

FORD 8F35

OUTPUT PLANETARY DAMAGE

COMPLAINT: An owner of a 2019 to 2021 Ford Transit Connect built on or before December 20, 2021 and equipped with the 8F35 transmission may have complaints of the transmission slipping or harsh engagements with various diagnostic trouble codes set.

The list of possible stored diagnostic codes can be seen in the chart in figure 1.

CAUSE: These complaints are caused by failure of the needle bearings in the output planetary carrier. The failure of the carrier, figure 2, may also cause damage to output planetary sun shell seen in figure 3 and the "A" (1-2-3-4-5) clutch plates as shown in figure 4. The "A" (1-2-3-4-5) clutch housing seen in figure 4 may also sustain enough damage to require replacement.

The valve body assembly and solenoids will have to be checked for metal contamination as well.

CORRECTION: Replace the output planetary carrier with the updated part. Replace the output planetary sun shell and the "A" (1-2-3-4-5) clutch pack assembly.

If the "A" (1-2-3-4-5) clutch housing requires replacement, replace it as a complete assembly which also contains the Selectable One-Way Clutch.

Part numbers can be found under "Service Information" for the output planetary carrier shown in figure 5, the output planetary sun shell seen in figure 6 and the "A" (1-2-3-4-5) clutch housing shown in figure 7.

The "A" (1-2-3-4-5) clutch assembly seen in figure 8 can be acquired from your local parts distributor.

If the valve body and solenoid assembly cannot be salvaged, order it using the VIN to ensure correct solenoid strategy. It might be appropriate to replace the torque converter as well and thoroughly flush the transmission cooling system.

SERVICE INFORMATION:

Output Planetary Carrier.....	JM5Z-7N473-C
Output Planetary Sun Shell.....	JM5Z-7A019-A
"A" (1-2-3-4-5)/SOWC Clutch Housing.....	JM5Z-7P030-C

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DTC	DEFINITION
P0727	Engine Speed Input Circuit No Signal
P0730	Incorrect Gear Ratio
P0741	Torque Converter Clutch Circuit Performance Stuck Off
P0751	Shift Solenoid "A" Performance - Stuck Off
P0752	Shift Solenoid "A" Performance - Stuck On
P0756	Shift Solenoid "B" Performance - Stuck Off
P0757	Shift Solenoid "B" Performance - Stuck On
P0771	Shift Solenoid "E" Performance - Stuck Off
P1741	Torque Converter Clutch Control Error
P1743	Torque Converter Clutch Circuit Failed On
P1744	Torque Converter Clutch Circuit Performance
P2700	Transmission Friction Element "A" Apply Time Range Performance
P2701	Transmission Friction Element "B" Apply Time Range Performance
P2704	Transmission Friction Element "E" Apply Time Range Performance

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Figure 1



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Figure 2

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Figure 3



Figure 4

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OUTPUT PLANETARY CARRIER - PN - JM5Z-7N473-C



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Figure 5

OUTPUT PLANETARY SUN SHELL
PN - JM5Z-7A019-A



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Figure 6

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“A” (1-2-3-4-5)/SOWC CLUTCH HOUSING
PN - JM5Z-7P030-C



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Figure 7

“A” (1-2-3-4-5) CLUTCH ASSEMBLY



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Figure 8