

SERVICE

TECHNICAL BULLETIN

All Driveability Issues/Engine Non-start –
Carbon Deposits on Throttle Blade –
Cleaning Procedure – AJ26 Engines

MODEL 1997-98 MY XK8
1998 MY V8 XJ Series NA
1998-99 MY XJR
VIN 001001-031302
812256-853935
812256-878717

Remove and destroy Bulletin 310-06, amended 02/02.
Replace with this Bulletin.
Revisions are marked with a bar and in **bold text**.

Issue:

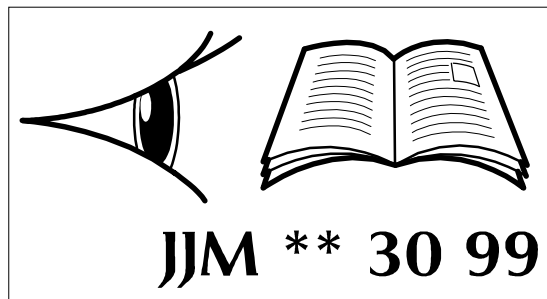
Some XK8 and V8 XJ Series vehicles, within the above VIN ranges, may experience a condition where the throttle body bore and throttle blade become coated with a soft sticky carbon deposit. This deposit may cause idle/driveability issues, particularly when the part load breather has become blocked. (See Technical Bulletin 600-03 Service Action S474, which is to be performed at regular maintenance intervals of 10,000 miles/16,000 Km.)

Action:

In case of a customer complaint of non-start or idle/driveability issues on the above vehicles, **refer to the following:**

⚠ Caution: If the throttle body displays a sticker telling the technician to refer to the workshop manual as shown below, do not clean the throttle body bore and butterfly valve because damage to the vehicle may occur. Clean the part load breather as per service action S474 only, Refer to Technical Bulletin 600-03.

WORKSHOP MANUAL (JTIS/GTR) REFERENCE STICKER



E50048

NOTE: THE INFORMATION IN TECHNICAL BULLETINS IS INTENDED FOR USE BY TRAINED, PROFESSIONAL TECHNICIANS WITH THE KNOWLEDGE, TOOLS, AND EQUIPMENT TO DO THE JOB PROPERLY AND SAFELY. IT INFORMS THESE TECHNICIANS OF CONDITIONS THAT MAY OCCUR ON SOME VEHICLES, OR PROVIDES INFORMATION THAT COULD ASSIST IN PROPER VEHICLE SERVICE. THE PROCEDURES SHOULD NOT BE PERFORMED BY "DO-IT-YOURSELFERS." DO NOT ASSUME THAT A CONDITION DESCRIBED AFFECTS YOUR CAR. CONTACT A JAGUAR RETAILER TO DETERMINE WHETHER THE BULLETIN APPLIES TO YOUR VEHICLE.

THROTTLE CLEANING PROCEDURE

1. Ensure ignition is OFF and remains OFF throughout the procedure.
2. Open hood and place protective covers on the fenders.
3. Clean part-load breather. (Refer to Technical Bulletin 600-03, Service Action S474).

Note: It is important to clean the part-load breather to ensure that the throttle body and bore do not become coated in the sticky carbon deposit again.

4. Disconnect vehicle battery.
5. Remove air intake tube/MAFS/cleaner cover assembly.
6. Disconnect throttle body electrical connectors and vacuum pipe. (Illustration 1)

THROTTLE BODY ELECTRICAL/VACUUM CONNECTIONS

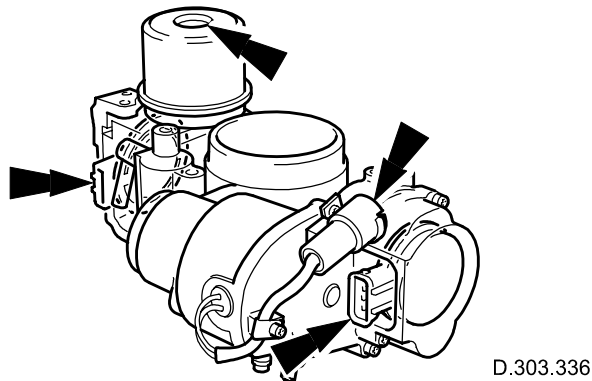


ILLUSTRATION 1

7. Turn throttle pulley to fully open position.
8. Disconnect throttle inner cable from throttle pulley. (Illustration 2)

DISCONNECT THROTTLE INNER CABLE

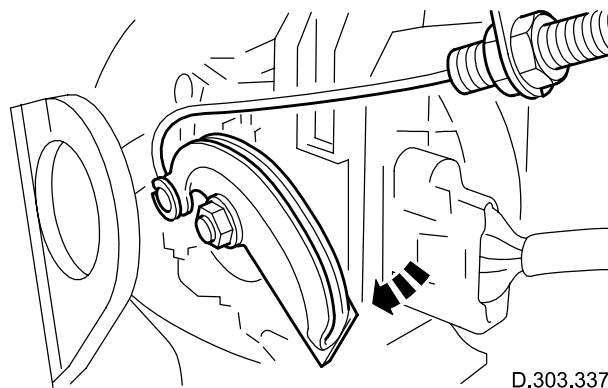


ILLUSTRATION 2

9. Undo and displace throttle cable adjusting nut.

10. Remove outer throttle cable from adjustment bracket. (Illustration 3)

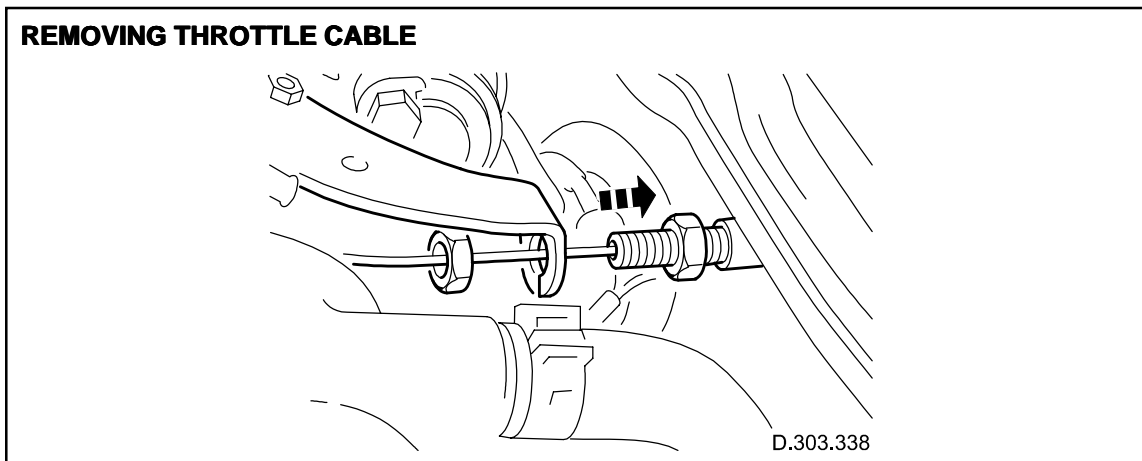


ILLUSTRATION 3

11. Remove coolant hoses. (Illustration 4)

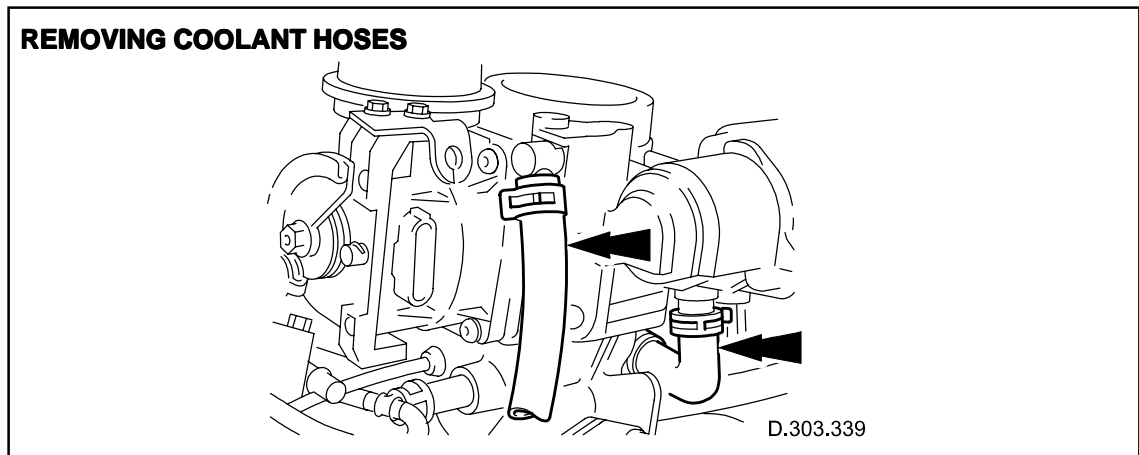


ILLUSTRATION 4

12. Insert suitable plugs into coolant hoses.
13. Reposition electrical connector from securing bracket under left side of throttle body. (Illustration 5)

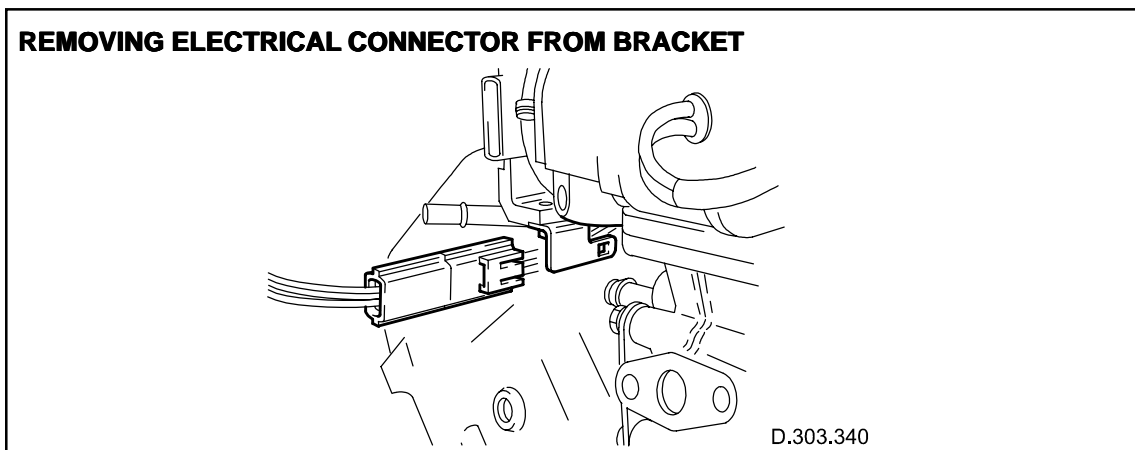


ILLUSTRATION 5

14. Remove throttle body securing bolts. (Illustration 6)

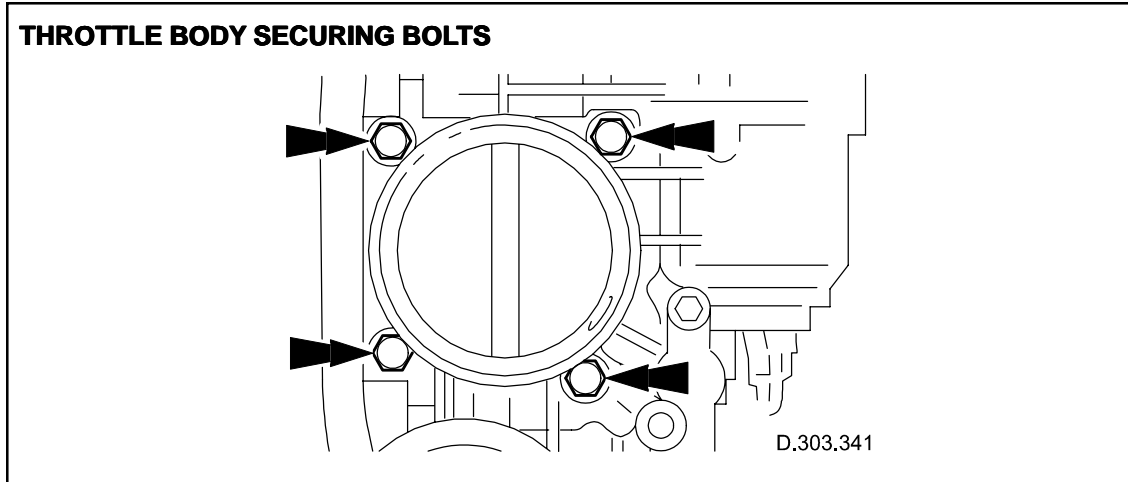


ILLUSTRATION 6

15. Remove throttle body from induction elbow and discard gasket. (Illustration 7)

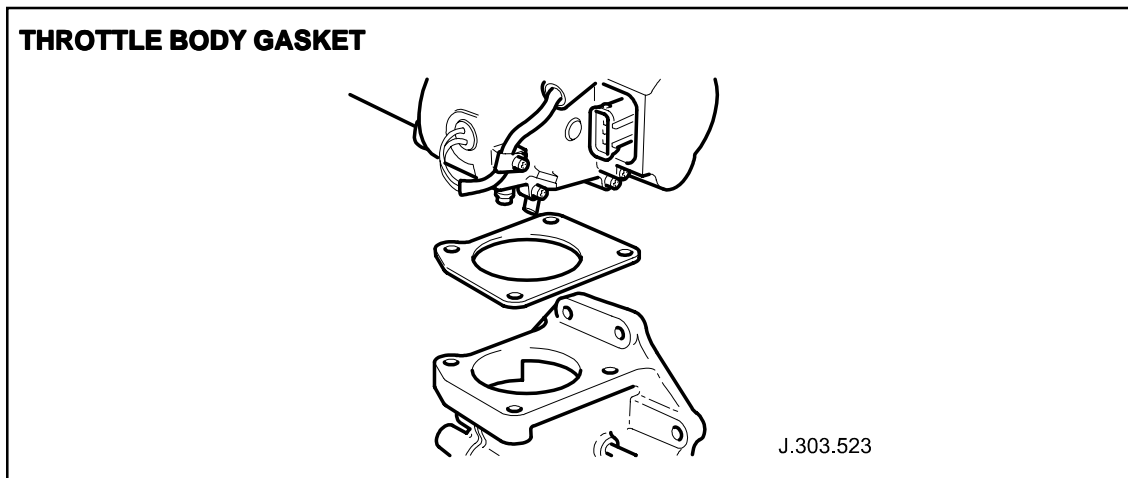


ILLUSTRATION 7

⚠ Warning: Wear suitable gloves, clothing, face and respiratory protection during the following operations.

16. Open throttle butterfly.

Note: The throttle blade should be held open during the cleaning process by actuating the throttle. Workshop tools should not be placed inside the throttle bore in order to keep the throttle blade open.

17. Using suitable cleaning agent, (see table on last page) liberally spray both sides of throttle bore and butterfly.
18. Carefully close throttle butterfly.
19. Allow cleaning agent to soak for 10 minutes.
20. Open throttle butterfly.

21. Using suitable cleaning agent, (see table below) liberally spray both sides of throttle bore and butterfly.
22. Using a soft clean cloth, clean residue from throttle body bore and butterfly.

⚠ Caution: There is a grey colored Molybdenum Coating on the throttle bore adjacent to the butterfly. Take care not to remove this coating during the cleaning process.

23. Carefully close throttle butterfly.
24. Manually work the throttle blade to ensure that it operates smoothly by gently pressing the throttle blade down to the closed position. Release the throttle butterfly. It should open at the same rate as it is released. If the throttle butterfly remains closed for a fraction of a second or longer after removing finger pressure, repeat the cleaning process.
25. Conduct another manual pressure test again after repeating the cleaning process, and if no sticking is evident continue to the next step.

Note: If the butterfly is still sticking partially or fully closed, please contact the Technical Helpline for further information.

26. Install new gasket to throttle induction elbow, install throttle body and tighten securing bolts. (Illustration 8)

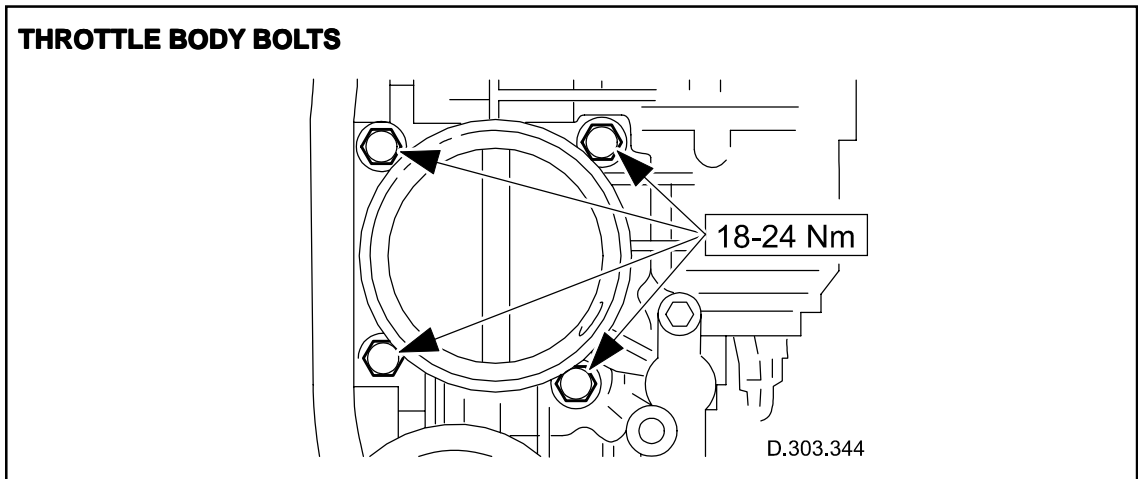


ILLUSTRATION 8

27. Reposition and install electrical connector to retaining bracket left side under throttle body. (Illustration 9)

ELECTRICAL CONNECTOR

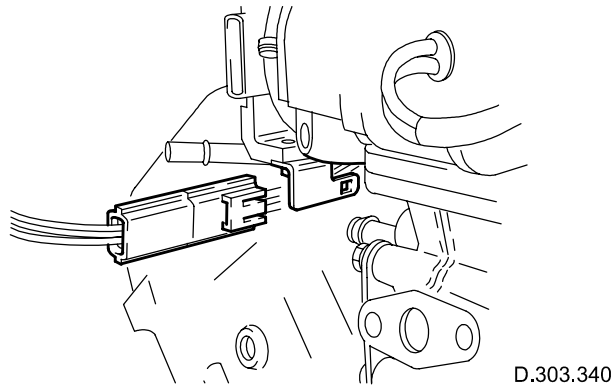


ILLUSTRATION 9

28. Remove and discard blanking plugs from coolant hoses.
29. Install coolant hoses. (Illustration 10)

COOLANT HOSES

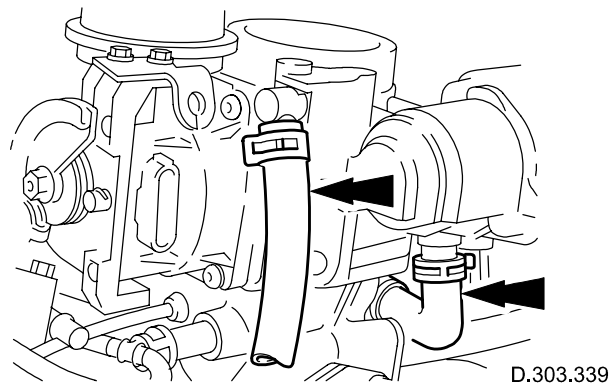


ILLUSTRATION 10

30. Install throttle body electrical connectors and vacuum pipe. (Illustration 11)

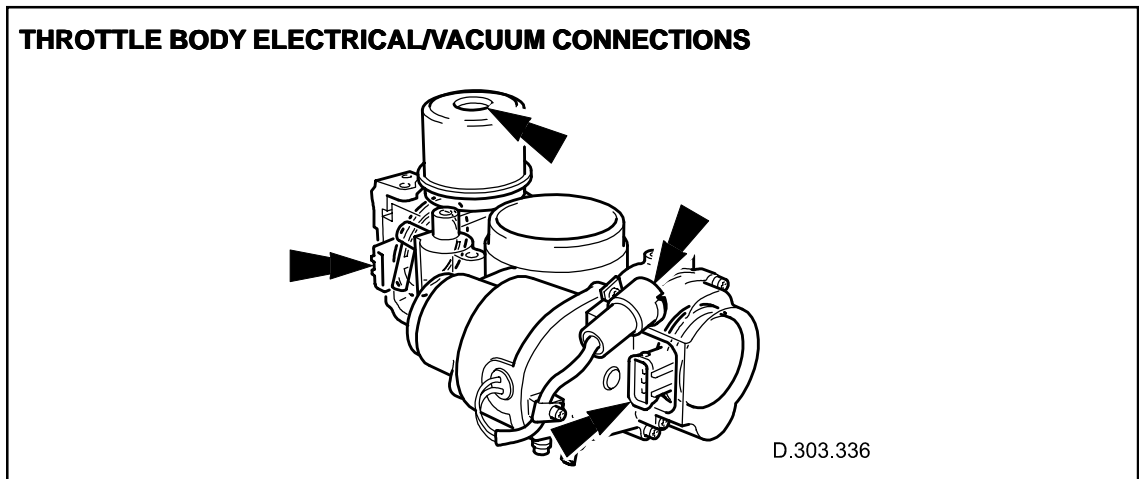


ILLUSTRATION 11

31. Reposition and install throttle outer cable to adjustment bracket. (Illustration 12)

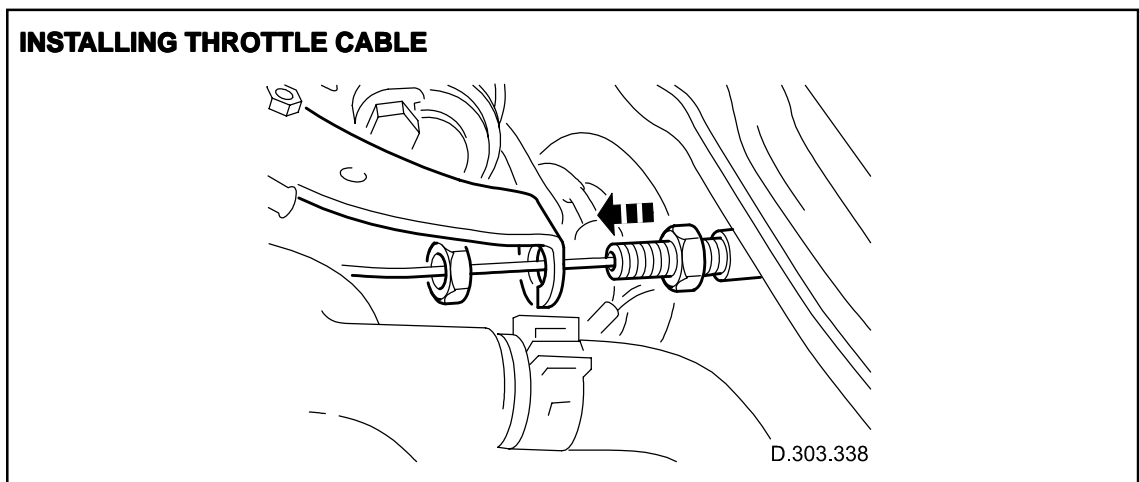


ILLUSTRATION 12

32. Install but do not fully tighten outer cable adjustment nut.

33. Turn throttle pulley fully open.

34. Reconnect throttle inner cable to throttle pulley. (Illustration 13)

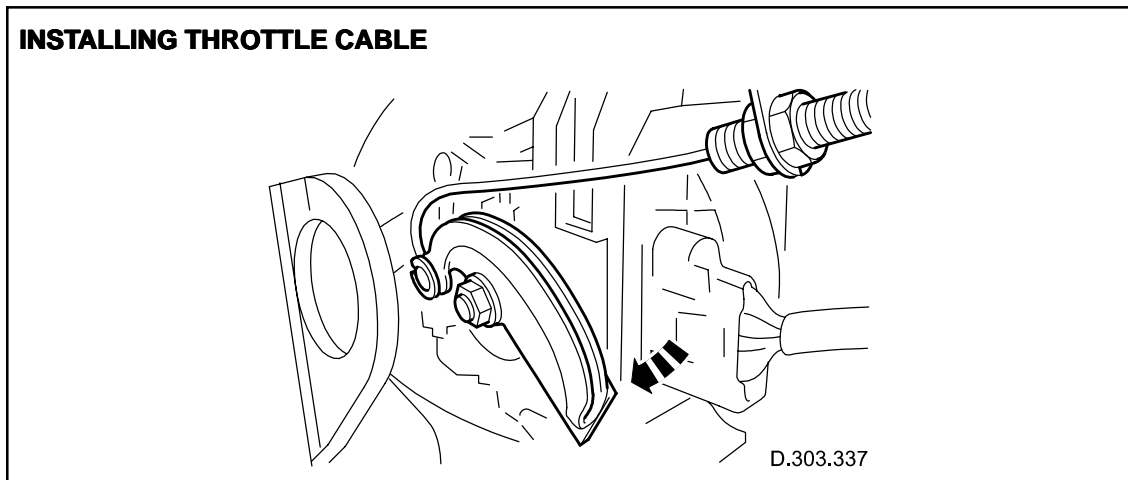


ILLUSTRATION 13

35. Adjust throttle cable. (Illustration 14)

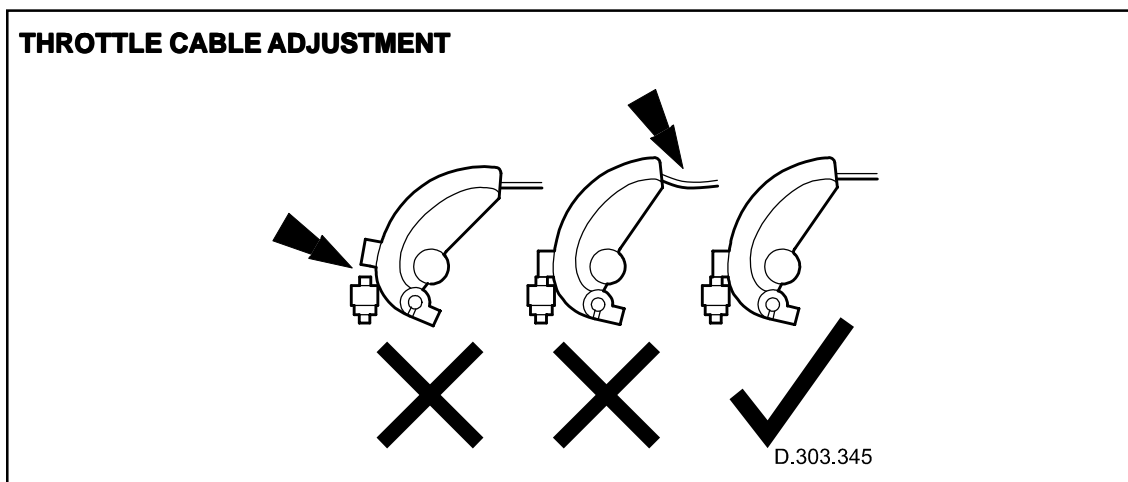


ILLUSTRATION 14

36. Tighten throttle cable adjusting nut.
37. Install air intake tube/meter/ cleaner cover assembly.
38. Check coolant level and top up if required.
39. Reconnect vehicle battery. (See Workshop Manual, section: 414-01, SRO 86.15.15).
40. Remove fender protector covers and close hood.

SUITABLE CLEANING AGENTS:

MANUFACTURER	BRAND
Valvoline	Synpower
Pennzoil	Gumout
BG	Air Intake Cleaner
Mark V	Carb Chem
Ford	Carburetor tune-UP Cleaner
Forte	Carburetor Cleaner

Note: If the above cleaning agents are not available make sure that a silicon-free cleaning agent is used. The presence of silicon may affect oxygen sensor performance.

Global Technical Reference (GTR) Workshop Manual Information:

Dealer access: <https://hub.franchise.jaguar.com>

Internet access: <http://www.jaguartechno.com>

Parts Information:

<u>DESCRIPTION</u>	<u>PART NUMBER</u>	<u>QTY</u>
Throttle body gasket	NCA 3021BA	1

Warranty Information:

Warranty claims should be submitted quoting the information found in the table below. This will result in payment of the stated time and, where applicable parts/miscellaneous expense codes as listed.

Description	SRO	Time	Causal Part Number
Throttle housing cleaning procedure	19.91.52/01	0.6 hrs.	NCA 3021BA