



## TECHNICAL SERVICE BULLETIN

### 10R140 Automatic Transmission - Harsh/Delayed Engagement And/Or Harsh/Delayed Shift

**22-2015**26 January  
2022**Model:**

<b>Ford</b> 2022 F-Super Duty	Transmission/Transaxle: 10R140
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**Issue:** Some 2022 F-Super Duty vehicles equipped with a 10R140 automatic transmission may exhibit a harsh/delayed engagement and/or harsh/delayed shift. It is possible the vehicle may also have an illuminated malfunction indicator lamp (MIL) and diagnostic trouble codes (DTC) P0729, P0731, P0732, P0733, P0734, P0735, P0736, P076F, P07D9, P07F7, P2700, P2701, P2702, P2703, P2704 and/or P2705 stored in the powertrain control module (PCM) or transmission control module (TCM). This may be due to sticking valves in the main control valve body. To correct the condition, follow the Service Procedure to submit a report a vehicle concern with the collected transmission early alert monitor keep-alive memory (TEAM KAM) data file, then perform the transmission accelerated main control break-in routine for the appropriate clutches and/or overhaul main control valve body.

**Action:** Follow the Service Procedure steps to correct the condition on vehicles that meet all of the following criteria:

- 2022 F-Super Duty
- 10R140 automatic transmission
- At least one of the following conditions:
  - Harsh engagement
  - Delayed engagement
  - Harsh shift
  - Delayed shift

**Parts**

Service Part Number	Quantity	Description	Unit of Issue	Piece Quantity
W712658-S439	1	LPC Retaining Bolt	4	1
LC3Z-7G007-A	6	Shift Solenoid Retainers (Small)	1	6
JM5Z-7G007-A	1	Shift Solenoid Retainer (Large)		
XT-12-QULV	As Needed	Motorcraft® MERCON® ULV Automatic Transmission Fluid		

Quantity refers to the amount of the service part number required to repair the vehicle.

Unit of Issue refers to the number of individual pieces included in a service part number package.

Piece Quantity refers to the total number of individual pieces required to repair the vehicle.

Unit of Issue and Piece Quantity are 1 unless otherwise stated.

As Needed indicates the amount of the part may vary and/or is not a whole number. Parts can be billed out as non-whole numbers, including less than 1.

**Parts****Parts To Inspect And Replace Only If Necessary**

Service Part Number	Quantity	Description
LC3Z-7A008-E	If Needed	MCA Separator Plate Kit (Fixed Yoke)
LC3Z-7A008-F	If Needed	MCA Separator Plate Kit (Slip Yoke)
LC3Z-7F396-C	If Needed	Fluid Pan Gasket

LC3Z-7G186-A	If Needed	Fluid Filter
LC3Z-7N265-A	If Needed	Main Control Manifold Seal
LC3Z-7N265-B	If Needed	Fluid Pump Gasket

If Needed indicates the part is not mandatory.

**Warranty Status:** Eligible under provisions of New Vehicle Limited Warranty (NVLW)/Service Part Warranty (SPW)/Special Service Part (SSP)/Extended Service Plan (ESP) coverage. Limits/policies/prior approvals are not altered by a TSB. NVLW/SPW/SSP/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool.

### Labor Times

Description	Operation No.	Time
2022 F-Super Duty 10R140 Transmission: Submit A Report A Vehicle Concern, Perform Accelerated Main Control Break In Routine And Adaptive Learning Drive Cycle (No) Repair Complete (Do Not Use With Any Other Labor Operations)	222015A	2.4 Hrs.
2022 F-Super Duty 10R140 Transmission: Submit A Report A Vehicle Concern, Perform Accelerated Main Control Break In Routine And Adaptive Learning Drive Cycle (Yes) Overhaul The Main Control Valve Body And Perform Adaptive Learning Drive Cycle (Do Not Use With Any Other Labor Operations)	222015B	6.4 Hrs.

### Repair/Claim Coding

Causal Part:	7A100
Condition Code:	49

## Service Procedure

**NOTE: Use the Integrated Diagnostic Software (IDS) scan tool to perform Steps 1 through 9. Ford Diagnosis and Repair System (FDRS) cannot be used to perform the data collection.**

1. Connect the IDS scan tool to the vehicle. Do not start a session.
2. Navigate to the System Page by selecting the IDS Tab (blue ball-and-socket) at the top left of the screen.
3. Navigate to the System Utilities page by selecting the Swiss Army Knife icon from the tabs at the bottom of the screen.
4. On the right half of the screen, under Miscellaneous, select Update / Special Function. Select the Tick.
5. In the data entry box that appears, type in the code of the day from the chart at the end of this article. Select the Tick.
6. On the next screen, select TEAM KAM Data Selection and follow the prompts. Make sure not to select clear the team data.

**NOTE: When the data retrieval is complete, it saves a file directly to the C:\Users\Work Station\Documents. The filename is the VIN followed by TEAMKAMdata. Example: 1Fxxxxxxxxxxxxx\_TEAMKAMdata.txt.**

7. Click the Report a Vehicle Concern link at the bottom of the Vehicle ID tab on the Professional Technician System (PTS) website.

**NOTE: When completing the form make sure to include "TEAM KAM data file" in the Describe Repairs section of the form. After completing the report entry form and submitting the report, up to 5 attachments at one time can be added. Save the attachments to the computer being used.**

8. Locate the 1Fxxxxxxxxxxxxx\_TEAMKAMdata.txt file saved at C:\Users\Work Station\Documents. The saved file needs to be renamed, dropping the first 9 digits of the VIN. The file name cannot exceed 28 characters.
9. Attach the renamed file to the report that was just submitted.
10. Connect the FDRS scan tool to the data link connector (DLC).
11. Are any transmission related DTCs present?

(1). Yes - determine the appropriate clutch(s) to be cycled related to the DTCs present. Refer to Workshop Manual (WSM), Section 307-01.

(2). No - determine the appropriate clutch(s) to be cycled related to the symptoms present. Refer to WSM, Section 307-01.

12. Record and clear all DTCs before performing the PCM/TCM - Transmission Accelerated Main Control Break In routine.



**CAUTION: Failure to use a frame engaging lift could damage the vehicle.**

13. Prepare the vehicle for the PCM/TCM Transmission Accelerated Main Control Break In routine by positioning the vehicle on a frame-engaging lift with the wheels off the ground to prevent vehicle movement.

14. Using the latest software level of the appropriate Ford diagnostic scan tool, perform the PCM/TCM - Transmission Accelerated Main Control Break In routine 3 times on the appropriate clutch(s) determined to be cycled.

15. Perform the adaptive learning drive cycle. Refer to WSM, Section 307-01.

**NOTE: Advise the customer this vehicle is equipped with an adaptive transmission shift strategy which allows the vehicle's computer to learn the transmission's unique parameters and improve shift quality. When the adaptive strategy is reset, the computer will begin a relearning process. This relearning process may result in firmer than normal upshifts and downshifts for several days.**

16. Does the vehicle still exhibit the condition after performing the PCM/TCM - Transmission Accelerated Main Control Break In routine and adaptive learning drive cycle?

(1). Yes - overhaul (clean and inspect) the main control valve body. Refer to WSM, Section 307-01.

(2). No - repair is complete.

17. Perform the adaptive learning drive cycle. Refer to WSM, Section 307-01.

## Code Of The Day

Use the chart below to determine the IDS code of the day.

Date	Code
January 26	17726
January 27	13027
January 28	18528
January 29	14229
January 30	10130
January 31	16231
February 1	10502
February 2	10804
February 3	11306
February 4	12008
February 5	12910
February 6	14012
February 7	15314
February 8	16816
February 9	18518
February 10	10420
February 11	12522
February 12	14824
February 13	17326
February 14	10028
February 15	12930

Date	Code
February 16	16032
February 17	19334
February 18	12836
February 19	16538
February 20	10440
February 21	14542
February 22	18844
February 23	13346
February 24	18048
February 25	12950
February 26	18052
February 27	13354
February 28	18856
March 1	11003
March 2	11306
March 3	11809
March 4	12512
March 5	13415
March 6	14518
March 7	15821
March 8	17324
March 9	19027
March 10	10930
March 11	13033
March 12	15336
March 13	17839
March 14	10542
March 15	13445
March 16	16548
March 17	19851
March 18	13354
March 19	17057
March 20	10960
March 21	15063
March 22	19366
March 23	13869
March 24	18572
March 25	13475
March 26	18578
March 27	13881
March 28	19384

Date	Code
March 29	15087
March 30	10990
March 31	17093
April 1	11704
April 2	12008
April 3	12512
April 4	13216
April 5	14120
April 6	15224
April 7	16528
April 8	18032
April 9	19736
April 10	11640
April 11	13744
April 12	16048
April 13	18552
April 14	11256
April 15	14160
April 16	17264
April 17	10568
April 18	14072
April 19	17776
April 20	11680
April 21	15784
April 22	10088
April 23	14592
April 24	19296
April 25	14200
April 26	19304
April 27	14608
April 28	10112
April 29	15816
April 30	11720
May 1	12605
May 2	12910
May 3	13415
May 4	14120
May 5	15025
May 6	16130
May 7	17435
May 8	18940

Date	Code
May 9	10645
May 10	12550
May 11	14655
May 12	16960
May 13	19465
May 14	12170
May 15	15075
May 16	18180
May 17	11485
May 18	14990
May 19	18695
May 20	12600
May 21	16705
May 22	11010
May 23	15515
May 24	10220
May 25	15125
May 26	10230
May 27	15535
May 28	11040
May 29	16745
May 30	12650
May 31	18755
June 1	13706
June 2	14012
June 3	14518
June 4	15224
June 5	16130
June 6	17236
June 7	18542
June 8	10048
June 9	11754
June 10	13660
June 11	15766
June 12	18072
June 13	10578
June 14	13284
June 15	16190
June 16	19296
June 17	12602
June 18	16108

Date	Code
June 19	19814
June 20	13720
June 21	17826
June 22	12132
June 23	16638
June 24	11344
June 25	16250
June 26	11356
June 27	16662
June 28	12168
June 29	17874
June 30	13780
July 1	15007
July 2	15314
July 3	15821
July 4	16528
July 5	17435
July 6	18542
July 7	19849
July 8	11356
July 9	13063
July 10	14970
July 11	17077
July 12	19384
July 13	11891
July 14	14598
July 15	17505
July 16	10612
July 17	13919
July 18	17426
July 19	11133
July 20	15040
July 21	19147
July 22	13454
July 23	17961
July 24	12668
July 25	17575
July 26	12682
July 27	17989
July 28	13496
July 29	19203

Date	Code
July 30	15110
July 31	11217

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NOTE: The information in Technical Service 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 or truck. Contact a Ford or Lincoln dealership to determine whether the Bulletin applies to your vehicle. Warranty Policy and Extended Service Plan documentation determine Warranty and/or Extended Service Plan coverage unless stated otherwise in the TSB article. The information in this Technical Service Bulletin (TSB) was current at the time of printing. Ford Motor Company reserves the right to supersede this information with updates. The most recent information is available through Ford Motor Company's on-line technical resources.