

**CONTROL MODULE PIN OUT INFORMATION**

**Fig. 09.2**

**BODY PROCESSOR MODULE**

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

**INSTRUMENT PACK**

Pin	Description	Active	Inactive
C	FC24-11	CAN NETWORK	15 – 1500 Hz
S	FC24-13	SCP NETWORK	2 – 1600 Hz
S	FC24-14	SCP NETWORK	2 – 1600 Hz
C	FC24-24	CAN NETWORK	15 – 1500 Hz

**SECURITY AND LOCKING CONTROL MODULE**

Pin	Description	Active	Inactive
O	BT1-3	RH STOP LAMP SUPPLY	B+
O	BT1-4	REAR FOG LAMP SUPPLY	B+
O	BT1-5	REVERSE LAMP SUPPLY	B+
I	BT1-6	BATTERY SUPPLY	B+
O	BT1-7	SPLIT CHARGE CONTROL	
S	BT1-8	SCP NETWORK	2 – 1600 Hz
O	BT1-9	LH STOP LAMP SUPPLY	B+
I	BT1-13	LOGIC GROUND	GROUND
I	BT1-14	LOGIC GROUND	GROUND
S	BT1-16	SCP NETWORK	2 – 1600 Hz
I	BT2-1	BRAKE SWITCH STATUS	GROUND (BRAKE ON)
I	BT2-6	TRAILER CONNECTION STATUS	GROUND (TRAILER PRESENT)

**NOTE:** Refer to the Appendix at the rear of this book for CAN and SCP Network messages.

The following abbreviations are used to represent values for Control Module Pin-Out data

<b>I</b>	<b>Input</b>	<b>SG</b>	<b>Sensor Ground</b>	<b>S</b>	<b>SCP Network</b>	<b>V</b>	<b>Voltage (DC)</b>
<b>O</b>	<b>Output</b>	<b>A</b>	<b>ACP Network</b>	<b>D</b>	<b>Serial and Encoded Data</b>	<b>Hz</b>	<b>Frequency</b>
<b>SS</b>	<b>Sensor Supply V</b>	<b>C</b>	<b>CAN (Network)</b>	<b>B+</b>	<b>Battery Voltage</b>	<b>kHz</b>	<b>Frequency x 1000</b>

**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.

**COMPONENTS**

Component	Connector / Type / Color	Location / Access
BODY PROCESSOR MODULE	FC15 / 14-WAY AMP EEEC / GREY	BULKHEAD / BEHIND GLOVE BOX
BRAKE SWITCH	CC40 / 4-WAY MULTILOCK 070 / WHITE	ADJACENT TO THE BRAKE PEDAL MOUNTING ASSEMBLY
CENTER CONSOLE SWITCH PACK	CC1 / 16-WAY FORD IDC S.U. / BLACK	CENTER CONSOLE SWITCH PACK
DIODE (BT40) – NUMBER PLATE	BT40 / 2-WAY DIODE MODULE ASSEMBLY	ADJACENT TO BATTERY / BATTERY COVER
FOG LAMP SWITCHES	FC3 / 10-WAY AMP MICRO QUAD LOCK / NATURAL	FASCIA / OUTBOARD OF STEERING COLUMN
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
HIGH MOUNTED STOP LAMP	CA35 / 2-WAY YAZAKI / NATURAL	BACKLIGHT
INSTRUMENT PACK	FC24 / 26-WAY AMP MICRO QUAD LOCK / BLACK FC25 / 26-WAY AMP MICRO QUAD LOCK / YELLOW SC2 / 10-WAY MULTILOCK 070 / YELLOW	FASCIA
LIGHTING STALK (COLUMN SWITCHGEAR)		COLUMN SWITCHGEAR HARNESS / ADJACENT TO STEERING COLUMN MOTOR
NUMBER PLATE LAMP – LH	BT27 / 2-WAY AMP POSILOK II / BLACK	BEHIND TRUNK LID LINER
NUMBER PLATE LAMP – RH	BT26 / 2-WAY AMP POSILOK II / BLACK	BEHIND TRUNK LID LINER
REAR SIDE MARKER – LH (NAS ONLY)	BT29 / 2-WAY REINSHAGEN / VOLKSWAGEN / BLACK	TRUNK LH SIDE / TRUNK CARPET
REAR SIDE MARKER – RH (NAS ONLY)	BT31 / 2-WAY REINSHAGEN / VOLKSWAGEN / BLACK	TRUNK RH SIDE / TRUNK CARPET
SECURITY AND LOCKING CONTROL MODULE	BT1 / 16-WAY FORD 2.8 TIMER / BLACK BT2 / 26-WAY FORD IDC / BLACK BT6 / 2-WAY MINI UHF / METALLIC	BELOW TRUNK FUSE BOX
TAIL LAMP UNIT – LH	BT51 / 7-WAY FRAM – FORD 2.8 TIMER / BLACK	TRUNK LH SIDE / REAR LAMP COVER
TAIL LAMP UNIT – RH	BT50 / 7-WAY FRAM – FORD 2.8 TIMER / BLACK	TRUNK RH SIDE / REAR LAMP COVER
TRAILER CONNECTOR	BT32 / 14-WAY MULTILOCK 070 / YELLOW	ABOVE TRUNK FUSE BOX

**RELAYS**

Relay	Case Color	Connector / Color	Location / Access
STOP LAMP RELAY	BROWN	BUS	RELAY #5, TRUNK FUSE BOX / TRUNK
SIDE MARKER AND NUMBER PLATE LAMP RELAY	BROWN	BUS	RELAY #3, TRUNK FUSE BOX / TRUNK

**HARNESS-TO-HARNESS CONNECTORS**

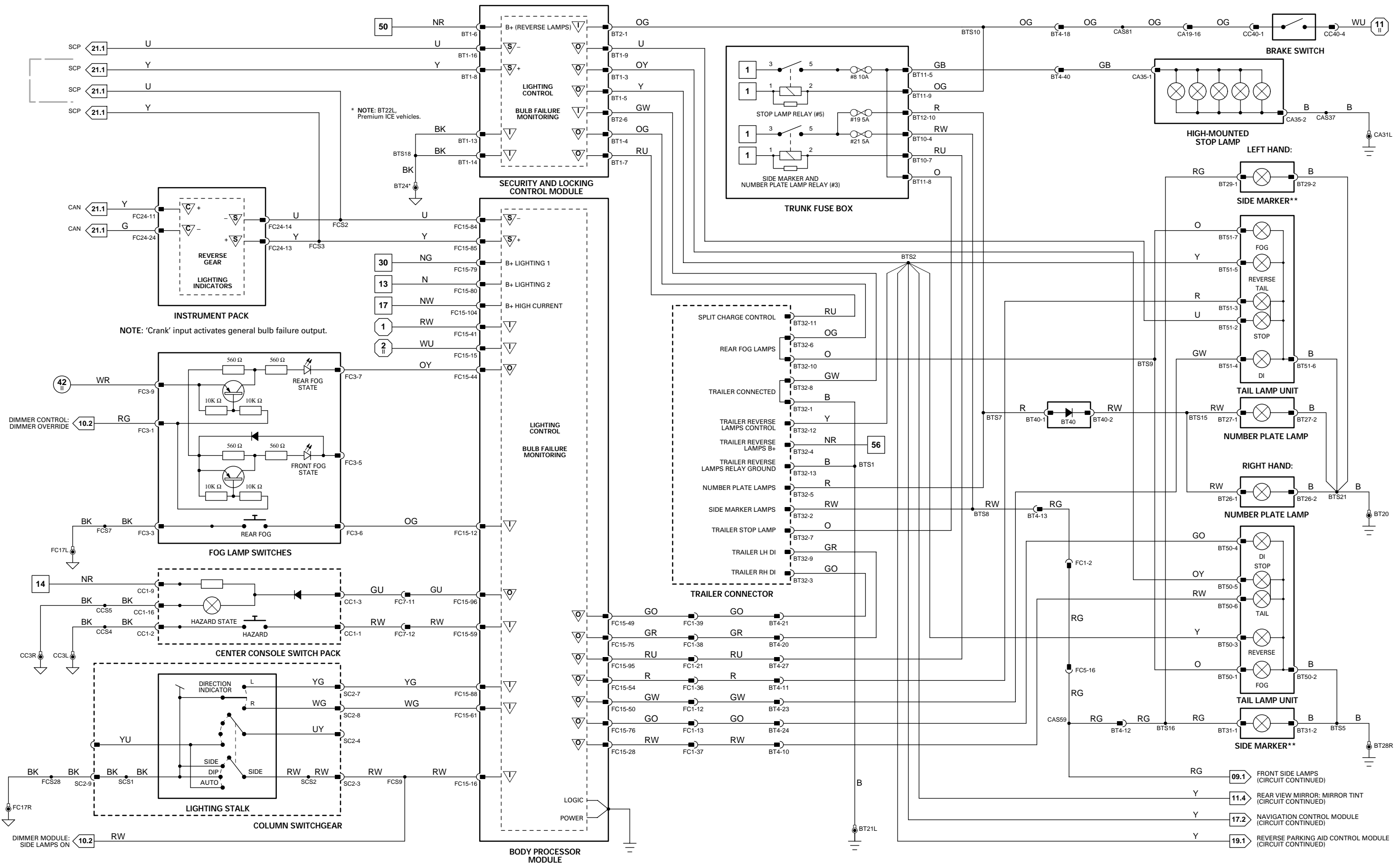
Connector	Type / Color	Location / Access
BT4	54-WAY THROUGH PANEL / GREY	BELOW PARCEL SHELF / TRUNK / REAR BULKHEAD / RH SIDE
CA19	20-WAY MULTILOCK 070 / YELLOW	LH 'A' POST CONNECTOR MOUNTING BRACKET / LOWER 'A' POST FINISHER
FC1	54-WAY THROUGH PANEL CONNECTOR / GREY	BELOW PASSENGER SIDE AIR VENT / GLOVE BOX ASSEMBLY
FC5	54-WAY THROUGH PANEL CONNECTOR / GREY	BELOW DRIVER SIDE AIR VENT / COIN TRAY
FC7	20-WAY MULTILOCK 070 / YELLOW	ABOVE DIMMER MODULE / COIN TRAY

**GROUND**

Ground	Location / Type
BT20	EYELET (SINGLE) – TRUNK / RH REAR GROUND STUD
BT21L	EYELET (PAIR) – TRUNK / RH REAR GROUND STUD
BT22L*	EYELET (PAIR) – TRUNK / RH CENTER GROUND STUD (*PREMIUM ICE)
BT24*	EYELET (SINGLE) – TRUNK / RH CENTER GROUND STUD (*STANDARD ICE)
CA31L	EYELET (PAIR) – RH DRIVE SHAFT TUNNEL GROUND STUD
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

**FOR CONTROL MODULE PIN OUT INFORMATION, UNFOLD PAGE TO LEFT.**

Refer to the front of this book for detailed information and illustrations regarding the location and identification of harnesses, relays, grounds, control modules and control module pins.



\*\* NOTE: Side Marker Lamps - NAS only.