SEAT HEATER REQUEST (LHD = DRIVER, RHD = PASSENGER)	GROUND (MOMENTARY)	B+

# Fig. 12.6

COMPONEN	TS		
Component		Connecto	or / Type / Color
BODY PROCESSOR	MODULE	FC15 / 14-WAY	AMP EEEC / GREY
SEAT CUSHION HEA	ATÉRS – DRIVER	SM7-D / 3-WA	Y MULTILOCK 070 / YELLOV
SEAT CUSHION HEA	ATERS – PASSENGER	SM7-P / 3-WAY	Y MULTILOCK 070 / YELLOW
SEAT HEATER SWIT (CENTER CONS	CHES SOLE SWITCH PACK)	CC1 / 16-WAY	FORD IDC S.U. / BLACK
SEAT SQUAB HEAT	ERS – DRIVER	SM9-D / 3-WA	Y MULTILOCK 070 / GREY
SEAT SQUAB HEAT	ERS – PASSENGER	SM9-P / 3-WAY	Y MULTILOCK 070 / GREY
RELAYS			
Relay		Case Color	Connecto
SEAT HEATER RELA	Y - DRIVER	BROWN	SM14-D / BRO
SEAT HEATER RELA	Y - PASSENGER	BROWN	SM14-P / BRO
HARNESS-T	D-HARNESS CONNECTOR	RS	
Connector	Type / Color		Location / Acces
CA23	10-WAY MULTILOCK 070 / WHITE		BELOW DRIVER SEAT
	10-WAY MULT!LOCK 070 / WHITE		BELOW PASSENGER SEAT
CA27		CTOR / BLACK	BELOW PASSENGER SIDE
CA27 FC1	54-WAY THROUGH PANEL CONNEC		
CA27 FC1 FC5	54-WAY THROUGH PANEL CONNEC 54-WAY THROUGH PANEL CONNEC	CTOR / BLACK	BELOW DRIVER SIDE AIR

GRUU	ND2

Ground CC3L CA25L CA26L

Location / Type
EYELET (PAIR) - RH FRONT BULKHEAD STUD / CABIN SIDE
EYELET (PAIR) - PASSENGER SEAT GROUND STUD
EYELET (PAIR) - DRIVER SEAT GROUND STUD

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)



The following symbols are used to represent values for Control Module Pin Out data:

- l Input D Serial and encoded communications
- O Output

- SG Signal Ground
- S SCP Network

С

CAN (Network)

- B+ Battery voltage V Voltage (DC) Hz Frequency
- KHz Frequency x 1000 MS Milliseconds MV Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

LOW LÓW

#### Location / Access

BULKHEAD / BEHIND GLOVE BOX DRIVER SEAT PASSENGER SEAT CENTER CONSOLE SWITCH PACK DRIVER SEAT PASSENGER SEAT

#### tor / Color Location / Access

RÓWN ROWN

FRONT SEAT RELAYS / UNDER SEAT FRONT SEAT RELAYS / UNDER SEAT

ess

DE AIR VENT / GLOVE BOX ASSEMBLY R VENT / COIN TRAY JLE / COIN TRAY

#### BODY PROCESSOR MODULE

$\bigtriangledown$	Pin	Description	Active	Inactive
1	FC15-15	IGNITION SWITCHED GROUND	GROUND	<b>B</b> +
0	FC15-17	SEAT HEATER STATUS (LHD = PASSENGER, RHD = DRIVER)	GROUND	B+
1	FC15-32	IGNITION SWITCHED GROUND	GROUND	B+
I	FC15-35	SEAT HEATER REQUEST (LHD = PASSENGER, RHD = DRIVER)	GROUND (MOMENTARY)	B+
1	FC15-41	STARTER ENGAGE REQUEST	GROUND (CRANKING)	B+
0	FC15-69	SEAT HEATER STATUS (LHD = DRIVER, RHD = PASSENGER)	GROUND	B+
1	FC15-80	BATTERY SUPPLY VOLTAGE	8+	B+
I	FC15-86	SEAT HEATER REQUEST (LHD = DRIVER, RHD = PASSENGER)	GROUND (MOMENTARY)	B+

# Fig. 12.7

COMPONENTS				
Component	Connector / Type /	Color		
BODY PROCESSOR MODULE	FC15 / 14-WAY AMP EEEC / GR	EY		
SEAT CUSHION HEATERS - DRIVER	SM7-D / 3-WAY MULTILOCK 07	SM7-D / 3-WAY MULTILOCK 070 / YELLOW		
SEAT CUSHION HEATERS - PASSENGER	SM7-P / 3-WAY MULTILOCK 07	0 / YELLOW		
SEAT HEATER SWITCHES (CENTER CONSOLE SWITCH PACK)	CC1 / 16-WAY FORD IDC S.U. /	BLACK		
SEAT SQUAB HEATERS - DRIVER	SM9-D / 3-WAY MULTILOCK 07	0 / GREY		
SEAT SQUAB HEATERS - PASSENGER	SM9-P / 3-WAY MULTILOCK 07	0 / GREY		
RELAYS				
Relay	Case Color Co	nnecto		
SEAT HEATER RELAY ~ DRIVER	BROWN SM	14-D / BROW		
SEAT HEATER RELAY - PASSENGER	BROWN SM	14-P / BROW		
HARNESS-TO-HARNESS CON	INECTORS			
Connector Type / Color	Location /	Access		

CA23	10-WAY MULTILOCK 070 / WHITE	BELOW DRIVER SEAT
CA27	10-WAY MULTILOCK 070 / WHITE	BELOW PASSENGER SEAT
FC1	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW PASSENGER SIDE
FC5	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW DRIVER SIDE AIR V
FC7	20-WAY MULTILOCK 070 / WHITE	ABOVE DIMMER MODULE /

#### GROUNDS

Ground	Location / Type
CC3L	EYELET (PAIR) - RH FRONT BULKHEAD STUD / CABIN SIDE
CA25L	EYELET (PAIR) – PASSENGER SEAT GROUND STUD
CA26L	EYELET (PAIR) – DRIVER SEAT GROUND STUD

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)



The following symbols are used to represent values for Control Module Pin Out data:

- L Input
- 0 Output
- SG Signal Ground
- С CAN (Network) SCP Network S

D Serial and encoded communications

- B+ Battery voltage v Voltage (DC)
- Hz Frequency
- KHz Frequency x 1000 MS Milliseconds MV Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

#### Location / Access

BULKHEAD / BEHIND GLOVE BOX DRIVER SEAT PASSENGER SEAT CENTER CONSOLE SWITCH PACK

DRIVER SEAT PASSENGER SEAT

#### or / Color ٧N

Location / Access FRONT SEAT RELAYS / UNDER SEAT FRONT SEAT RELAYS / UNDER SEAT

IDE AIR VENT / GLOVE BOX ASSEMBLY R VENT / COIN TRAY ILE / COIN TRAY

#### REAR SEAT CONTROL MODULE

$\bigtriangledown$	Pin	Description	Active
I.	B\$1-11	LH LUMBAR SWITCH INFLATE	B+
I.	BS2-3	GROUND	GROUND
ł	BS2-4	BATTERY POWER SUPPLY	B+
1	BS2-5	GROUND	GROUND
1	BS2-6	BATTERY POWER SUPPLY	B+
1	BS2-12	BATTERY POWER SUPPLY	B+
0	BS6-1	RH REAR SEAT LUMBAR PUMP FEED	8+
0	BS6-2	RH REAR SEAT LUMBER DEFLATE SOLENOID VALVE	8+
0	BS6-3	LH REAR SEAT MOTOR - FORE / AFT MOTOR	B+
0	BS6-4	LH REAR SEAT MOTOR – FORE / AFT MOTOR	B+
0	BS6-5	LH REAR SEAT - HEADREST MOTOR	B+
0	BS6-6	LH REAR SEAT – HEADREST MOTOR	В+
0	BS6-7	RH REAR SEAT MOTOR – FORE / AFT MOTOR	B+
0	BS6-8	RH REAR SEAT MOTOR - FORE / AFT MOTOR	B+
0	BS6-10	LH REAR SEAT LUMBAR PUMP FEED	B+
0	BS6-11	RH REAR SEAT – HEADREST MOTOR	8+
0	BS6-12	RH REAR SEAT - HEADREST MOTOR	B+
I.	BS7-8	RH LUMBAR SWITCH ~ INFLATE REQUEST	В+
1	BS7-9	RH FORE / AFT SWITCH - AFT REQUEST	В+
1	BS7-10	RH FORE / AFT SWITCH FORE REQUEST	B+
1	BS7-14	RH HEADREST SWITCH – LOWER REQUEST	B+
I.	BS7-15	RH HEADREST SWITCH - RAISE REQUEST	В+
I.	BS7-16	LH HEADREST SWITCH - LOWER REQUEST	В+
1	BS7-17	LH HEADREST SWITCH – RAISE REQUEST	B+
I.	BS7-18	LH FORE / AFT SWITCH - AFT REQUEST	B+
1	BS7-19	LH FORE / AFT SWITCH - FORE REQUEST	B+
I.	BS7-20	RH LUMBAR SWITCH – DEFLATE REQUEST	B+

Fig. 12.8

Inactive

GROUND 8+ GROUND

0 V

B+

B+

B+

0 V

0 V

0 V

οv

0 V

0 V

0 V

B+ 0 V 0 γ

0 V

0 V 0 V 0 V 0 V 0 V

0 V

0 V

0 V 0 V

COMPONENT	rs			
Component		Connector / Type / Color BS1 / 22-WAY MULTILOCK 47 / BLUE BS2 / 12-WAY MULTILOCK 47 / BLUE BS6 / 12-WAY MULTILOCK 47 / WHITE BS7 / 22-WAY MULTILOCK 47 / WHITE BS21 / 3-WAY MULTILOCK 070 / WHITE		
SEAT CONTROL MO	DULE – REAR			
SEAT FORE / AFT MO	OTOR – LH REAR			
SEAT FORE / AFT MO	OTOR - RH REAR	BS22 / 3-WAY MULT	LOCK 070 / WHITE	
SEAT FORE / AFT SV	VITCH – LH REAR	BC3 / 10-WAY AMP M	ICRO QUAD LOCK / BLA	
SEAT FORE / AFT SV	VITCH – RH REAR	BC5 / 10-WAY AMP M	ICRO QUAD LOCK / BLA	
SEAT HEADREST M	OTOR – LH REAR	BB3-L / 6-WAY MULT	TILOCK 070 / YELLOW	
SEAT HEADREST M	OTOR – RH REAR	BB3-R / 6-WAY MUL	TILOCK 070 / YELLOW	
SEAT HEADREST SV	VITCH – LH REAR	BC4 / 10-WAY AMP N	IICRO QUAD LOCK / BLA	
SEAT HEADREST SV	VITCH – RH REAR	BC7 / 10-WAY AMP M	IICRO QUAD LOCK / BLA	
SEAT LUMBAR PUN	1P ~ LH REAR	BB4-L / 3-WAY MULT	TILOCK 070 / YELLOW	
SEAT LUMBAR PUN	IP – RH REAR	BB4-R / 3-WAY MULTILOCK 070 / YELLOW BC8 / 10-WAY AMP MICRO QUAD LOCK / BLA		
SEAT LUMBAR SWI	TCH – LH REAR			
SEAT LUMBAR SWI	TCH – RH REAR	BC6 / 10-WAY AMP N	MICHO QUAD LOCK / BL	
RELAYS				
Relay		Case Color	Connector	
LUMBAR DEFLATE	RELAY - LH	BLUE	BS10 / BLUE	
HARNESS-TO	D-HARNESS CONNECTOR	5		
Connector	Type / Color	Loc	ation / Access	
BS3	6-WAY MULTILOCK 070 / WHITE	BELOW REAR SEAT CUSHI		
BS4	20-WAY MULTILOCK 070 / WHITE	BELOW REAR CENTER CO		
BS5 6-WAY MULTILOCK 070 / WHITE		BELOW REAR SEAT CUSHIC		
CA109 12-WAY MULTILOCK 070 / WHITE		BELO	W REAR SEAT CUSHIO	
GROUNDS				
Ground	Location / Type			
CA38L	EYELET (PAIR) - LH HEELBOARD POS	ST GROUND SCREW		
CA110L	EYELET (PAIR) - LH HEELBOARD POS	ST GROUND SCREW		

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)

EYELET (PAIR) - LH HEELBOARD POST GROUND SCREW



CA110R

The following symbols are used to represent values for Control Module Pin Out data:

- 1 input
- O Output
- SG Signal Ground
- C CAN (Network)

D

- S SCP Network
- Serial and encoded communications
- v Voltage (DC) Hz Frequency
- B+ Battery voltage
- KHz Frequency x 1000 MS Milliseconds MV Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

#### Location / Access

BELOW REAR CENTER CONSOLE

/ BLACK BLACK ow ow / BLACK / BLACK ow ow ( / BLACK C/ BLACK

BELOW SEAT CUSHION BELOW SEAT CUSHION REAR CENTER CONSOLE SWITCH PACK REAR CENTER CONSOLE SWITCH PACK REAR SEAT REAR SEAT REAR CENTER CONSOLE SWITCH PACK REAR CENTER CONSOLE SWITCH PACK REAR SEAT REAR SEAT REAR CENTER CONSOLE SWITCH PACK REAR CENTER CONSOLE SWITCH PACK

#### Location / Access tor / Color

RH HEELBOARD RELAYS / HEELBOARD COVER

SHION CONSOLE SEAT SWITCHES SHION SHION

# Fig. 12.9

#### COMPONENTS

SEAT CUSHION HEATER - LH REAR

SEAT CUSHION HEATER - RH REAR

SEAT HEATER TIMER - LH REAR

SEAT HEATER TIMER - RH REAR

SQUAB HEATER - LH REAR SQUAB HEATER - RH REAR

#### Component

Connector / Type / Color BB1-L / 3-WAY MULTILOCK 070 / YELLOW BB1-R / 3-WAY MULTILOCK 070 / YELLOW BC1 / 10-WAY AMP MICRO QUAD LOCK / BLACK SEAT HEATER SWITCH - LH REAR (LWB VEHICLES) BC2 / 10-WAY AMP MICRO QUAD LOCK / BLACK SEAT HEATER SWITCH - RH REAR (LWB VEHICLES) BS8 / 5-WAY RELAY BASE / BROWN BS9 / 5-WAY RELAY BASE / BROWN BB5-L / 3-WAY MULTILOCK 070 / GREY BB5-R / 3-WAY MULTILOCK 070 / GREY

#### HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Acce
BS3	6-WAY MULTILOCK 070 / WHITE	BELOW REAR SEAT CUS
BS4	20-WAY MULTILOCK 070 / WHITE	BELOW REAR CENTER C
BS5	6-WAY MULTILOCK 070 / WHITE	BELOW REAR SEAT CUS
CA109	12-WAY MULTILOCK 070 / WHITE	BELOW REAR SEAT CUS

#### GROUNDS

Ground CA38L

Location / Type EYELET (PAIR) - LH HEELBOARD POST GROUND SCREW

CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

#### Location / Access

REAR SEAT REAR SEAT REAR SEAT REAR CENTER CONSOLE SWITCH PACK REAR CENTER CONSOLE SWITCH PACK RH HEELBOARD / HEELBOARD COVER RH HEELBOARD / HEELBOARD COVER RH HEELBOARD / HEELBOARD COVER REAR SEAT REAR SEAT

ess

SHION CONSOLE SEAT SWITCHES SHION SHION

# Fig. 12.10

#### COMPONENTS

# Component SEAT CUSHION HEATER – LH REAR SEAT CUSHION HEATER – RH REAR SEAT HEATER SWITCH – LH REAR SEAT HEATER SWITCH – RH REAR SEAT HEATER TIMER – LH REAR SOUAB HEATER – LH REAR SQUAB HEATER – LH REAR

#### Connector / Type / Color

BB1-L / 3-WAY MULTILOCK 070 / YELLOW BB1-R / 3-WAY MULTILOCK 070 / YELLOW B\$11 / 10-WAY AMP MICRO QUAD LOCK / BLACK BS12 / 10-WAY AMP MICRO QUAD LOCK / BLACK BS12 / 10-WAY AMP MICRO QUAD LOCK / NATURAL BS2 / 5-WAY RELAY BASE / BROWN BS9 / 5-WAY RELAY BASE / BROWN BS5 / (3-WAY MULTILOCK 070 / GREY DS5 / (3-WAY MULTILOCK 070 / GREY BB5-R / 3-WAY MULTILOCK 070 / GREY

#### HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Acces
B\$13	3-WAY MULTILOCK 070 / WHITE	BELOW REAR SEAT CUS
B\$15	3-WAY MULTILOCK 070 / WHITE	BELOW REAR SEAT CUS
CA109	12-WAY MULTILOCK 070 / WHITE	BELOW REAR SEAT CUS

#### GROUNDS

CA38L

Ground Location / Type EYELET (PAIR) - LH HEELBOARD POST GROUND SCREW

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

DATE OF ISSUE: SEPTEMBER 1997

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#### Location / Access

REAR SEAT REAR SEAT BEHIND REAR CENTER CONSOLE SWITCH PACK BEHIND REAR CENTER CONSOLE SWITCH PACK BEHIND REAR CENTER CONSOLE SWITCH PACK RH HELEBOARD / HEELBOARD COVER RH HEELBOARD / HEELBOARD COVER REAR SEAT

SS HION

HION HION

#### BODY PROCESSOR MODULE

$\nabla$	Pin	Description			Active			Inactive	COMPON
I.	FC15-5	TRUNK RELEASE REQU	JEST		GROUND (MOMEN	TARY)		B+	Compone
	FC15-15	IGNITION SWITCHED G	ROUND		GROUND			B+	
1	FC15-32 FC15-33	IGNITION SWITCHED G			GROUND			B+ B+	CENTRAL LOCK
1	FC15-41	STARTER ENGAGE REC	DUEST		GROUND (CRANK	ING)		B+	(CENTER C
	FC15-55 FC15-58	VALET REQUEST	AUTCH STATILS		GROUND (MOMEN	ITARY)			DOOR CONTRO
i.	FC15-63	CENTRAL LOCKING RE	QUEST		GROUND (MOME	NTARY)		B+	
0	FC15-67	KEY IN IGNITION			GROUND (KEY IN)			B+ (KEY OUT)	Boon contine
ĩ	FC15-80	BATTERY SUPPLY VOL	TAGE		B+			B+ B+	DOOR CONTRO
s s	FC15-84 FC15-85	SCP NETWORK SCP NETWORK			2 - 1600 Hz 2 - 1600 Hz				DOOR CONTRO
DR	IVER DOOR	CONTROL MOL	DULE						DOOR LOCK AC
$\nabla$	Pin	Description			Active			Inactive	DOOR LOCK AC
i	0010-1	BATTERY POWER SUD			D D			P	DOOR LOCK AC
ò	DD10-5	DRIVERS DOOR LOCK	ACTUATOR MOTOR UNLOCK		в+ В+			GROUND	DOUR LOCK AL
0	DD10-6 DD10-8	DRIVERS DOOR LOCK A	ACTUATOR MOTOR LOCK		B+			GROUND	DOOR SWITCH
s	DD10-9	SCP NETWORK			2 - 1600 Hz			GROOND	DOOR SWITCH
S	DD10-16 DD10-17	SCP NETWORK			2 - 1600 Hz			GROUND	DOOR SWITCH
•	001017	10WEII GIIOOND			GROUND			GROOND	DOOR SWITCH
	DD11-4 DD11-12	DRIVER DOOR LOCK BA	ARREL UNLOCK REQUEST		B+ (MOMENTARY	>		GROUND	FUEL FILLER FL
i	DD11-20	DRIVER DOOR SWITCH	ANNEE LOCK REQUEST		GROUND (DOOR (	/ OPEN)		B+	IGNITION SWIT
									KEY FOB ANTE
DR	IVER REAR	DOOR CONTRO	LMODULE						SECURITY AND
$\bigtriangledown$	Pin	Description			Active			Inactive	
	RD10-1	BATTERY POWER SUP	PLY		B+			B+	SPLICE HEADE
0	RD10-5 RD10-6	DRIVER REAR DOOR LC	DCK ACTUATOR MOTOR UNLOC	K	8+ 8+			GROUND	TRUNK RELEAS
Ī	RD10-8	LOGIC GROUND	Ser Her BAron Moren Look		GROUND			GROUND	TRUNK RELEAS
S	RD10-9 RD10-16	SCP NETWORK			2 - 1600 Hz				TRUNK RELEAS
I	RD10-17	POWER GROUND			GROUND			GROUND	(FASCIA S
ł	RD10-19	MODULE IDENTIFICATI	ION		GROUND			GROUND	TRUNK SWITCH
1	RD11-7	MODULE IDENTIFICATI	ION		GROUND			GROUND	(CENTER (
I	RD11-20	DRIVER REAR DOOR SV	WITCH		GROUND (DOOR	OPEN)		B+	
PA	SSENGER D	DOOR CONTROL	MODULE						RELAYS
$\sim$	Pin	Description			Active			Inactive	Relav
1	PD10-1	BATTERY POWER SUP			B+			B+	
ŏ	PD10-6	PASSENGER DOOR LO	CK ACTUATOR MOTOR UNLOCK	ζ.	8+ 8+			GROUND	FUEL FILLER FI
<u>.</u>	PD10-8	LOGIC GROUND			GROUND			GROUND	FUEL FILLER FI
s	PD10-9 PD10-16	SCP NETWORK			2 - 1600 Hz 2 - 1600 Hz				
1	PD10-17	POWER GROUND			GROUND			GROUND	
T	PD11-20	PASSENGER DOOR SW	/ITCH		GROUND (DOOR	OPEN)		B+	HARNESS
PA	SSENGER R		NTROL MODULE						Connecto
$\nabla$	Pin	Description			Antino			Inactive	CA8
Ň	DD40.4	Description			Active			Inactive	CA10
ò	RP10-7 RP10-5	PASSENGER REAR DO	PLY OR LOCK ACTUATOR MOTOR UI	NLOCK	8+ 8+			B+ GROUND	CA11
0	RP10-6	PASSENGER REAR DOC	OR LOCK ACTUATOR MOTOR LO	ОСК	B+			GROUND	CA11
ś	RP10-8	SCP NETWORK			GROUND 2 - 1600 Hz			GROUND	CA12
S	RP10-16	SCP NETWORK			2 – 1600 Hz			0001110	CA14
1	KP10-17	POWER GROUND			GROUND			GROUND	CA16
١	RP11-20	PASSENGER REAR DOC	OR SWITCH		GROUND (DOOR	OPEN)		B+	CA45
CE/									EC1
									FC7
$\vee$	Pin	Description			Active			Inactive	
0	BT1-1	TRUNK RELEASE ACTU	ATOR ACTIVATE		B+ (PULSE)			GROUND	0001110
s	BT1-2 BT1-8	SCP NETWORK	UUK RELAY ACTIVATE		8+ (PULSE) 2 - 1600 H7			GROUND	GROUND
o '	BT1-10	FUEL FILLER FLAP LOCH	K RELAY ACTIVATE		B+			GROUND	Ground
1	BT1-13 BT1-14	LUGIC GROUND			GROUND				BT22L
ļ	BT1-15	BATTERY POWER SUPP	PLY .		B+			B+	BT28L
5	811-16	SCP NEIWORK			2 – 1600 Hz				BT34
1	BT2-3	TRUNK RELEASE REQU	EST		GROUND (MOME	NTARY)		B+	CA30R
	BT2-5 BT2-7	DRIVER DOOR LOCK ST	TCH STATUS ATUS		GROUND (INTRUS	SION)		B+ (SECURE)	CA31L
1	BT2-19	PASSENGER DOOR LOC	CK STATUS						CA33L
I	BT6-1	KEY FOB ANTENNA							CASSN CASSN
1	BT6-2	KEY FOB ANTENNA SHI	ELD		GROUND			GROUND	CA36R
NO									CC3L
NO	CC3R								
The	following s	ymbols are used	to represent values f	for Control Module P	in Out data:				FC17L
I	Input	D	Serial and encoded	l communications	B+	Battery voltage	KHz	Frequency x 1000	CONTROL
0	Output	С	CAN (Network)		v	Voltage (DC)	MS	Milliseconds	4
SG	Signal Gro	und S	SCP Network		Hz	Frequency	MV	Millivolts	<b>—</b>
CAL	TION The inf	formation on this d	lata nana ie fuuniaka dit-	aid the year in under the	anding sizes it	operation THE INCODAA			
CH0	none ine im	ormation on this d	iala page is furnished to	aiu the user in understa	anding circuit	operation. THIS INFORMA	1018 21	JUOLD DE USED FUR KEFEREN	

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

# Fig. 13.1

#### ENTS

#### ent SOR MODULE KING SWITCH CONSOLE SWITCH PACK) L MODULE - DRIVER

OL MODULE - DRIVER REAR

OL MODULE - PASSENGER OL MODULE - PASSENGER REAR

CTUATOR - DRIVER CTUATOR ~ DRIVER REAR CTUATOR - PASSENGER CTUATOR - PASSENGER REAR WITCHES - DRIVER I – DRIVER - DRIVER REAR I – PASSENGER - PASSENGER REAR LAP LOCK ACTUATOR TCH (KEY-IN SWITCH) INNA MICROSWITCH LOCKING CONTROL MODULE

ER – CA223 SE ACTUATOR SE SWITCH ASE SWITCH SWITCH PACK) CONSOLE SWITCH PACK)

**Case Color** VIOLET CA50 / VIOLET IG RELAY VIOLET BT23 / VIOLET LAP LOCK RELAY BT23 / VIOLET LAP UNLOCK RELAY VIOLET

#### S-TO-HARNESS CONNECTORS

onnector	Type / Color	Location / Acces
4	54-WAY THROUGH PANEL / BLACK	BELOW PARCEL SHELF /
.8	20-WAY MULTILOCK 070 / WHITE	DRIVER 'A' POST / DOOR
10	8-WAY MULTILOCK 070 / YELLOW	DRIVER 'A' POST / DOOR
11	20-WAY MULTILOCK 070 / WHITE	PASSENGER 'A' POST / D
.11	20-WAY MULTILOCK 070 / WHITE	PASSENGER 'A' POST / D
12	8-WAY MULTILOCK 070 / YELLOW	PASSENGER 'A' POST / D
14	6-WAY MULTILOCK 070 / WHITE	DRIVER 'B/C' POST / DOO
16	6-WAY MULTILOCK 070 / WHITE	PASSENGER 'B/C' POST /
45	6-WAY MULTILOCK 070 / WHITE	PASSENGER 'B/C' POST /
46	4-WAY MULTILOCK 070 / WHITE	DRIVER 'B/C' POST / DOO
:1	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW PASSENGER SID
7	20-WAY MULTILOCK 070 / WHITE	ABOVE DIMMER MODULI

#### DS

Ground	Location / Type
BT22L	EYELET (PAIR) – TRUNK / RH CENTER GROUND STUD
BT28L	EYELET (PAIR) - TRUNK / RH CENTER GROUND STUD (RH FORWARD - EARLY PROD
BT34	EYELET (SINGLE) - KEY FOB ANTENNA GROUND / BACKLIGHT / CENTER
CA30R	EYELET (PAIR) – LH 'A' POST GROUND SCREW
CA31L	EYELET (PAIR) – RH DRIVE SHAFT TUNNEL GROUND STUD
CA33L	EYELET (PAIR) – RH 'A' POST GROUND SCREW
CA33R	EYELET (PAIR) – RH 'A' POST GROUND SCREW
CA36L	EYELET (PAIR) – LH 'A' POST GROUND SCREW
CA36R	EYELET (PAIR) – LH 'A' POST GROUND SCREW
CC3L	EYELET (PAIR) – RH FRONT BULKHEAD STUD / CABIN SIDE
CC3R	EYELET (PAIR) – RH FRONT BULKHEAD STUD / CABIN SIDE
FC17L	EYELET (PAIR) – EMS BULKHEAD GROUND STUD

## MODULE PIN OUT INFORMATION (FOLD OUT PAGE)

CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

NATE OF ICOUR. OF DEPENDED 4000

Connector / Type / Color	Location / Access
FC15 / 14-WAY AMP EEEC / GREY	BULKHEAD / BEHIND GLOVE BOX
CC1 / 16-WAY FORD IDC S.U. / BLACK	CENTER CONSOLE SWITCH PACK
DD10 / 22-WAY FORD 2.8 TIMER / BLUE DD11 / 22-WAY FORD 2.8 TIMER / BLACK	DOOR CASING / TRIM PANEL
RD10 / 22-WAY FORD 2.8 TIMER / BLUE RD11 / 22-WAY FORD 2.8 TIMER / BLACK	DOOR CASING / TRIM PANEL
PD10 / 22-WAY FORD 2.8 TIMER / BLUE PD11 / 22-WAY FORD 2.8 TIMER / BLACK	DOOR CASING / TRIM PANEL
RP10 / 22-WAY FORD 2.8 TIMER / BLUE RP11 / 22-WAY FORD 2.8 TIMER / BLACK	DOOR CASING / TRIM PANEL
DD3 / 13-WAY ECONOSEAL III LC / BLACK	DOOR CASING / TRIM PANEL
RD3 / 6-WAY ECONOSEAL III LC / BLACK	DOOR CASING / TRIM PANEL
PD3 / 13-WAY ECONOSEAL III LC / BLACK	DOOR CASING / TRIM PANEL
RP3 / 6-WAY ECONOSEAL III LC / BLACK	DOOR CASING / TRIM PANEL
DD3 / 13-WAY ECONOSEAL III LC / BLACK	DOOR CASING / TRIM PANEL
DD3 / 13-WAY ECONOSEAL III LC / BLACK	DOOR CASING / TRIM PANEL
RD3 / 6-WAY ECONOSEAL III LC / BLACK	DOOR CASING / TRIM PANEL
PD3 / 13-WAY ECONOSEAL III LC / BLACK	DOOR CASING / TRIM PANEL
RP3 / 6-WAY ECONOSEAL III LC / BLACK	DOOR CASING / TRIM PANEL
BT16 / 2-WAY LABINAL / NATURAL	TRUNK / LH FRONT
FC4 / 8-WAY MULTILOCK 070 / WHITE	STEERING COLUMN
BT33 / 1-WAY COAXIAL CONNECTOR	TOP OF BACKLIGHT
CC13 / 3-WAY MULTILOCK 070 / YELLOW	CENTER CONSOLE ASSEMBLY
BT1 / 16-WAY FORD 2.8 TIMER / BLACK RT2 / 26-WAY FORD IDC / BLACK BT6 / 1-WAY COAXIAL CONNECTOR	BELOW TRUNK FUSE BOX
CA223 / 20-WAY SUMITOMO SPLICE HEADER / BLACK	RH HEELBOARD / HEELBOARD COVER
BT43 / 2-WAY LABINAL / BROWN	BEHIND TRUNK LID LINER
BT42 / 2-WAY MULTILOCK 040 / GREEN	BEHIND TRUNK LID LINER
FC14 / 6-WAY JAE IL-AG5 / GREEN	FASCIA SWITCH PACK
BT41 / 2-WAY AUGAT 1.6 / BLACK	BEHIND TRUNK LID LINER
CC1 / 16-WAY FORD IDC S.U. / BLACK	CENTER CONSOLE SWITCH PACK

Connector / Color

#### Location / Access

LH HEELBOARD RELAYS / HEELBOARD COVER TRUNK RELAYS / TRUNK TRUNK RELAYS / TRUNK

#### ess

TRUNK / REAR BULKHEAD / RH SIDE HARNESS GAITER HARNESS GAITER DOOR HARNESS GAITER DOOR HARNESS GAITER DOOR HARNESS GAITER OR HARNESS GAITER / DOOR HARNESS GAITER / DOOR HARNESS GAITER OR HARNESS GAITER DE AIR VENT / GLOVE BOX ASSEMBLY LE / COIN TRAY

DUCTION VEHICLES)

# REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS,

## BODY PROCESSOR MODULE

$\bigtriangledown$	Pin	Description		Active			Inactive	COMPONENT	ſS		
ļ	FC15-5	TRUNK RELEASE REC	QUEST	GROUND (MOME	NTARY)		B+	Component		Connector /	Type / Color
1	FC15-15 FC15-32	IGNITION SWITCHED		GROUND			B+	BODY PROCESSOR N	MODULE	FC15 / 14-WAY AM	P EEEC / GREY
ļ	FC15-33	IGNITION SWITCHED	GROUND	GROUND			8+ 8+	CENTRAL LOCKING	SWITCH	CC1 / 16-WAY FORI	D IDC S.U. / BLACK
1	FC15-41 FC15-55	STARTER ENGAGE RI VALET REQUEST	EQUEST	GROUND (CRAN			8+ 8-	(CENTER CONS		DD10 / 22-WAY FO	RD 2.8 TIMER / BLUE
1	FC15-58	NOT IN PARK MICRO	SWITCH STATUS	GROUND (PARK)	NEODIT		B+ (NOT IN PARK)	Book ook hoe we		DD11 / 22-WAY FO	RD 2.8 TIMER / BLACK
1	FC15-63 FC15-67	KEY IN IGNITION	REQUEST	GROUND (MOME GROUND (KEY IN	NTARY)		B+ B+ (KEY OUT)	DOOR CONTROL MC	DULE – DRIVER REAR	RD10 / 22-WAY FOI RD11 / 22-WAY FOI	RD 2.8 TIMER / BLUE RD 2.8 TIMER / BLACK
0	FC15-71 FC15-80	DOOR LOCKING RELA		GROUND (PULSE	, )		B+	DOOR CONTROL MC	DULE – PASSENGER	PD10 / 22-WAY FOI	RD 2.8 TIMER / BLUE
s	FC15-84	SCP NETWORK	JLIAGE	B+ 2 - 1600 Hz			B+			PD11 / 22-WAY FO	RD 2.8 TIMER / BLACK
S	FC15-85	SCP NETWORK		2 - 1600 Hz				DOOR CONTROL MC	DULE – PASSENGER REAR	RP10 / 22-WAY FOR RP11 / 22-WAY FOR	RD 2.8 TIMER / BLUE RD 2.8 TIMER / BLACK
וסח								DOOR LOCK ACTUA	TOR – DRIVER	DD3 / 13-WAY ECO	NOSEAL III LC / BLACK
	VER DOOI	R CONTROL MO	DOLE					DOOR LOCK ACTUA	TOR – DRIVER REAR	RD3 / 6-WAY ECON	NOSEAL III LC / BLACK
$\vee$	Pin	Description		Active			Inactive	DOOR LOCK ACTUA	TOR - PASSENGER	PD3 / 13-WAY ECO	
1	DD10-1	BATTERY POWER SU		B+			8+	DOOR LOCK ACTUA	IOR - PASSENGER REAR HES - DRIVER	DD3 / 13-WAY ECO	NOSEAL III LC / BLACK
Ĩ	DD10-8	LOGIC GROUND	CACIDATOR MOTOR UNLOCK	B+ GROUND			GROUND GROUND	DOOR SWITCH - DR	IVER	DD3 / 13-WAY ECO	NOSEAL III LC / BLACK
S	DD10-9 DD10-16	SCP NETWORK		2 - 1600 Hz				DOOR SWITCH - DR	IVER REAR	RD3 / 6-WAY ECON	NOSEAL III LC / BLACK
t	DD10-17	POWER GROUND		2 – 1600 Hz GROUND			GROUND	DOOR SWITCH - PA	SSENGER	PD3 / 13-WAY ECO	NOSEAL III LC / BLACK
I.	DD11-4	DRIVER DOOR LOCK			0		GROUND	DOOR SWITCH - PA	SSENGER REAR	BT16 / 2-WAY LAB	INOL / NATURAL
1	DD11-12	DRIVER DOOR LOCK	BARREL LOCK REQUEST	B+ (MOMENTAR)	() ()		GROUND	IGNITION SWITCH (	KEY-IN SWITCH)	FC4 / 8-WAY MULT	ILOCK 070 / WHITE
,	DD11-20	DRIVER DOOR SWITC	CH	GROUND (DOOR	OPEN)		B+	KEY FOB ANTENNA		BT33 / 1-WAY COA	XIAL CONNECTOR
DRI								NOT-IN-PARK MICRO	DSWITCH	CC13 / 3-WAY MU	LTILOCK 070 / YELLOW
	• EIT NEAN							SECURITY AND LOC	KING CONTROL MODULE	BT1 / 16-WAY FOR BT2 / 26-WAY FOR	RD 2.8 TIMER / BLACK
V.	Pin	Description		Active			Inactive			BT6 / 1-WAY COA	XIAL CONNECTOR
1	RD10-1 RD10-5	BATTERY POWER SU		B+			B+	SPLICE HEADER - C	A223	CA223 / 20-WAY S	UMITOMO SPLIČE HEA
Ĩ	RD10-8	LOGIC GROUND	LOCK ACTORTOR MOTOR UNLOCK	B+ GROUND			GROUND			BT43 / 2-WAY LAB	ITH OCK 040 / GREEN
S	RD10-9 RD10-16	SCP NETWORK		2 - 1600 Hz				TRUNK RELEASE SV	VITCH	FC14 / 6-WAY JAE	IL-AG5 / GREEN
1	RD10-17	POWER GROUND		2 – 1600 Hz GROUND			GROUND	(FASCIA SWITC	CH PACK)		
1	RD10-19	MODULE IDENTIFICA	TION	GROUND			GROUND	TRUNK SWITCH		BT41 / 2-WAY AUG	GAT 1.6 / BLACK
1	RD11-7	MODULE IDENTIFICA	TION	GROUND			GROUND	(CENTER CONS	OLE SWITCH PACK)	CC17 10-WAT 101	ID ID O D.O. / BEADIN
	NDT1-20	DRIVER REAR DOOR S	SWITCH	GROUND (DOOR	OPEN)		B+	·			
PAS	SENGER	DOOR CONTROL						RELAVS			
$\nabla$	Pin	Description								Casa Calar	Connecto
ž	PD10 1	Description		Active			Inactive	Kelay		case color	Connecto
ò	PD10-5	PASSENGER DOOR LO	OCK ACTUATOR MOTOR UNLOCK	B+ 8+			B+ GBOUND	DOOR LOCKING REI		VIOLET	CA50 / VIOLET
S	PD10-8 PD10-9	LOGIC GROUND		GROUND			GROUND	FUEL FILLER FLAP L	JNI OCK BELAY	VIOLET	BT23 / VIOLET
ŝ	PD10-16	SCP NETWORK		2 – 1600 Hz 2 – 1600 Hz							
I	PD10-17	POWER GROUND		GROUND			GROUND				
I	PD11-20	PASSENGER DOOR S	WITCH	GROUND (DOOR	OPEN)		B+	HARNESS-TO	D-HARNESS CONNECTORS		
DAO	051055							Connector	Type / Color	Lo	ocation / Access
FA3	SENGER	REAR DOOR CO	NTROL MODULE					BT4	54-WAY THROUGH PANEL / BLACK	BEL	LOW PARCEL SHELF / T
$\vee$	Pin	Description		Active			Inactive	CA8	20-WAY MULTILOCK 070 / WHITE	DRI	IVER 'A' POST / DOOR F
	RP10-1	BATTERY POWER SUF	PPLY	B+			B+		20-WAY MULTILOCK 070 / WHITE	PAS	SSENGER 'A' POST / DO
ĩ	RP10-5	LOGIC GROUND	DOR LOCK ACTUATOR MOTOR UNLOCK	B+ GBOUND			GROUND	CA11	20-WAY MULTILOCK 070 / WHITE	PAS	SSENGER 'A' POST / DO
s	RP10-9	SCP NETWORK		2 – 1600 Hz				CA12	8-WAY MULTILOCK 070 / YELLOW	PAS	SSENGER 'A' POST / DO
1	RP10-17	POWER GROUND		2 – 1600 Hz GROUND			GROUND	CA14	6 WAY MULTILOCK 070 / WHITE	DRI	IVER 'B/C' POST / DOOF
1	BP11-20			0.100115			_	CA16	6-WAY MULTILOCK 070 / WHITE	PA	SSENGER 'B/C' POST / I
	10 11-20	PASSENGER REAR DU	JOR SWITCH	GROUND (DOOR	OPEN)		B+	CA45 CA46	4-WAY MULTILOCK 070 / WHITE	DRI	IVER 'B/C' POST / DOOR
SEC <sup>1</sup>								FC1	54-WAY THROUGH PANEL CONNECTOR	/ BLACK BEI	LOW PASSENGER SIDE
$\nabla 7$	Din	Dens tests						FC7	20-WAY MULTILOCK 070 / WHITE	AB	OVE DIMMER MODULE
∼ ∩	8T1 1			Active			Inactive				
õ	BT1-2	FUEL FILLER FLAP UNI	UATUR ACTIVATE LOCK RELAY ACTIVATE	B+ (PULSE) B+ (PULSE)			GROUND GROUND	GROUNDS			
s o	BT1-8 BT1-10	SCP NETWORK		2 – 1600 Hz			0001000	0			
ĩ	BT1-13	LOGIC GROUND	UN NELAY AUTIVATE	B+ GROUND			GROUND	Ground	Location / Type		
1	BT1-14 BT1-15	LOGIC GROUND		GROUND			GROUND	BT22L	EYELET (PAIR) - TRUNK / RH CENTER G	ROUND STUD	
s	BT1-16	SCP NETWORK		в+ 2 – 1600 Hz			D+	B128∟ BT34	EYELET (SINGLE) – KEY FOB ANTENNA	GROUND / BACKLIGH	IT / CENTER
1	BT2-3	TRUNK BELEASE BEOL	ILEST				<b>D</b> .	CA30R	EYELET (PAIR) - LH 'A' POST GROUND	SCREW	
1 1	BT2-5	TRUNK SECURITY SWI	ITCH STATUS	GROUND (MOME GROUND (INTRU	SION)		B+ (SECURE)	CA31L	EYELET (PAIR) – RH DRIVE SHAFT TUNN	EL GROUND STUD	
	BT2-19	PASSENGER DOOR LOCK ST	TATUS DCK STATUS					CA33L	EYELET (PAIR) - RH 'A' POST GROUND	SCREW	
,	DTC 1							CA33R	EYELET (PAIR) - RH 'A' POST GROUND	SCREW	
i t	BT6-2	KEY FOB ANTENNA KEY FOB ANTENNA SH	HELD	GROUND			GROUND	CA36L CA36R	EYELET (PAIR) - LH 'A' POST GROUND :	SCREW	
NOT	. Deces -			GROOND				CC3L	EYELET (PAIR) - RH FRONT BULKHEAD	STUD / CABIN SIDE	
NON	E: REFER	IO THE APPEND	DIX AT THE REAR OF THIS BOOK F	OR CAN AND SCP	NETWORK MESSAG	ES.		CC3R	EYELET (PAIR) - RH FRONT BULKHEAD	STUD / CABIN SIDE	
The f	ollowing s	symbols are used	d to represent values for Control Mo	dule Pin Out data:				FC17L	ETELET (FAIR) - EMS BULKHEAD GROU		
l i	nput	ם	Serial and encoded communicati	ions P.	Battery voltage	KHz Frequency	x 1000				
<b>n</b>	Output	Ē	CAN (Network)	D+ V	Voltage (DC)	MS Millissoop	le	CONTROL M	ODULE PIN OUT INFORMAT		JI FAGE
<b>U</b> (					VUILAUE		13				
SG t	Signal Gro	und S	SCP Network	V H7	Frequency	MV Millivolte	13	<b>—</b>			

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

# Fig. 13.2

onnector	Type / Color	Location / Access
4	54-WAY THROUGH PANEL / BLACK	BELOW PARCEL SHELF / TRU
8	20-WAY MULTILOCK 070 / WHITE	DRIVER 'A' POST / DOOR HA
10	8-WAY MULTILOCK 070 / YELLOW	DRIVER 'A' POST / DOOR HA
11	20-WAY MULTILOCK 070 / WHITE	PASSENGER 'A' POST / DOO
11	20-WAY MULTILOCK 070 / WHITE	PASSENGER 'A' POST / DOO
12	8-WAY MULTILOCK 070 / YELLOW	PASSENGER 'A' POST / DOO
14	6 WAY MULTILOCK 070 / WHITE	DRIVER 'B/C' POST / DOOR I
16	6-WAY MULTILOCK 070 / WHITE	PASSENGER 'B/C' POST / DO
45	6-WAY MULTILOCK 070 / WHITE	PASSENGER 'B/C' POST / DO
46	4-WAY MULTILOCK 070 / WHITE	DRIVER 'B/C' POST / DOOR I
1	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW PASSENGER SIDE A
7	20-WAY MULTILOCK 070 / WHITE	ABOVE DIMMER MODULE /

Location / Type
EYELET (PAIR) - TRUNK / RH CENTER GROUND STUD
EYELET (PAIR) TRUNK / RH CENTER GROUND STUD (RH FORWARD EARLY PROD
EYELET (SINGLE) – KEY FOB ANTENNA GROUND / BACKLIGHT / CENTER
EYELET (PAIR) - LH 'A' POST GROUND SCREW
EYELET (PAIR) – RH DRIVE SHAFT TUNNEL GROUND STUD
EYELET (PAIR) – RH 'A' POST GROUND SCREW
EYELET (PAIR) – RH 'A' POST GROUND SCREW
EYELET (PAIR) ~ LH 'A' POST GROUND SCREW
EYELET (PAIR) LH 'A' POST GROUND SCREW
EYELET (PAIR) – RH FRONT BULKHEAD STUD / CABIN SIDE
EYELET (PAIR) – RH FRONT BULKHEAD STUD / CABIN SIDE
EYELET (PAIR) EMS BULKHEAD GROUND STUD

#### AGE)

DATE OF ISSUE: SEPTEMBER 1997

I	Location / Access
E	BULKHEAD / BEHIND GLOVE BOX CENTER CONSOLE SWITCH PACK
0	DOOR CASING / TRIM PANEL
c	DOOR CASING / TRIM PANEL
Ţ	DOOR CASING / TRIM PANEL
[	DOOR CASING / TRIM PANEL
τ	DOOR CASING / TRIM PANEL
1	DOOR CASING / TRIM PANEL
1	DOOR CASING / TRIM PANEL
1	DOOR CASING / TRIM PANEL
į,	DOOR CASING / TRIM PANEL
I	DOOR CASING / TRIM PANEL
į,	DOOR CASING / TRIM PANEL
	DOOR CASING / TRIM PANEL
	DOOR CASING / TRIM PANEL
	TRUNK / LH FRONT
	STEERING COLUMN
	TOP OF BACKLIGHT
	CENTER CONSOLE ASSEMBLY
	BELOW TRUNK FUSE BOX
	RH HEELBOARD / HEELBOARD COVER
	BEHIND TRUNK LID LINER

OMO SPLICE HEADER / BLACK

BEHIND TRUNK LID LINER FASCIA SWITCH PACK

BEHIND TRUNK LID LINER CENTER CONSOLE SWITCH PACK

Connector / Color

#### Location / Access

LH HEELBOARD RELAYS / HEELBOARD COVER TRUNK RELAYS / TRUNK TRUNK RELAYS / TRUNK

TRUNK / REAR BULKHEAD / RH SIDE HARNESS GAITER HARNESS GAITER OOR HARNESS GAITER OOR HARNESS GAITER OOR HARNESS GAITER R HARNESS GAITER DOOR HARNESS GAITER DOOR HARNESS GAITER R HARNESS GAITER AIR VENT / GLOVE BOX ASSEMBLY / COIN TRAY

DUCTION VEHICLES)

#### BODY PROCESSOR MODULE

$\bigtriangledown$	Pin	Description
1	FC15-6	WASHER FLUID LEVEL SENSOR
1	FC15-9	VARIABLE INTERMITTENT WIPE REQUEST
1	FC15-15	IGNITION SWITCHED GROUND
[	FC15-16	SIDE LAMP REQUEST
0	FC15-18	POWER WASH RELAY ACTIVATE
0	FC15-19	WIPER FAST / SLOW RELAY ACTIVATE
0	FC15-26	WINSHIELD WASHER PUMP ACTIVATE
1	FC15 34	FAST WIPE SPEED REQUEST
1	FC15-37	PROGRAMMED WASH REQUEST
0	FC15-43	WIPER RUN / STOP RELAY ACTIVATE
1	FC15-60	WIPER MOTOR PARK SWITCH STATUS
1	FC15-80	BATTERY SUPPLY VOLTAGE
1	FC15-94	SLOW / FLICK WIPE REQUEST
I	FC15-104	BATTERY SUPPLY VOLTAGE

GROUND (FULL)
GROUND
GROUND
GROUND
GROUND (FAST)
B+
GROUND
GROUND (MOMENTARY)
GROUND
GROUND (PARKED)
B+
GROUND
B+

Active

Fig. 14.1

Inactive B+ (EMPTY)

B÷

B+ B+ B+ (SLOW) GROUND

B+

R+

B+

B+

B+

B+

B+ (NOT PARKED)

COMPONEN	TS		
Component		Connecto	r / Type / Color
BODY PROCESSOR	MODULE	FC15 / 14-WAY	AMP EEEC / GREY
FUSE BOX - ENGIN	ECOMPARTMENT	LS5 / 10-WAY   LS6 / 10-WAY   LS7 / 10-WAY   LS8 / 10-WAY   ST19 / EYELET	J.T.A. FUSE BOX / NATURAL J.T.A. FUSE BOX / BLACK J.T.A. FUSE BOX / GREEN J.T.A. FUSE BOX / BLUE
LIGHTING STALK (C	OLUMN SWITCHGEAR)	SC2 / 10-WAY	MULTILOCK 070 / YELLOW
POWER WASH PUM	P	LS43 / 2-WAY	REINSHAGEN / VOLKSWAGE
WASH / WIPE STALI	(COLUMN SWITCHGEAR)	SC1 / 12-WAY	MULTILOCK 070 / WHITE
WINDSHIELD WASH	PUMP AND FLUID LEVEL SENSOR	LS44 / 3-WAY .	AUGAT 1.6 / BLACK
WIPER MOTOR		EM33 / 4-WAY	AUGAT 1.6 / BLACK
RELAYS			
Relay		Case Color	Connector
WIPER RUN / STOP	RELAY	BLACK	LS11 / BLACK
WIPER FAST / SLOW	/ RELAY	BLACK	LS11 / BLACK
POWERWASH RELA	Y	BROWN	BUS
HARNESS-T	D-HARNESS CONNECTOR	S	
Connector	Type / Color		Location / Access
EM3	14-WAY MULTILOCK 070 / WHITE		PASSENGER 'A' POST / LOW
EM51	12-WAY AUGAT 1.6 / GREY		ENGINE COMPARTMENT / AL
FC5	54-WAY THROUGH PANEL CONNEC	TOR / BLACK	BELOW DRIVER SIDE AIR VEN
LS3	54-WAY THROUGH PANEL CONNEC	TOR / BLACK	LH 'A' POST / LOWER 'A' POS
GROUNDS			
Ground	Location / Type		
EM17	EYELET (SINGLE) – EMS BULKHEAD	GROUND STUD	
FC17R	EYELET (PAIR) – EMS BULKHEAD G	ROUND STUD	
LS18R	EYELET (PAIR) – LH FORWARD GRO	UND STUD	

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)

EYELET (PAIR) - RH FORWARD GROUND STUD



LS19L

The following symbols are used to represent values for Control Module Pin Out data:

- Input
- O Output
- SG Signal Ground
- С

D

- CAN (Network)
- S SCP Network

Serial and encoded communications

V Voltage (DC) Hz Frequency

B+ Battery voltage

- KHz Frequency x 1000 MV Millivolts

MS Milliseconds

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

#### Location / Access

BULKHEAD / BEHIND GLOVE BOX ENGINE COMPARTMENT / LH FRONT

AGEN / BLACK

COLUMN SWITCHGEAR HARNESS / ADJACENT TO STEERING COLUMN MOTOR RIGHT FRONT QUARTER PANEL / WASHER FLUID CONTAINER COLUMN SWITCHGEAR HARNESS / ADJACENT TO STEERING COLUMN MOTOR RIGHT FRONT QUARTER PANEL / WASHER FLUID CONTAINER ENGINE COMPARTMENT / BULKHEAD

#### tor / Color

#### Location / Access

ENGINE COMPARTMENT FRONT RELAYS / ENGINE COMPARTMENT ENGINE COMPARTMENT FRONT RELAYS / ENGINE COMPARTMENT RELAY #4, ENGINE COMPARTMENT FUSE BOX / ENGINE COMPARTMENT

#### SS

OWER 'A' POST FINISHER / ADJACENT TO ABS PUMP R VENT / COIN TRAY POST FINISHER

#### BODY PROCESSOR MODULE

$\bigtriangledown$	Pin	Description	Active	Inactive	COMPONENT	S	
Ţ	FC15-15	IGNITION SWITCHED GROUND	GROUND	B+	Component		Connector / Type / C
1	FC15-33	STARTER ENGAGE REQUEST	GROUND GROUND (CRANKING)	8+ 8+	BODY PROCESSOR N	IODULE	FC15 / 14-WAY AMP EEEC / GREY
õ	FC15-46 FC15-47	DRIVER DOOR – SLIDING ROOF GLOBAL CLOSE REQUEST CENTRAL LOCKING SWITCH – SLIDING ROOF GLOBAL OPEN REQUEST	GROUND (MOMENTARY) GROUND (MOMENTARY)	8+ B+	CENTRAL LOCKING S		CC1 / 16-WAY FORD IDC S.U. / BL
	FC15-63 FC15-80	CENTRAL LOCKING REQUEST BATTERY SUPPLY VOLTAGE	GROUND (MOMENTARY) B+	8+ 8+	DOOR CONTROL MO	DULE - DRIVER	DD10 / 22-WAY FORD 2.8 TIMER ,
S S	FC15-84 FC15-85	SCP NETWORK SCP NETWORK	2 - 1600 Hz 2 - 1800 Hz				DD11 / 22-WAY FORD 2.8 TIMER
1	FC15-89	REAR WINDOW INHIBIT REQUEST	GROUND	B÷	DOOR CONTROL MO	DULE – DRIVER REAR	RD10 / 22-WAY FORD 2.8 TIMER , RD11 / 22-WAY FORD 2.8 TIMER ,
DRI	VER DOOF	R CONTROL MODULE			DOOR CONTROL MO	DULE – PASSENGER	PD10 / 22-WAY FORD 2.8 TIMER /
$\overline{\nabla}$	Pin	Description	Active	Inactive	DOOR CONTROL MO		PD11 / 22-WAY FORD 2.8 TIMER ; RP10 / 22-WAY FORD 2.8 TIMER ;
l.	DD10-1	BATTERY POWER SUPPLY	B+	B+	Doon contribe mo	DOLL - LAGENGLINICAN	RP11 / 22-WAY FORD 2.8 TIMER /
0	DD10-7 DD10-8	WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND	B+ GROUND		DOOR LOCK SWITCH	ES - DRIVER	DD3 / 13-WAY ECONOSEAL III LO
S I	DD10-9 DD10-10	SCP NETWORK DRIVER DOOR SWITCH PACK DRIVER WINDOW DOWN BEQUEST	2 - 1600 Hz GROUND (MOMENTARY)	B+	INSTRUMENT PACK		FC24 / 48-WAY AMP MODULE PC FC25 / 24-WAY AMP MODULE PC
0 S	DD10-15 DD10-16	DRIVER DOOR WINDOW LIFT MOTOR UP SUPPLY	B+ 2 1600 Hz	GROUND	KEY FOB ANTENNA		BT33 / 1-WAY COAXIAL CONNEC
l	DD10-17 DD10-18	POWER GROUND DRIVER DOOR SWITCH PACK DRIVER WINDOW UP REQUEST	GROUND	GROUND	REAR WINDOW INHI	BIT SWITCH SWITCH BACK)	DD1 / 26-WAY MQS-26 / YELLOW
i	DD10-19	DRIVER DOOR SWITCH PACK PASSENGER WINDOW UP REQUEST	GROUND (MOMENTARY)	GROUND	SECURITY AND LOCK	KING CONTROL MODULE	BT1 / 16-WAY FORD 2.8 TIMER /
ł	DD11-4	DRIVER DOOR LOCK BARREL UNLOCK REQUEST	B+ (MOMENTARY)	GROUND			BT2 / 26-WAY FORD IDC / BLACK BT6 / 1-WAY COAXIAL CONNECT
l	DD11-7	DRIVER DOOR SWITCH PACK PASSENGER REAR WINDOW OP REDUEST DRIVER DOOR SWITCH PACK PASSENGER WINDOW DOWN REQUEST	B+ (MOMENTARY) B+ (MOMENTARY)	GROUND	SLIDING ROOF CONT	IROL MODULE	CA64 / 6-WAY MULTILOCK 070 /
ļ	DD11-12	DRIVER DOOR LOCK BARREL LOCK REQUEST DRIVER DOOR SWITCH PACK DRIVER REAR WINDOW DOWN REQUEST	B+ (MOMENTARY) GROUND (MOMENTARY)	B+	SLIDING ROOF MOT	DR	SR2 / 3-WAY MULTILOCK 070 / V
1	DD11-21 DD11-22	DRIVER DOOR SWITCH PACK PASSENGER REAR WINDOW DOWN REQUEST DRIVER DOOR SWITCH PACK DRIVER REAR WINDOW UP REQUEST	B+ (MOMENTARY) GROUND (MOMENTARY)	GROUND GROUND	SLIDING ROOF SWIT	CH E)	CA53 / 8-WAY MULTILOCK 040 /
DRI	VFR RFAR				SWITCH PACK - DRIV	/ER REAR DOOR	RD1 / 5-WAY LAG / GREEN
57	Di-	Descirce MODULE		• .•	SWITCH PACK - PAS	SENGER DOOR	PD1 / 26-WAY MQS-26 / YELLOW
,		Description	Active	Inactive	SWITCH PACK - PAS	SENGER REAR DOOR	RP1 / 5-WAY LAG / GREEN
ò	RD10-1 RD10-7	BATTERY POWER SUPPLY DRIVER REAR WINDOW LIFT MOTOR DOWN SUPPLY	8+ 8+	B+ GROUND	WINDOW LIFT MOTO	DR – DRIVER DB – DRIVER BEAR	BD16 / 2-WAY ECONOSEAL III LC BD16 / 2-WAY ECONOSEAL III LC
ŝ	RD10-8 RD10-9	LOGIC GROUND SCP NETWORK	GROUND 2 - 1600 Hz	GROUND	WINDOW LIFT MOTO	DR – PASSENGER	PD16 / 2-WAY ECONOSEAL III LO
o S	RD10-15 RD10-16	DRIVER REAR WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK	B+ 2 - 1600 Hz	GROUND	WINDOW LIFT MOTO	DR – PASSENGER REAR	RP16 / 2-WAY ECONOSEAL III LC
1	RD10-17 RD10-19	POWER GROUND MODULE IDENTIFICATION	GROUND	GROUND	WINDOW LIFT SWIT		DD1 / 26-WAY MQS-26 / YELLOW
1	BD11-6	DRIVER BEAR DOOR SWITCH PACK WINDOW UP BEQUEST		GBOUND	(briver book		
Ì	RD11-7 RD11-21	MODULE IDENTIFICATION	GROUND (MOMENTARY)	GROUND			
			B+ (MOMENTARY)	GROOND	HARNESS-TC	-HARNESS CONNECTORS	
PAS	SENGER	DOUR CUNTROL MODULE			Connector	Type / Color	Location / /
$\vee$	Pin	Description	Active	Inactive	CA8	20-WAY MULTILOCK 070 / WHITE	DRIVER 'A' POST
0	PD10-1 PD10-7	BATTERY POWER SUPPLY PASSENGER WINDOW LIFT MOTOR DOWN SUPPLY	B+ B⊥	B+ GROUND	CA10	8-WAY MULTILOCK 070 / YELLOW	DRIVER 'A' POST
l S	PD10-8 PD10-9	LOGIC GROUND SCP NETWORK	GROUND	GROUND	CA11 CA12	20-WAY MULTLOCK 070 / WHITE 8-WAY MULTLOCK 070 / YELLOW	PASSENGER 'A' P PASSENGER 'A' P
0 S	PD10-15 PD10-16	PASSENGER WINDOW LIFT MOTOR UP SUPPLY	8+ 2 1600 Hz	GROUND	CA12 CA14	6-WAY MULTILOCK 070 / WHITE	DRIVER 'B/C' POS
ī	PD10-17	POWER GROUND	GROUND	GROUND	CA16	6-WAY MULTILOCK 070 / WHITE	PASSENGER 'B/C'
L	PD11-6	PASSENGER DOOR SWITCH PACK WINDOW UP REQUEST	GROUND (MOMENTARY)	GROUND	FC5	54-WAY THROUGH PANEL CONNECTO	R / BLACK BELOW DRIVER S
	PD11-21	PASSENGER DOOR SWITCH PACK WINDOW DOWN REQUEST	B+ (MOMENTARY)	GROUND	FC7	20-WAY MULTILOCK 070 / WHITE	ABOVE DIMMER I
PAS	SENGER I	REAR DOOR CONTROL MODULE					
$\vee$	Pin	Description	Active	Inactive	GROUNDS		
1	RP10-1 BP10-7	BATTERY POWER SUPPLY PASSENGER REAR WINDOW LIFE MOTOR DOWN SUPPLY	B+	B+ GROUND	Ground	Location / Type	
Ĩ	RP10-8	LOGIC GROUND	GROUND	GROUND	BT22L	EYELET (PAIR) - TRUNK / RH CENTER (	ROUND STUD
ŏ	RP10-15	PASSENGER REAR WINDOW LIFT MOTOR UP SUPPLY	2 – 1600 Hz B+	GROUND	BT34	EYELET (SINGLE) - KEY FOB ANTENNA	GROUND / BACKLIGHT / CENTER
1	RP10-16 RP10-17	POWER GROUND	2 – 1600 Hz GROUND	GROUND	CA30L	EYELET (PAIR) - LH 'A' POST GROUND	SCREW
i	RP11-6	PASSENGER REAR DOOR SWITCH PACK WINDOW UP REQUEST	GROUND (MOMENTARY)	GROUND	CA30R	EYELET (PAIR) – LH 'A' POST GROUND EYELET (PAIR) – RH 'A' POST GROUND	SCREW
I	RP11-21	PASSENGER REAR DOOR SWITCH PACK WINDOW DOWN REQUEST	B+ (MOMENTARY)	GROUND	CA33R	EYELET (PAIR) - RH 'A' POST GROUND	SCREW
SEC	URITY AN	D LOCKING CONTROL MODULE			CA36L	EYELET (PAIR) – LH 'A' POST GROUND	SCREW
$\bigtriangledown$	Pin	Description	Active	Inactive	CC3R	EYELET (PAIR) – RH FRONT BULKHEAD	STUD / CABIN SIDE
s	BT1-8	SCP NETWORK	2 – 1600 Hz				
-	BT1-13 BT1-14	LOGIC GROUND LOGIC GROUND	GROUND GROUND	GROUND GROUND	CONTROL M	DDULE PIN OUT INFORMAT	ION (FOLD OUT PAGE)
l S	BT1-15 BT1-16	BATTERY POWER SUPPLY SCP NETWORK	B+ 2 - 1600 Hz	B+			
ı	BT6-1	KEY FOB ANTENNA					
I	BT6-2	KEY FOB ANTENNA SHIELD	GROUND	GROUND			
SLIE	DING ROO	F CONTROL MODULE					
$\bigtriangledown$	Pin	Description	Active	Inactive			
1	CA64-1	BATTERY SUPPLY	B+	B+			
I.	CA64-2 CA64-3	CENTRAL LOCKING SWITCH – SLIDING ROOF GLOBAL CLOSE REQUEST GROUND SUPPLY	GROUND (MOMENTARY) GROUND (MOMENTARY)	B+ GROUND			
1	CA64-4 CA64-5	DRIVER DOOR – SLIDING ROOF GLOBAL CLOSE REQUEST SLIDING ROOF SWITCH OPEN REQUEST	GROUND GROUND (MOMENTARY)	8+ 8+			
I	CA64-6	SLIDING ROOF SWITCH CLOSE REQUEST	GROUND (MOMENTARY)	B+			
0	SR2-1 SR2-3	SLIDING ROOF MOTOR SUPPLY	B+	GROUND			
<u> </u>	0.12-0		D+	GRUUND			
NOT	E: REFER	TO THE APPENDIX AT THE REAR OF THIS BOOK FOR	CAN AND SCP NETWORK MESSAGE	ES.			
The	following s	symbols are used to represent values for Control Module	e Pin Out data:				
_							

1	Input	D	Serial and encoded communications	B+	Battery voltage	KHz	Frequency x 1000
0	Output	С	CAN (Network)	v	Voltage (DC)	MS	Milliseconds
SG	Signal Ground	S	SCP Network	Hz	Frequency	MV	Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

Fig. 15.1

Location / Access
BULKHEAD / BEHIND GLOVE BOX
CENTER CONSOLE SWITCH PACK
DOOR CASING / TRIM PANEL
FASCIA
TOP OF BACKLIGHT
DOOR TRIM PANEL
BELOW TRUNK FUSE BOX
ROOF CONSOLE
ROOF CONSOLE
ROOF CONSOLE
DOOR TRIM PANEL
DOOR TRIM PANEL
DOOR TRIM PANEL
DOOR CASING / TRIM PANEL
DOOR CASING / TRIM PANEL
DOOR CASING / TRIM PANEL
DOOR CASING / TRIM PANEL
DOOR TRIM PANEL

#### Location / Access

DRIVER 'A' POST / DOOR HARNESS GAITER DRIVER 'A' POST / DOOR HARNESS GAITER PASSENGER 'A' POST / DOOR HARNESS GAITER PASSENGER 'A' POST / DOOR HARNESS GAITER DRIVER 'B/C' POST / DOOR HARNESS GAITER PASSENGER 'B/C' POST / DOOR HARNESS GAITER BELOW DRIVER SIDE AIR VENT / COIN TRAY ABOVE DIMMER MODULE / COIN TRAY

# REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS,

#### BODY PROCESSOR MODULE

$\sim$	Pin	Description	Active	Inactive	COMPONENTS
	FC15-15 FC15-33	IGNITION SWITCHED GROUND IGNITION SWITCHED GROUND	GROUND	8+ P	Component
0	FC15-41 FC15-46	STARTER ENGAGE REQUEST DRIVER DOOR – SLIDING ROOF GLOBAL CLOSE REQUEST	GROUND (CRANKING) GROUND (MOMENTARY)	8+ 8-	BODY PROCESSOR MODULE
1	FC15-47 FC15-63	CENTRAL LOCKING SWITCH – SLIDING ROOF GLOBAL OPEN REQUEST CENTRAL LOCKING REQUEST	GROUND (MOMENTARY) GROUND (MOMENTARY)	8+ B+	CENTRAL LOCKING SWITCH (CENTER CONSOLE SWITCH PACK)
Ś	FC15-84 FC15-85	SCP NETWORK	B+ 2 - 1600 Hz	B+	DOOR CONTROL MODULE - DRIVER
Ī	FC15-89	REAR WINDOW INHIBIT REQUEST	2 ~ 1600 Hz GROUND	B+	DOOR CONTROL MODULE - DRIVER REAR
		R CONTROL MODULE			DOOR CONTROL MODULE - PASSENGER
	PIN DD10-1		Active	Inactive	DOOR CONTROL MODULE – PASSENGER REAR
0	DD10-7 DD10-8	WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND	B+ CROUND		DOOR LOCK SWITCHES - DRIVER
S I	DD10-9 DD10-10	SCP NETWORK DRIVER DOOR SWITCH PACK DRIVER WINDOW DOWN REQUEST	2 – 1600 Hz GROUND (MOMENTARY)	GROUND B±	INSTRUMENT PACK
ş	DD10-15 DD10-16 DD10-17	DRIVER DOOR WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK	B+ 2 - 1600 Hz	GROUND	KEY FOB ANTENNA
İ	DD10-18 DD10-19	DRIVER DOOR SWITCH PACK DRIVER WINDOW UP REQUEST DRIVER DOOR SWITCH PACK PASSENGER WINDOW UP REQUEST	GROUND GROUND (MOMENTARY) GROUND (MOMENTARY)	GROUND	
1	DD11-4	DRIVER DOOR LOCK BARREL UNLOCK REQUEST	GROUND (MOMENTARY) B- (MOMENTARY)	GROUND	SECURITY AND LOCKING CONTROL MODULE
	DD11-6 DD11-7	DRIVER DOOR SWITCH PACK PASSENGER REAR WINDOW UP REQUEST DRIVER DOOR SWITCH PACK PASSENGER WINDOW DOWN REQUEST	GROUND (MOMENTARY) B+ (MOMENTARY)	GROUND GROUND	
Í	DD11-12 DD11-15 DD11-21	DRIVER DOOR LOCK BARREL LOCK REQUEST DRIVER DOOR SWITCH PACK DRIVER REAR WINDOW DOWN REQUEST DRIVER DOOR SWITCH PACK PACK PRESENCER READ WINDOW DOWN REQUEST	B+ (MOMENTARY) GROUND (MOMENTARY)	GROUND B+	SLIDING ROOF CONTROL MODULE
i	DD11-22	DRIVER DOOR SWITCH PACK DRIVER REAR WINDOW UP REQUEST	B+ (MOMENTARY) GROUND (MOMENTARY)	GROUND GROUND	SLIDING ROOF MOTOR SLIDING ROOF SWITCH
DF	RIVER REAF	R DOOR CONTROL MODULE			(ROOF CONSOLE)
$\nabla$	Pin	Description	Active	Inactivo	SWITCH PACK – DRIVER REAR DOOR SWITCH PACK – PASSENGER DOOR
Ļ	RD10-1	BATTERY POWER SUPPLY	B+	B+	SWITCH PACK - PASSENGER REAR DOOR
i S	RD10-7 RD10-8 RD10-9	DRIVER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCR NETWORK	B+ GROUND	GROUND GROUND	WINDOW LIFT MOTOR - DRIVER
Ö S	RD10-15 RD10-16	DRIVER REAR WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK	2 – 1600 Hz B+ 2 – 1600 Hz	GROUND	WINDOW LIFT MOTOR - PASSENGER
	RD10-17 RD10-19	POWER GROUND MODULE IDENTIFICATION	GROUND	GROUND	WINDOW LIFT MOTOR - PASSENGER REAR
- [	RD11-6 RD11-7	DRIVER REAR DOOR SWITCH PACK WINDOW UP REQUEST	GROUND (MOMENTARY)	GROUND	(DRIVER DOOR SWITCH PACK)
i	RD11-21	DRIVER REAR DOOR SWITCH PACK WINDOW DOWN REQUEST	GROUND B+ (MOMENTARY)	GROUND GROUND	
PA	SSENGER	DOOR CONTROL MODULE			HARNESS-TO-HARNESS CON
$\bigtriangledown$	Pin	Description	Active	Inactive	Connector Type / Color
√	PD10-1 PD10-7 PD10-7	Description BATTERY POWER SUPPLY PASSENGER WINDOW LIFT MOTOR DOWN SUPPLY	Active		Connector Type / Color CA8 20 WAY MULTILOCK 07
> -0-∞0	Pin PD10-1 PD10-7 PD10-8 PD10-9 PD10-15	Description BATTERY POWER SLIPPLY PASSENCER WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCP NETWORK PASSENCER MINIOCAL LIFT MOTOR LIP CLIPPUM	Active B+ B+ GROUND 2 - 1600 Hz	Inactive B+ GROUND GROUND	Connector         Type / Color           CA8         20 WAY MULTILOCK 07           CA10         8-WAY MULTILOCK 07           CA11         20 WAY MULTILOCK 07
> -0-sos-	Pin PD10-1 PD10-7 PD10-8 PD10-9 PD10-15 PD10-15 PD10-16 PD10-17	Description BATTERY POWER SLIPPLY PASSENCER WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCP NETWORK PASSENCER WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK POWER GROUND	Active B+ GROUND 2 - 1600 Hz B+ 2 - 1000 Hz	Inactive B+ GROUND GROUND GROUND	Connector         Type / Color           CA8         20 WAY MULTILOCK 07           CA10         8-WAY MULTILOCK 07           CA11         20-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 07
> -0-∞0∞	PD10-1 PD10-7 PD10-7 PD10-8 PD10-9 PD10-15 PD10-16 PD10-17 PD11-6	Description BATTERY POWER SUPPLY PASSENCER WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCP NETWORK PASSENCER WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK POWER GROUND PASSENGER DOOR SWITCH PACK WINDOW UP REQUEST	Active B+ GROUND 2 + 1600 Hz B+ 2 + 1600 Hz GROUND GROUND (MOMENTARY)	Inactive B+ GROUND GROUND GROUND GROUND	Connector         Type / Color           CA8         20.WAY MULTILOCK 07           CA10         8-WAY MULTILOCK 07           CA11         20-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 07           CA14         6-WAY MULTILOCK 07           CA16         6-WAY MULTILOCK 07
-0-000	Pin PD10-1 PD10-7 PD10-8 PD10-8 PD10-15 PD10-15 PD10-16 PD10-17 PD11-6 PD11-21	Description BATTERY POWER SLIPPLY PASSENCER WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCP NETWORK PASSENCER WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK POWER GROUND PASSENGER DOOR SWITCH PACK WINDOW UP REQUEST PASSENGER DOOR SWITCH PACK WINDOW DOWN REQUEST	Active B+ B+ GROUND 2 + 1600 Hz B+ 2 - 1600 Hz GROUND (MOMENTARY) B+ (MOMENTARY)	Inactive B+ GROUND GROUND GROUND GROUND GROUND GROUND	Connector         Type / Color           CA8         20 WAY MULTILOCK 07           CA10         8-WAY MULTILOCK 07           CA11         20-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 07           CA14         6-WAY MULTILOCK 07           CA16         6-WAY MULTILOCK 07           CA16         6-WAY MULTILOCK 07
> -0-s0s- 	Pin PD10-1 PD10-7 PD10-8 PD10-8 PD10-8 PD10-15 PD10-15 PD10-16 PD10-17 PD11-6 PD11-21 SSENGER	Description BATTERY POWER SUPPLY PASSENCER WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCF NETWORK PASSENCER WINDOW LIFT MOTOR UP SUPPLY SCF NETWORK POWER GROUND PASSENGER DOOR SWITCH PACK WINDOW UP REQUEST PASSENGER DOOR SWITCH PACK WINDOW DOWN REQUEST REAR DOOR CONTROL MODULE	Active B+ GROUND 2 + 1600 Hz B+ 2 + 1600 Hz GROUND (MOMENTARY) B+ (MOMENTARY)	Inactive B+ GROUND GROUND GROUND GROUND GROUND	Connector         Type / Color           CA8         20 WAY MULTILOCK 07           CA10         8-WAY MULTILOCK 07           CA11         20-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 070           CA14         6-WAY MULTILOCK 070           CA16         6-WAY MULTILOCK 070           CA16         6-WAY MULTILOCK 070           CA16         6-WAY MULTILOCK 070           FC1         54-WAY THROUGH PAN           FC5         54-WAY THROUGH PAN
→ -0-s0s- → PA	Pin P010-1 P010-7 P010-7 P010-7 P010-7 P010-7 P010-9 P010-16 P010-16 P011-21 SSENGER 1 Pin	Description BATTERY POWER SUPPLY PASSENCE (GROUND SCP NETWORK INDOW LIFT MOTOR DOWN SUPPLY SCP NETWORK SCP NETWORK INDOW LIFT MOTOR UP SUPPLY SCP NETWORK INDOW NETWORK INDOW DE SUPPLY SCP NETWORK INDOW DOWN REQUEST REAR DOOR CONTROL MODULE Description	Active B+ B+ GROUND 2 + 1600 Hz B+ 2 + 1600 Hz GROUND GROUND (MOMENTARY) B+ (MOMENTARY) Active	Inactive B+ GROUND GROUND GROUND GROUND GROUND Inactive	Connector         Type / Color           CA8         20 WAY MULTILOCK 07           CA10         8-WAY MULTILOCK 07           CA11         20-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 07           CA14         6-WAY MULTILOCK 07           CA16         6-WAY MULTILOCK 07           CA16         6-WAY MULTILOCK 07           FC1         54-WAY MULTILOCK 07           FC5         54-WAY THROUGH PAN           FC7         20-WAY MULTILOCK 07
	Pin P010-1 P010-7 P010-7 P010-8 P010-9 P010-16 P010-16 P011-21 SSENGER 1 Pin RP10-1 RP10-1 RP10-7	Description BATTERY POWER SUPPLY PASSENGER POOR SWITCH PACK WINDOW UP SUPPLY SCP NETWORK POWER GROUND PASSENGER UNDOW SWITCH PACK WINDOW UP REQUEST PASSENGER DOOR SWITCH PACK WINDOW DOWN REQUEST REAR DOOR CONTROL MODULE Description BATTERY POWER SUPPLY PASSENGER PEAR WINDOW LET MOTOR DOWN SUPPLY	Active B+ B+ GROUND 2 - 1600 Hz 2 - 1600 Hz GROUND GROUND GROUND GROUND (MOMENTARY) B+ (MOMENTARY) Active B+	Inactive B+ GROUND GROUND GROUND GROUND GROUND Inactive	ConnectorType / ColorCA820 WAY MULTILOCK 07CA108-WAY MULTILOCK 07CA1120-WAY MULTILOCK 07CA128-WAY MULTILOCK 07CA146-WAY MULTILOCK 07CA166-WAY MULTILOCK 07FC154-WAY MULTILOCK 07FC554-WAY THROUGH PANFC554-WAY THROUGH PANFC720-WAY MULTILOCK 07
	Pin PD10-1 PD10-7 PD10-8 PD10-15 PD10-15 PD10-16 PD10-17 PD11-6 PD11-21 SSENGER { Pin RP10-1 RP10-7 RP10-8 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10	Description BATTERY POWER SUIPPLY PASSENCER WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCP NETWORK PASSENCER WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK PASSENCER DOOR SWITCH PACK WINDOW UP REQUEST PASSENCER DOOR SWITCH PACK WINDOW DOWN REQUEST PASSENCER DOOR SWITCH PACK WINDOW DOWN REQUEST <b>REAR DOOR CONTROL MODULE</b> Description BATTERY POWER SUPPLY PASSENCER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCP NETWORK	Active B+ B+ GROUND 2 - 1600 Hz + 2 - 1800 Hz GROUND (MOMENTARY) B+ (MOMENTARY) B+ (MOMENTARY) B+ B+ B+ B+ B+ B+ B+ B+ B+ B+	Inactive B+ GROUND GROUND GROUND GROUND GROUND Hactive B+ GROUND GROUND	ConnectorType / ColorCA820 WAY MULTILOCK 07CA108-WAY MULTILOCK 070CA1120-WAY MULTILOCK 070CA128-WAY MULTILOCK 070CA146-WAY MULTILOCK 070CA166-WAY MULTILOCK 070FC154-WAY THROUGH PANFC554-WAY THROUGH PANFC720-WAY MULTILOCK 070GROUNDS
> -o-wow PA > -o-wow-	Pin PD10-1 PD10-7 PD10-8 PD10-15 PD10-15 PD10-16 PD10-17 PD11-6 PD11-21 SSENGER 1 Pin RP10-1 RP10-1 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-16 RP10-16 RP10-17 RP10-16 RP10-17 RP10-16 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 PD11-15 PD11-15 PD11-15 PD11-15 PD11-15 PD11-15 PD11-15 PD11-15 PD11-15 PD11-15 PD11-15 PD11-15 PD11-15 PD11-15 PD11-15 PD11-15 PD11-16 PD11-17 PD11-16 PD11-17 PD11-16 PD11-17 PD11-16 PD11-17 PD11-16 PD11-17 PD11-16 PD11-17 PD11-16 PD11-17 PD11-16 PD11-17 PD11-16 PD11-17 PD11-16 PD11-17 PD11-16 PD11-17 PD11-17 PD11-17 PD11-16 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD11-17 PD	Description BATTERY POWER SUIPPLY PASSENCER WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCP NETWORK PASSENCER WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK POWER GROUND PASSENCER DOOR SWITCH PACK WINDOW UP REQUEST PASSENCER DOOR SWITCH PACK WINDOW DOWN REQUEST <b>REAR DOOR CONTROL MODULE</b> Description BATTERY POWER SUPPLY PASSENCER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCP NETWORK SCP NETWORK SCP NETWORK PASSENCER REAR WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK SCP	Active B+ B+ GROUND 2 - 1600 Hz B+ 2 - 1600 Hz GROUND (MOMENTARY) B+ (MOMENTARY) B+ B+ B+ B+ B+ B+ B+ B+ B+ B+	Inactive B+ GROUND GROUND GROUND GROUND GROUND Inactive B+ GROUND GROUND GROUND	ConnectorType / ColorCA820 WAY MULTILOCK 07CA108-WAY MULTILOCK 07CA1120-WAY MULTILOCK 07CA128-WAY MULTILOCK 07CA146-WAY MULTILOCK 07CA166-WAY MULTILOCK 07CA1654-WAY MULTILOCK 07FC154-WAY THROUGH PANFC554-WAY THROUGH PANFC720-WAY MULTILOCK 07GROUNDSGroundLocation / Type
<b>ΡΑ</b> -ο-ωοω <b>ΡΑ</b>	Pin PD10-1 PD10-7 PD10-8 PD10-15 PD10-15 PD10-16 PD10-17 PD11-21 SSENGER I Pin RP10-1 RP10-7 RP10-8 RP10-9 RP10-9 RP10-15 RP10-9 RP10-15 RP10-15 RP10-15 RP10-15 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17	Description BATTERY POWER SLIPPLY PASSENCER WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCP NETWORK PASSENCER WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK POWER GROUND PASSENGER DOOR SWITCH PACK WINDOW UP REQUEST PASSENGER DOOR SWITCH PACK WINDOW DOWN REQUEST <b>REAR DOOR CONTROL MODULE</b> Description BATTERY POWER SUPPLY PASSENGER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCP NETWORK PASSENGER REAR WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK PASSENGER REAR WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK PASSENGER REAR WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK POWER GROUND PASSENGER REAR DOOR SWITCH PACK WINDOW UP REQUEST	Active B+ B+ GROUND 2 + 1600 Hz B+ 2 + 1600 Hz GROUND GROUND(MOMENTARY) B+ (MOMENTARY) Active B+ B+ GROUND 2 + 1600 Hz B+ B+ CROUND CROUND CROUND (MOMENTARY) CROUND CROUND (MOMENTARY) CROUND (MOMENTARY) CROUND (MOMENTARY)	Inactive B+ GROUND GROUND GROUND GROUND B+ GROUND GROUND GROUND GROUND GROUND	Connector         Type / Color           CA8         20 WAY MULTILOCK 07           CA10         8-WAY MULTILOCK 07           CA11         20-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 07           CA14         6-WAY MULTILOCK 07           CA16         6-WAY MULTILOCK 07           CA16         6-WAY MULTILOCK 07           CA16         54-WAY THROUGH PAN           FC1         54-WAY THROUGH PAN           FC5         54-WAY THROUGH PAN           FC7         20-WAY MULTILOCK 07           GROUNDS         Ground           BT22L         EYELET (PAIR) – TRUNK           BT34         EYELET (SINGLE) – KEY
<b>PA PA PA</b>	Pin PD10-1 PD10-7 PD10-8 PD10-15 PD10-16 PD10-16 PD10-17 PD11-21 SSENGER 1 SSENGER 1 Pin RP10-1 RP10-7 RP10-8 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-17 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP11-6 RP11-21	Description BATTERY POWER SLIPPLY PASSENCER WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCP NETWORK PASSENGER WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK POWER GROUND PASSENGER DOOR SWITCH PACK WINDOW UP REQUEST PASSENGER DOOR SWITCH PACK WINDOW DOWN REQUEST BEAR DOOR CONTROL MODULE Description BATTERY POWER SUPPLY PASSENGER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCP NETWORK PASSENGER REAR WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK POWER GROUND SCP NETWORK PASSENGER REAR POOR SWITCH PACK WINDOW UP REQUEST PASSENGER REAR DOOR SWITCH PACK WINDOW UP REQUEST	Active B+ B+ GROUND 2 + 1600 Hz B+ 2 + 1600 Hz B+ GROUND (MOMENTARY) B+ (MOMENTARY) B+ B+ B+ B+ B+ B+ B+ B+ B+ B+	Inactive B+ GROUND GROUND GROUND GROUND GROUND B+ GROUND GROUND GROUND GROUND GROUND GROUND GROUND	Connector         Type / Color           CA8         20 WAY MULTILOCK 07           CA10         8-WAY MULTILOCK 07           CA11         20-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 07           CA14         6-WAY MULTILOCK 07           CA16         6-WAY MULTILOCK 07           CA16         6-WAY MULTILOCK 07           CA16         54-WAY THROUGH PAN           FC1         54-WAY THROUGH PAN           FC5         54-WAY THROUGH PAN           FC7         20-WAY MULTILOCK 07           GROUNDS         Ground           DT22L         EYELET (PAIR) – TRUNK           BT34         EYELET (SINGLE) – KEY           CA30L         EYELET (PAIR) – LH 'A' 1
PA	Pin PD10-7 PD10-7 PD10-7 PD10-8 PD10-15 PD10-16 PD10-16 PD10-17 PD11-21 SSENGER 1 SSENGER 1 Pin RP10-7 RP10-7 RP10-7 RP10-7 RP10-9 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-15 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10	Description BATTERY POWER SUPPLY PASSENCER WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCF NETWORK PASSENGER WINDOW LIFT MOTOR UP SUPPLY SCF NETWORK POWER GROUND PASSENGER DOOR SWITCH PACK WINDOW UP REQUEST PASSENGER DOOR SWITCH PACK WINDOW DOWN REQUEST REAR DOOR CONTROL MODULE Description BATTERY POWER SUPPLY PASSENGER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCF NETWORK PASSENGER REAR WINDOW LIFT MOTOR UP SUPPLY SCF NETWORK POWER GOUND PASSENGER REAR WINDOW LIFT MOTOR UP SUPPLY SCF NETWORK POWER GROUND PASSENGER REAR DOOR SWITCH PACK WINDOW UP REQUEST PASSENGER REAR DOOR SWITCH PACK WINDOW UP REQUEST PASSENGER REAR DOOR SWITCH PACK WINDOW DOWN REQUEST PASSENGER REAR DOOR SWITCH PACK WINDOW DOWN REQUEST PASSENGER REAR DOOR SWITCH PACK WINDOW DOWN REQUEST	Active B+ B+ GROUND 2 + 1600 Hz B+ 2 - 1600 Hz GROUND (MOMENTARY) B+ (MOMENTARY) Active B+ B+ B+ GROUND 2 + 1600 Hz B+ B+ B+ GROUND GROUND GROUND GROUND (MOMENTARY) B+ (MOMENTARY)	Inactive B+ GROUND GROUND GROUND GROUND GROUND Inactive B+ GROUND GROUND GROUND GROUND GROUND GROUND GROUND	Connector         Type / Color           CA8         20 WAY MULTILOCK 07           CA10         8-WAY MULTILOCK 07           CA11         20-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 07           CA14         6-WAY MULTILOCK 07           CA16         6-WAY MULTILOCK 07           CA16         6-WAY MULTILOCK 07           CA16         54-WAY THROUGH PAN           FC5         54-WAY THROUGH PAN           FC7         20-WAY MULTILOCK 07           GROUNDS         GROUNDS           BT22L         EYCLET (PAIR) – TRUNK           BT34         EYELET (SINGLE) – KEY           CA30L         EYELET (PAIR) – THUNK           CA30L         EYELET (PAIR) – LH 'A' 1           CA331         EYELET (PAIR) – LH 'A' 1
$\bigtriangledown$ -o-wow PA $\bigtriangledown$ -o-wow SE $\bigtriangledown$	Pin PD10-1 PD10-7 PD10-8 PD10-15 PD10-16 PD10-16 PD10-17 PD10-17 PD10-17 PD10-17 PD10-17 PD10-16 PD10-17 RP10-1 RP10-7 RP10-9 RP10-9 RP10-16 RP10-16 RP10-17 RP10-16 RP10-17 RP10-16 RP10-17 RP10-16 RP10-17 RP10-16 RP10-17 RP10-16 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-17 RP10-	Description BATTERY POWER SUPPLY PASSENCER WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCF NETWORK PASSENCER WINDOW LIFT MOTOR UP SUPPLY SCF NETWORK POWER GROUND PASSENCER DOOR SWITCH PACK WINDOW UP REQUEST PASSENCER DOOR SWITCH PACK WINDOW DOWN REQUEST REAR DOOR CONTROL MODULE Description BATTERY POWER SUPPLY PASSENCER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCF NETWORK POWER GROUND SCF NETWORK POWER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCF NETWORK POWER REAR WINDOW LIFT MOTOR UP SUPPLY SSENCER REAR POOR SWITCH PACK WINDOW UP REQUEST PASSENCER REAR DOOR SWITCH PACK WINDOW DOWN REQUEST PASSENCER REAR DOOR SWITCH PACK WINDOW	Active B+ B+ B+ CROUND 2 - 1600 Hz B+ 2 - 1600 Hz GROUND (MOMENTARY) B+ (MOMENTARY) Active B+ B+ B+ GROUND 2 - 1600 Hz B+ B+ CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND	Inactive B+ GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND	Connector         Type / Color           CA8         20 WAY MULTILOCK 07           CA10         8-WAY MULTILOCK 07           CA11         20-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 07           CA14         6-WAY MULTILOCK 07           CA16         6-WAY MULTILOCK 07           FC1         54-WAY THROUGH PAN           FC5         54-WAY MULTILOCK 07           GROUNDS         GROUNDS           BT22L         EYELET (PAIR) - TRUNK           BT34         EYELET (SINGLE) - KEY           CA30L         EYELET (PAIR) - H'A' 1           CA30L         EYELET (PAIR) - H'A' 1           CA33L         EYELET (PAIR) - H'A' 1           CA33R         EYELET (PAIR) - RH 'A'
$\bigtriangledown$ -o-sos PA $\bigtriangledown$ -o-sos SE $\bigtriangledown$ s-	Pin PD10-1 PD10-7 PD10-8 PD10-9 PD10-9 PD10-16 PD10-16 PD10-17 PD10-17 PD10-17 PD10-17 PD10-17 PD10-17 PD10-17 PD10-17 PD10-17 PD10-17 PD10-17 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP10-1 RP11-6 RP10-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-2 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11-1 RP11	Description BATTERY POWER SUPPLY PASSENCER WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCF NETWORK PASSENCER DOOR SWITCH PACK WINDOW UP REQUEST PASSENCER DOOR SWITCH PACK WINDOW DOWN REQUEST REAR DOOR CONTROL MODULE Description BATTERY POWER SUPPLY PASSENCER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND PASSENCER REAR WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK POWER GROUND PASSENCER REAR DOOR SWITCH PACK WINDOW UP REQUEST PASSENCER REAR DOOR SWITCH PACK WINDOW UP REQUEST PASSENCER REAR DOOR SWITCH PACK WINDOW DOWN REQUEST PASSENCER REAR DOWN DOWN PACK PASSENCER REAR DOWN	Active B+ B+ B+ 2 - 1600 Hz B+ 2 - 1600 Hz GROUND (MOMENTARY) B+ (MOMENTARY) Active B+ B+ B+ GROUND 2 - 1600 Hz GROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND	Inactive B+ GROUND GROUND GROUND GROUND GROUND Inactive B+ GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND	Connector         Type / Color           CA8         20 WAY MULTILOCK 07           CA10         8-WAY MULTILOCK 07           CA11         20-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 07           CA14         6-WAY MULTILOCK 07           CA16         6-WAY MULTILOCK 070           FC1         54-WAY THROUGH PAN           FC5         54-WAY MULTILOCK 070           GROUNDS         GROUNDS           BT22L         EYELET (PAIR) - TRUNK           BT34         EYELET (PAIR) - TRUNK           BT34         EYELET (PAIR) - H'A' 1           CA30L         EYELET (PAIR) - H'A' 1           CA33L         EYELET (PAIR) - H'A' 1           CA33L         EYELET (PAIR) - RH 'A' 1           CA38L         EYELET (PAIR) - L'H 'A' 1           CA38L         EYELET (PAIR) - L'H 'A' 1
$\bigtriangledown$ -o-sos PA $\bigtriangledown$ -o-sos SE $\triangleright$ s	Pin PD10-1 PD10-7 PD10-8 PD10-8 PD10-16 PD10-16 PD10-17 PD11-6 PD11-21 SSENGER 1 SSENGER 1 Pin RP10-1 RP10-7 RP10-8 RP10-9 RP10-9 RP10-9 RP10-16 RP10-16 RP10-16 RP10-17 RP10-8 RP10-9 RP10-9 RP10-9 RP10-9 RP10-16 RP10-16 RP10-17 RP10-16 RP10-17 RP10-17 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP11-6 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7 RP11-7	Description BATTERY POWER SUPPLY PASSENCER WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SYNCETWORK POWER GROUND PASSENCER WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK POWER GROUND PASSENCER DOOR SWITCH PACK WINDOW UP REQUEST PASSENCER DOOR SWITCH PACK WINDOW DOWN REQUEST REAR DOOR CONTROL MODULE Description BATTERY POWER SUPPLY PASSENCER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND PASSENCER REAR WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK POWER GROUND PASSENCER REAR POOR SWITCH PACK WINDOW UP REQUEST PASSENCER REAR DOOR SWITCH PACK WINDOW DOWN REQUEST PASSENCER PACK PACK DOGIC GROUND DOGIC BROUND BATTERY POWER SUPPLY	Active B+ B+ B+ 2 - 1600 Hz gROUND (MOMENTARY) B+ (MOMENTARY) Active B+ B+ B+ B+ CROUND 2 - 1600 Hz GROUND (MOMENTARY) B+ (MOME	Inactive B+ GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND	Connector         Type / Color           CA8         20 WAY MULTILOCK 07           CA10         8-WAY MULTILOCK 07           CA11         20-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 07           CA14         6-WAY MULTILOCK 07           CA15         6-WAY MULTILOCK 070           CA16         6-WAY MULTILOCK 070           CA16         6-WAY MULTILOCK 070           CA16         6-WAY MULTILOCK 070           FC1         54-WAY THROUGH PAN           FC5         54-WAY MULTILOCK 070           FC7         20-WAY MULTILOCK 070           GROUNDS         GROUNDS           BT22L         EYELET (PAIR) - TRUNK           BT34         EYELET (SINGLE) - KEY           CA30L         EYELET (SINGLE) - LH 24           CA30R         EYELET (PAIR) - LH 24           CA33L         EYELET (PAIR) - LH 24           CA33L         EYELET (PAIR) - LH 24           CA33E         EYELET (PAIR) - LH 24           CA36F         EYELET (PAIR) - LH 24           CA36R         EYELET (PAIR) - LH 24
$\bigtriangledown$ -o-sos $\mathbf{PA}$ $\bigtriangledown$ -o-sos $\mathbf{SE}$ $\bigtriangledown$ ss	Pin PD10-1 PD10-7 PD10-7 PD10-7 PD10-7 PD10-7 PD10-9 PD10-16 PD11-21 SSENGER 1 SSENGER 1 Pin RP10-1 RP10-7 RP10-8 RP10-9 RP10-9 RP10-9 RP10-16 RP10-16 RP10-16 RP10-17 RP10-18 RP10-17 RP10-18 RP10-18 RP10-18 RP10-18 RP11-21 CURITY AN PT1-8 BT1-13 BT1-15 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17	Description BATTERY POWER SUPPLY PASSENCER WINDOW LIFT MOTOR DOWN SUPPLY SOP RETERMINOW LIFT MOTOR DOWN SUPPLY SOP NETWORK POWER GROUND PASSENCER DOOR SWITCH PACK WINDOW UP REQUEST PASSENCER DOOR SWITCH PACK WINDOW DOWN REQUEST REAR DOOR CONTROL MODULE Description BATTERY POWER SUPPLY PASSENCER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND PASSENCER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND PASSENCER REAR WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK POWER GROUND PASSENCER REAR DOOR SWITCH PACK WINDOW UP REQUEST DECOKING CONTROL MODULE Description SCP NETWORK LOGIC GROUND SCP NETWORK LOGIC GROUND SCP NETWORK LOGIC GROUND SCP NETWORK LOGIC GROUND SCP NETWORK SCP	Active B+ B+ B+ 2 - 1600 Hz B+ 2 - 1600 Hz GROUND (MOMENTARY) B+ (MOMENTARY) Active B+ B+ B+ B+ B+ CROUND 2 - 1600 Hz GROUND (MOMENTARY) B+	Inactive B+ GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND	Connector         Type / Color           CA8         20 WAY MULTILOCK 07           CA10         8-WAY MULTILOCK 07           CA11         20-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 07           CA14         6-WAY MULTILOCK 07           CA16         6-WAY MULTILOCK 07           CA16         6-WAY MULTILOCK 07           CA16         6-WAY MULTILOCK 07           FC1         54-WAY MULTILOCK 07           FC2         20-WAY MULTILOCK 07           FC3         54-WAY THROUGH PAN           FC5         54-WAY MULTILOCK 07           GROUNDS         Ground           Location / Type           DT22L         EYELET (PAIR) - TRUNK           BT34         EYELET (SINGLE) - KEY           CA301         EYELET (PAIR) - LH 'A'           CA302         EYELET (PAIR) - LH 'A'           CA331         EYELET (PAIR) - LH 'A'           CA332         EYELET (PAIR) - H'A'           CA3331         EYELET (PAIR) - LH 'A'           CA3361         EYELET (PAIR) - LH 'A'           CA3361         EYELET (PAIR) - LH 'A'           CA362         EYELET (PAIR) - RH FAC
$\bigtriangledown$ -o-wow PA $\bigtriangledown$ -o-wow SE $\bigtriangledown$ ww	Pin PD10-1 PD10-7 PD10-7 PD10-7 PD10-7 PD10-8 PD10-16 PD10-16 PD10-16 PD10-17 PD11-2 SSENGER 1 SSENGER 1 Pin RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP11-6 RP11-6 RP11-7 RP11-6 RP11-7 RP11-6 RP11-7 RP11-6 RP11-13 BT1-13 BT1-15 BT1-16 BT1-15 BT1-16 BT1-15 BT1-16 BT1-15 BT1-16 BT1-15 BT1-16 BT1-15 BT1-16 BT1-15 BT1-16 BT1-15 BT1-16 BT1-15 BT1-16 BT1-15 BT1-16 BT1-15 BT1-16 BT1-15 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-16 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 BT1-17 B	Description BATTERY POWER SLIPPLY PASSENCER WINDOW LIFT MOTOR DOWN SLIPPLY LOGIC GROUND SCP NETWORK PASSENCER WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK PASSENCER WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK PASSENCER DOOR SWITCH PACK WINDOW UP REQUEST PASSENCER DOOR SWITCH PACK WINDOW DOWN REQUEST <b>REAR DOOR CONTROL MODULE</b> Description BATTERY POWER SUPPLY PASSENCER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCP NETWORK PASSENCER REAR WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK DESCRIPTION SCP NETWORK DESCRIPTION SCP NETWORK LOGIC GROUND BATTERY POWER SUPPLY SCP NETWORK LOGIC GROUND BATTERY POWER SUPPLY SCP NETWORK LOGIC GROUND BATTERY POWER SUPPLY SCP NETWORK LOGIC GROUND BATTERY POWER SUPPLY SCP NETWORK KEY FOB ANTENNA KEY FOB ANTENNA SHIELD	Active B+ B+ B+ B+ B+ 2 - 1600 Hz B+ B+ (MOMENTARY) B+ (MOMENTARY) B+ (MOMENTARY) B+ B+ B+ B+ B+ B+ B+ B+ B+ B+	Inactive B+ GROUND GROUND GROUND GROUND GROUND Inactive B+ GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND	Connector         Type / Color           CA8         20 WAY MULTILOCK 07           CA10         8-WAY MULTILOCK 07           CA11         20-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 07           CA14         6-WAY MULTILOCK 07           CA15         6-WAY MULTILOCK 07           CA16         6-WAY MULTILOCK 07           CA16         54-WAY THROUGH PAN           FC5         54-WAY THROUGH PAN           FC6         54-WAY THROUGH PAN           FC7         20-WAY MULTILOCK 07           GROUNDS         Ground           Location / Type           DT22L         EYELET (PAIR) - THUNK           BT34         EYELET (SINGLE) - KEY           CA30L         EYELET (PAIR) - THUNK           CA30L         EYELET (PAIR) - HAY 1           CA33R         EYELET (PAIR) - HAY 1           CA33R         EYELET (PAIR) - HAY 1           CA36L         EYELET (PAIR) - HAY 1           CA36R         EYELET (PAIR) - HAY 1           CA36R
$\nearrow$ -o-wow PA $\nearrow$ -o-wow SE $\implies$ ww SE [	Pin PD10-1 PD10-7 PD10-8 PD10-7 PD10-8 PD10-9 PD10-16 PD10-16 PD10-17 PD10-16 PD10-17 PD10-17 PD10-17 PD10-17 PD10-17 RP10-1 RP10-7 RP10-7 RP10-9 RP10-9 RP10-9 RP10-9 RP10-9 RP10-16 RP10-17 RP11-6 RP10-17 RP11-6 RP10-17 RP10-8 RP10-9 RP10-9 RP10-16 RP10-17 RP10-9 RP10-16 RP10-17 RP10-9 RP10-16 RP10-17 RP10-16 RP10-17 RP10-16 RP10-17 RP10-16 RP10-17 RP10-16 RP10-17 RP10-16 RP10-17 RP10-18 RP10-17 RP10-18 RP10-17 RP10-18 RP10-19 RP10-18 RP10-19 RP10-18 RP10-18 RP10-18 RP10-19 RP10-18 RP10-18 RP10-19 RP10-18 RP10-19 RP10-18 RP10-18 RP10-19 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-19 RP11-6 RP11-18 RP11-18 RP11-18 RP11-18 RP11-18 RP11-18 RP11-18 RP11-18 RP11-18 RP10-18 RP10-19 RP10-18 RP10-19 RP10-18 RP10-19 RP10-18 RP10-19 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP10-18 RP	Description BATTERY POWER SUPPLY PASSENCER WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND SCF NETWORK PASSENCER DOOR SWITCH PACK WINDOW UP REQUEST PASSENCER DOOR SWITCH PACK WINDOW DOWN REQUEST PASSENCER DOOR SWITCH PACK WINDOW DOWN REQUEST REAR DOOR CONTROL MODULE Description BATTERY POWER SUPPLY PASSENCER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND PASSENCER REAR DOOR SWITCH PACK WINDOW UP REQUEST PASSENCER REAR DOOR SWITCH PACK WINDOW UP REQUEST PASSENCER REAR DOOR SWITCH PACK WINDOW UP REQUEST PASSENCER REAR DOOR SWITCH PACK WINDOW DOWN REQUEST DECONTROL MODULE DESCRIPTION SCP NETWORK LOGIC GROUND BATTERY POWER SUPPLY SCP NETWORK KEY FOB ANTENNA KEY FOB ANTENNA SHIELD FCONTROL MODULE	Active B+ B+ B+ CROUND 2 - 1600 Hz B+ 2 - 1600 Hz GROUND (MOMENTARY) B+ (MOMENTARY) Active B+ B+ B+ CACIVE B+ CACIVE B+ CACIVE B+ CACIVE CROUND GROUND GROUND GROUND CROUND (MOMENTARY) B+ CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE CACIVE	Inactive B+ GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND B+	Connector         Type / Color           CA8         20 WAY MULTILOCK 07           CA10         8-WAY MULTILOCK 07           CA11         20-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 07           CA12         8-WAY MULTILOCK 07           CA14         6-WAY MULTILOCK 07           CA16         6-WAY MULTILOCK 07           FC1         54-WAY THROUGH PAN           FC7         20-WAY MULTILOCK 07           GROUNDS         Ground           Location / Type           BT22L         EYELET (PAIR) - THUNK           BT34         EYELET (SINGLE) - KEY           CA30L         EYELET (PAIR) - HA 'A'           CA33L         EYELET (PAIR) - HA 'A'           CA33R         EYELET (PAIR) - HA 'A'           CA38R         EYELET (PAIR) - HA 'A'           CA38R         EYELET (PAIR) - HA 'A'           CA38R         EYELET (PAIR) - HA 'A'           CC3R
ightarrow  PA $ ightarrow $ SE $ ightarrow $ SE $ ightarrow $ SE $ ightarrow $ SE $ ightarrow - $ SE $ ightarrow $ SE $ ightarro$	Pin PD10-1 PD10-7 PD10-8 PD10-7 PD10-8 PD10-16 PD10-16 PD10-17 PD11-6 PD11-21 SSENGER 1 Pin RP10-1 RP10-7 RP10-7 RP10-9 RP10-9 RP10-9 RP10-16 RP10-16 RP10-16 RP10-17 RP10-16 RP10-17 RP10-8 RP10-9 RP10-9 RP10-16 RP10-16 RP10-16 RP10-16 RP10-17 RP10-16 RP10-17 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7	Description BATTERY POWER SUPPLY PASSENCER WINDOW LIFT MOTOR DOWN SUPPLY LOG (GROUND SPENTRY POWER SUPPLY POWER GROUND PASSENCER DOOR SWITCH PACK WINDOW UP REQUEST PASSENCER DOOR SWITCH PACK WINDOW DOWN REQUEST REAR DOOR CONTROL MODULE Description BATTERY POWER SUPPLY PASSENCER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOG (GROUND SCP NETWORK POWER GROUND PASSENCER REAR WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK DOWN BOOR SWITCH PACK WINDOW UP REQUEST PASSENCER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOG (GROUND PASSENCER REAR WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK DOWN BOOR SWITCH PACK WINDOW UP REQUEST PASSENCER REAR DOOR SWITCH PACK WINDOW UP REQUEST DECKING CONTROL MODULE Description SCP NETWORK KEY FOB ANTENNA SHIELD ECNTROL MODULE Description	Active B+ B+ 2 - 1600 Hz 2 - 1600 Hz B+ 2 - 1600 Hz GROUND (MOMENTARY) B+ (MOMENTARY) Active B+ B+ B+ B+ CROUND 2 - 1600 Hz GROUND (MOMENTARY) B+ (MOMENTARY) B+ (MOMENTARY) CACtive CACtive CROUND B+ CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND	Inactive B+ GROUND B+ GROUND B+ GROUND Inactive Inactive	ConnectorType / ColorCA820 WAY MULTILOCK 07CA108-WAY MULTILOCK 07CA1120-WAY MULTILOCK 07CA128-WAY MULTILOCK 07CA136-WAY MULTILOCK 07CA166-WAY MULTILOCK 07CA166-WAY MULTILOCK 07CA165-WAY MULTILOCK 07CA165-WAY MULTILOCK 07CA1754-WAY MULTILOCK 07CA186-WAY MULTILOCK 07CA1954-WAY MULTILOCK 07CA166-WAY MULTILOCK 07FC154-WAY MULTILOCK 07FC220-WAY MULTILOCK 07FC320-WAY MULTILOCK 07GROUNDSGroundDT22LEYELET (PAIR) - TRUNKBT34EYELET (PAIR) - TRUNKBT34EYELET (PAIR) - TRUNKCA30REYELET (PAIR) - HA 'A'CA33LEYELET (PAIR) - HA 'A'CA33LEYELET (PAIR) - HA 'A'CA36REYELET (PAIR) - HA 'A'CA36REYELET (PAIR) - HA FROCONTROL MODULE PIN OUT INCA13ECONTROL MODULE PIN OUT IN
$ ightarrow - r = \mathbf{P} \mathbf{A}  ightarrow - r = \mathbf{E}  ightarrow - s = \mathbf{E}  ightarrow - \mathbf{E}  ightarrow $	Pin P010-1 P010-7 P010-7 P010-7 P010-7 P010-7 P010-7 P010-7 P010-16 P010-17 P011-21 SSENGER 1 P10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10	Description         BATTERY POWER SUPPLY         PASEINGER         BATTERY POWER SUPPLY         PASEINGER         POWER GROUND         Sep NetWork         POWER GROUND         PASEINGER         POWER GROUND         PASEINGER         POWER GROUND         PASEINGER         POWER GROUND         PASEINGER         POWER GROUND         PASEINGER DOOR SWITCH PACK WINDOW UP REQUEST         PASEINGER PLAP         PASEINGER REAR WINDOW LIFT MOTOR DOWN SUPPLY         LOGIC GROUND         SCP NETWORK         PASEINGER REAR WINDOW LIFT MOTOR DOWN SUPPLY         LOGIC GROUND         SCP NETWORK         PASSEINGER REAR DOOR SWITCH PACK WINDOW UP REQUEST         PASSEINGER REAR DOOR SWITCH PACK WINDOW UP REQUEST         POWER GROUND         PASSEINGER REAR DOOR SWITCH PACK WINDOW UP REQUEST         PASSEINGER REAR DOOR SWITCH PACK WINDOW DOWN REQUEST         PASSEINGER REAR DOOR SWITCH PACK WINDOW UP REQUEST         PASSEINGER REAR DOOR SWITCH PACK WINDOW UP REQUEST         PASSEINGER REAR DOOR SWITCH PACK WINDOW DOWN REQUEST         POUER GROUND         LOGIC GROUND         LOGIC GROUND         LOGIC GR	Active B+ B+ 2 - 1600 Hz 2 - 1600 Hz B+ 2 - 1600 Hz GROUND (MOMENTARY) B+ (MOMENTARY) Active B+ B+ B+ B+ CROUND CACTIVE B+ B+ CROUND (MOMENTARY) B+ (MOMENTARY) B+ (MOMENTARY) CACTIVE CROUND GROUND GROUND CROUND CROUND B+ CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUN	Inactive B+ GROUND B+ GROUND B+	ConnectorType / ColorCA820 WAY MULTILOCK 07CA108-WAY MULTILOCK 07CA1120 WAY MULTILOCK 07CA128-WAY MULTILOCK 07CA136-WAY MULTILOCK 07CA146-WAY MULTILOCK 07CA166-WAY MULTILOCK 07CA165-WAY MULTILOCK 07CA165-WAY MULTILOCK 07FC154-WAY MULTILOCK 07FC220-WAY MULTILOCK 07FC320-WAY MULTILOCK 07GROUNDSFC7BT22LEYELET (PAIR) - TRUNKBT34EYELET (PAIR) - TRUNKBT34EYELET (SINGLE) - KEYCA30LEYELET (PAIR) - HI 'A'CA33LEYELET (PAIR) - HI 'A'CA33LEYELET (PAIR) - HI 'A'CA33REYELET (PAIR) - HI 'A'CA36LEYELET (PAIR) - HI 'A'CA36REYELET (PAIR) - HI 'A'
$ ightarrow \mathbf{PA}  ightarrow \mathbf{SE}  ightarrow \mathbf{SE}  ightarrow \mathbf{SE}  ightarrow \mathbf{SE}  ightarrow$	Pin P010-1 P010-7 P010-7 P010-7 P010-7 P010-7 P010-7 P010-7 P010-7 P011-6 P011-21 SSENGER 1 Pin RP10-1 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7	Description BATTERY POWER SUPPLY PASSENGER PICATERY POWER SUPPLY INFORMATION PASSENGER PICATION PASSENGER PICATION POWER GROUND PASSENGER DOOR SWITCH PACK WINDOW UP REQUEST PASSENGER DOOR SWITCH PACK WINDOW DOWN REQUEST REAR DOOR CONTROL MODULE Description BATTERY POWER SUPPLY PASSENGER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND PASSENGER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND PASSENGER REAR WINDOW LIFT MOTOR DOWN SUPPLY SCP NETWORK POWER GROUND PASSENGER REAR WINDOW LIFT MOTOR DOWN SUPPLY SCP NETWORK POWER GROUND PASSENGER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND PASSENGER REAR WINDOW LIFT MOTOR DOWN SUPPLY SCP NETWORK POWER GROUND PASSENGER REAR DOOR SWITCH PACK WINDOW DOWN REQUEST FOLLOCKING CONTROL MODULE DOGIC GROUND SCP NETWORK KEY FOB ANTERNA SHIELD FOUND SUPPLY SCP NETWORK KEY FOB ANTERNA SHIELD FOUND SUPPLY CENTRAL LOCKING SWITCH - SLIDING ROOF GLOBAL CLOSE REQUEST SUDING ROOF SWITCH OPEN REQUEST SUDING ROOF SUDPLY SLIDING ROOF GLOBAL CLOSE REQUEST SUDING ROOF SUDPLY SLIDING ROOF SUDPLY SLIDING ROOF SUD	Active B+	Inactive B+ GROUND B+ GROUND B+ B+ B+ B+ GROUND B+ B+ B+ B+ GROUND B+	ConnectorType / ColorCA820 WAY MULTILOCK 07CA108-WAY MULTILOCK 07CA1120-WAY MULTILOCK 07CA128-WAY MULTILOCK 07CA136-WAY MULTILOCK 07CA146-WAY MULTILOCK 07CA166-WAY MULTILOCK 07CA165-WAY MULTILOCK 07FC154-WAY MULTILOCK 07FC554-WAY MULTILOCK 07FC654-WAY MULTILOCK 07GROUNDSGroundDT22LEYELET (PAIR) - TRUNKBT34EYELET (SINGLE) - KEYCA30LEYELET (FAIR) - HAY 1CA33LEYELET (PAIR) - HAY 1CA33LEYELET (PAIR) - HAY 1CA36REYELET (PAIR) - HAY 1CA36REYELET (PAIR) - HAY 2CA36REYELET (PA
$ ightarrow \mathbf{PA}  ightarrow \mathbf{SE}  ightarrow \mathbf{SE}  ightarrow \mathbf{SE}  ightarrow \mathbf{SE}  ightarrow \mathbf{SE}  ightarrow \mathbf{SE}  ightarrow$	Pin P010-1 P010-7 P010-7 P010-7 P010-7 P010-7 P010-7 P010-7 P010-16 P010-17 P011-21 SSENGER 1 Pin RP10-1 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7 RP10-7	Description BATTERY POWER SUPPLY PASSENGER MINDOW LIFT MOTOR DOWN SUPPLY SCP NETWORK POWER GROUND PASSENGER WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK POWER GROUND PASSENGER DOOR SWITCH PACK WINDOW UP REQUEST PASSENGER DOOR SWITCH PACK WINDOW DOWN REQUEST REAR DOOR CONTROL MODULE Description BATTERY POWER SUPPLY PASSENGER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND PASSENGER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND PASSENGER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND PASSENGER REAR WINDOW LIFT MOTOR DOWN SUPPLY LOGIC GROUND PASSENGER REAR WINDOW LIFT MOTOR UP SUPPLY PASSENGER REAR WINDOW LIFT MOTOR UP SUPPLY SCP NETWORK DOWER GROUND SCP NETWORK LOGIC GROUND SCP NETWORK KEY FOB ANTENNA KEY FOB ANTENNA SHIELD ETTERY SUPPLY CENTRAL LOCKING SWITCH - SLIDING ROOF GLOBAL CLOSE REQUEST GROUND SUPPLY CONTRAL LOCKING ROOF GLOBAL CLOSE REQUEST SLIDING ROOF SWITCH OFEN REQUEST SLIDING ROOF SWITCH OFEN REQUEST SLIDING ROOF SWITCH OFEN REQUEST SLIDING ROOF SWITCH PACK WINDOW DOWN REQUEST	Active B+ B+ B+ B+ B+ B+ B+ CROUND GROUND (MOMENTARY) B+ B+ B+ B+ B+ B+ B+ B+ CROUND CROUND CROUND CROUND CROUND (MOMENTARY) B+ CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND CROUND	Inactive B+ GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND B+ GROUND B+ GROUND B+ B+ B+ B+ B+ B+ B+ B+ B+ B+	ConnectorType / ColorCA820 WAY MULTILOCK 07CA108-WAY MULTILOCK 07CA1120 WAY MULTILOCK 07CA128-WAY MULTILOCK 07CA146-WAY MULTILOCK 07CA146-WAY MULTILOCK 07CA166-WAY MULTILOCK 07CA1654-WAY THROUGH PANFC554-WAY THROUGH PANFC654-WAY MULTILOCK 07GROUNDS $\mathbf{Ground}$ DT22LEYELET (PAIR) - TRUNKBT34EYELET (PAIR) - TRUNKBT34EYELET (PAIR) - HAY 1CA30LEYELET (PAIR) - HAY 1CA33LEYELET (PAIR) - HAY 1CA36LEYELET (PAIR) - HAY 1CA36REYELET (PAIR) - HAY 1CA36REYE

NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

The following symbols are used to represent values for Control Module Pin Out data:

o SG	Input Output Signal Ground	D C S	Serial and encoded communications CAN (Network) SCP Network	B+ V Hz	Battery voltage Voltage (DC) Frequency	KHz MS MV	Frequency x 1000 Milliseconds Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

# Fia. 15.2

#### Connector / Type / Color

FC15 / 14-WAY AMP EEEC / GREY CC1 / 16-WAY FORD IDC S.U. / BLACK

DD10 / 22-WAY FORD 2.8 TIMER / BLUE DD11 / 22-WAY FORD 2.8 TIMER / BLACK RD10 / 22-WAY FORD 2.8 TIMER / BLUE RD11 / 22-WAY FORD 2.8 TIMER / BLACK PD10 / 22-WAY FORD 2.8 TIMER / BLUE PD11 / 22-WAY FORD 2.8 TIMER / BLACK RP10 / 22-WAY FORD 2.8 TIMER / BLUE RP11 / 22-WAY FORD 2.8 TIMER / BLACK DD3 / 13-WAY ECONOSEAL III LC / BLACK EC24 / 48-WAY AMP MODULE PCB SIGNA FC25 / 24-WAY AMP MODULE PCB SIGNA BT33 / 1-WAY COAXIAL CONNECTOR DD1 / 26-WAY MOS-26 / YELLOW

BT1 / 16-WAY FORD 2.8 TIMER / BLACK BT2 / 26-WAY FORD IDC / BLACK BT6 / 1-WAY COAXIAL CONNECTOR CA64 / 6-WAY MULTILOCK 070 / WHITE SR2 / 3-WAY MULTILOCK 070 / WHITE CA53 / 8-WAY MULTILOCK 040 / BLACK

RD1 / 5-WAY LAG / GREEN PD1 / 26-WAY MQS-26 / YELLOW RP1 / 5-WAY LAG / GREEN DD16 / 2-WAY ECONOSEAL III LC / BLACK RD16 / 2-WAY ECONOSEAL III LC / BLACK PD16 / 2-WAY ECONOSEAL III LC / BLACK RP16 / 2-WAY ECONOSEAL III LC / BLACK DD1 / 26-WAY MQS-26 / YELLOW

#### **NNECTORS**

onnector	Type / Color	Location / Acc
A8	20-WAY MULTILOCK 070 / WHITE	DRIVER 'A' POST / DOC
A10	8-WAY MULTILOCK 070 / YELLOW	DRIVER 'A' POST / DOC
A11	20-WAY MULTILOCK 070 / WHITE	PASSENGER 'A' POST
A12	8-WAY MULTILOCK 070 / YELLOW	PASSENGER 'A' POST
A14	6-WAY MULTILOCK 070 / WHITE	DRIVER 'B/C' POST / DO
A16	6-WAY MULTILOCK 070 / WHITE	PASSENGER 'B/C' POS
21	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW PASSENGER S
25	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW DRIVER SIDE A
27	20-WAY MULTILOCK 070 / WHITE	ABOVE DIMMER MODU

#### ype UNK / RH CENTER GROUND STUD KEY FOB ANTENNA GROUND / BACKLIGHT / CENTER 'A' POST GROUND SCREW 
FRONT BULKHEAD STUD / CABIN SIDE

#### T INFORMATION (FOLD OUT PAGE)

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

	Location / Access
	CENTER CONSOLE SWITCH PACK
	DOOR CASING / TRIM PANEL
L / BLACK	DOOR CASING / TRIM PANEL FASCIA
	TOP OF BACKLIGHT
	DOOR TRIM PANEL
	BELOW TRUNK FUSE BOX
	ROOF CONSOLE
	ROOF CONSOLE
	ROOF CONSOLE
	DOOR TRIM PANEL
	DOOR TRIM PANEL
	DOOR TRIM PANEL
	DOOR CASING / TRIM PANEL
	DOOR CASING / TRIM PANEL
	DOOR CASING / TRIM PANEL
	DOOR TRIM PANEL

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OR HARNESS GAITER OR HARNESS GAITER / DOOR HARNESS GAITER / DOOR HARNESS GAITER OOR HARNESS GAITER ST / DOOR HARNESS GAITER DE AIR VENT / GLOVE BOX ASSEMBLY AIR VENT / COIN TRAY ULE / COIN TRAY

INS	INSTRUMENT PACK				
$\bigtriangledown$	Pin	Description	Active	Inactive	
С	FC24-24	CAN NETWORK	15 – 1500 Hz		
C	FC24-47	CAN NETWORK	15 - 1500 Hz		
0	FC25-20	VEHICLE SPEED	22 Hz @ 10 MPH (16 KM/H); 44 Hz @ 20 MPH (32 KM/H) @ B+		
RAI	RADIO / CASSETTE HEAD UNIT				
$\bigtriangledown$	Pin	Description	Active	Inactive	
1	IC10-1	VEHICLE SPEED	22 Hz @ 10 MPH (16 KM/H); 44 Hz @ 20 MPH (32 KM/H) @ B+		
1	IC10-2	STEERING WHEEL AUDIO CONTROLS	0 V = MODE, 1.2 V = SEEK, 2.4 V = VOLUME '+', 3.7 V = VOLUME '-'	5V	
0	IC10-5	ANTENNA UP	B+	GROUND	

NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

# Fig. 16.1

#### COMPONENTS

#### Component ANTENNA MOTOR CD AUTO-CHANGER INSTRUMENT PACK

# RADIO / CASSETTE HEAD UNIT RADIO ANTENNA

RADIO CONTROL SWITCHES (STEERING WHEEL) RADIO TELEPHONE CONNECTOR SPEAKER, 'A' POST TWEETER - LH SPEAKER, 'A' POST TWEETER - RH SPEAKER, REAR DOOR MID-BASS - DRIVER SIDE SPEAKER, REAR DOOR MID-BASS ~ PASSENGER SIDE SPEAKER, REAR DOOR TWEETER - DRIVER SIDE SPEAKER, REAR DOOR TWEETER - PASSENGER SIDE SPEAKER, FRONT DOOR MID-BASS - DRIVER SIDE SPEAKER, FRONT DOOR MID-BASS - PASSENGER SIDE SPEAKER, FRONT DOOR TWEETER - DRIVER SIDE SPEAKER, FRONT DOOR TWEETER - PASSENGER SIDE

#### Connector / Type / Color

BT 19 / 6-WAY YAZAKI TYPE C / WHITE IC5 / CD AUTOCHANGER DATA CABLE EC24 / 48-WAY AMP MODULE PCB SIG FC25 / 24-WAY AMP MODULE PCB SIGN CA3 / COAXIAL CONNECTOR IC10 / 20-WAY MULTILOCK 070 / WHITE IC19 / CD AUTOCHANGER DATA CABLE CA7 / COAXIAL CONNECTOR SW4 / 3-WAY EPC / BLACK / WHITE RT2 / 10-WAY MULTILOCK 070 / WHITE CA56 / 2-WAY MULTILOCK 040 / BLACK CA54 / 2-WAY MULTILOCK 040 / BLACK RD6 / 2-WAY GROTE & HARTMAN MDK RP6 / 2-WAY GROTE & HARTMAN MDK RD5 / 2-WAY GROTE & HARTMAN MDK RP5 / 2-WAY GROTE & HARTMAN MDK DD6 / 2-WAY GROTE & HARTMAN MDK PD6 / 2-WAY GROTE & HARTMAN MDK DD5 / 2-WAY GROTE & HARTMAN MDK PD5 / 2-WAY GROTE & HARTMAN MDK

#### HARNESS-TO-HARNESS CONNECTORS

Type / Color	Location / Acce
54-WAY THROUGH PANEL / BLACK	BELOW PARCEL SHELF
8-WAY MULTILOCK 070 / YELLOW	DRIVER 'A' POST / DOOI
8-WAY MULTILOCK 070 / YELLOW	PASSENGER 'A' POST /
6-WAY MULTILOCK 070 / WHITE	DRIVER 'B/C' POST / DO
6-WAY MULTILOCK 070 / WHITE	PA\$SENGER 'B/C' POST
54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW DRIVER SIDE AI
14-WAY MULTILOCK 070 / WHITE	LH HEELBOARD
12-WAY MULTILOCK 070 / WHITE	LH HEELBOARD
12-WAY MULTILOCK 070 / GREY	ADJACENT TO STEERIN
	Type / Color 54-WAY THROUGH PANEL / BLACK 8-WAY MULTILOCK 070 / YELLOW 6-WAY MULTILOCK 070 / YELLOW 6-WAY MULTILOCK 070 / WHITE 54-WAY MULTILOCK 070 / WHITE 12-WAY MULTILOCK 070 / WHITE 12-WAY MULTILOCK 070 / GREY

#### GROUNDS

Ground	Location / Type
BT28L	EYELET (PAIR) - TRUNK / RH CENTER GROUND STUD (RH FORWARD - EARLY PRO
CE2	EYELET (SINGLE) - RADIO GROUND STUD / TRANSMISSION TUNNEL / CENTER
FC17R	EYELET (PAIR) – EMS BULKHEAD GROUND STUD

#### CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)



The following symbols are used to represent values for Control Module Pin Out data:

Serial and encoded communications

- Input
- O Output
- SG Signal Ground
- CAN (Network) С SCP Network S

D

- B+ Battery voltage
- v Voltage (DC)
- Hz Frequency
- KHz Frequency x 1000 MS Milliseconds MV Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

	Location / Access
	ANTENNA MOTOR ASSEMBLY / BATTERY COVER
	TRUNK LH SIDE / TRUNK CARPET
NAL / BLACK NAL / BLACK	FASCIA
	CENTER CONSOLE
	ANTENNA MOTOR ASSEMBLY / BATTERY COVER
	STEERING WHEEL
	BELOW CENTER CONSOLE GLOVE BOX
	LH 'A' POST / UPPER 'A' POST TRIM
	RH 'A' POST / UPPER 'A' POST TRIM
/ BLACK	DOOR CASING / TRIM PANEL
/ BLACK	DOOR CASING / TRIM PANEL
/ BLACK	DOOR CASING / TRIM PANEL
/ BLACK	DOOR CASING / TRIM PANEL
/ BLACK	DOOR CASING / TRIM PANEL
/ BLACK	DOOR CASING / TRIM PANEL
/ BLACK	DOOR CASING / TRIM PANEL
/ BLACK	DOOR CASING / TRIM PANEL

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/ TRUNK / REAR BULKHEAD / RH SIDE R HARNESS GAITER DOOR HARNESS GAITER OR HARNESS GAITER T / DOOR HARNESS GAITER IR VENT / COIN TRAY

NG COLUMN MOTOR

RODUCTION VEHICLES)

# REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS,

#### **INSTRUMENT PACK**

$\bigtriangledown$	Pin	Description	Active	Inactive
С	FC24-24	CAN NETWORK	15 – 1500 Hz	
С	FC24-47	CAN NETWORK	15 – 1500 Hz	
0	FC25-20	VEHICLE SPEED	22 Hz @ 10 MPH (16 KM/H); 44 Hz @ 20 MPH (32 KM/H) @ B+	
PO	WER AMF	PLIFIER		
$\bigtriangledown$	Pin	Description	Active	Inactive
T.	IC30-1	RH REAR CHANNEL LOW LEVEL INPUT	0 - 30 Mv	0 Mv
1	IC30-2	RH FRONT CHANNEL LOW LEVEL INPUT	0 - 30 Mv	0 Mv
SG	IC30-3	SIGNAL GROUND	GROUND	GROUND
1	IC30-6	LH REAR CHANNEL LOW LEVEL INPUT	0 – 30 Mv	0 Mv
ł	IC30-7	LH FRONT CHANNEL LOW LEVEL INPUT	0 – 30 Mv	0 Mv
I	IC31-1	AMPLIFIER TRIGGER ON SIGNAL	B+	GROUND
RA	DIO / CAS	SSETTE HEAD UNIT		
$\bigtriangledown$	Pin	Description	Active	Inactive
1	IC10-1	VEHICLE SPEED	22 Hz @ 10 MPH (16 KM/H)· 44 Hz @ 20 MPH (32 KM/H) @ B+	
	1010.0			

IC10-2 STEERING WHEEL AUDIO CONTROLS 0 V = MODE, 1.2 V = SEEK, 2.4 V = VOLUME '+', 3.7 V = VOLUME '-' 5V O IC10-5 ANTENNA UP GROUND B-

NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

# Fig. 16.2

#### COMPONENTS

#### Component ANTENNA MOTOR CD AUTO-CHANGER INSTRUMENT PACK POWER AMPLIFIER

#### RADIO / CASSETTE HEAD UNIT

RADIO ANTENNA RADIO CONTROL SWITCHES (STEERING WHEEL) RADIO TELEPHONE CONNECTOR SPEAKER, 'A' POST TWEETER - LH SPEAKER, 'A' POST TWEETER - RH SPEAKER, REAR DOOR MID-BASS -- DRIVER SIDE SPEAKER, REAR DOOR MID-BASS – PASSENGER SIDE SPEAKER, REAR DOOR TWEETER - DRIVER SIDE SPEAKER, BEAR DOOR TWEETER - PASSENGER SIDE SPEAKER FRONT DOOR MID-BASS - DRIVER SIDE SPEAKER, FRONT DOOR MID-BASS - PASSENGER SIDE SUBWOOFER

#### Connector / Type / Color BT19 / 6-WAY YAZAKI TYPE C / WHITE IC5 / CD AUTOCHANGER DATA CABLE FC24 / 48-WAY AMP MODULE PCB SIGNA FC25 / 24-WAY AMP MODULE PCB SIGNA IC30 / 12-WAY MULTILOCK 070 / WHITE IC31 / 18-WAY MULTILOCK 070 / WHITE CA3 / COAXIAL CONNECTOR IC10 / 20-WAY MULTILOCK 070 / WHITE IC19 / CD AUTOCHANGER DATA CABLE CA7 / COAXIAL CONNECTOR SW4 / 3-WAY EPC / BLACK / WHITE RT2 / 10-WAY MULTILOCK 070 / WHITE CA56 / 2-WAY MULTILOCK 040 / BLACK CA54 / 2-WAY MULTILOCK 040 / BLACK RD6 / 2-WAY GROTE & HARTMAN MDK / RP6 / 2-WAY GROTE & HARTMAN MDK / BD5 / 2-WAY GROTE & HARTMAN MDK RP5 / 2-WAY GROTE & HARTMAN MDK / DD6 / 2-WAY GROTE & HARTMAN MDK PD6 / 2-WAY GROTE & HARTMAN MDK BT52 / 2-WAY GROTE & HARTMAN MDK BT53 / 2-WAY GROTE & HARTMAN MDK

#### HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Acc
BT4	54-WAY THROUGH PANEL / BLACK	BELOW PARCEL SHEL
CA10	8-WAY MULTILOCK 070 / YELLOW	DRIVER 'A' POST / DO
CA12	8-WAY MULTILÓCK 070 / YÉLLÓW	PASSENGER 'A' POST
CA14	6-WAY MULTILOCK 070 / WHITE	DRIVER 'B/C' POST / D
CA16	6-WAY MULTILOCK 070 / WHITE	PASSENGER 'B/C' POS
FC5	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW DRIVER SIDE /
IC1	14-WAY MULTILOCK 070 / WHITE	LH HEELBOARD
IC3	12-WAY MULTILOCK 070 / WHITE	LH HEELBOARD
SC3	12-WAY MULTILOCK 070 / GREY	ADJACENT TO STEER

#### GROUNDS

Ground	Location / Type
BT22R	EYELET (PAIR) – TRUNK / RH CENTER GROUND STUD
BT28L	EYELET (PAIR) - TRUNK / RH CENTER GROUND STUD (RH FORWARD - EARLY PRODU
CE2	EYELET (SINGLE) - RADIO GROUND STUD / TRANSMISSION TUNNEL / CENTER
FC17R	EYELET (PAIR) – EMS BULKHEAD GROUND STUD

#### CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)



The following symbols are used to represent values for Control Module Pin Out data:

- Input
- 0 Output
- SG Signal Ground
- CAN (Network) С S
  - SCP Network

D Serial and encoded communications

- B+ Battery voltage Voltage (DC) v
- Hz Frequency
- KHz Frequency x 1000 MS Milliseconds MV Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

Location /	Access
------------	--------

AL / BLACK AL / BLACK	ANTENNA MOTOR ASSEMBLY / BATTERY COVER TRUNK LH SIDE / TRUNK CARPET FASCIA
	TRUNK LH SIDE / TRUNK CARPET
	CENTER CONSOLE
	ANTENNA MOTOR ASSEMBLY / BATTERY COVER STEERING WHEEL BELOW CENTER CONSOLE GLOVE BOX LH 'A' POST / UPPER 'A' POST TRIM RH 'A' POST / UPPER 'A' POST TRIM
BLACK	DOOR CASING / TRIM PANEL
BLACK	DOOR CASING / TRIM PANEL
BLACK	DOOR CASING / TRIM PANEL
BLACK	DOOR CASING / TRIM PANEL
BLACK	DOOR CASING / TRIM PANEL
BLACK	DOOR CASING / TRIM PANEL
/ BLACK / BLACK	ABOVE FUEL TANK / TRUNK CARPET

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LF / TRUNK / REAR BULKHEAD / RH SIDE OR HARNESS GAITER / DOOR HARNESS GAITER DOOR HARNESS GAITER ST / DOOR HARNESS GAITER AIR VENT / COIN TRAY

ING COLUMN MOTOR

UCTION VEHICLES)

# REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS,

# Fig. 16.3

#### COMPONENTS

TELEPHONE ANTENNA

## Component

#### Connector / Type / Color

RT64 / COAXIAL CONNECTOR RT65 / COAXIAL CONNECTOR RT66 / COAXIAL CONNECTOR RT5 / TELEPHONE / PROPRIETARY CA67 / 2-WAY MULTILOCK 040 / BLUE RT3 / TELEPHONE / PROPRIETARY RT4 / TELEPHONE / PROPRIETARY

TELEPHONE HANDSET TELEPHONE MICROPHONE TELEPHONE TRANSCEIVER

## HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color
RT1	TELEPHONE / PROPRIETARY
RT2	10-WAY MULTILOCK 070 / WHITE

Location / Access CENTER CONSOLE

#### GROUNDS

Ground CA38R

Location / Type EYELET (PAIR) - LH HEELBOARD POST GROUND SCREW

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

#### Location / Access

BELOW CENTER CONSOLE GLOVE BOX HEATED BACKLIGHT / HEADLINING / REAR CENTER CONSOLE CENTER CONSOLE ROOF CONSOLE CENTER CONSOLE

BELOW CENTER CONSOLE GLOVE BOX

#### **AIRBAG / SRS SINGLE POINT SENSOR**

$\bigtriangledown$	Pin	Description
0	CA61-1	LH SEAT BELT PRETENSIONER POWER SUPPLY
0	CA61-2	LH SEAT BELT PRETENSIONER GROUND SUPPLY
0	CA61-3	RH SEAT BELT PRETENSIONER POWER SUPPLY
0	CA61-4	RH SEAT BELT PRETENSIONER GROUND SUPPLY
1	CA61-5	IGNITION SUPPLY VOLTAGE
1	CA61-6	GROUND SUPPLY
0	CA61-7	INSTRUMENT PACK 'SRS' MIL
D	CA61-9	DIAGNOSTIC OUTPUT SERIAL OUTPUT
0	CA61-10	STEERING WHEEL AIRBAG POWER SUPPLY
0	CA61-11	STEERING WHEEL AIRBAG GROUND SUPPLY
0	CA61-13	PASSENGER FASCIA AIRBAG POWER SUPPLY
0	CA61-14	PASSENGER FASCIA AIRBAG GROUND SUPPLY
0	CA61-16	DRIVER SIDE AIRBAG POWER SUPPLY
0	CA61-17	DRIVER SIDE AIRBAG GROUND SUPPLY
0	CA61-18	PASSENGER SIDE AIRBAG POWER SUPPLY
0	CA61-19	PASSENGER SIDE AIRBAG GROUND SUPPLY
1	CA61-20	LH SIDE IMPACT SENSOR GROUND SUPPLY
I	CA61-21	RH SIDE IMPACT SENSOR GROUND SUPPLY
1	CA61-22	LH SIDE IMPACT SENSOR STATUS
1	CA61-23	RH SIDE IMPACT SENSOR STATUS
1	CA61-24	LH SIDE IMPACT SENSOR GROUND SUPPLY STATUS
I	CA61-25	RH SIDE IMPACT SENSOR GROUND SUPPLY STATUS
0	CA61-40	SRS AUDIBLE BACKUP

Active
B+
GROUND
B÷
GROUND
B+
GROUND
GROUND (NO FAULT)
ENCODED COMMUNICATION
B+
GROUND
GROUND
GROUND
GROUND (SHORTED)
GROUND (SHORTED)
GROUND (NO FAULT)
GROUND (NO FAULT)
ENCODED COMMUNICATIONS

Inactive
OPEN CIRCUIT
OPEN CIRCUIT
OPEN CIRCUIT
OPEN CIRCUIT
GROUND
GROUND
B+
OPEN CIRCUIT
B+
B+
B+
B+
GROUND
GROUND

# Fig. 17.1

## COMPONENTS

### Component

,omponent
IRBAG / SRS SINGLE POINT SENSOR
IRBAG - DRIVER SIDE
IRBAG - PASSENGER SIDE
EAT BELT PRETENSIONER – LH
EAT BELT PRETENSIONER – RH
IDE AIRBAG - DRIVER
IDE AIRBAG - PASSENGER
IDE IMPACT SENSOR - LH
IDE IMPACT SENSOR - RH
PLICE HEADER CA225

#### Connector / Type / Color

CA61 / 50-WAY ELO50 / YELLOW SW11/3-WAY EPC / BLACK CA81 / 3 WAY CARDEL / FORD / GREY CA62 / 2-WAY FORD AIRBAG / YELLOW CA65 / 2-WAY FORD AIRBAG / YELLOW SM15-D / 2-WAY AMPHENOL / YELLOW SM15-P / 2-WAY AMPHENOL / YELLOW CA15 / 3-WAY MOLEX C-GRID / BLACK CA22 / 3-WAY MOLEX C-GRID / BLACK CA225 / 20-WAY SUMITOMO SPLICE HEADER / NATURAL

#### HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Acce
CA66	3-WAY FORD / CARD / BLACK	BELOW SEAT
CA72	3-WAY FORD / CARD / BLACK	BELOW SEAT
FC5	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW DRIVER SIDE AIR
SW10	3-WAY EPC / BLACK	CENTER OF STEERING V

#### GROUNDS

Ground	Location / Type
CA48	EYELET (SINGLE) - RH HEELBOARD POST GROUND SCREW (AIRBAG ONLY

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)



The following symbols are used to represent values for Control Module Pin Out data:

- Input D Serial and encoded communications
- O Output
- SG Signal Ground
- С S
- CAN (Network) SCP Network
- Voltage (DC) v
  - Hz Frequency

B+ Battery voltage

KHz Frequency x 1000 MS Milliseconds MV Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

#### Location / Access

BELOW CENTER CONSOLE ASSEMBLY CENTER OF STEERING WHEEL PASSENGER AIR BAG INSIDE LH 'B/C' POST / 'B/C' POST TRIM INSIDE RH 'B/C' POST / 'B/C' POST TRIM DRIVER SEAT / SIDE PASSENGER SEAT / SIDE INSIDE 'B/C' POST / 'B/C' POST TRIM INSIDE 'B/C' POST / 'B/C' POST TRIM LH HEELBOARD / HEELBOARD COVER

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R VENT / COIN TRAY WHEEL

#### BODY PROCESSOR MODULE

$\sim$	Pin	Description
1	FC15-4	HORN ACTIVATE REQUEST
0	FC15-70	HORN RELAY ACTIVATE
1	FC15-80	BATTERY SUPPLY VOLTAGE

Active GROUND (MOMENTARY) GROUND (MOMENTARY)

Inactive

B+

B+

B+

## COMPONENTS

Fig. 18.1

Component	Connector / Type / Color
BODY PROCESSOR MODULE	FC15 / 14-WAY AMP EEEC / GREY
CIGAR LIGHTER – FRONT	CA74 / 3-WAY MULTILOCK 070 / WHITE
DIGAR LIGHTER - REAR	CA75 / 2-WAY CIGAR LIGHTER / YELLOW CA76 / LUCAR – LOCKING POSILOCK MKI
-USE BOX ENGINE COMPARTMENT	LS5 / 10-WAY U.T.A. FUSE BOX / NATUR. LS6 / 10-WAY U.T.A. FUSE BOX / BLACK LS7 / 10-WAY U.T.A. FUSE BOX / GREEN LS8 / 10-WAY U.T.A. FUSE BOX / BLUE ST19 / EYELET
EUSE BOX – TRUNK	BT10 / 10-WAY U.T.A. FUSE BOX / NATUI BT11 / 10-WAY U.T.A. FUSE BOX / BLACK BT12 / 10-WAY U.T.A. FUSE BOX / GREEN BT13 / 10-WAY U.T.A. FUSE BOX / BLUE BT64 / EYELET
HORN SWITCHES (STEERING WHEEL)	HP1 / 1-WAY BLADE HP2 / 1-WAY BLADE
HORN – LH	LS46 / LUCAR – LOCKING POSILOCK MKI LS47 / LUCAR – LOCKING POSILOCK MKI
HORN – RH	LS48 / LUCAR – LOCKING POSILOCK MKI LS49 / LUCAR – LOCKING POSILOCK MKI
PASSENGER COMPARTMENT ACCESSORY CONNECTOR	CA71 / 3-WAY AMP SERIES 250 PIN / BLA
TRUNK ACCESSORY CONNECTOR	BT25 / 3-WAY AMP SERIES 250 PIN / BLA

Case Color	Connect
BROWN	BUS
BROWN	BUS
	Case Color brown brown

#### HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Acc
BT4	54-WAY THROUGH PANEL / BLACK	BELOW PARCEL SHEL
EM1	12-WAY AUGAT 1.6 / BLACK	ENGINE COMPARTME
EM3	14-WAY MULTILOCK 070 / WHITE	PASSENGER 'A' POST
SC2	10-WAY MULTILOCK 070 / YELLOW	ADJACENT TO STEER
SC3	12-WAY MULTILOCK 070 / GREY	ADJACENT TO STEER
SW1	12-WAY MULTILOCK 040 / BLACK	INSIDE STEERING COL
SW2	6-WAY JST / WHITE	CENTER OF STEERING

#### GROUNDS

Ground	Location / Type	
T21R	EYELET (PAIR) – TRUNK / RH REAR GROUND STUD	
A31R	EYELET (PAIR) – RH DRIVE SHAFT TUNNEL GROUND STUD	
A47L	EYELET (PAIR) – DRIVE SHAFT TUNNEL GROUND STUD – RH SIDE	
A47R	EYELET (PAIR) – DRIVE SHAFT TUNNEL GROUND STUD – RH SIDE	
C17R	EYELET (PAIR) – EMS BULKHEAD GROUND STUD	
S18R	EYELET (PAIR) – LH FORWARD GROUND STUD	
\$20R	EYELET (PAIR) – RH FORWARD GROUND STUD	

#### CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)



The following symbols are used to represent values for Control Module Pin Out data:

- 1 Input D Serial and encoded communications
- O Output
- SG Signal Ground
- SCP Network S

С

- CAN (Network)
- B+ Battery voltage Voltage (DC) v
  - Hz Frequency
- KHz Frequency x 1000 MS Milliseconds MV Millivolts

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

	Location / Access
	BULKHEAD / BEHIND GLOVE BOX
	CENTER CONSOLE ASSEMBLY
N KI	REAR CENTER CONSOLE VENT
RAL K N	ENGINE COMPARTMENT / LH FRONT
JRAL K EN	TRUNK ELECTRICAL CARRIER
	CENTER OF STEERING WHEEL
<b>K</b> 1 K1	FORWARD OF RADIATOR - LH SIDE / RADIATOR GRILLE
К! КI	FORWARD OF RADIATOR - RH SIDE / RADIATOR GRILLE
.ACK	RH HEELBOARD / HEELBOARD COVER
ACK	ADJACENT TO BATTERY / BATTERY COVER

#### tor / Color

#### Location / Access

RELAY #6, ENGINE COMPARTMENT FUSE BOX / ENGINE COMPARTMENT RELAY #6, TRUNK FUSE BOX / TRUNK

#### cess

F / TRUNK / REAR BULKHEAD / RH SIDE ENT / ADJACENT TO ABS PUMP T / LOWER 'A' POST FINISHER RING COLUMN MOTOR RING COLUMN MOTOR LUMN COWL WHEEL

REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

# Fig. 19.1

#### COMPONENTS

BODY PROCESSOR MODULE DATA LINK CONNECTOR

ENGINE CONTROL MODULE

INSTRUMENT PACK

DOOR CONTROL MODULE - DRIVER

DOOR CONTROL MODULE - DRIVER REAR

DOOR CONTROL MODULE - PASSENGER

DOOR CONTROL MODULE - PASSENGER REAR

ABS / TRACTION CONTROL CONTROL MODULE

Component

## Connector / Type / Color LS27 / 25-WAY AMP / FORD / BLACK FC15 / 14-WAY AMP EEEC / GREY CC6 / 16-WAY AMP (OBD2) / BLACK DD10 / 22-WAY FORD 2.8 TIMER / BLUE DD11 / 22-WAY FORD 2.8 TIMER / BLACI RD10 / 22-WAY FORD 2.8 TIMER / BLUE RD11 / 22-WAY FORD 2.8 TIMER / BLACI PD10 / 22-WAY FORD 2.8 TIMER / BLUE PD11 / 22-WAY FORD 2.8 TIMER / BLACE PD11 / 22-WAY FORD 2.8 TIMER / BLACK RP10 / 22-WAY FORD 2.8 TIMER / BLUE RP11 / 22-WAY FORD 2.8 TIMER / BLACK EM10 / 28-WAY MULTILOCK 040 / GREY EM12 / 22-WAY MULTILOCK 040 / GREY EM13 / 34-WAY MULTILOCK 040 / GREY EM13 / 34-WAY MULTILOCK 040 / GREY EM14 / 12-WAY MULTILOCK 47 / WHITE EM15 / 22-WAY MULTILOCK 47 / WHITE EM15 / 22-WAY MULTILOCK 47 / WHITE CC14 / 10-WAY MULTILOCK 070 / WHITE FC24 / 48-WAY AMP MODULE PCB SIGN FC25 / 24-WAY AMP MODULE PCB SIGN SM1-D / 16-WAY FORD 2.8 TIMER / BLAC SM2-D / 26-WAY FORD IDC / BLACK

SEAT CONTROL MODULE - PASSENGER

GEAR SELECTOR ILLUMINATION MODULE

SEAT CONTROL MODULE - DRIVER

SPLICE HEADER - CA222 SPLICE HEADER - CA223 TRANSMISSION CONTROL MODULE: AJ26 N/A TRANSMISSION CONTROL MODULE: AJ26 SC

HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Acc
BT4	54-WAY THROUGH PANEL / BLACK	BELOW PARCEL SHEL
CA8	20-WAY MULTILOCK 070 / WHITE	DRIVER 'A' POST / DO
CA11	20-WAY MULTILOCK 070 / WHITE	PASSENGER 'A' POST
CA19	20-WAY MULTILOCK 070 / YELLOW	LH 'A' POST CONNEC
CA23	10-WAY MULTILOCK 070 / WHITE	BELOW DRIVER SEAT
CA27	10-WAY MULTILOCK 070 / WHITE	BELOW PASSENGER
CA45	6-WAY MULTILOCK 070 / WHITE	PASSENGER 'B/C' PO:
CA46	4-WAY MULTILOCK 070 / WHITE	DRIVER 'B/C' POST / D
EM1	12-WAY AUGAT 1.6 / BLACK	ENGINE COMPARTME
EM2	20-WAY MULTILOCK 070 / GREY	PASSENGER 'A' POST
FC1	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW PASSENGER :
FC7	20-WAY MULTILOCK 070 / WHITE	ABOVE DIMMER MOD
FC11	18-WAY MULTILOCK 070 / WHITE	ABOVE DIMMER MOD

#### GROUNDS

Ground Location / Type CC3L EYELET (PAIR) - RH FRONT BULKHEAD STUD / CABIN SIDE

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)

DATE OF ISSUE: SEPTEMBER 1997

Connector / Type / Color	Location / Access
LS27 / 25-WAY AMP / FORD / BLACK	ENGINE COMPARTMENT / BEHIND LH HEADLAMP ASSEMBLY
FC15 / 14-WAY AMP EEEC / GREY	BULKHEAD / BEHIND GLOVE BOX
CC6 / 16-WAY AMP (OBD2) / BLACK	TRANSMISSION TUNNEL
DD10 / 22-WAY FORD 2.8 TIMER / BLUE DD11 / 22-WAY FORD 2.8 TIMER / BLACK	DOOR CASING / TRIM PANEL
RD10 / 22-WAY FORD 2.8 TIMER / BLUE RD11 / 22-WAY FORD 2.8 TIMER / BLACK	DOOR CASING / TRIM PANEL
PD10 / 22-WAY FORD 2.8 TIMER / BLUE PD11 / 22-WAY FORD 2.8 TIMER / BLACK	DOOR CASING / TRIM PANEL
RP10 / 22-WAY FORD 2.8 TIMER / BLUE RP11 / 22-WAY FORD 2.8 TIMER / BLACK	DOOR CASING / TRIM PANEL
EM10 / 28-WAY MULTILOCK 040 / GREY EM11 / 18-WAY MULTILOCK 040 / GREY EM12 / 22-WAY MULTILOCK 040 / GREY EM13 / 34-WAY MULTILOCK 040 / GREY EM14 / 12-WAY MULTILOCK 47 / WHITE EM15 / 22-WAY MULTILOCK 47 / WHITE	ENGINE COMPARTMENT / CONTROL MODULE ENCLOSURE
CC14 / 10-WAY MULTILOCK 070 / WHITE	CENTER CONSOLE ASSEMBLY
FC24 / 48-WAY AMP MODULE PCB SIGNAL / BLACK FC25 / 24-WAY AMP MODULE PCB SIGNAL / BLACK	FASCIA
SM1-D / 16-WAY FORD 2.8 TIMER / BLACK SM2-D / 26-WAY FORD IDC / BLACK SM3-D / 10-WAY FORD 2.8 TIMER / BLACK	DRIVER SEAT / UNDER
SM1-P / 16-WAY FORD 2.8 TIMER / BLACK SM3-P / 10-WAY FORD 2.8 TIMER / BLACK	PASSENGER SEAT / UNDER
CA222 / 20-WAY SUMITOMO SPLICE HEADER / GREY	RH HEELBOARD / HEELBOARD COVER
CA223 / 20-WAY SUMITOMO SPLICE HEADER / BLACK	RH HEELBOARD / HEELBOARD COVER
EM7 / 88-WAY BOSCH / BLACK	ENGINE COMPARTMENT / CONTROL MODULE ENCLOSURE
EM61 / 18-WAY AMP JUNIOR POWER TIMER / BLACK EM62 / 14-WAY AMP JUNIOR POWER TIMER / BLACK	ENGINE COMPARTMENT / CONTROL MODULE ENCLOSURE

#### cess

ELF / TRUNK / RÉAR BULKHEAD / RH SIDE OOR HARNESS GAITER T / DOOR HARNESS GAITER TOR MOUNTING BRACKET / LOWER 'A' POST FINISHER SEAT DST / DOOR HARNESS GAITER DOOR HARNESS GAITER ENT / ADJACENT TO ABS PUMP T / LOWER 'A' POST FINISHER SIDE AIR VENT / GLOVE BOX ASSEMBLY DULE / COIN TRAY DULE / COIN TRAY

REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.



Component

# COMPONENTS

#### Connector / Type / Color

ADAPTIVE DAMPING CONTROL MODULE AIR CONDITIONING CONTROL MODULE

CC28 / 26-WAY MULTILOCK 47 / GREY

CC29 / 16-WAY MULTILOCK 47 / GREY
CC31 / 22-WAY MULTILOCK 47 / GREY
CC27 / 12-WAY MULTILOCK 040 / BLUE
CA61 / 50-WAY ELO50 / YELLOW
FC15 / 14-WAY AMP EEEC / GREY
CC6 / 16-WAY AMP (OBD2) / BLACK
EM10 / 28-WAY MULTILOCK 040 / GREY
EM11 / 16-WAY MULTILOCK 040 / GREY
EM12 / 22-WAY MULTILOCK 040 / GREY
EN14 / 12/MAY MULTILOCK 040 / GREY
EM14/12-WAT MOLTEOCK 4// WHITE
EWIS/22-WAT MOLITEOCK 4/ / WHITE
FC22 / 20-WAY MULTILOCK 040 / GREEN
CA225 / 20-WAY SUMITOMO SPLICE HEADER / NATURAL

SPLICE HEADER - CA225

AIR CONDITIONING CONTROL PANEL

AIRBAG / SRS SINGLE POINT SENSOR

BODY PROCESSOR MODULE

ENGINE CONTROL MODULE

KEY TRANSPONDER MODULE

DATA LINK CONNECTOR

#### HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Acces
CA19	20-WAY MULTILOCK 070 / YELLOW	LH 'A' POST CONNECTO
EM2	20-WAY MULTILOCK 070 / GREY	PASSENGER 'A' POST / L
EM3	14-WAY MULTILOCK 070 / WHITE	PASSENGER 'A' POST / L
EM53	20-WAY MULTILOCK 070 / WHITE	PASSENGER 'A' POST / L
FC11	18-WAY MULTILOCK 070 / WHITE	ABOVE DIMMER MODUL

#### GROUNDS

Location / Type Ground EYELET (PAIR) - RH FRONT BULKHEAD STUD / CABIN SIDE

CC3L

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)



EM68 / 35-WAY AMP JUNIOR POWER TIMER / BLACK

#### Location / Access

ADJACENT TO PASSENGER SIDE BLOWER / GLOVE BOX ASSEMBLY RH SIDE OF TRANSMISSION TUNNEL / GLOVE BOX ASSEMBLY

CENTER CONSOLE BELOW CENTER CONSOLE ASSEMBLY BULKHEAD / BEHIND GLOVE BOX TRANSMISSION TUNNEL ENGINE COMPARTMENT / CONTROL MODULE ENCLOSURE

BELOW INSTRUMENT PACK LH HEELBOARD / HEELBOARD COVER

#### SS

R MOUNTING BRACKET / LOWER 'A' POST FINISHER LOWER 'A' POST FINISHER LOWER 'A' POST FINISHER LOWER 'A' POST FINISHER LE / COIN TRAY



This Appendix contains a listing of CAN and SCP Network messages.

## **Abbreviations**

The following abbreviations are used throughout this Appendix

BPM	Body Processor Module
DIAG	Diagnostics
DDCM	Driver Door Control Module
DRDCM	Driver Rear Door Control Module
DSCM	Driver Seat Control Module
INST	Instrument Pack
PDCM	Passenger Door Control Module
PRDCM	Passenger Rear Door Control Module
PSCM	Passenger Seat Control Module
R	Receive
Т	Transmit
SLCM	Security and Locking Control Module



# Node: Engine Control Module

# Transmitted by ECM

## Message

# Usage

CAN traction acknowledge	Confirms torque reduction for traction control
CAN traction control estimated engine torque	Derived from map of engine characteristics
CAN shift energy management estimated engine torque	Derived from map of engine characteristics
CAN throttle position	Throttle valve position
CAN pedal position	Accelerator pedal position, throttle demand
CAN torque reduction acknowledge	Confirms torque reduction for shift energy management
CAN engine speed	Engine speed
CAN brake pedal pressed	Brake switch status
CAN cruise status	Cruise control system status
CAN park brake status	Indicates whether the parking brake is on
CAN OBDII clear fault codes	Request for ABS and TCM to clear their OBDII DTCs
CAN engine coolant temperature	Engine coolant temperature in Celsius
CAN engine OBDII MIL	MIL control for OBDII DTCs
CAN throttle malfunction red	Red throttle malfunction warnings
CAN throttle malfunction amber	Amber throttle malfunction warnings
CAN ECM fault code MIL status	Indicates whether the ECM DTC should switch MIL on
CAN ECM PECUS flag	PECUS programmed status of ECM
CAN engine fault codes	ECM DTCs, including OBDII P and C codes
CAN fuel used	Derived from injector pulse duration
CAN NWM token – ECM	Message for monitoring network status
CAN diagnostic data out – ECM	To external diagnostics device only

# Node: Engine Control Module

# Received by ECM

Message	Usage	Source
CAN torque reduction throttle	For traction control – throttle intervention	ABS
CAN fast torque reduction ignition	Fast stability control response – ignition retard	ABS
CAN fast torque reduction cylinder	Fast stability control response – cylinder fuel cut off	ABS
CAN torque reduction request	For shift energy management	TCM
CAN transmission overload	Protects transmission against excessive torque	TCM
CAN transmission input speed	Transmission input shaft speed	TCM
CAN transmission output speed	Transmission output shaft speed	TCM
CAN torque converter slip	Percentage of torque converter slip	TCM
CAN kickdown	Kickdown status	TCM
CAN traction status	Indicates if the traction algorithm is functioning	ABS
CAN vehicle reference speed	Vehicle speed based on a standard wheel size	ABS
CAN ABS fault codes	ABS DTCs, including OBDII P and C codes	ABS
CAN OBDII ABS clear acknowledge	Acknowledgment that OBDII DTCs have been cleared	ABS
CAN ABS fault code MIL status	Indicates whether the ABS DTC should switch MIL on	ABS
CAN ABS malfunction	Malfunction information for ABS and brake systems	ABS
CAN sidelamp status	Side lamp state for idle speed control	INST
CAN dipped beam status	Dipped beam state for idle speed control	INST
CAN main beam status	Main beam state for idle speed control	INST
CAN oil pressure low	Indicates low engine oil pressure	INST
CAN fuel level damped	Indicates 'damped' level of fuel in tank	INST
CAN fuel level raw	Indicates 'raw – undamped' level of fuel in tank	INST
CAN gear position actual	Actual transmission gear state	TCM
CAN torque converter status	Indicates torque converter lockup	TCM
CAN gear position selected	Position of transmission rotary switch	TCM
CAN gear selection fault	Indicates validity of Can gear position selected	TCM
CAN transmission shift map	Dynamic shift program currently selected	TCM
CAN transmission oil temperature	Transmission fluid temperature	TCM
CAN transmission malfunction	Transmission malfunction warning	TCM
CAN TCM fault code MIL status	Indicates whether the TCM DTC should switch MIL on	TCM
CAN OBDII TCM clear acknowledge	Acknowledgment that OBDII DTCs have been cleared	TCM
CAN transmission fault codes	TCM DTCs, including OBDII P and C codes	TCM
CAN left front wheel speed	Left front wheel speed	ABS
CAN right front wheel speed	Right front wheel speed	ABS
CAN left rear wheel speed	Left rear wheel speed	ABS
CAN right rear wheel speed	Right rear wheel speed	ABS
CAN NWM token – TCM	Message for monitoring network status	TCM
CAN NWM token – INST	Message for monitoring network status	INST
CAN NWM token – ABS	Message for monitoring network status	ABS
CAN diagnostic data in – ECM	From external diagnostics device only	DIAG



## Node: Transmission Control Module

# Transmitted by TCM

Message	è
---------	---

### Usage

CAN torque reduction request	For shift energy management
CAN transmission overload	Protects transmission against excessive torque
CAN transmission input speed	Transmission input shaft speed
CAN transmission output speed	Transmission output shaft speed
CAN torque converter slip	Percentage of torque converter slip
CAN kickdown	Kickdown status
CAN gear position actual	Actual transmission gear state
CAN torque converter status	Indicates torque converter lockup
CAN gear position selected	Position of transmission rotary switch
CAN gear selection fault	Indicates validity of CAN gear position selected
CAN transmission shift map	Dynamic shift program currently selected
CAN transmission oil temperature	Transmission fluid temperature
CAN transmission malfunction	Transmission malfunction warning
CAN TCM PECUS flag	PECUS programmed status of TCM
CAN gear position target	Target gear position for next shift
CAN torque transfer in progress	Indicates torque transfer in progress during gearshift
CAN TCM fault code MIL status	Indicates whether the TCM DTCs should switch MIL on
CAN OBDII TCM clear acknowledge	Acknowledgment that OBDII DTCs have been cleared
CAN transmission fault codes	TCM DTCs, including OBDII P and C codes
CAN NWM token – TCM	Message for monitoring network status
CAN diagnostic data out – TCM	To external diagnostics device only

## Received by TCM Message CAN traction status CAN shift energy management estimated engin CAN throttle position CAN pedal position CAN torque reduction acknowledge CAN engine speed CAN brake pedal pressed CAN cruise status CAN OBDII clear fault codes CAN engine coolant temperature CAN left front wheel speed CAN right front wheel speed CAN left rear wheel speed CAN right rear wheel speed CAN NWM token- ECM CAN NWM token - INST CAN NWM token - ABS

CAN diagnostic data in – TCM

	Usage	Source
	Indicates if the traction control algorithm is functioning	ABS
e torque	Derived from map of engine characteristics	ECM
	Throttle valve position	ECM
	Accelerator pedal position, throttle demand	ECM
	Confirms torque reduction for shift energy management	ECM
	Engine speed	ECM
	Brake switch status	ECM
	Cruise control system status	ECM
	Request for ABS and TCM to clear their OBDII DTCs	ECM
	Engine coolant temperature in Celsius	ECM
	Left front wheel speed	ABS
	Right front wheel speed	ABS
	Left rear wheel speed	ABS
	Right rear wheel speed	ABS
	Message for monitoring network status	ECM
	Message for monitoring network status	INST
	Message for monitoring network status	ABS
	From external diagnostics device only	DIAG

# **Node: Instrument Pack**

# **Transmitted by INST**

## Usage

CAN side lamp status	Sidelamp status for idle speed control
CAN dipped beam status	Dipped beam state for idle speed control
CAN main beam status	Main beam state for idle speed control
CAN oil pressure low	Indicates low engine oil pressure
CAN fuel level damped	Indicates 'damped' level of fuel in tank
CAN fuel level raw	Indicates 'raw - undamped' level of fuel in tank
CAN NWM token INST	Message for monitoring network status
CAN diagnostic data out INST	To external diagnostics device only

# **Received by INST**

# Message

Message

CAN ABS PECUS flag CAN vehicle reference speed CAN reference distance traveled CAN ABS malfunction CAN engine speed CAN brake pedal pressed CAN brake pedal pressed CAN park brake status CAN gear position selected CAN gear selection fault CAN gear selection fault CAN transmission oil temperature CAN transmission malfunction CAN TCM PECUS flag CAN engine coolant temperature CAN engine OBDII MIL CAN throttle malfunction red CAN throttle malfunction amber CAN ECM PECUS flag CAN throttle malfunction amber CAN ECM PECUS flag CAN throttle malfunction amber CAN ECM PECUS flag CAN fuel used CAN night rear wheel speed CAN NWM token – ECM CAN NWM token – TCM	CAN traction status
CAN vehicle reference speed CAN reference distance traveled CAN ABS malfunction CAN engine speed CAN brake pedal pressed CAN brake pedal pressed CAN park brake status CAN gear position selected CAN gear selection fault CAN transmission oil temperature CAN transmission oil temperature CAN transmission malfunction CAN TCM PECUS flag CAN engine coolant temperature CAN engine OBDII MIL CAN throttle malfunction red CAN throttle malfunction red CAN throttle malfunction amber CAN ECM PECUS flag CAN throttle malfunction amber CAN ECM PECUS flag CAN throttle malfunction amber CAN ECM PECUS flag CAN fuel used CAN night rear wheel speed CAN NWM token – ECM CAN NWM token – TCM	CAN ABS PECUS flag
CAN reference distance traveled CAN ABS malfunction CAN engine speed CAN brake pedal pressed CAN park brake status CAN gear position selected CAN gear selection fault CAN transmission oil temperature CAN transmission malfunction CAN transmission malfunction CAN engine coolant temperature CAN engine coolant temperature CAN engine OBDII MIL CAN throttle malfunction red CAN throttle malfunction amber CAN throttle malfunction amber CAN ECM PECUS flag CAN throttle malfunction amber CAN ECM PECUS flag CAN fuel used CAN right rear wheel speed CAN NWM token – ECM CAN NWM token – TCM	CAN vehicle reference speed
CAN ABS malfunction CAN engine speed CAN brake pedal pressed CAN park brake status CAN gear position selected CAN gear selection fault CAN transmission oil temperature CAN transmission malfunction CAN TCM PECUS flag CAN engine coolant temperature CAN engine OBDII MIL CAN throttle malfunction red CAN throttle malfunction amber CAN throttle malfunction amber CAN ECM PECUS flag CAN throttle malfunction amber CAN throttle malfunction	CAN reference distance traveled
CAN engine speed CAN brake pedal pressed CAN park brake status CAN gear position selected CAN gear selection fault CAN transmission oil temperature CAN transmission malfunction CAN TCM PECUS flag CAN engine coolant temperature CAN engine OBDII MIL CAN throttle malfunction red CAN throttle malfunction amber CAN throttle malfunction amber CAN ECM PECUS flag CAN throttle malfunction amber CAN Secont PECUS flag CAN fuel used CAN right rear wheel speed CAN NWM token – ECM CAN NWM token – TCM	CAN ABS malfunction
CAN brake pedal pressed CAN park brake status CAN gear position selected CAN gear selection fault CAN transmission oil temperature CAN transmission malfunction CAN TCM PECUS flag CAN engine coolant temperature CAN engine OBDII MIL CAN throttle malfunction red CAN throttle malfunction red CAN throttle malfunction amber CAN ECM PECUS flag CAN fuel used CAN fuel used CAN right rear wheel speed CAN NWM token – ECM CAN NWM token – TCM	CAN engine speed
CAN park brake status CAN gear position selected CAN gear selection fault CAN transmission oil temperature CAN transmission malfunction CAN TCM PECUS flag CAN engine coolant temperature CAN engine OBDII MIL CAN throttle malfunction red CAN throttle malfunction red CAN throttle malfunction amber CAN ECM PECUS flag CAN fuel used CAN fuel used CAN right rear wheel speed CAN NWM token – ECM CAN NWM token – TCM	CAN brake pedal pressed
CAN gear position selected CAN gear selection fault CAN transmission oil temperature CAN transmission malfunction CAN TCM PECUS flag CAN engine coolant temperature CAN engine OBDII MIL CAN throttle malfunction red CAN throttle malfunction amber CAN ECM PECUS flag CAN fuel used CAN fuel used CAN right rear wheel speed CAN NWM token – ECM CAN NWM token – TCM	CAN park brake status
CAN gear selection fault CAN transmission oil temperature CAN transmission malfunction CAN TCM PECUS flag CAN engine coolant temperature CAN engine OBDII MIL CAN throttle malfunction red CAN throttle malfunction amber CAN throttle malfunction amber CAN ECM PECUS flag CAN fuel used CAN right rear wheel speed CAN NWM token – ECM CAN NWM token – TCM	CAN gear position selected
CAN transmission oil temperature CAN transmission malfunction CAN TCM PECUS flag CAN engine coolant temperature CAN engine OBDII MIL CAN throttle malfunction red CAN throttle malfunction amber CAN ECM PECUS flag CAN fuel used CAN fuel used CAN right rear wheel speed CAN NWM token – ECM CAN NWM token – TCM	CAN gear selection fault
CAN transmission malfunction CAN TCM PECUS flag CAN engine coolant temperature CAN engine OBDII MIL CAN throttle malfunction red CAN throttle malfunction amber CAN ECM PECUS flag CAN fuel used CAN right rear wheel speed CAN NWM token – ECM CAN NWM token – TCM CAN NWM token – ABS	CAN transmission oil temperature
CAN TCM PECUS flag CAN engine coolant temperature CAN engine OBDII MIL CAN throttle malfunction red CAN throttle malfunction amber CAN ECM PECUS flag CAN fuel used CAN right rear wheel speed CAN NWM token – ECM CAN NWM token – TCM	CAN transmission malfunction
CAN engine coolant temperature CAN engine OBDII MIL CAN throttle malfunction red CAN throttle malfunction amber CAN ECM PECUS flag CAN fuel used CAN right rear wheel speed CAN NWM token – ECM CAN NWM token – TCM CAN NWM token – ABS	CAN TCM PECUS flag
CAN engine OBDII MIL CAN throttle malfunction red CAN throttle malfunction amber CAN ECM PECUS flag CAN fuel used CAN right rear wheel speed CAN NWM token – ECM CAN NWM token – TCM CAN NWM token – ABS	CAN engine coolant temperature
CAN throttle malfunction red CAN throttle malfunction amber CAN ECM PECUS flag CAN fuel used CAN right rear wheel speed CAN NWM token – ECM CAN NWM token – TCM CAN NWM token – ABS	CAN engine OBDII MIL
CAN throttle malfunction amber CAN ECM PECUS flag CAN fuel used CAN right rear wheel speed CAN NWM token – ECM CAN NWM token – TCM CAN NWM token – ABS	CAN throttle malfunction red
CAN ECM PECUS flag CAN fuel used CAN right rear wheel speed CAN NWM token – ECM CAN NWM token – TCM CAN NWM token – ABS	CAN throttle malfunction amber
CAN fuel used CAN right rear wheel speed CAN NWM token – ECM CAN NWM token – TCM	CAN ECM PECUS flag
CAN right rear wheel speed CAN NWM token – ECM CAN NWM token – TCM	CAN fuel used
CAN NWM token – ECM CAN NWM token – TCM	CAN right rear wheel speed
CAN NWM token – TCM	CAN NWM token – ECM
CAN NIM/NI token ABS	CAN NWM token – TCM
CAN INVITUTIONELL - ADS	CAN NWM token – ABS
CAN diagnostic data in – INST	CAN diagnostic data in – INST
-	

Usage	Source
Indicates if the traction algorithm is functioning	ABS
PECUS programmed status of ABS / TC CM	ABS
Vehicle speed based on a standard wheel size	ABS
Rolling count – based on a standard wheel size	ABS
Malfunction information for ABS and brake systems	ABS
Engine speed	ECM
Brake switch status	ECM
Indicates whether the parking brake is on	ECM
Position of transmission rotary switch	TCM
Indicates validity of CAN gear position selected	TCM
Transmission fluid temperature	TCM
Transmission malfunction warning	TCM
PECUS programmed status of TCM	TCM
Engine coolant temperature in Celsius	ECM
MIL control for OBDII DTCs	ECM
Red throttle malfunction warnings	ECM
Amber throttle malfunction warnings	ECM
PECUS programmed status of ECM	ECM
Derived from the injector pulse duration	ECM
Rear right wheel speed	ABS
Message for monitoring network status	ECM
Message for monitoring network status	TCM
Message for monitoring network status	ABS
From external diagnostics device only	DIAG



## Node: ABS / Traction Control Control Module

## Transmitted by ABS / TCCM

## Message

## Usage

CAN torque reduction throttle	For traction control – throttle intervention
CAN fast torque reduction ignition	For fast stability control response – ignition retard
CAN fast torque reduction cylinder	For fast stability control response – cylinder fuel cut off
CAN traction status	Indicates if the traction control algorithm is functioning
CAN ABS PECUS flag	PECUS programmed status of ABS / TCCM
CAN vehicle reference speed	Vehicle speed based on a standard wheel size
CAN reference distance traveled	Rolling count – based on a standard wheel size
CAN ABS fault codes	ABS DTCs, including OBDII P and C codes
CAN OBDII ABS clear acknowledge	Acknowledgment that OBDII DTCs have been cleared
CAN ABS fault code MIL status	Indicates whether the ABS DTC should switch MIL on
CAN ABS malfunction	Malfunction information for ABS and brake systems
CAN ABS status	Indicates whether ABS is operating
CAN left front wheel speed	Left front wheel speed
CAN right front wheel speed	Right front wheel speed
CAN left rear wheel speed	Left rear wheel speed
CAN right rear wheel speed	Right rear wheel speed
CAN NWM token – ABS	Message for monitoring network status
CAN diagnostic data out – ABS	From external diagnostics device only

## Received by ABS / TC CM

#### Message

CAN traction acknowledge CAN traction estimated engine torque CAN transmission input speed CAN transmission output speed CAN torque converter slip CAN kickdown CAN throttle position CAN pedal position CAN engine speed CAN brake pedal pressed CAN OBDII clear fault codes CAN gear position actual CAN torque converter status CAN transmission shift map CAN transmission malfunction CAN gear position target CAN torque transfer in progress CAN transmission fault codes CAN engine OBDII MIL CAN throttle malfunction red CAN throttle malfunction amber CAN ECM fault code MIL status CAN engine DTCs CAN NWM token - ECM CAN NWM token - TCM CAN NWM token - INST CAN diagnostic data in - ABS

Usage	Source
Confirms torque reduction for traction control	ECM
Derived from map of engine characteristics	ECM
Transmission input shaft speed	TCM
Transmission output shaft speed	TCM
Percentage of torque converter slop	TCM
Kickdown status	TCM
Throttle valve position	ECM
Accelerator pedal position, throttle demand	ECM
Engine speed	ECM
Brake switch status	ECM
Request for ABS and TCM to clear their OBDII DTCs	ECM
Actual transmission gear state	TCM
Indicates torque converter lockup	TCM
Dynamic shift program currently selected	TCM
Transmission malfunction warning	TCM
Target gear position for next shift	TCM
Indicates torque transfer in progress during gearshift	TCM
TCM DTCs, including OBDII P and C codes	TCM
MIL control for OBDII DTCs	ECM
Red throttle malfunction warnings	ECM
Amber throttle malfunction warnings	ECM
Indicates whether the ECM DTCs should switch MIL on	ECM
ECM DTCs, including OBDII P and C codes	ECM
Message for monitoring network status	ECM
Message for monitoring network status	TCM
Message for monitoring network status	INST
From external diagnostics device only	DIAG

# Node: Gear Selector Illumination Module (listen Only)

# Received by Gear Selector Illumination Module

Message

Usage

CAN gear position selected CAN gear selection fault Gear selector indicator illumination

TCM TCM

Source

XJ Series 1998



# **CAN Message Matrix**

## T = Transmit; R = Receive

Message	ABS	ECM	тсм	INST	Gear Selector	DIAG
CAN torque reduction throttle	Т	R				
CAN fast torque reduction ignition	Т	R				
CAN fast torque reduction cylinder	Т	R				
CAN traction acknowledge	R	Т				
CAN traction control estimated engine torque	R	т				
CAN torque reduction request		R	т			
CAN transmission overload		R	т			
CAN transmission input speed	R	R	т			
CAN transmission output speed	R	R	т			
CAN torque converter slin	R	D	т			
CAN kickdown	D N	D	т			
CAN traction status	т	R D	T D	D		
	т	K	π	r D		
CAN vehicle reference speed	т	D		r D		
CAN reference distance traveled	т I	ĸ		ĸ D		
	т п			K		
CAN ODDI ADS clear celerauladas	і т	K D				
CAN ABC fault and All status	і т	K				
CAN ABS fault code MIL status	I	K				
CAN ABS malfunction	I	R		R		
CAN ABS status	Ι					
CAN shift energy management estimated engine torque		······	R -			
CAN throttle position	R	Т	R			
CAN pedal position	R	T	R			
CAN torque reduction acknowledge		T	R			
CAN engine speed	R	T	R	R		
CAN brake pedal pressed	R	T	R	R		
CAN cruise status		Т	*R			
CAN park brake status		T		*R		
CAN OBDII clear fault codes	R	Т	R			
CAN side lamp status		R		T		
CAN dipped beam status		R		T		
CAN main beam status		R		T		
CAN oil pressure low		R		T		
CAN fuel level raw		R		T		
CAN fuel level damped		R		T		
CAN gear position actual	R	R	T			
CAN torque converter status	R	R	T			
CAN gear position selected	R	R	T	R	R	
CAN gear selection fault	R	R	T	R	R	
CAN transmission shift map	R	R	Т			
CAN transmission oil temperature		R	Т	R		
CAN transmission malfunction	R	R	т.	R		
CAN TCM PECUS flag			T	R		
CAN gear position target **	R		т			
CAN torque transfer in progress **	R		Т			
CAN TCM fault code MIL status		R	т			
CAN OBDILTCM clear acknowledge		R	т			
CAN transmission fault codes	D	N D	т			
CAN engine coolant temporature	۲۲	л т	ı D	 D		
	n	I т	κ	א ח		
	К	······ I ······		к		

\* NA engines only

\*\* SC engines only



Message	ABS	ECM	ТСМ	INST	Gear Selector	DIAG
CAN throttle malfunction red	R	T		R		
CAN throttle malfunction amber	R	т.		R		
CAN ECM fault code MIL status	R	т				
CAN ECM PECUS flag		Т		R		
CAN engine fault codes	R	Т				
CAN fuel used		Т		R		
CAN left front wheel speed	Τ	R	R			
CAN right front wheel speed	Τ	R	R			
CAN left rear wheel speed	Τ	R	R			
CAN right rear wheel speed	Τ	R	R	R		
CAN NWM token – ECM	R	Т	R	R		
CAN NWM token – TCM	R	R	т	R		
CAN NWM token – INST	R	R	R	T		
CAN NWM token – ABS	Τ	R	R	R		
CAN diagnostic data in – ECM		R				T
CAN diagnostic data in – TCM			R			T
CAN diagnostic data in – INST				R		T
CAN diagnostic data in – ABS	R					T
CAN diagnostic data out – ECM		т				R
CAN diagnostic data out – TCM		т		R		
CAN diagnostic data out – INST				T		R
CAN diagnostic data out – ABS	Т					R



# SCP Message Matrix

# T = Transmit; R = Receive

#	Message Name	INST	BPM	DDCM	PDCM	DSCM	PSCM	DRDCM	PRDCM	SLCM
1	Vehicle speed	Т	R	R						
2	Brake pedal pressed	Т	R							R
3	Module not programmed	R	T	T	T	T	T	T	T	T
4	Left hand drive vehicle		T	R						R
5	Valet mode OFF		T							R
6	Non-superlocking vehicle		T	R						
7	Trailer disconnected		R							T
8	Right hand drive vehicle		Т	R						R
9	Valet mode ON		Т							R
10	Superlocking ON		Т	R						
11	Trailer connected		R							Т
12	Reverse gear selected	т			R					R
13	Not-in-park switch – inactive		т	R	R	R		R		
14	Not-in-park switch $=$ active		т	R	R	R		R		
15		т	T R			IX				
16		т	IX							D
10	Inortia switch inactivo	1	т	D	D					1
10			I т	ĸ	r D					
10	Inel lia Switch – active		I т	K	K ח	n	n	 ח		
19	Ignition Switch Status	R	I ד	K	K	K	K	K	R	K
20	Key not-in-ignition		I T	K	K	K	K	K		K
21	Key In-Ignition		I +	K	K	R	K	K		K
22	Seatbelt telltale OFF	R	I +							
23	Low washer fluid warning OFF	R	I -							
24	Seatbelt telltale ON	R	I							
25	Low washer fluid warning ON	R	T							
26	Security audible indication		R	T	T					T
27	Remote panic enabled		R	R	R					T
28	Intrusion sensing disabled									
29	Security disarm		R	R	R					T
30	Ignition key invalid		T							R
31	Intrusion breach		T							R
32	Intrusion self-check failure		T							R
33	Intrusion sensing enabled									
34	Security armed		R	R	R					T
35	Ignition key valid		T							R
36	Memory set chime		R					T		
37	Recall memory 1		R	R	R	R		T		
38	Recall memory 2		R	R	R	R		T		
39	Recall memory 3		R	R	R	R		T		
40	Set memory 1		R	R	R	R		T		
41	Set memory 2		R	R	R	R		T		
42	Set memory 3		R	R	R	R		T		
43	Stop memory recall		R	R	R	R		T		
44	Memory LED OFF			R				T		
45	Memory recall cancelled		T	T	T	T		R		
46	Memory LED ON			R				T		
47	Mirror fold-flat		R	T						
48	Mirror fold-out		R	T						
49	Stop mirror			T	R					
50	Driver mirror up			T	R					
51	Passenger mirror up			Т	R					
52	Driver mirror down			т	R					
52	Passenger mirror down			і т	R					
51	Passenger mirror right			т	N P					
54	r assonger minor nynt			·····	18	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •

# XJ Series 1998

#	Message Name	INST	BPM	DDCM	PDCM	DSCM	PSCM	DRDCM	PRDCM	SLCM
55	Passenger mirror left			T	R					
56	Unlock all doors			T / R	T / R			R	R	
57	Unlock fuel filler flap			T						R
58	Remote unlock		R	R	R			R		T
59	Remote trunk release		R							T
60	Lock all doors		R	T	T					
61	Lock fuel filler flap			T						R
62	Superlock all doors			T / R	T / R			R	R	
63	Remote superlock			R	R					T
64	Remote lock			R	R					T
65	Vehicle unlocked		R	T						R
66	Driver front door unlocked			R	R					T
67	Passenger front door unlocked			R	R					T
68	Exterior trunk release disabled		R	T						
69	Driver door lock cylinder status		R	T	R			R	R	R
70	Passenger door lock cylinder status		R	R	T			R	R	R
71	Remote transmitter ID							R		T
72	Vehicle locked		R	T						R
73	Driver front door locked			R	R					T
74	Passenger front door locked			R	R					T
75	Exterior trunk release enabled		R	T						
76	Central locking switch active		T	R	R					R
77	Open trunk		Т							R
78	Hood closed	R	T	R	R					R
79	Driver front door closed	R	R	T	R	R		R		R
80	Passenger front door closed	R	R	R	Т		R			R
81	Driver rear door closed	R	R	R	R			T		R
82	Passenger rear door closed	R	R	R	R				T	R
83	Trunk closed	R	R	R	R					T
84	Hood aiar	R	Т	R	R					R
85	Driver front door aiar	R	R	Т	R	R		R		R
86	Passenger front door aiar	R	R	R	Т		R			R
87	Driver rear door aiar	R	R	R	R			Т		R
88	Passenger rear door aiar	R	R	R	R				Т	R
89	Trunk ajar	R	R	R	R					Т
90	Exterior trunk release active		R							Т
91	Driver seat exit position		Т			R				
92	Driver seat entry / exit mode initiated		Т			R				
93	Sunroof position status		R	Т						
94	Stop global window close		T	R	R			R	R	
95	Stop suproof close		R	Т						
96	Stop passenger front window			Т	R					
97	Stop driver rear window			Т				R		
98	Stop passenger rear window			Т					R	
99	Rear window switches – enable		т					R	R	
100	Open passenger front window			Т	R					
101	Open driver rear window			т				R		
102	Open passenger rear window			т					R	
103	Global close windows		т	R	R			R	R	
104	Close driver front window			R						
105	Close sunroof		R	т						
106	Close passenger front window			т	R				••••••	
107	Close driver rear window			Т				R		

(continued)



# SCP Message Matrix

# T = Transmit; R = Receive

#	Message Name	INST	BPM	DDCM	PDCM	DSCM	PSCM	DRDCM	PRDCM	SLCM
108	Close passenger rear window			T					R	
109	Inhibit rear window switches		T					R	R	
110	Tail lamp failure	R	T							
111	Stop lamp failure	R								T
112	Tail lamps OK	R	T							
113	Stop lamps OK	R								T
114	Rear fog lamps OFF		T							R
115	Remote headlamps OFF		R							T
116	Rear fog lamps ON		T							R
117	Remote headlamps ON		R							T
118	Dip beam OFF	R	T							
119	Side lamps OFF	R	T							
120	Hazard lamps OFF	R	T							
121	Left DI lamps OFF	R	T							
122	Right DI lamps OFF	R	T							
123	Main beam OFF	R	T							
124	Rear fog lamps OFF		R							T
125	Main beam flash disabled		T							R
126	Dip beam ON	R	T							
127	Side lamps ON	R	T							
128	Hazard lamps ON	R	T							
129	Left DI lamps ON	R	T							
130	Right DI lamps ON	R	T							
131	Main beam ON	R	T							
132	Rear fogs status – ON		R							T
133	Main beam flash enabled		T							R
134	Interior lights OFF	R	T							
135	Interior lights ON	R	T							
136	Valet mode message OFF	R	T							
137	Valet mode message	R	T							
138	Wake-up network	Τ	T	T	T	T	T	T	T	T
139	Network status – awake	T / R	T / R	T / R	T / R	T / R	T/R	T / R	T/R	T / R
140	Entering sleep mode	T / R	T / R	T / R	T / R	T / R	T/R	T / R	T/R	T / R