

December 4, 2020

Version 5

MIL Comes On with DTC P0716

Supersedes 19-003, dated October 15, 2020; to revise the information highlighted in **yellow**.

AFFECTED VEHICLES

Year	Model	Trim	VIN Range
2016-17	MDX	ALL	ALL
2015	TLX	V6 2WD with 9-Speed A/T	From VIN 19UUB2...FA021489 and later
		V6 AWD with 9-Speed A/T	From VIN 19UUB3...FA007728 and later
2016-17	TLX	V6 with 9-Speed A/T	ALL
2018	TLX	V6 2WD with 9-Speed A/T	From VIN 19UUB2...JA000001 to 19UUB2...JA011767
		V6 AWD with 9-Speed A/T	From VIN 19UUB3...JA000001 to 19UUB3...JA005470

REVISION SUMMARY

- Under SOFTWARE INFORMATION, information was updated.
- Under AFFECTED VEHICLES, models were updated.

BACKGROUND

During a downshift from 9th or 8th gear to 7th gear or lower, a miscalculation in the TCM software causes the MIL to come on with DTC P0716 (input shaft [mainshaft] speed sensor [range/performance]).

CORRECTIVE ACTION

Check if the on-board snapshot shows DTC P0716. If it does, send it to Tech Line referencing the repair order number and update the TCM software.

If the on-board snapshot does not show DTC P0716, this bulletin does not apply.

WARRANTY CLAIM INFORMATION

The normal warranty applies.

Operation Number	Description	Flat Rate Time	Defect Code	Symptom Code	Template ID	Failed Part Number
1255C7	Update the TCM software.	0.2 hr	03214	03217	B19003A	28103-5J4-A500

Skill Level: Repair Technician

CLIENT INFORMATION: The information in this bulletin is intended for use only by skilled technicians who have the proper tools, equipment, and training to correctly and safely maintain your vehicle. These procedures should not be attempted by "do-it-yourselfers," and you should not assume this bulletin applies to your vehicle, or that your vehicle has the condition described. To determine whether this information applies, contact an authorized Acura automobile dealer.

SOFTWARE INFORMATION

NOTE

Unnecessary or incorrect repairs resulting from a failure to update the i-HDS are not covered under warranty.

i-HDS Software Version: **1.006.013 or later**

J2534 Rewrite Software Information:

- PC Application Version **1.2.1.1 or later**
- Database update **23-SEP-2020**

Before beginning the repair, make sure that both the i-HDS and J2534 Rewrite software are updated as listed above.

Do only the update listed in this service bulletin.

You cannot apply the updates with the MVCI as a standalone tool. To update the software you must use the MVCI or the DST-i interface in conjunction with the J2534 Rewrite software on the i-HDS.

For more information about updating the i-HDS, the MVCI, and vehicle systems, refer to service bulletin 01-026, *Updating Control Units/Modules*.

Year/Model	Trim	Program ID (or later)	Program P/N (or later)
2017 TLX	9AT 2WD Base and Tech Package	28103-5J4-A100	28103-5J4-A10
2017 TLX	9AT 2WD With Advance Package	28103-5J4-A200	28103-5J4-A20
2017 TLX	9AT AWD Base and Tech Package	28103-5L9-A100	28103-5L9-A10
2017 TLX	9AT AWD Advance Package	28103-5L9-A200	28103-5L9-A20
2015-17 TLX	9AT 2WD Base and Tech Package	28103-5J4-A700	28103-5J4-A70
2015-17 TLX	9AT 2WD Advanced Package	28103-5J4-A800	28103-5J4-A80
2015-17 TLX	9AT AWD With Base and Tech Package	28103-5L9-A300	28103-5L9-A30
2015-17 TLX	9AT AWD Advance Package	28103-5L9-A800	28103-5L9-A80

Year/Model	Trim	Program ID (or later)	Program P/N (or later)
2018 TLX	2WD	28103-5J4-A300	28103-5J4-A30
2018 TLX	AWD	28103-5L9-A500	28103-5L9-A50
2018 TLX	2WD	28101-5J4-A900	28101-5J4-A90
2018 TLX	AWD	28101-5L9-A900	28101-5L9-A90
2016 MDX	2WD Base and Tech Package	28103-5NB-A500	28103-5NB-A50
2016 MDX	2WD Base and Tech Package	28103-5NB-A600	28103-5NB-A60
2016 MDX	2WD With Advance Package	28103-5NB-A700	28103-5NB-A70
2016 MDX	AWD Base and Tech Package	28103-5NC-A500	28103-5NC-A50
2016 MDX	AWD Base and Tech Package	28103-5NC-A600	28103-5NC-A60
2016 MDX	AWD With Advance Package	28103-5NC-A700	28103-5NC-A70
2017 MDX	2WD Base and Tech Package	28103-5NB-A100	28103-5NB-A10
2017 MDX	2WD Base and Tech Package	28103-5NB-A200	28103-5NB-A20
2017 MDX	2WD With Advance Package	28103-5NB-A300	28103-5NB-A30
2017 MDX	AWD Base and Tech Package	28103-5NC-A100	28103-5NC-A10
2017 MDX	AWD Base and Tech Package	28103-5NC-A200	28103-5NC-A20
2017 MDX	AWD With Advance Package	28103-5NC-A300	28103-5NC-A30

REPAIR PROCEDURE

1. Turn the ignition to ON.
2. Connect the i-HDS, and go to the **A/T Data List**. Check if the software has been updated by comparing the Program ID with the table in SOFTWARE INFORMATION.

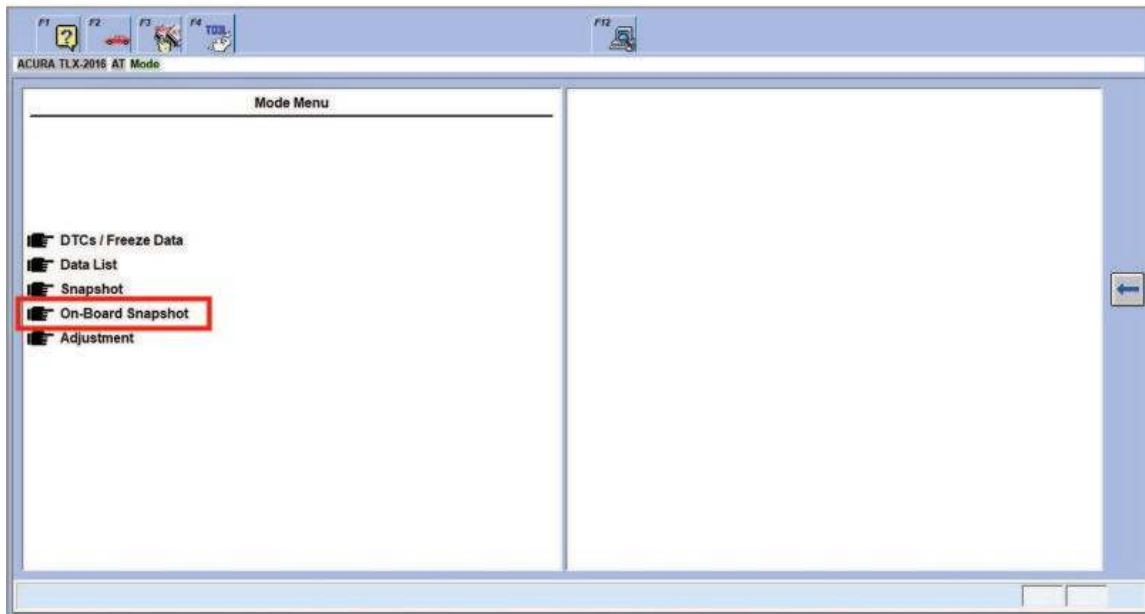
PROGRAM ID

The screenshot shows the i-HDS software interface with the 'A/T Data List' selected. The top status bar displays 'ACURA TLX 2016 AT Mode DataList' and 'SW:001706CAPP011 SAT 08 14 09 30 0'. The 'PROGRAM ID' is highlighted in a red box and labeled with an arrow. The main window displays a table of vehicle data.

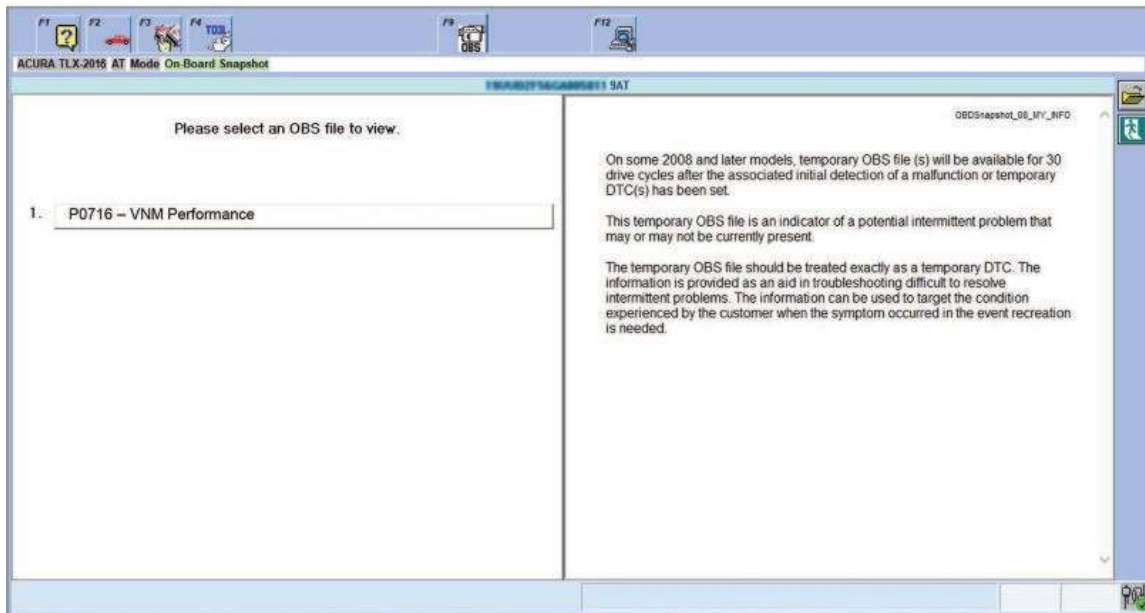
Signal	Value	Units
Vehicle Speed	0	MPH
Vehicle Speed from Transmission Output Shaft Speed	0	MPH
Vehicle Speed from Transmission Input Shaft Speed	0	MPH
Transmission Input Speed	0	RPM
Transmission Output Speed	0	RPM
ATF Temperature	123.8	°F
Voltage to control solenoids	12.10	V
Input voltage of "ESL_POWER"	11.40	V
Oil pressure sensor value for dog clutch	1.11	bar
Parking Sensor Signal P	Parking	
Parking Sensor Signal not P	Other	
Shift up Switch on Steering	OFF	
Shift down Switch on Steering	OFF	
Power supply voltage for "VBSOL"	12.10	V
Power supply voltage for sensors 1.	8.60	V
Power supply voltage for sensors 2.	5.00	V
Reverse signal output.	OTHER	
Parking signal output.	OTHER	
Engine Speed	0	RPM
Calculated Accelerator Pedal Position	0.0	%
Calculated Driver request engine torque.	0.8	N·m
Calculated Engine torque.	3.0	N·m
Barometric Pressure	100	kPa
Lateral G	0.00	m/s²

- If the Program ID shown matches the table, the vehicle has been updated and this service bulletin does not apply. Continue with normal system troubleshooting.
- If the Program ID shown does not match the table, the vehicle has not been updated. Go to step 3.

3. Select **Mode Menu**, then **On-Board Snapshot**.

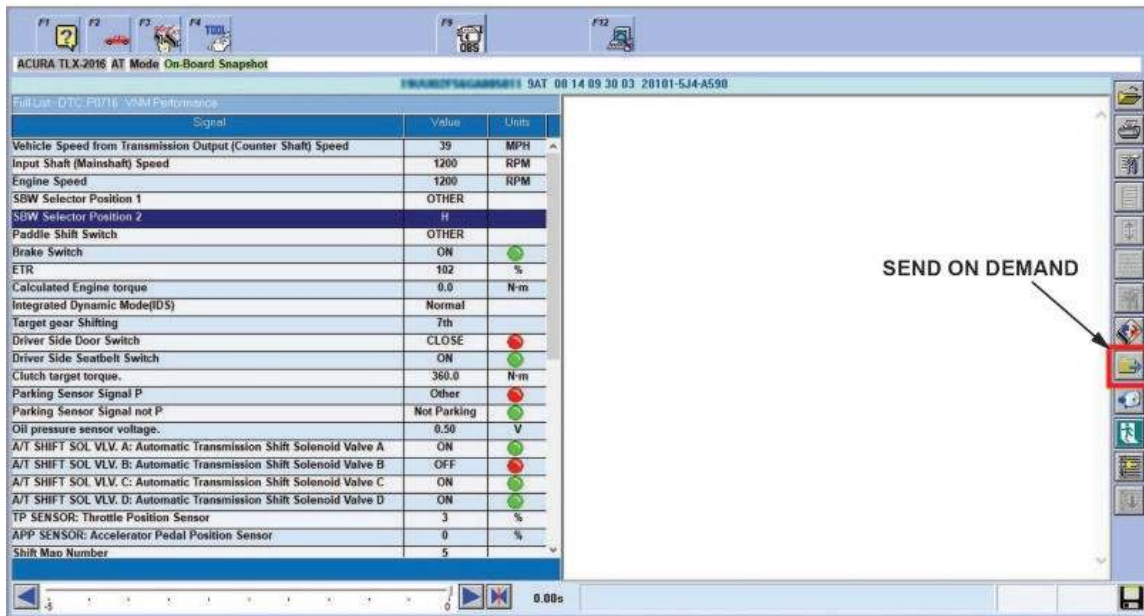


4. Select and view all available on-board snapshots for Automatic Transmission (EAT).



- If no on-board snapshots show P0716, this service bulletin does not apply. Continue with normal system troubleshooting.

- If an on-board snapshot shows P0716, select **Send On Demand** to e-mail it to Tech Line, then go to step 5.



5. Update the TCM software using the i-HDS J2534 Rewrite software with the MVCI or DST-i. Refer to service bulletin 01-026, *Updating Control Units/Modules*.

END