

Name _____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

1) If a transfer case is found to be defective internally, what are the repair options?

2) What type of scan tool should be used to diagnose transfer case problems?

3) What are the eight steps of the diagnostic procedure?

4) What type of lubricant does a transfer case require?

5) Why is the vehicle free to move if the transfer case is placed into neutral but the automatic transmission is in the park position?

Answer Key

Testname: MDA8_SHORT16

- 1) After the transfer case fault has been diagnosed and the fault is found to be inside the unit itself, the customer and repair shop have the following options:
1. Repair the unit and replace all needed parts.
 2. Replace the unit with a used assembly from a wrecking (salvage) yard.
 3. Replace the assembly with a remanufactured unit.
 4. Replace with a new assembly.

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- 2) A factory or an enhanced aftermarket scan tool can be used to diagnose transfer case problem.

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- 3) The process of diagnosing faults or concerns in four-wheel drives and transfer cases involves the following eight steps.

STEP 1 Verify the customer concern.

STEP 2 Perform a visual inspection.

STEP 3 Check for any stored diagnostic trouble codes (DTCs) and technical service bulletins (TSBs).

STEP 4 Check scan tool data for sensor values and bidirectional control operation (if available). STEP 5 Check electrical switches and actuators using a digital multi-meter.

STEP 6 Follow service information pinpoint tests to determine the root cause.

STEP 7 Perform the needed repair.

STEP 8 Verify the repair.

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- 4) The fluid used in transfer cases can include:

- Automatic transmission fluid (ATF)—check service information for the exact type of ATF to use. ▪ SAE 80W-90 gear oil—check service information for the exact viscosity and API rating required.
- Special specific transfer case fluid.

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- 5) Placing a transfer case into neutral means that the vehicle is able to move even though the transmission has been placed in "Park". There is nothing to lock the drivetrain when the transfer case is in neutral.

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