

Component Procedures: Automatic Transmission/Transaxle

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Component Procedures: Automatic Transmission/Transaxle

Parts and Labor (itype_189)

Parts

Qualifier	Part #	Name	Price	Note
Transmission	19302148	Transmission	2922.25	

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Automatic Transmission > Extension Housing Se?	B	1.8	1.2
Remove & Replace	Automatic Transmission > Transmission, R&R	B	7.3	5.2
Remove & Replace	Automatic Transmission > Transmission, R&R > ?		0.6	
Remove & Replace	Automatic Transmission > Transmission, R&R > ?		0.2	
Remove & Replace	Automatic Transmission > Transmission, R&R > ?		0.2	
Remove & Replace	Gear Shift Control > Gear Shift Assembly, R&R	B	1.4	0.0
Remove & Replace	Gear Shift Control > Shift Control Cable, R&R	B	0.5	0.0
Remove & Replace	Mounts > Rear Mount, R&R > Auto Trans	B	0.7	0.0
Remove & Replace	Oil Cooler > Coolant Line, R&R > Both	B	2.0	0.0
Remove & Replace	Oil Cooler > Coolant Line, R&R > Lower	B	1.6	0.0
Remove & Replace	Oil Cooler > Coolant Line, R&R > Upper	B	1.6	0.0
Remove & Replace	Oil Cooler > Oil Cooler, R&R	B	3.2	0.0
Remove & Replace	Powertrain Control > Vehicle Speed Sensor, R&R	B	0.6	0.0
Remove & Replace	Shift Interlock > Actuator, R&R	B	1.1	0.0
Remove & Replace	Switches > Range Sensor, R&R	B	1.4	1.0
Remove & Replace	Transmission > Input Sensor, R&R	B	2.1	0.0
Change	Automatic Transmission > Trans Fluid, Change	C	1.0	0.8
Change	Automatic Transmission > Trans Fluid, Change ?		0.1	
Overhaul	Automatic Transmission > Transmission, Overha?	A	14.7	0.0
Overhaul	Automatic Transmission > Transmission, Overha?		0.6	
Overhaul	Automatic Transmission > Transmission, Overha?		1.6	
Diagnosis	Automatic Transmission > Oil Leak, Diagnosis	B	0.5	0.0
Diagnosis	Automatic Transmission > Transmission, Diagno?	B	1.8	0.0
Remove & Install	Automatic Transmission > Transmission, R&I	B	6.7	0.0
Remove & Install	Automatic Transmission > Transmission, R&I > ?		0.2	
Remove & Install	Automatic Transmission > Transmission, R&I > ?		0.2	

Specifications Quick Reference (itype_439)

Quick Specifications

- item

6L45/6L50/6L80/6L90 (MYB, MYC, MYD) - Automatic Transmission (Article 13686)

Non Standards

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6L45/6L50/6L80/6L90 (MYB, MYC, MYD) - Automatic Transmission (Article 13982)

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6L45/6L50/6L80/6L90 (MYB, MYC, MYD) - Automatic Transmission (Article 13677)

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6L45/6L50/6L80/6L90 (MYB, MYC, MYD) - Automatic Transmission (Article 13844)

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6L45/6L50/6L80/6L90 (MYB, MYC, MYD) - Automatic Transmission (Article 13719)

Non Standards

- Case Porosity Repair (13720)

6L45/6L50/6L80/6L90 (MYB, MYC, MYD) - Automatic Transmission (Article 13980)

Non Standards

- Transmission Replacement (13981)

Seal Reuse Caution (Article 13080)

Document ID: 2066116

Caution:

Do not reuse the seals. Replace with NEW seals. Reusing old seals may cause transmission damage.

6L45/6L50/6L80/6L90 (MYB, MYC, MYD) - Automatic Transmission (Article 14005)

Non Standards

- Transmission Fluid Pressure Switch Logic (14006)

6L45/6L50/6L80/6L90 (MYB, MYC, MYD) - Automatic Transmission (Article 13986)

Non Standards

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6L45/6L50/6L80/6L90 (MYB, MYC, MYD) - Automatic Transmission (Article 13992)

Non Standards

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- Transmission Internal Mode Switch Logic (14013)

6L45/6L50/6L80/6L90 (MYB, MYC, MYD) - Automatic Transmission (Article 13986)

Non Standards

- Adhesives, Fluids, Lubricants, and Sealers (Korea) (13990)

All New Technical Service Bulletins (itype_432)

Tsbs

- Information on Slight Vehicle Movement in Park at Start Up After Cold Soak (08-07-30-026J, 2026/05/11)
- Alternate Lift Procedure for 6T30, 6T35, 6T40, 6T45, and 6T50 Transmissions (24-NA-223, 2024/10/09)
- OEM and Remanufactured Engine and Automatic Transmission/Transaxle Identification (06-00-89-031J, 2025/08/05)

All Technical Service Bulletins (itype_100)

Tsbs

- Information on Slight Vehicle Movement in Park at Start Up After Cold Soak (08-07-30-026J, 2026/05/11)
- Diagnostic Tips for Reduced Acceleration at Low Speed and/or Transmission Slipping from a Launch, DTC P0751 Set (PI1344C, 2019/07/16)
- A/T - No Forward Engagement/Slipping (PI0488D, 2014/02/06)
- Information on Automatic Transmission Oil Cooler Flush and Flow Test (17-NA-066, 2023/07/21)
- No Reverse, No Second After Upper Valve Body Replacement (16-NA-130, 2023/03/02)
- A/T Controls - MIL ON/Multiple DTC's Stored in The TCM (PIP4653E, 2014/06/03)
- Alternate Lift Procedure for 6T30, 6T35, 6T40, 6T45, and 6T50 Transmissions (24-NA-223, 2024/10/09)
- Information on 6L50 (MYB), 6L80 (MYC) and 6L90 (MYD) Automatic Transmission Oil Filter and Seal Kit Part Number (23-NA-224, 2023/12/18)
- Information on 2-3 Upshift Slip or Flare (22-NA-185, 2022/09/28)
- Product Quality Center (PQC) Assembly Replacement Process — For Service Agents Not Required to Contact PQC Prior to Assembly Replacement (12-07-30-001E, 2015/03/26)
- Campaign - A/T 2-6 Clutch Pack Misbuilt (13332A, 2014/10/23)
- Automatic Transmission Shift and Engine Driveability Concerns and/or Malfunction Indicator Lamp (MIL) ON Due to Aftermarket Oil Bath Air Filter Use (04-07-30-013E, 2023/06/07)
- A/T - 2-3 or 3-2 Shift Clunk Noise Information (01-07-30-042H, 2014/01/14)
- OEM and Remanufactured Engine and Automatic Transmission/Transaxle Identification (06-00-89-031J, 2025/08/05)

Repair Tips (itype_110)

Tsbs

- A/T Controls - MIL ON/Multiple DTC's Stored in The TCM (PIP4653E, 2014/06/03)
- A/T - No Forward Engagement/Slipping (PI0488D, 2014/02/06)
- A/T - 2-3 or 3-2 Shift Clunk Noise Information (01-07-30-042H, 2014/01/14)

6L45/6L50/6L80/6L90 (MYB, MYC, MYD) - Automatic Transmission (Article 13717)

Non Standards

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- Control Solenoid Valve and Transmission Control Module Assembly Input Shaft Speed/Output Shaft Speed Input Test (13722)
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- Torque Converter Diagnosis (13837)
- Bushing and Mating Shaft Inspection (13718)
- Clutch Plate Diagnosis (13721)
- Fluid Leak Diagnosis (13804)

6L45/6L50/6L80/6L90 (MYB, MYC, MYD) - Automatic Transmission (Article 13833)

Non Standards

- Road Test (13834)

Control Solenoid Valve and Transmission Control Module Assembly Programming and Setup (6L45/6L50/6L80/6L90) (Article 10727)

Diagnostic Instructions

- Perform the Diagnostic System Check prior to using this diagnostic procedure: Diagnostic System Check - Vehicle
- Review the description of Strategy Based Diagnosis: Strategy Based Diagnosis
- Do NOT program a control module unless directed to by a service procedure or a service bulletin. If the control module is not properly configured with the correct calibration software, the control module will not control all of the vehicle features properly.
- Verify the programming tool is equipped with the latest software and is securely connected to the data link connector. If there is an interruption during programming, programming failure or control module damage may occur.
- Stable battery voltage is critical during programming. Any fluctuation, spiking, over voltage or loss of voltage will interrupt programming. When required, install a battery maintainer or power supply that provides a steady and stable voltage. Do not use a battery charger, as charging voltage will often fluctuate when connected to the vehicle. This may interrupt programming. If a battery maintainer is not available, connect a fully charged 12 V jumper or booster pack disconnected from the AC voltage supply.
- Turn Off or disable systems that may put a load on the vehicle's battery. For example, interior lights, daytime running lights, HVAC, and radio.
- During the programming procedure, follow the Service Programming System (SPS) prompts for the correct ignition switch position.
- Clear DTCs after programming is complete. Clearing powertrain DTCs will set the Inspection/Maintenance (I/M) system status indicators to No.

Programming an Existing or New Control Module

To program an existing or new control module, perform the following procedure:

- Ignition » On / Vehicle » In Service Mode
- Access SPS and follow the on-screen instructions for the control module:
- K20/K71 Engine and Transmission Control Modules
- K71 Transmission Control Module or Q8 Control Solenoid Valve Assembly
- Perform the following learn procedure: Reset Transmission Adapts

Unsuccessful Programming Recovery

- If programming is still not successful after the second programming attempt, check the following:
- For facilities using an internet firewall, ensure firewall settings are not blocking file downloads and/or require elevated rights.
- For United States and Canada GM dealers, the appropriate firewall settings can be found in the GM DEALER INFRASTRUCTURE & SECURITY GUIDELINES (DISG) section 2.d.vii.
- Verify the control module, data link connector and programming tool connections are secure and the tool software is up to date.
- If the programming is not successful

- Ignition/Vehicle » Off — For greater than 1 min
- If the programming is not successful » Replace the component: Q8 Control Solenoid Valve Assembly
- If the programming is successful
- All OK.

Setup for Component Replacement

The replacement of some components will require a setup procedure for complete repair.

If any of the following components have been replaced, use a scan tool to perform the appropriate function.

- Transmission replacement
- Any internal transmission repair
- Any speed sensor

Perform the following learn procedure: Reset Transmission Adapts

Repair Instructions

Perform the Diagnostic Repair Verification after completing the repair: Diagnostic Repair Verification

For control module replacement, programming, and setup refer to: Control Module References

6L45/6L50/6L80/6L90 (MYB, MYC, MYD) - Automatic Transmission (Article 13715)

Non Standards

- Reset Transmission Adapts (13832)
- Brake Pedal Position Sensor Learn (13716)

Rattle, Clunk, Pop or Shudder Noise from the Power Steering System (LFX, N41) (Article 13440)

Step Action Yes No

1 Did you review the Power Steering System Description and Operation and perform the necessary inspections? Go to Step 2 Go to Symptoms - Power Steering System

2 Verify that a rattle, clunk or shudder noise is present. Is a rattle, clunk or shudder noise present? Go to Step 3 System OK

3 Inspect the power steering hoses for proper routing and clearance. Is the routing or clearance of a power steering hose incorrect? Go to Step 11 Go to Step 4

4 Inspect the engine drive belt for cracking or excessive wear. Refer to Drive Belt Falls Off and Excessive Wear Diagnosis . Is the drive belt cracked or excessively worn? Go to Step 12 Go to Step 5

5 Inspect the power steering pump pulley for damage. Is the power steering pump pulley damaged? Go to Step 13 Go to Step 6

6 Inspect the power steering pump for the proper installation. Refer to Power Steering Pump Replacement . Is the power steering pump installation incorrect? Go to Step 14 Go to Step 7

7 Inspect the steering gear for the proper installation. Refer to Steering Gear Replacement . Is the steering gear installation incorrect? Go to Step 15 Go to Step 8

8 Inspect in the inner tie rods and the outer tie rods for looseness. Refer to Steering Linkage Inner Tie Rod Inspection and to Steering Linkage Outer Tie Rod Inspection . Are the inner tie rods or the outer tie rods loose? Go to Step 16 Go to Step 9

9 Inspect the front suspension. Refer to Noise Diagnosis - Front Suspension . Is the front suspension worn? Go to Step 17 Go to Step 10

10 Inspect the intermediate steering shaft. Is the intermediate steering shaft worn? Go to Step 18 Go to Step 3

11 Adjust or replace the hose that is causing the noise. Refer to the appropriate procedure: Fluid Cooler Outlet Hose Replacement Power Steering Fluid Reservoir Outlet Hose Replacement Power Steering Gear Inlet Pipe/Hose Replacement Power Steering Gear Outlet Pipe/Hose Replacement Did you complete the repair? Go to Step 19 —

12 Replace the drive belt. Refer to Drive Belt Replacement . Did you complete the repair? Go to Step 19 —

13 Replace the power steering pump pulley. Refer to Power Steering Pump Pulley Replacement . Did you complete the repair? Go to Step 19 —

14 Install the power steering pump correctly. Refer to Power Steering Pump Replacement . Did you complete the repair? Go to Step 19 —

15 Install the power steering gear correctly. Refer to Steering Gear Replacement . Did you complete the repair? Go to Step 19 —

16 Replace either the worn inner tie rod or the worn outer tie rod. Refer to Steering Linkage Inner Tie Rod

17 Inspect the front suspension. Refer to Noise Diagnosis - Front Suspension . Is the front suspension worn? Go to Step 17 Go to Step 10

18 Inspect the intermediate steering shaft. Is the intermediate steering shaft worn? Go to Step 18 Go to Step 3

19 —

20 —

Replacement or to Steering Linkage Outer Tie Rod Replacement . Did you complete the repair? Go to Step 19 —
17 Replace the worn front suspension component. Did you complete the repair? Go to Step 19 —
18 Replace the intermediate steering shaft. Refer to Intermediate Steering Shaft Replacement . Did you complete the repair? Go to Step 19 —
19 Operate the system in order to verify the repair. Did you correct the condition? System OK Go to Step 3

Rattle, Clunk, Pop or Shudder Noise from the Power Steering System (NV9) (Article 13442)

Step Action Yes No

1 Did you review the Power Steering System Description and Operation and perform the necessary inspections? Go to Step 2 Go to Symptoms - Steering Wheel and Column
2 Verify a rattle noise is present by driving the vehicle on a rough road. Verify a clunk noise is present by turning the steering wheel to the left and to the right several times with the key in the ON position. Is a rattle or a clunk noise present? Go to Step 3 System OK
3 Inspect the steering gear for the proper installation. Is the steering gear installation incorrect? Go to Step 6 Go to Step 4
4 Inspect the intermediate steering shaft. Is the intermediate steering shaft worn? Go to Step 8 Go to Step 5
5 Inspect the front suspension. Refer to Noise Diagnosis - Front Suspension . Is the front suspension worn? Go to Step 7 Go to Step 3
6 Install the steering gear correctly. Refer to Steering Gear Replacement . Did you complete the repair? Go to Step 9 —
7 Replace the worn front suspension component that is causing the noise. Did you complete the repair? Go to Step 9 —
8 Replace the intermediate steering shaft. Refer to Intermediate Steering Shaft Replacement . Did you complete the repair? Go to Step 9 —
9 Operate the system in order to verify the repair. Did you correct the condition? System OK Go to Step 3

6L45/6L50/6L80/6L90 (MYB, MYC, MYD) - Automatic Transmission (Article 13709)

Non Standards

- Symptoms - Automatic Transmission (13836)
- Flex Plate/Torque Converter Vibration Test (13803)
- Vibration (13842)
- Noise and Vibration Analysis (13825)
- Whine/Growl Noise That Changes w/ Engine Speed (13843)
- Noise in First or Reverse Gear (13827)
- Noise in First, Second, Third, Fourth, Fifth, or Reverse Gear (13829)
- Noise in First, Second, Sixth, or Reverse Gear (13828)
- Noise in Second or Sixth Gear (13831)
- Noise During 3-4 or 4-3 Shifts (13826)
- Noise in Fourth, Fifth, or Sixth Gear (13830)
- Engine Coolant/Water in Transmission (13802)
- Transmission Overheats (13841)
- Automatic Transmission Fluid Leaks (13710)
- Shift Indicator Indicates Wrong Gear Selection (13835)
- No Park or Drive (13818)
- Harsh Garage Shift (13806)
- No Drive in All Ranges (13813)
- No First Gear (13815)
- No First and Reverse Gears (13814)
- Harsh, Soft, Delayed or Slipping First or Reverse Gear (13809)
- No First, Second, Third, and Fourth Gear (13816)
- Harsh, Soft, Delayed or Slipping 1-2-3-4 Shift (13807)
- No Second and Sixth Gear (13820)
- Harsh, Soft, Delayed or Slipping Second or Sixth Gear (13810)
- No Third, Fifth, and Reverse Gear (13821)
- Harsh, Soft, Delayed or Slipping Third, Fifth, or Reverse Gear (13811)
- No Fourth, Fifth, and Sixth Gear (13817)
- Harsh, Soft, Delayed or Slipping 4-5-6 Shift (13808)
- No Torque Converter Clutch Apply (13822)
- No Torque Converter Clutch Release (13823)

- No Reverse Gear (13819)
- Fluid Pressure High or Low (13805)
- No Torque Converter Clutch Slip w/ Torque Converter Clutch Engaged (13824)

6L45/6L50/6L80/6L90 (MYB, MYC, MYD) - Automatic Transmission (Article 13984)

Non Standards

- Special Tools (13985)

Poor performance (itype_162)

Tsbs

- Information on 2-3 Upshift Slip or Flare (22-NA-185, 2022/09/28)
- No Reverse, No Second After Upper Valve Body Replacement (16-NA-130, 2023/03/02)

Slipping (itype_168)

Tsbs

- Diagnostic Tips for Reduced Acceleration at Low Speed and/or Transmission Slipping from a Launch, DTC P0751 Set (PI1344C, 2019/07/16)

OEM Policies and Procedures (itype_120)

Tsbs

- Information on Slight Vehicle Movement in Park at Start Up After Cold Soak (08-07-30-026J, 2026/05/11)
- Product Quality Center (PQC) Assembly Replacement Process — For Service Agents Not Required to Contact PQC Prior to Assembly Replacement (12-07-30-001E, 2015/03/26)
- OEM and Remanufactured Engine and Automatic Transmission/Transaxle Identification (06-00-89-031J, 2025/08/05)

Service Campaigns (itype_108)

Tsbs

- Campaign - A/T 2-6 Clutch Pack Misbuilt (13332A, 2014/10/23)