



V8 XJ Series/XK8

DATE 10/99
Amended 04/02

310-05

SERVICE

TECHNICAL BULLETIN

Limp-Home Mode - DTC P1121 and/or P1632 - AJ27 Engine - Adjust Throttle Cable

MODEL
1999-2000 MY XK8 Range
1999-2000 MY V8 XJ Series
VIN
031303-A04950
853936-F08942

Remove and destroy Bulletin 310-05, amended 08/00.
Replace with this Bulletin.
Procedure has been revised to use the WDS.

Issue:

Some of the above vehicles may default to limp home mode because the throttle cable is improperly adjusted. The condition will be accompanied by diagnostic trouble code (DTC) P1121 and/or P1632 being stored in the memory of the Engine Control Module (ECM) or **Transmission Control Module (TCM), respectively.**

Action:

On a customer complaint basis only, when diagnostic trouble code (DTC) P1121 and /or P1632 is stored in the memory of the Engine Control Module (ECM) or Transmission Control Module (TCM), follow the workshop procedure outlined below.

WORKSHOP PROCEDURE

1. Open hood and fit fender protector covers.
2. On V8 XJ series vehicles only, remove engine bulkhead covers.

Note: Check that Worldwide Diagnostic System (WDS) has the latest level software.

3. Position WDS along side vehicle, switch 'ON' and allow software to load.
4. Open front door and connect Portable Test Unit (PTU) to vehicle diagnostic socket using diagnostic cable.
5. Enter the VIN, select engine system from content model, navigate to data logger and allow software to load.
6. Clear all pre-selected signals.
7. Scroll down available signals, select PPS11 and PPS2.
8. Select signal-monitoring screen.
9. Turn ignition 'ON'.
10. Start recording data.
11. Cut and remove ratchet strap securing throttle cable to abutment bracket.
12. Displace and reposition throttle cable adjuster from abutment bracket (throttle in its closed position).

Note: Ensure there is no tension on cable.

13. Note voltage reading of PPS11 and PPS2 on WDS.
14. Partially insert throttle cable plastic adjuster into abutment bracket.
15. Re-check PPS11 and PPS2 voltage reading on WDS.

Note: If voltage readings are higher than original readings perform the following steps.

- Adjust throttle cable until the voltage readings for PPS11 and PPS2 on WDS are at the same value as first noted.
- Slacken throttle cable plastic adjuster one more quarter of a turn.
- Fully seat throttle cable plastic adjuster into abutment bracket.
- Install and secure new ratchet strap around throttle adjuster/abutment bracket.

Note: If the voltage readings are the same as the original readings perform the following steps.

- Adjust throttle cable until the voltage readings for PPS11 and PPS2 on WDS increase.
- Adjust throttle cable slowly until original readings are obtained, do not over-adjust.
- Turn throttle cable one quarter of a turn to obtain minimal amount of slack in inner cable.
- Fully seat throttle cable plastic adjuster into abutment bracket.
- Install and secure new ratchet strap around throttle cable adjuster/abutment bracket.

Note: After throttle cable adjustment (carried out above) follow steps 16 to 21.

16. Check and where necessary, operate throttle pedal twenty times to settle cable.

17. Adjust kickdown switch. (Supercharged vehicles only)

On normally aspirated vehicles, if the required throttle opening cannot be achieved due a lack of adjustment range, a shorter length throttle stop stud may be necessary. Measure the distance of the length of the hexagonal section (points A and B, Illustration 1). Select the next shortest mounting stud. Refer to the Parts Information for the total of 4 different length studs are available.

Note: It is unlikely that a new throttle stop mounting stud will be necessary since this component is hand selected and installed in production where a test of full throttle has been performed and passed.
Order parts on an as-required basis only.

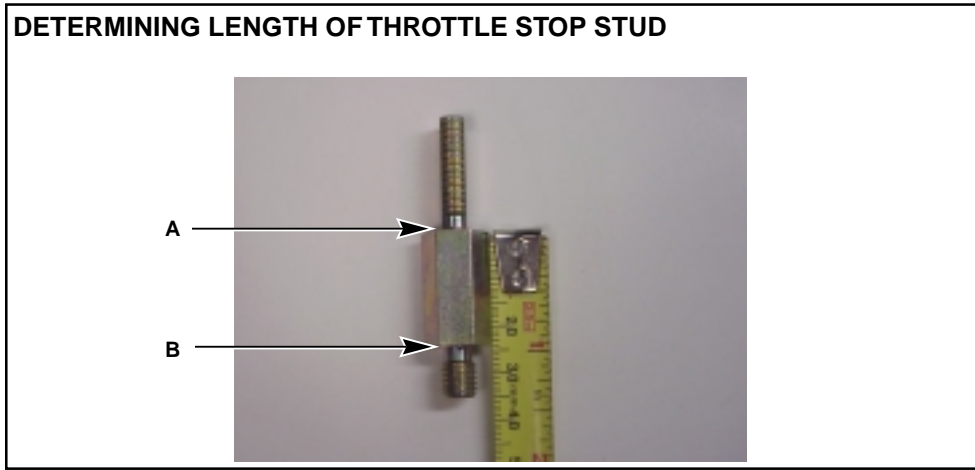


ILLUSTRATION 1

- 18. On V8 XJ series vehicles only install engine bulkhead covers.
- 19. Switch off PTU disconnect and return WDS to original location.
- 20. Close door.
- 21. Remove fender protector covers and close hood.

Parts Information:

| <u>DESCRIPTION</u> | <u>PART NUMBER</u> | <u>QTY</u> |
|--|--------------------|----------------|
| Throttle stop mounting stud - 4 mm hex length | LJC 6571AA | 1 if necessary |
| Throttle stop mounting stud - 18 mm hex length | LJC 6571BA | 1 if necessary |
| Throttle stop mounting stud - 24 mm hex length | LJC 6571CA | 1 if necessary |
| Throttle stop mounting stud - 30 mm hex length | LJC 6571DA | 1 if necessary |

Order parts on an as-required basis only.

Warranty Information:

| <u>FAULT CODE</u> | <u>R.O. NUMBER</u> | <u>DESCRIPTION</u> | <u>TIME ALLOWANCE</u> |
|-------------------|--------------------|--|-----------------------|
| CD MB 42 | 19.20.41/01 | Check and adjust throttle cable using WDS. | 0.60 hrs. |
| | | V8 XJ Series | 0.50 hrs. |
| | | XK8 | |