



STAR ONLINE PUBLICATION



Case Number: S2218000020

Release Date: September 2022

Symptom/Vehicle Issue: Complaint includes Mil-on/check engine lamp-on.

Customer Complaint/Technician Observation: Upon further inspection, a fault for P0300-Multiple Cylinder Misfire may be set in the PCM.

NOTE: IF THERE ARE ANY FAULTS SET ALONG WITH P0300 IN THE PCM, FOLLOW PUBLISHED DIAGNOSTIC ROUTINES IN SERVICE LIBRARY FOR ALL FAULTS...DO NOT FOLLOW THIS SOL.

ADDITIONALLY, MISFIRE COUNTS MAY ONLY OCCUR ON ALL CYLS ON ONE BANK, WITHIN 1-2 MIN AFTER A HOT RESTART DURING A VERY LIGHT LOAD...IF CONDITIONS WHEN THE COUNTS OCCUR DO NOT MATCH THOSE MENTIONED ABOVE, USE PUBLISHED DIAGNOSTIC ROUTINES IN SERVICE LIBRARY TO DIAGNOSE ISSUE...DO NOT FOLLOW THIS SOL

Discussion: Before performing the published diagnostic routine for P0300 found in Service Library, perform the following procedure:

1. Using WiTech, look under PCM>Data>Misfire Diagnosis Data. There should be 4 lines of data specific to for "CCDIFF NV Edges" data
 - CCDIFF NVEDGES LEARNED EXH 1 LL
 - CCDIFF NVEDGES LEARNED INT 1 LL
 - CCDIFF NVEDGES LEARNED EXH 2 LL
 - CCDIFF NVEDGES LEARNED INT 2 LL
2. See page 2 for example screen shot of data (Figure 1)

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

Contact STAR Center, or your Technical Assistance Center Via TechCONNECT or eCONTACT ticket if no solution is found



STAR ONLINE PUBLICATION



Flash DTCs **Data** Misc Functions System Tests Actuators Details Configuration

Type: All Record Units: Imperial Filter Selections Graph Selections Add To Vehicle Data Clear Selections 0.7

MF TLC Control

Cylinder Imbalance Detection (CID) monitor

Misfire Diagnosis Data

NAME	VALUE	UNIT	TYPE
CCDIFF NV EDGES LEARNED EXH 1 LL	notyetlearned		Sensors
CCDIFF NV EDGES LEARNED INT 1 LL	notyetlearned		Sensors
CCDIFF NV EDGES LEARNED EXH 2 LL	notyetlearned		Sensors
CCDIFF NV EDGES LEARNED INT 2 LL	notyetlearned		Sensors

Figure 1

3. If the value shows “notyetlearned” as in the example above, perform the PCM function “Cam/Crank Relearn”. **If the “CCDIFF NVEDGES” data value shows “learned”, please proceed by performing the published diagnostic routine for P0300 found in Service Library.** Otherwise, proceed to step 4.
4. The “Cam/Crank Relearn” can be found under PCM>Misc Functions Tab
5. See Figure 2 on Page 3 for a screen shot example for function location.

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

Contact STAR Center, or your Technical Assistance Center Via TechCONNECT or eCONTACT ticket if no solution is found



STAR ONLINE PUBLICATION



The screenshot shows the STAR Online interface for a 2022 Jeep Gladiator. The vehicle information is: 2022 JEEP GLADIATOR 3.6L V6 24V VVT ENGI, VIN 1C6JJTEG8NL136236, and 1 Alert. The PCM (Powertrain Control Module) is selected, and the 'Misc Functions' tab is active. The 'Cam Crank Relearn' option is circled in red.

NAME
Brake Pedal Learn
Cam Crank Relearn
Check PCM Odometer

Figure 2

6. Once the “Cam Crank Relearn” has completed successfully, drive the vehicle until it has reached operating temp (T-stat open).
7. Stop vehicle and shut off engine. Check “NV EDGES” data again to see if they show “learned”.
8. If so, return the vehicle to the customer.

If the vehicle returns with a P0300, perform the published diagnostic procedure found in Service Library to continue with diagnosis.

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

Contact STAR Center, or your Technical Assistance Center Via TechCONNECT or eCONTACT ticket if no solution is found