



SERVICE ACTION

Service Action
Number: S514V5

Subject

Throttle Closed Position Operation

Publication No.:	303-S514V5
Model:	XK Series N/A vehicles
Model Year:	1997 to 1998
VIN Range:	001036 to 031302
Model:	XK Series SC vehicles
Model Year:	1998.75 to 1999
VIN Range:	024695 to 042775
Model:	V8 XJ Series N/A vehicles
Model Year:	1998
VIN Range:	812256 to 853935
Model:	V8 XJ Series SC vehicles
Model Year:	1998 to 1999
VIN Range:	812256 to 878717
Date of Issue:	19 April 2007

To:	All Jaguar National Sales Companies and Importers
For the Attention of:	The Managing Director
Copies to:	The Service/Aftersales Director/Manager The Parts Director/Manager
Related Information	This Service Action is being re-issued due to a change in the workshop procedure.

RE: Throttle closed position operation

Dear Colleagues

A concern has been identified with the throttle operation on a number of vehicles in the above VIN ranges. Under exceptional circumstances this concern could cause the engine to cut out, although the engine will continue to be driven by the road wheels through the transmission and drive the ancillaries, so there will be no loss of power steering, brakes, air conditioning, etc. The engine should restart without difficulty once the vehicle has come to a complete standstill.

Action to be taken

To aid in the identification of repairs required by vehicle, Table 1 of this Service Action provides a breakdown of the repair required by model year, model description, and VIN range. See Workshop Procedures attached as Appendix 1 and Appendix 2.

For those vehicles that require the engine control module (ECM) to be reprogrammed, the Integrated Diagnostic System (IDS) and DVD105, or later, should be used.

You are requested to make contact with the drivers of the affected vehicles and request that the vehicle be made available, at the driver's earliest convenience, for the modification to the throttle operation to be undertaken. A sample customer letter is attached as Appendix 3.

Table 1

Model Year	Model Description	VIN Range	Repair Required
1997 to 1998	XK Series N/A	001036 to 020734	Reprogram ECM – Appendix 1
1998	V8 XJ Series (both N/A and SC)	812256 to 819771	Reprogram ECM – Appendix 1
1998	XK Series N/A	020735 to 031302	Replace throttle body – Appendix 2
1998.75 to 1999	XK Series (SC)	024695 to 042775	Replace throttle body – Appendix 2
1998	V8 XJ Series N/A only	819772 to 853935	Replace throttle body – Appendix 2
1998 to 1999	V8 XJ Series SC only	819772 to 878717	Replace throttle body – Appendix 2

Parts Information

The following parts, if required, should be ordered through Jaguar Parts Operations following the normal procedure.

Table 2

Description	Part Number	Quantity
Throttle body	C2A 1470 EK	1
Gasket	NCA 3021BA	1
Ratchet tie strap	ADU 9028	1

Parts Supply information

- All orders will be blocked automatically to allow for review to ensure that the throttle bodies are not being ordered for stock. Orders will be released daily by Unipart once successfully reviewed.
- All orders must be placed four working days prior to the vehicle being booked in. This will allow for the review and delivery cycle to be completed.
- Orders should only be raised for vehicles booked in for the throttle body replacement.

Warranty information

Labor time information

Table 3

Description	SRO	Time
Reprogram ECM	86.99.13	0.4
Replace throttle body and gasket	19.91.65	0.5
Drive in/drive out	10.10.10	0.1

Warranty claims should be submitted quoting program code S514 together with the relevant option code from Table . This will result in payment of the stated time and, where applicable, parts/miscellaneous expense codes.

The options that allow for drive in/drive out can only be claimed if the vehicle has been brought in to the workshop for this action alone to be undertaken.

Table 4

Program Code	Option	Description	SRO	Time (Hours)	Part Number	Description	Qty
S514	B	Reprogram ECM	86.99.13	0.4			
S514	C	Reprogram ECM	86.99.13	0.4			
		Drive in/drive out	10.10.10	0.1			
S514	D	Replace throttle body and gasket	19.91.65	0.5	C2A 1470 EK NNE 3021AC ADU 9028	Throttle body Gasket Tie strap	1 1 1
S514	E	Replace throttle body and gasket	19.91.65	0.5	C2A 1470 EK NNE 3021AC ADU 9028	Throttle body Gasket Tie strap	1 1 1
		Drive in/drive out	10.10.10	0.1			

Warranty claims should be submitted in accordance with the current Jaguar Warranty Policy and Procedures Manual and its amendments, unless stated otherwise in this Service Action.

Yours faithfully



K Phelps
Director - Service Operations

**Attached: Appendix 1 – Workshop Procedure (Re-program Engine Control Module)
Appendix 2 – Workshop Procedure (Renew Throttle Body)
Appendix 3 – Sample Customer Letter**

Appendix 1 – Workshop Procedure

Re-program Engine Control Module (ECM)

Please refer to Table 5 of this Service Action for instructions on where to commence the workshop procedure to re-program the engine control module (ECM).

Table 5

Model	Feature	VIN Range	Action Required
XK8	With KTM	001036 to 003300	Disconnect at connector – commence at step 1.
XK8	With KTM	003301 to 020734	Remove fuse – commence at step 8.
XK8	Without KTM	001036 to 020734	Commence step 11.
V8 XJ	All	812256 to 819771	Commence step 11.

For XK8 Vehicles with Key Transponder Module (KTM) only – VIN range 001036 to 003300

- 1 On the driver side of the vehicle, release and remove the instrument panel end fuse aperture cover (for access).
- 2 Remove instrument cluster finish panel, see Global Technical Reference (GTR), Workshop Manual, section: 501-12.
- 3 Remove the three screws from the driver side end vent. Release and remove the end vent.
- 4 Obtain a 300mm length of welding rod (or similar stout wire) approx 3.0 – 3.5mm in diameter, bend a right angle approximately 25mm from one end and form the other end into a loop that will fit into the hand. Use the short end to access the release clip of the KTM harness connector; depress the clip via the aperture from which the end vent has been removed.
- 5 Simultaneously pass the other hand through the fuse box access aperture so that the fingertips can reach the KTM harness connector.
- 6 Release and FULLY withdraw the connector from the KTM; it may be necessary to press the wires of the harness, where they enter the connector, against the side of the instrument panel molding in order to detach the connector fully. The instrument panel molding will 'give' slightly. Full detachment of the connector is essential – if only partly detached, the pressure of the instrument panel molding on the harness could result in the connector becoming reconnected before the reprogram operation has been completed.
- 7 Proceed to step 11.

For XK8 Vehicles with KTM only – VIN range 003301 to 020734.


- 8 On the driver side of the vehicle, release and remove the instrument panel end fuse aperture cover (for access).
- 9 **Note: Fuse 6 is located on the right-hand row of nine fuses, sixth fuse down from the top. It is tan in color and the rating is 5 amps.**
Release and remove fuse number 6 from the 18-way fuse box.
- 10 Proceed to step 11.

All XK and V8 XJ Series vehicles without KTM fitted.

11 **CAUTIONS:**

 **This procedure requires IDS DVD105 with the latest Patch Files loaded or later.**

 **Ensure that the diagnostic lead is correctly secured and cannot be accidentally disconnected during software update.**

 **Ensure the Midtronics CX Pro 25 or PSP550 - Vehicle Battery Conditioner/Power Supply is connected to the vehicle battery during diagnosis/module configuration and that the battery is sufficiently charged.**

 **The engine coolant and intake air temperatures MUST be below 50 degrees Celsius for the following operation.**

 **Do not attempt to 'trick' the system by cooling the sensors – the sensors will return to actual temperature during the process. This will abort the program and can damage the ECM.**

Connect IDS to the vehicle and begin a new diagnostic session, by entering the correct VIN for the current vehicle.

12 When prompted 'Do you wish to read configuration information from the vehicle?' select 'NO' and then press 'tick' to continue.

13 When prompted 'Vehicle Configuration Confirmation?', select 'YES' and then press 'tick' to continue.

14 When prompted 'Do you wish to read diagnostic trouble codes?' select 'NO' and then press 'tick' to continue.

15 When the 'Content Model' is displayed select 'Vehicle Configuration' tab.

16 Select from the menu 'Configure Existing Module' and then press 'tick' to continue.

17 Select 'Engine Control Module', from the menu and then press 'tick' to continue.

18 Follow all on-screen instructions.
 1. The IDS system will state:
 • Action as necessary.

'Key transponder module must be disabled if fitted – please refer to the relevant Service Action. The service bulletin can be viewed by pressing the information button.'

19 Follow all on-screen instructions.
 1. The IDS system will state:
 • This must be completed before proceeding.

'The next operation will reconfigure the vehicle communication module to allow the AJ26 module reprogramming to be performed. The relevant update will be installed onto the vehicle communication module automatically once the tick has been pressed.'

20 Follow all on-screen instructions.
 1. The IDS system will also request the removal of certain system fuses and relays. Refer to Table 6 below for location information.


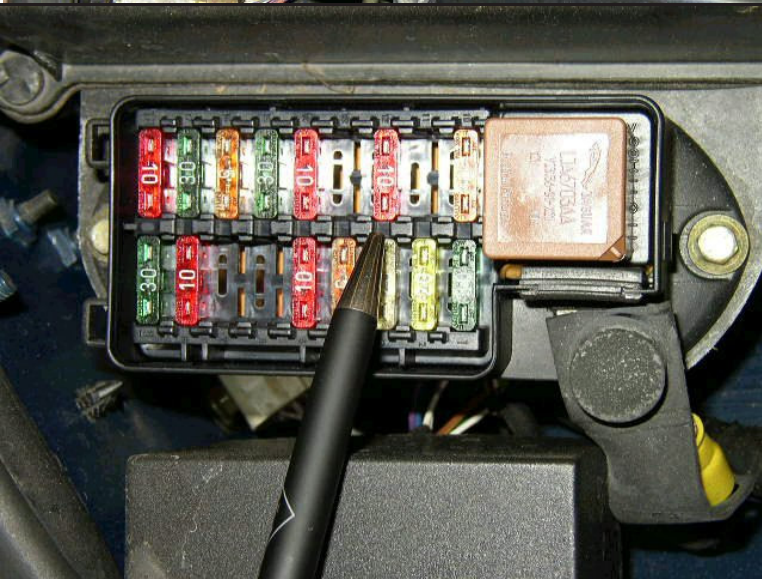
22 When the task is completed, exit the current session.

23 Disconnect IDS and the battery charger/power supply.

- 24 Re-install the KTM fuse.
- 25 Connect the KTM electrical connector.

Table 6 (Fuse and Relay Locations)

XK Series

<p>Disconnect the engine management system relay EMFR01.</p> <p>The relay is located in the engine management fuse box located in front of ECM control module enclosure (cool box)</p>	
<p>Disconnect the radiator fan fuse EMF012.</p> <p>Fuse 12 (red 10 amp) located in fuse box located in front of ECM in control module enclosure (cool box)</p>	
<p>Disconnect the fuel pump relay BTFR04.</p> <p>Located in trunk fuse box</p>	

V8 XJ Series

Disconnect the engine management system relay EMFR01.

The relay is located in the engine management fuse box located on left front inner wing.



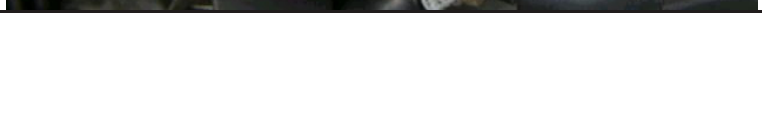
Disconnect the radiator fan fuse EMF014.

Fuse 14 (red 10 amp) is located in engine management fuse box located on left front inner wing.



Disconnect – Fuel pump relay BTFR04.

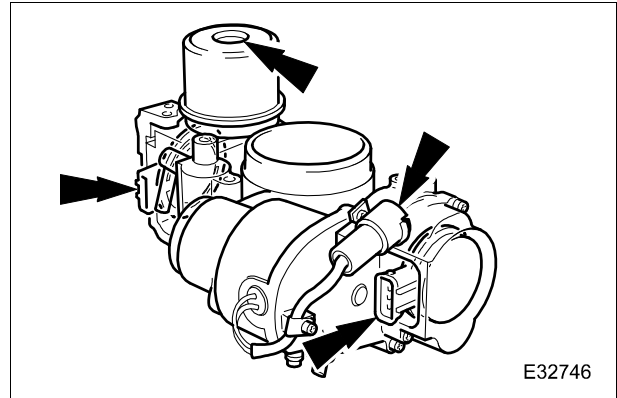
Located in trunk fuse box



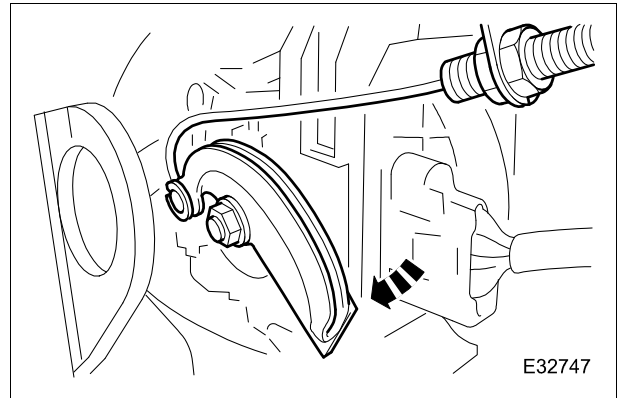
Appendix 2 – Workshop Procedure

Renew Throttle Body

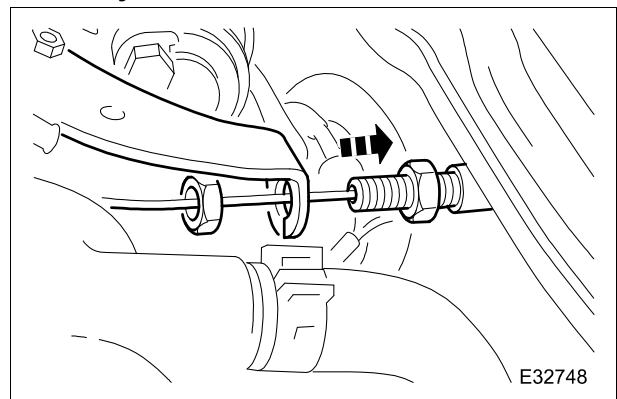
- 1 Disconnect the battery ground cable; refer to Global Technical Reference (GTR), Workshop Manual, section 414-01.
- 2 Remove the air cleaner cover/intake assembly.
- 3 Disconnect the connectors and vacuum pipe.



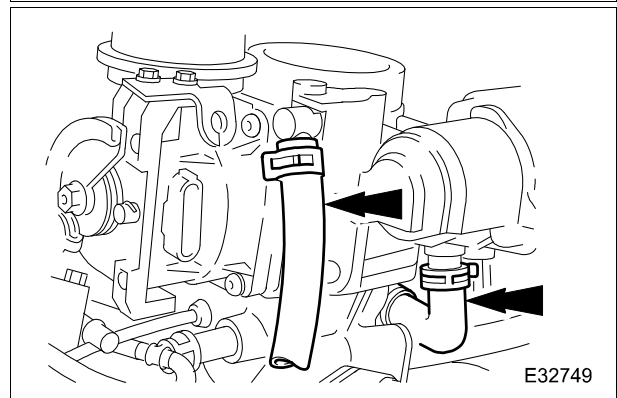
- 4 Rotate the throttle quadrant to allow disconnection of the inner cable.



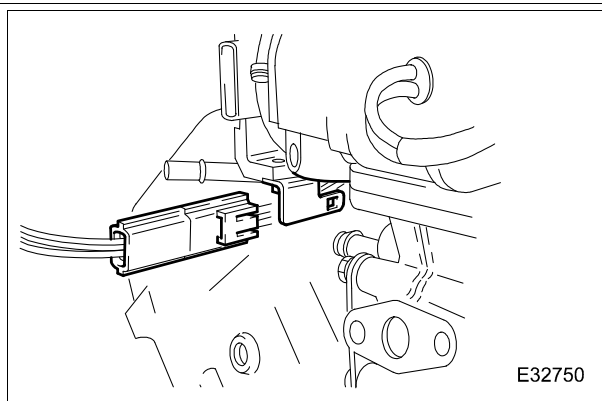
- 5 If installed, release the cable tie from around the throttle cable adjuster nut and the abutment bracket, then displace the throttle cable adjuster nut from the abutment bracket.
- 6 If installed, release the throttle cable-locking nut and displace the outer cable from the abutment bracket.



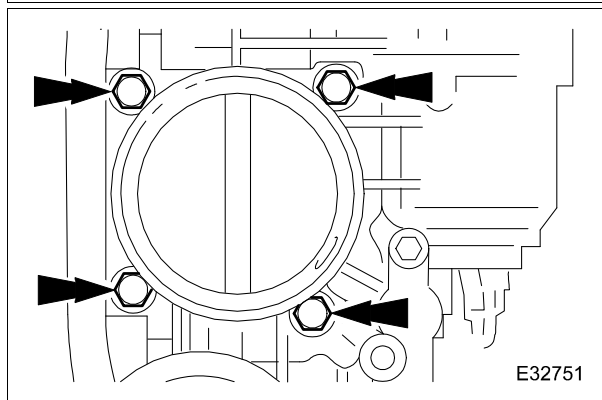
- 7 Remove the coolant hoses and install suitable blanking plugs.



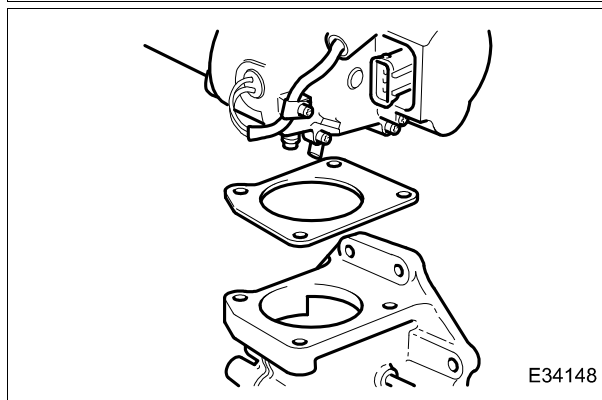
- 8 Release the connector from the bracket under the left-hand side of the assembly.



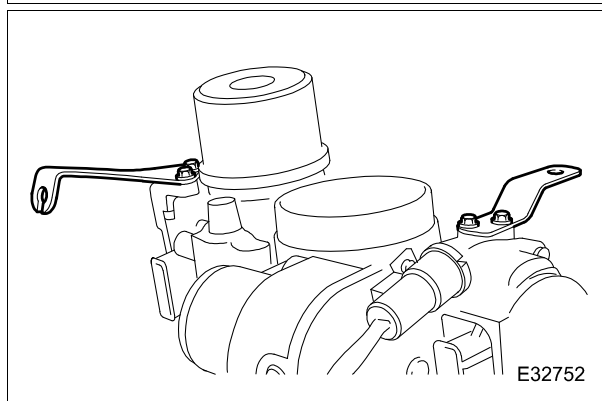
- 9 Remove the throttle body to induction elbow securing bolts.



- 10 Remove the throttle body from the induction elbow, discard the gasket, and blank off the inlet tract to prevent ingress of foreign matter.



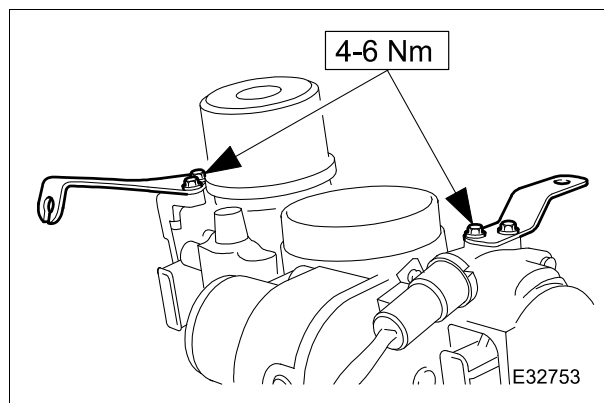
- 11 Remove the throttle cable and intake duct bracket.




Note: You are requested to cut the electrical wires to the motor of the displaced throttle body, to render the unit unserviceable before discarding.

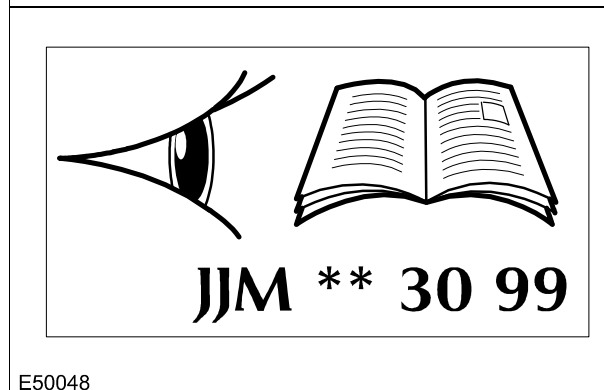
Installation

12 Install throttle cable and intake duct brackets.

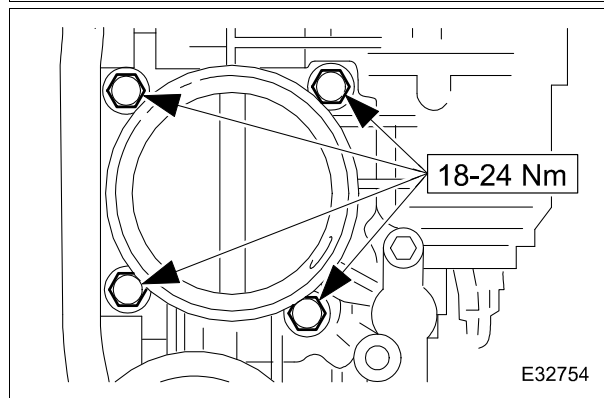


13 **CAUTION:**  The new throttle body displays a sticker, as shown. **DO NOT** clean the throttle body bore and butterfly valve, as damage to the vehicle could result.

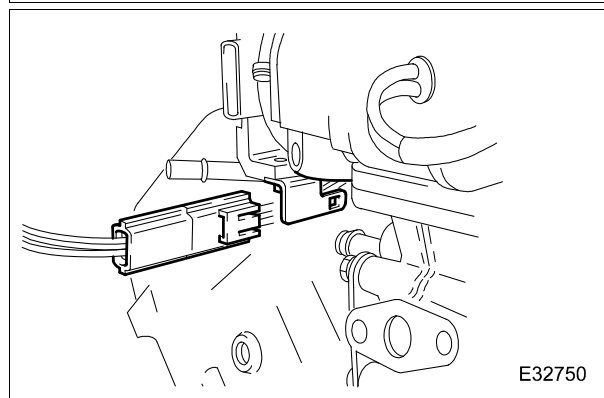
Install new throttle body gasket.



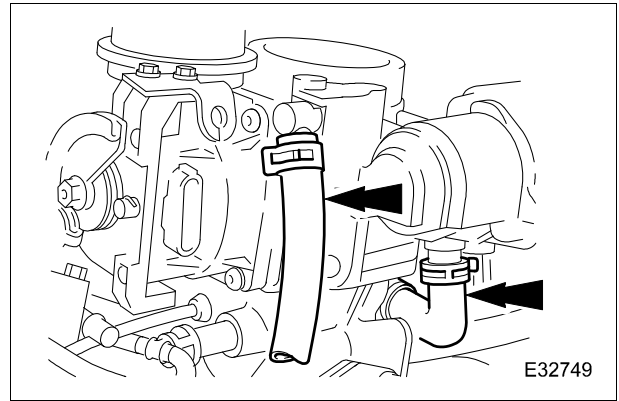
14 Install the new throttle body.



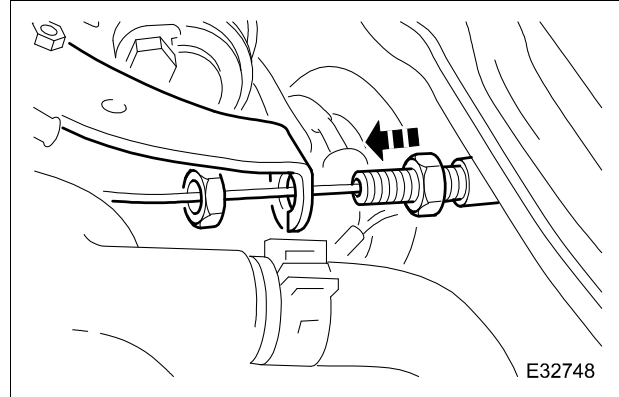
15 Install the electrical connector.




16 Install coolant hoses.

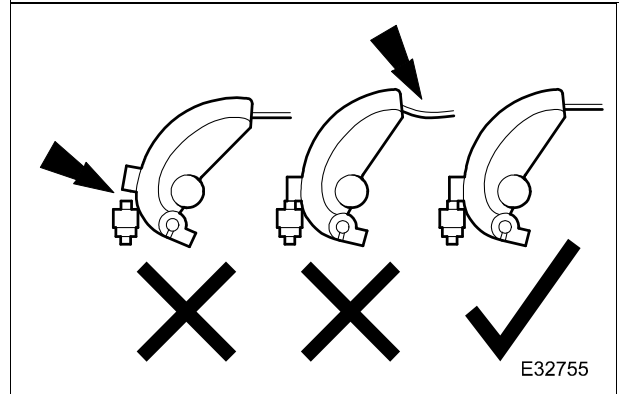



17 Reposition outer cable to abutment bracket and, if installed, install, but do not fully tighten, the locking nut.

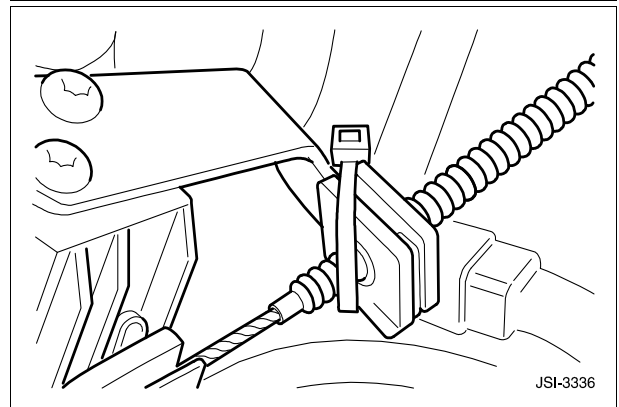


18 **CAUTION:**  Under no circumstances should the quadrant be held clear of the throttle stop by cable tension. Ensure there is no tension or slack in the cable.

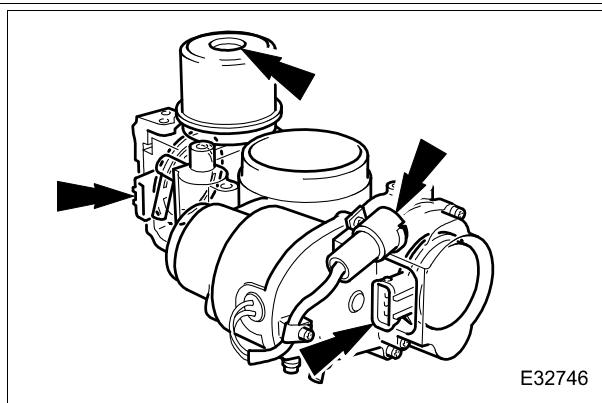
Install the throttle cable. Tighten the locknut without altering the setting or introducing any twist into the outer cable.



19 **WARNING:**  For vehicles with the plastic adjustment nut; after correct cable adjustment, you must install a ratchet tie strap to fully retain the adjuster nut in its location within the abutment bracket. Please refer to recall action r466.



20 Connect the connectors and the vacuum pipe.



- 21 Install air cleaner cover/intake assembly.
- 22 Check the coolant level and top up if required.
- 23 Reconnect the battery ground cable; refer to Global Technical Reference, Workshop Manual, section: 414-01.

Appendix 3 - Sample Customer Letter

Mr. John Sample
123 Main Street
Any Town
Post Code

Ref. Jaguar XK/V8XJ Registration AB03 ABC, Vehicle Identification Number (VIN) 001036/812256

Jaguar is providing a no-charge Customer Satisfaction Program (Program Number S514) to owners of 1997 to 1999 model year XK Series vehicles and 1998 to 1999 model year V8 XJ Series vehicles.

Reason for this program

A concern has been identified with the throttle operation on a number of vehicles that could include your vehicle. Under exceptional circumstances this concern could cause the engine to cut out, although the engine will continue to be driven by the road wheels through the transmission and drive the ancillaries, so there will be no loss of power steering, brakes, air conditioning, etc. the engine should restart without difficulty once the vehicle has come to a complete standstill.

This concern can be rectified by a modification to the throttle operation of your vehicle, removing the potential for this concern to arise. Although it is most unlikely that you will have experienced any concerns with the functionality of the throttle in your vehicle, Jaguar have advised us that the engine management throttle strategy does not meet expected durability requirements.

Jaguar encourages you to schedule an appointment with your dealer for your vehicle to be reworked free of charge.

What Jaguar and your dealer will do

Your vehicle will be repaired to modify the throttle operation at no charge to you, under the terms of this program.

How long will it take?

The time to complete the repair on your vehicle is approximately one hour. However, due to service scheduling requirements, your vehicle could be required for a longer period of time.

What we are asking you to do

Call us, or your preferred dealer, without delay. Provide the dealer with your Vehicle Identification Number (VIN) (located at the beginning of this letter) and vehicle registration number. Ask for a service date and whether parts are in stock for Customer Satisfaction Program S514. If you do not have a servicing dealer, please access www.jaguar.com for dealer addresses, maps, and driving instructions.

If your dealer does not have the parts in stock, they can be ordered before scheduling your service date. Parts would be expected to arrive within a week after ordering.

If you bring your vehicle in, present this letter. If you misplace this letter the work will still be completed free of charge.

If you have concerns ...

If you experience any problems getting your vehicle repaired promptly and without charge, please contact your dealership's Service Manager for assistance.

If you still have concerns, please contact the Jaguar Cars Customer Relationship Center and one of Jaguar's representatives will be happy to assist you.

Call: (enter telephone number), Office Hours: Monday-Friday: 8.30AM – 6PM.

Thank you for your attention to this important matter.
Yours sincerely

Dealer Principal