



Revision 7 September 2016

Dealer Service Instructions for:

# Safety Recall S27 / NHTSA 16V-240 Transmission Electronic Shift Lever

<u>NOTE: Added additional LOP times to reflect updated software with compressed IPC flash time.</u>

#### **Models**

2014 - 2015 (WK) Jeep<sub>®</sub> Grand Cherokee

**2012 - 2014** (LD) Dodge Charger

(LX) Chrysler 300

NOTE: This recall applies only to the above LD/LX vehicles equipped with a 3.6L gas engine.

IMPORTANT: Some of the involved vehicles may be in dealer new vehicle inventory. Federal law requires you to complete this recall service on these vehicles before retail delivery. Dealers should also consider this requirement to apply to used vehicle inventory and should perform this recall on vehicles in for service. Involved vehicles can be determined by using the VIP inquiry process.

### Subject

The electronic shift lever on about 536,000 of the above vehicles may allow a roll away condition if the vehicle's engine is left running, the parking brake is not engaged, and the transmission is not in the "PARK" position before exiting the vehicle.

#### Repair

New software must be installed which includes an "Auto Park" feature which eliminates the possibility of the driver inadvertently failing to place the transmission into "PARK" prior to exiting the vehicle. An addendum card for the owner's manual must be placed in each vehicle.

# **Parts Information**

No parts are required to perform this service procedure.

NOTE: If additional addendum cards are required, print page 3 of this document.

## **Parts Return**

No parts return required for this campaign.

# **Special Tools**

The following special tools are required to perform this repair:

➤ NPN wiTECH micro pod II

➤ NPN Laptop Computer

➤ NPN wiTECH Software







Driver inattention could lead to failure to place vehicle in PARK.

ALWAYS DO A VISUAL CHECK that your vehicle is in PARK by looking for the "P" in the EVIC or on the shift lever.

As an added precaution apply the parking brake.

# Auto Park is a new feature. It is not designed to replace the need to shift your vehicle into PARK.

If vehicle is not in PARK and driver presses the ignition switch to turn off the engine, the vehicle will Auto Park.

Auto Park will engage under these conditions:

- Vehicle is not in PARK
- Vehicle Speed is 1.2 MPH or less
- Ignition switch is pressed

WARNING: The engine will turn off and ignition switch changes to Accessory Mode (ACC). After 30 minutes it times out and ignition switch changes to OFF, unless the driver turns the ignition switch OFF. If vehicle is not in PARK and driver exits the vehicle with the engine running, the vehicle will Auto Park.

Auto Park will engage under these conditions:

- Vehicle is not in PARK
- Vehicle speed is 1.2 MPH or less
- Driver's seat belt is unbuckled
- Driver's door is ajar
- Brake Pedal is not depressed

The MESSAGE "Auto Park Engaged Press Brake + Push Button to Shift to Gear" will display in the Electronic Vehicle Information Center (EVIC). If the driver attempts to shift into PARK while moving, the vehicle may Auto Park.

Auto Park will engage **ONLY** when vehicle speed is 1.2 MPH or less within 5 seconds of the shift to PARK request.

The MESSAGE "Vehicle Speed is too high to shift" will display in the EVIC if vehicle speed is above 1.2 MPH.

If conditions are not met which allow the vehicle to engage PARK within 5 seconds of the request, driver will need to request PARK again.

**WARNING:** If vehicle speed is not below 1.2 MPH within 5 seconds of the request, the transmission will default to NEUTRAL. A vehicle left in the NEUTRAL position can roll if left unattended. As an added precaution always apply the parking brake when exiting the vehicle.

ALWAYS DO A VISUAL CHECK that your vehicle is in PARK by looking for the "P" in the EVIC and on the shift lever.

As an added precaution, apply the parking brake.







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#### 4WD LOW (If Equipped, Grand Cherokee Only)

Auto Park will be disabled when operating the vehicle in 4WD LOW.

The MESSAGE "Auto Park Disabled" will be displayed in the EVIC.

Auto Park is disabled in 4WD LOW. Additional customer warnings will be given under these conditions:

- Vehicle is not in PARK
- Driver's Door is ajar

The MESSAGE "Auto Park Not Engaged" will be displayed in the EVIC. A warning chime will continue until you shift the vehicle into PARK or the Driver's Door is closed.

ALWAYS DO A VISUAL CHECK that your vehicle is in PARK by looking for the "P" in the EVIC and on the shift lever.

As an added precaution, apply the parking brake.

#### **Service Procedure**

## A. Reprogram the PCM / TCM / RFH / IPC Modules

NOTE: The wiTECH scan tool must be used to perform this recall. This procedure must be performed with the latest software release level. If the reprogramming flash for the PCM/TCM/RFH/IPC modules is aborted or interrupted, repeat the procedure.

**SPECIAL NOTE:** The four modules <u>must</u> be reprogramed in the following order:

1<sup>st</sup> - Powertrain Control Module (PCM)

2<sup>nd</sup> - Transmission Control Module (TCM)

3<sup>rd</sup> - Radio Frequency Hub (RFH)

**4<sup>th</sup> - Instrument Panel Cluster (IPC)** 

CAUTION: The PCM/TCM/RFH modules require about 5 minutes each to reprogram. The <u>IPC software requires approximately two hours to complete</u> the reprogramming process. Schedule vehicles in for this recall accordingly.

1. Open the hood. Install a battery charger and verify that the charging rate provides 13.2 to 13.5 volts. Do not allow the charger to time out during the flash process. Set the battery charger timer (if so equipped) to continuous charge.

NOTE: Use an accurate stand-alone voltmeter. The battery charger voltmeter may not be sufficiently accurate. Voltages outside of the specified range will cause an unsuccessful flash. If voltage reading is too high, apply an electrical load by activating the park or headlamps and/or HVAC blower motor to lower the voltage.

- 2. Connect the wiTECH micro pod II to the vehicle data link connector.
- 3. Place the ignition in the "**RUN**" position.
- 4. Open a wiTECH Diagnostic session.

- 5. Starting at the "Select Tool" screen, select the row/tool for the wiPOD device you are using.
- 6. Enter your "User id" and "Password", and then select "Finish".
- 7. Select the "**Next**" tab at the bottom of the screen.
- 8. From the "Vehicle View" screen, click on the "PCM" icon.
- 9. From the "PCM View" screen select the "Flash" tab. Compare the "Current Flash Number" with the "New Part Number" listed on the "sort table". If the "Current Flash Number" is the same as the "New Part Number" continue to Step 15. If the part numbers are not the same, continue with Step 10.
- 10. With the cursor over the desired flash file, click the small green arrow button on the right side of the screen.
- 11. From the "**PCM Flash**" screen follow the wiTECH screen instructions to complete the flash.
- 12. Once the flash is complete click the "**OK**" button on the "**PCM Flash**" screen.
- 13. Select the "Clear Stored DTC's" button.
- 14. From the "PCM View" screen, compare the "Current Flash Number" with the "New Part Number" listed on the "sort table". If the "Current Flash Number" is the same as the "New Part Number" the flash is complete. Continue with Step 15. If the part numbers are not the same, repeat Steps 8 through 13.
- 15. **For vehicles equipped with a diesel engine**, perform the following steps:
  - a. Select the "Systems Test" tab.
  - b. Select "SCR DEF Tank Fluid Level Reset" from the list.
  - c. Follow the screen prompts to complete the reset procedure.
  - d. Continue with Step 16 of this procedure.

- 16. Return to the "Vehicle View" screen.
- 17. Select the "TCM" icon.
- 18. Select the "Flash" tab. Compare the "Current Flash Number" with the "New Part Number" listed on the "sort table". If the "Current Flash Number" is the same as the "New Part Number" continue to Step 26. If the part numbers are not the same, continue with Step 19.
- 19. With the cursor over the desired flash file, click the small green arrow button on the right side of the screen.
- 20. From the "**TCM Flash**" screen follow the wiTECH screen instructions to complete the flash.
- 21. Once the flash is complete click the "**OK**" button on the "**TCM Flash**" screen.
- 22. Select the "Clear Stored DTC's" button.
- 23. From the "TCM View" screen, compare the "Current Flash Number" with the "New Part Number" listed on the "sort table". If the "Current Flash Number" is the same as the "New Part Number" the flash is complete. Continue with Step 24. If the part numbers are not the same, repeat Steps 19 through 22.
- 24. Select the "**Data**" tab.
- 25. View clutch counts for clutches "A" through "E" listed in the data tab. Check "Fill" and "Fast Fill" counts. Verify that none of the clutch counts read zero:
  - ➤ If **none of the clutch counts read zero**, continue with Step 26.
  - ➤ If any of the clutch counts read zero, perform a transmission quick learn procedure or Adaptive Drive Learn. Refer to diagnostic procedures.

- 26. Return to the "Vehicle View" screen.
- 27. Select the "**RFH**" icon.
- 28. Select the "Flash" tab. Compare the "Current Flash Number" with the "New Part Number" listed on the "sort table". If the "Current Flash Number" is the same as the "New Part Number" continue to Step 32. If the part numbers are not the same, continue with Step 29.
- 29. With the cursor over the desired flash file, click the small green arrow button on the right side of the screen.
- 30. From the "**RFH Flash**" screen follow the wiTECH screen instructions to complete the flash.
- 31. Once the flash is complete click the "**OK**" button on the "**RFH Flash**" screen.
- 32. Select the "Clear Stored DTC's" button.
- 33. From the "RFH View" screen, compare the "Current Flash Number" with the "New Part Number" listed on the "sort table". If the "Current Flash Number" is the same as the "New Part Number" the flash is complete. Continue with Step 34. If the part numbers are not the same, repeat Steps 29 through 32.
- 34. Return to the "Vehicle View" screen.
- 35. Select the "**RFH**" icon.
- 36. Select the "Flash" tab. Compare the "Current Flash Number" with the "New Part Number" listed on the "sort table". If the "Current Flash Number" is the same as the "New Part Number" continue to Step 40. If the part numbers are not the same, continue with Step 37.
- 37. With the cursor over the desired flash file, click the small green arrow button on the right side of the screen.

- 38. From the "**RFH Flash**" screen follow the wiTECH screen instructions to complete the flash.
- 39. Once the flash is complete click the "**OK**" button on the "**RFH Flash**" screen.
- 40. Select the "Clear Stored DTC's" button.
- 41. From the "RFH View" screen, compare the "Current Flash Number" with the "New Part Number" listed on the "sort table". If the "Current Flash Number" is the same as the "New Part Number" the flash is complete. Continue with Step 42. If the part numbers are not the same, repeat Steps 37 through 40.
- 42. Return to the "Vehicle View" screen.
- 43. Select the "**IPC**" icon.
- 44. Select the "Flash" tab. Compare the "Current Flash Number" with the "New Part Number" listed on the "sort table". If the "Current Flash Number" is the same as the "New Part Number" continue to Step 48. If the part numbers are not the same, continue with Step 45.
- 45. With the cursor over the desired flash file, click the small green arrow button on the right side of the screen.
- 46. From the "**IPC Flash**" screen follow the wiTECH screen instructions to complete the flash.
- 47. Once the flash is complete click the "**OK**" button on the "**IPC Flash**" screen.
- 48. Select the "Clear Stored DTC's" button.

NOTE: WK vehicles equipped with a 3.0L diesel and 4x2 configuration may experience Diagnostic Trouble Code (DTC) U0403 after the recall is completed. This DTC cannot be erased and should be disregarded. The customer does not receive a message and/or a Malfunction Indicator Lamp (MIL). This condition will be corrected in the near future with updated software. The vehicle does not have to return for additional software updates regarding this issue.

49.	From the "IPC View" screen, compare the "Current Flash Number" with the
	"New Part Number" listed on the "sort table". If the "Current Flash
	Number" is the same as the "New Part Number" the flash is complete.
	Continue with Step 50. If the part numbers are not the same, repeat Steps 45
	through 48.

50. Turn the ignition to the "**OFF**" position, remove the wiPOD II and battery charger from the vehicle and then close the hood.

51. Place an owner's manual addendum card into the vehicle's owner manual.

52. Return the vehicle to the customer.

# **Completion Reporting and Reimbursement**

Claims for vehicles that have been serviced must be submitted on the DealerCONNECT Claim Entry Screen located on the Service tab. Claims submitted will be used by FCA to record recall service completions and provide dealer payments.

Use the following labor operation number and time allowance:

	Labor Operation <a href="Mailto:Number">Number</a>	Time <u>Allowance</u>
Reprogram the PCM / TCM / RFH / IPC modules and insert owner's manual addendum card (WK without diesel engine)	18-S2-71-82	2.3 hours
Reprogram the PCM / TCM / RFH / IPC modules and insert owner's manual addendum card (WK with diesel engine)	18-S2-71-83	2.4 hours
Reprogram the PCM / TCM / RFH / IPC modules and insert owner's manual addendum card (2014/2015 model year WK with SRT package)	18-S2-71-84	2.3 hours
Reprogram the PCM / TCM / RFH / IPC modules and insert owner's manual addendum card (2013-2014 LD / LX models)	s) 18-S2-71-85	1.0 hours
Reprogram the PCM / TCM / RFH / IPC modules and insert owner's manual addendum card (2012 LD / LX models)	18-S2-71-86	1.1 hours

# **Completion Reporting and Reimbursement (Continued)**

<b>Labor Operation</b>	Time	
<u>Number</u>	<b>Allowance</b>	

# NOTE: The following LOPs to be used for vehicles flashed with compressed IPC flash time.

Reprogram the PCM / TCM / RFH / IPC modules and insert owner's manual addendum card (WK without diesel engine)	18-S2-71-87	1.0 hours
Reprogram the PCM / TCM / RFH / IPC modules and insert owner's manual addendum card (WK with diesel engine)	18-S2-71-88	1.1 hours
Reprogram the PCM / TCM / RFH / IPC modules and insert owner's manual addendum card (2014/2015 model year WK with SRT package)	18-S2-71-89	1.0 hours

NOTE: See the Warranty Administration Manual, Recall Claim Processing Section, for complete recall claim processing instructions.

# **Dealer Notification**

To view this notification on DealerCONNECT, select "Global Recall System" on the Service tab, then click on the description of this notification.

#### **Owner Notification and Service Scheduling**

All involved vehicle owners known to FCA are being notified of the service requirement by first class mail. They are requested to schedule appointments for this service with their dealers. A generic copy of the owner letter is attached.

Enclosed with each owner letter is an Owner Notification postcard to allow owners to update our records if applicable.

#### **Vehicle Lists, Global Recall System, VIP and Dealer Follow Up**

All involved vehicles have been entered into the DealerCONNECT Global Recall System (GRS) and Vehicle Information Plus (VIP) for dealer inquiry as needed.

GRS provides involved dealers with an <u>updated</u> VIN list of <u>their incomplete</u> vehicles. The owner's name, address and phone number are listed if known. Completed vehicles are removed from GRS within several days of repair claim submission.

To use this system, click on the "Service" tab and then click on "Global Recall System." Your dealer's VIN list for each recall displayed can be sorted by: those vehicles that were unsold at recall launch, those with a phone number, city, zip code, or VIN sequence.

**Dealers** <u>must</u> perform this repair on all unsold vehicles <u>before</u> retail delivery. Dealers should also use the VIN list to follow up with all owners to schedule appointments for this repair.

Recall VIN lists may contain confidential, restricted owner name and address information that was obtained from the Department of Motor Vehicles of various states. Use of this information is permitted for this recall only and is strictly prohibited from all other use.

#### **Additional Information**

If you have any questions or need assistance in completing this action, please contact your Service and Parts District Manager.

Customer Services / Field Operations FCA US LLC



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# IMPORTANT SAFETY RECALL

S27 / NHTSA 16V-240

This notice is sent to you in accordance with the National Traffic and Motor Vehicle Safety Act.

Dear: (Name)

FCA US has decided that a defect, which relates to motor vehicle safety, exists in certain 2014 and 2015 Jeep Grand Cherokee and 2012 through 2014 model year Chrysler 300/Dodge Charger vehicles.

The problem is...

Your vehicle may roll away, striking and injuring you, your passengers, or bystanders, if the vehicle's engine is left running, the parking brake is not engaged, and the transmission is not in the "PARK" position before exiting the vehicle.

Drivers may inadvertently fail to achieve the "PARK" positon before exiting the vehicle. The electronic shift lever in your vehicle does not move like a conventional shifter. Your shift lever is spring loaded and returns to the same center position like a joystick, always returning to the center position after the desired gear is selected.

What your dealer will do...

**FCA will repair your vehicle free of charge.** To do this, your dealer will install new software to include an "Auto Park" feature which eliminates the possibility of the driver inadvertently failing to place the transmission into "PARK" prior to exiting the vehicle. The work will take about two hours to complete. However, additional time may be necessary depending on service schedules.

NOTE: You will receive an "Auto Park" addendum card explaining the vehicle's new "Auto Park" feature. After your vehicle receives the software update, please review the addendum card with all of the drivers of your vehicle and then store the addendum card in the owner's manual for future reference. Your dealer will also review/demonstrate this new "Auto Park" feature and answer any questions or concerns.

What you must do to ensure your safety...

Simply **contact your Chrysler**, **Jeep**, **Dodge or RAM dealer** right away to schedule a service appointment. **Please bring this letter with you to your dealer**.

NOTE: To prevent any unintended vehicle movement, always fully apply the parking brake before exiting the vehicle.

If you need help...

If you have questions or concerns which your dealer is unable to resolve, please contact the FCA Group Recall Assistance Center at either **fcarecalls.com** or 1-800-853-1403.

Please help us update our records by filling out the attached prepaid postcard if any of the conditions listed on the card apply to you or your vehicle. If you have further questions go to **fcarecalls.com**.

If you have already experienced this specific condition and have paid to have it repaired, you may visit **www.fcarecallreimbursement.com** to submit your reimbursement request online or you can mail your original receipts and proof of payment to the following address for reimbursement consideration: **FCA Customer Assistance**, **P.O. Box 21-8004**, **Auburn Hills**, **MI 48321-8007**, **Attention: Recall Reimbursement**. Once we receive and verify the required documents, reimbursement will be sent to you within 60 days. If you've had previous repairs and/or reimbursement you may still need to have the recall repair performed on your vehicle.

If your dealer fails or is unable to remedy this defect without charge and within a reasonable time, you may submit a written complaint to the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Ave., S.E., Washington, DC 20590, or you can call the toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY 1-800-424-9153), or go to **safercar.gov**.

We're sorry for any inconvenience, but we are sincerely concerned about your safety. Thank you for your attention to this important matter.

Customer Services / Field Operations FCA US LLC



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11/02/2016

#### Safety Recall Technical Advisory (S27)

In May of 2016, FCA released **Safety Recall S27** – Transmission Electronic Shift Lever. This recall involved certain 2014 and 2015 Jeep Grand Cherokee and 2012 through 2014 model year Chrysler 300/Dodge Charger vehicles.

Some of the involved vehicles that had safety recall S27 performed <u>may not</u> have had all four involved modules updated with new or correct software. Due to this unfortunate situation, the recall status for this small group of vehicles will be returned to "Open" status for this recall in the Global Recall System.

Involved customers will be receiving a letter explaining the situation and requesting that they return to their local dealership to have the software for all four modules checked and updated as required.

NOTE: A sample copy of the customer letter that is being sent to customers has been attached to this communication.

We are requesting that these customers are given top priority when they return to have this situation corrected.

Thank you, Customer Services Field Operations FCA US LLC