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2009 CHEVROLET Matiz / Spark (M200) OEM Service and Repair Workshop Manual

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- Transmission Does Not Shift into One Gear
- Transmission Locked in One Gear
- Transmission Clunk on Acceleration or Deceleration
- Transmission Fluid Leak Diagnosis

Step	Action	Yes	No
4	Inspect the transmission to engine fasteners for being loose or missing. Refer to Fastener Specifications. Did you find and repair the condition?	Go to Step 7	Go to Step 5
5	Inspect the driveline for causing the clunk. Refer to Symptoms - Propeller Shaft. Did you find and repair the condition?	Go to Step 7	Go to Step 6
6	1. Remove the transmission. Refer to Transmission Replacement. 2. Disassemble the transmission. Refer to Transmission Disassemble. 3. Inspect the following transmission components that maybe causing the clunk: • Faulty mainshaft bearings • Faulty countershaft bearings • Worn speed gear teeth • Worn countershaft gear teeth • Worn synchronizer sleeve to hub • Worn thrust washers and thrust surfaces on the speed gears or mainshaft Did you find and repair the condition?	Go to Step 7	Go to Diagnostic Aids
7	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 1

Step	Action	Yes	No
1	Did you review the Symptoms - Manual Transmission and perform the necessary inspections?	Go to Step 2	Go to Symptoms - Manual Transmission
2	Inspect the clutch system for slipping. Refer to Clutch Slipping. Is the clutch operating properly?	Go to Step 3	Go to Clutch Assembly Replacement
3	1. Perform a static shift test on the transmission. 2. Test for the following conditions: • Blockage preventing full shift lever movement • Excessive movement in the shift lever • Binding in the shift lever • Detent plungers or shift rails binding • Synchronizer sleeve moving on the hub and pressure pieces • Shift linkage binding • Shift linkage proper adjustment Were you able to shift into the gear position with the concern?	Go to Step 5	Go to Step 4
4	Remove the transmission control lever boot. Refer to Transmission Control Lever Boot Replacement. Inspect for the following: • Loose mounting • Foreign debris Did you find and repair the condition?	Go to Step 8	Go to Step 5
5	1. Perform a dynamic shift test on the transmission. 2. Test for the following conditions: • Detent plungers or shift rails binding • Synchronizer sleeve binding • Synchronizer sleeve engaging on the speed gear selector teeth	Go to Step 7	Go to Step 6

YOUR CURRENT VEHICLE

Transmission Fluid Leak Diagnosis

Transmission Fluid Leak Diagnosis

Diagnostic Aids

Using the incorrect type of transmission fluid may affect the sealing ability of the seals. Ensure the use of the correct type of transmission fluid. The incorrect type of sealer may not be compatible with the transmission fluid or may not have the correct characteristics for sealing the affected components. Ensure the use of the correct type of sealers. Refer to Adhesives, Fluids, Lubricants, and Sealers.

Test Description

The number below refers to the step number on the diagnostic table.

5. Use an approved method to clean the transmission to ensure the leak location is correctly identified. If using a powder method or dye method, ensure the products are compatible with the transmission fluid.

Transmission Fluid Leak Diagnosis

Step	Action	Yes	No
DEFINITION: Visible sign of the transmission fluid leaking from the transmission.			
1	Did you review the Symptoms - Manual Transmission and perform the necessary inspections?	Go to Step 2	Go to Symptoms - Manual Transmission
2	1. Inspect for the transmission fluid level higher than the recommended level. Refer to Transmission Fluid Drain and Fill. 2. Adjust the transmission level if incorrect. Was the transmission fluid level too high?	Go to Step 18	Go to Step 3