



NUMBER: 08-003-21 REV. A

GROUP: 08 - Electrical

DATE: November 20, 2021

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This bulletin supersedes Technical Service Bulletin 08-003-21, date of issue January 09, 2021, which should be removed from your files. All revisions are highlighted with **asterisks**** includes additional part number and note.**

SUBJECT:

Improved Steering Feel

OVERVIEW:

This bulletin involves replacing the steering gear and updating the Electric Hydraulic Power Steering (EHPS) software, checking sales codes and performing vehicle reconfig, if required.

NOTE: Review and perform all steps necessary to complete the Repair Procedure. If any steps are missed, this may lead to undesired handling characteristics.

MODELS:

2018 - 2020	(JL)	Jeep Wrangler
2020	(JT)	Jeep Gladiator

NOTE: This bulletin applies to vehicles within the following markets/countries: North America, EMEA, APAC and LATAM.

SYMPTOM/CONDITION:

The customer may describe one or more of the following:

- Steering wander.
- Vehicle has a lead/pull to the right or left.

NOTE: The lead/pull will be more noticeable in hot ambient temperatures.

- Steering feels like it has excessive play.

NOTE: This Technical Service Bulletin (TSB) repair will NOT correct a sustained steering shake, shimmy or vibration. Video aid has been developed for this issue. Refer to the detailed service procedures available in DealerConnect> Service Library under: Service Info> 19 - Steering / Linkage / Damper, Steering /Removal and Installation.

DIAGNOSIS:

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in DealerCONNECT/Service Library, verify all related systems are functioning as designed. If Diagnostic Trouble Codes (DTCs) or symptom conditions, other than the ones listed above are present, record the issues on the repair order and repair as necessary before proceeding further with this bulletin.

If the customer describes the symptom/condition listed above, perform the Repair Procedure.

PARTS REQUIRED:

CAUTION! Verify that the steering gear part number is correct, as per the listed applications bellow. Installation of the incorrect steering gear will lead to undesired handling characteristics, and most likely not address the customer's concern.

Qty.	Part No.	Description
1 (AR)	06036780AA	Nut, Pitman Shaft
1 (AR)	68507570AA	Gear, Steering - Four Door, Right Hand Drive (JL) Gear Ratios 14.2:1
1 (AR)	68507572AA	Gear, Steering - Two Door, Right Hand Drive (JL) Gear Ratios 16.14:1
1 (AR)	68507575AA	Gear, Steering - Right Hand Drive (JT) Gear Ratios 13.3:1
1 (AR)	68507574AA	Gear, Steering Four Door, Left Hand Drive (JL) With 3.0L (EXJ) Diesel Gear Ratios 13.7:1
1 (AR)	68507569AA	Gear, Steering - Four Door, Left Hand Drive (JL) Without 3.0L (EXJ) Diesel Gear Ratios 14.2:1
1 (AR)	68507571AA	Gear, Steering - Two Door, Left Hand Drive (JL) Gear Ratios 16.14:1
1 (AR)	68507576AA	Gear, Steering - Left Hand Drive (JT) Gear Ratios 13.3:1
1 (AR)	06506950AA	Bolt, I-Shaft
1 (AR)	06513396AA	Bolts, Frame - Steering Gear (4 Bolts Per Package) (Warranty Claim must be filled out with (4) 06513396AA Bolts)
(AR)	68088485AB	Fluid, Electric Steering Pump

NOTE: The aluminum steering gear frame bolts will have two different size bolts. The new steel gear frame bolts are all the same size.

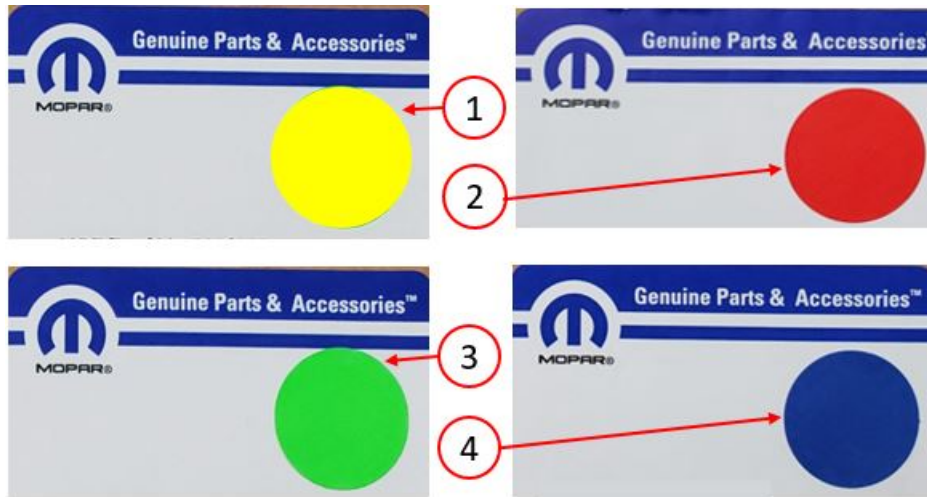


Fig. 1

The Steering Gear Parts Label Has A Color Dot On It To Help Confirm The Correct Steering Gear Was Ordered

- 1 - Yellow Dot, 68507576AA (JT Left Hand Drive (LHD))
- 2 - Red Dot, 68507569AA (JL 4 Door LHD, **W/O EXJ 3.0 Diesel**)
- 3 - Green Dot, 68507574AA (JL 4 Door LHD, **With EXJ 3.0 Diesel**)
- 4 - Blue Dot, 68507571AA (JL 2 Door LHD)

REPAIR PROCEDURE:

NOTE: Vehicles that have professionally installed lift kits, that are within the limits of the service wheel alignment specifications, are eligible for the repair described in this TSB. However, if the vehicle has been lifted or modified beyond the limits of the service wheel alignment specifications, this TSB is not likely to address the customer's concern of wander, leads and pulls.

NOTE: For early built (prior to 01/22/19) JL only, the track bar must be inspected and replaced, if not at the latest level at the conclusion of this repair procedure. Refer to all applicable published service bulletins for detailed repair procedures and labor times regarding the track bar replacement.

1. Record all radios presets on the work order, so they can be put back into the radio at the end of this repair procedure.

NOTE: Review and perform all steps available in DealerCONNECT/Service Library necessary to complete the Repair Procedure. This includes performing a wheel alignment after the steering gear has been replaced. If any steps are missed, this may lead to undesired handling characteristics.

2. Replace the steering gear. Refer to the detailed service procedures available in DealerCONNECT>Service Library under: 19 - Steering / Gear / Removal and Installation.

NOTE: The steering gear ****pitman shaft nut,**** frame bolts and I-shaft pinch bolt will need to be replaced with new parts.

3. Check if the EHPS has the latest available software. Is the EHPS software up to date?
 - YES >>> Proceed to [Step 5](#).
 - NO >>> Proceed to [Step 4](#).
4. Reprogram the EHPS with the latest available software. Detailed instructions for flashing control modules using the wiTECH Diagnostic Application are available by selecting the application's "HELP" tab.

5. Check the vehicle's Sales Codes. Does it have Sales Code 5SY?
 - YES >>> Proceed to [Step 6](#).
 - NO >>> Proceed to [Step 7](#).
6. Remove Sales Code 5SY from the vehicle list. Go to DealerCONNECT > Service > Warranty Administration > Vehicle Option Update.
7. Is the vehicle a 2018 or 2019 JL?
 - YES>>> Proceed to [Step 8](#).
 - NO>>> Proceed to [Step 9](#).
8. Add Sales Code 70F to the vehicle list. Go to DealerCONNECT > Service > Warranty Administration > Vehicle Option Update.
9. Using wiTECH 2, perform "Restore Vehicle Configuration" routine. This routine can be found in Guided Diagnostics. Follow all screen prompts to complete this routine.
10. Clear any DTCs that may have been set in any module due to performing a Restore Vehicle Reconfiguration.
11. Install the radio presets that were recorded on the work order in [Step 1](#) of the repair procedure.
12. Is this vehicle a JL that was built on or before January 22, 2019?
 - YES>>> Proceed to [Step 13](#).
 - NO>>> This bulletin has been completed.
13. Using VIP check the vehicle's history to see if the track bar has been replaced. Was the front track bar replaced?
 - YES>>> This bulletin has been completed.
 - NO>>> Replace the track bar. Refer to all applicable published service bulletins for detailed repair procedures and labor times regarding the replacement of the track bar.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
19-00-01-9B	Steering Gear - Replace, Reprogram (EPS) Electric Power Steering, Includes Removing Sales Code 5SY, Restore Vehicle Configuration and Wheel Alignment. (2 - Skilled)	6 - Electrical and Body Systems	1.9 Hrs.

OPTIONAL EQUIPMENT:

Labor Operation No:	Description	Skill Category	Amount
19-00-01-6D	3.0L Turbo Diesel Equipped (2 - Skilled)	6 - Electrical and Body Systems	0.2 Hrs.

FAILURE CODE:

ZZ	Service Action
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