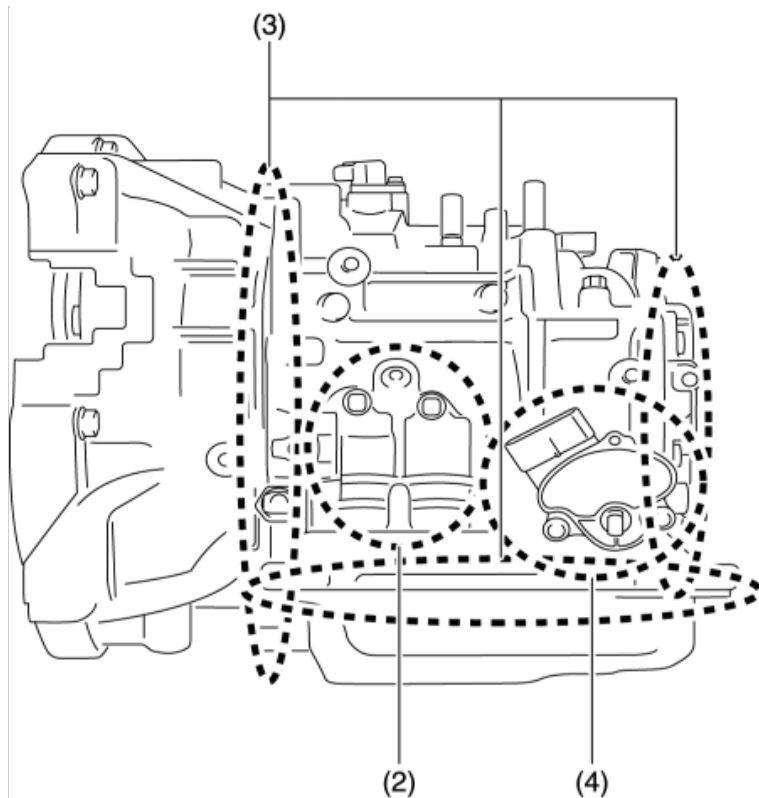


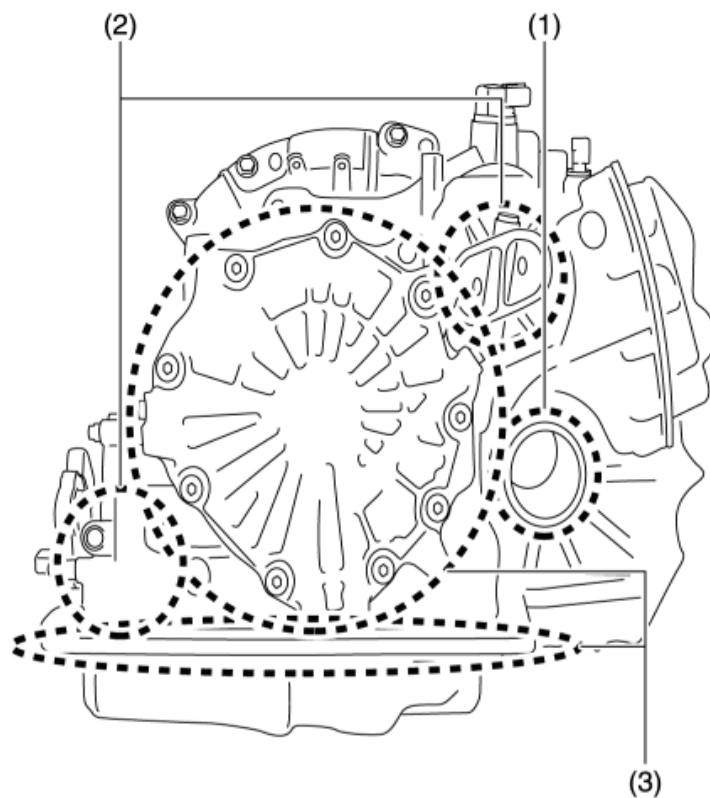
2012 - Mazda6 - Transmission/ Transaxle

NO.32 ATF SEEPING FROM AUTOMATIC TRANSAXLE [FS5A-EL]

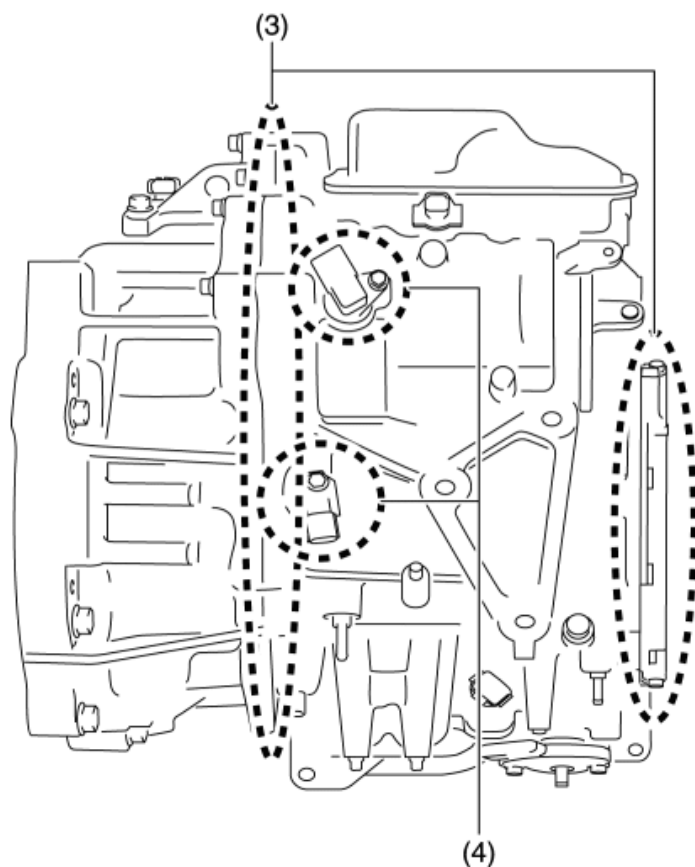
32	ATF seeping from automatic transaxle
DESCRIPTION	• ATF is seeping from the automatic transaxle case. • Foreign matter mixed with ATF is in the automatic transaxle case.
POSSIBLE CAUSE	NOTE: • ATF seeping radiates from ATF leak source. • Identify the type of seeping oil referring to "SERVICE CAUTIONS, Oil Leakage Inspection" in the general information. • To prevent misdiagnosis, remove any grease or dirt from the seep location and verify the location of the seeping after driving the vehicle. • ATF leaking from oil seal (1) ▪ Oil seal lip burning ▪ Oil seal lip wear due to foreign matter adhering ▪ Oil seal damage, and wear in contact area (to shaft) due to shaft runout • ATF leaking from transaxle case surface (2) ▪ There are pin holes in the transaxle case (when cast). • ATF leaking from silicone sealant (3) ▪ Sealant peeling and burning • ATF leaking from O-ring (4) ▪ O-ring burning ▪ Looseness in part installation ▪ Incorrect installation (O-ring is not seated to installation surface correctly.) • ATF leaking from washer (4) ▪ Looseness in part installation ▪ Incorrect installation (Washer is not seated to installation surface correctly.) • ATF malfunction (Leaking from breather) ▪ Incorrect installation (Washer is not seated to installation surface correctly.) ▪ Water penetration into ATF ▪ ATF deterioration (Anti-foaming performance decreases and liquid level increases.)



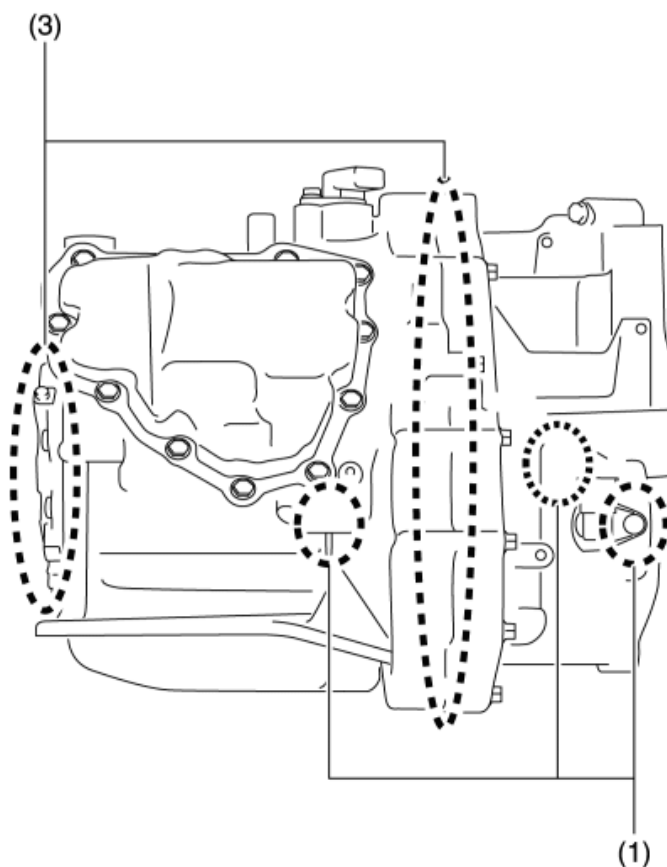
(TRANSAXLE FRONT)



(TRANSAXLE LEFT SIDE)



(TRANSAXLE TOP)



(TRANSAXLE REAR)

Diagnostic procedure

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STEP	INSPECTION	ACTION	
1	INSPECT ATF FOR MALFUNCTION - Inspect the ATF for the following: (See AUTOMATIC TRANSAXLE FLUID (ATF) INSPECTION [FS5A-EL] .) - ATF condition - ATF level - Is the ATF normal?	Yes	Go to the next step.
		No	Repair or replace the ATF level. (See AUTOMATIC TRANSAXLE FLUID (ATF) REPLACEMENT [FS5A-EL] .) NOTE: If the ATF level is less than the specified value, add ATF and go to the next step.
2	VERIFY IF ATF SEEPING CAUSE IS FROM O-RING - Is the ATF seeping location in the following part installation areas? - VSS - Input/turbine speed sensor - Oil filler tube - End cover - Parking rod lever component	Yes	Go to the next step.
		No	Go to Step 4.
3	INSPECT PART INSTALLATION CONDITION FOR MALFUNCTION - Verify the part installation condition. - Is there any installation bolt loosening or incorrect installation (Bolt is not seated to installation surface correctly)?	Yes	Installation bolt looseness: - Tighten the bolt to the specified tightening torque. Incorrect installation: - Replace the O-ring and install the parts correctly. (See Automatic Transaxle Workshop Manual FS5A-EL.)
		No	Replace the O-ring. (See Automatic Transaxle Workshop Manual FS5A-EL.)
4	VERIFY IF ATF SEEPING CAUSE IS FROM WASHER - Is the ATF seeping location in the following part installation areas? - Oil pressure switch - Connector pipe - Connector bolt	Yes	Go to the next step.
		No	Go to Step 7.
5	INSPECT PART INSTALLATION CONDITION FOR MALFUNCTION - Verify the part installation condition. - Is there any installation bolt loosening or incorrect installation (Bolt is not seated to installation surface correctly)?	Yes	Installation bolt looseness: - Tighten the bolt to the specified tightening torque. Incorrect installation: - Replace the washer and install the parts correctly. (See Automatic Transaxle

		Workshop Manual FS5A-EL.)
		No Replace the washer. (See Automatic Transaxle Workshop Manual FS5A-EL.)
6	VERIFY IF ATF SEEPING CAUSE IS FROM OIL SEAL Is the ATF seeping location in the drive shaft oil seal?	Yes Inspect the drive shaft (runout, damage on contact surfaces of drive shaft and oil seal). Repair the malfunctioning location, and then replace the oil seal. (See OIL SEAL REPLACEMENT [FS5A-EL] .) (See Automatic Transaxle Workshop Manual FS5A-EL.)
		No Go to the next step.
7	VERIFY IF ATF SEEPING CAUSE IS FROM SILICONE SEALANT - Is the ATF seeping location in the following part installation areas? - Oil pan - End cover - Mating surfaces of transaxle case and converter housing	Yes Verify that there is no ATF seeping from the transaxle case around the seepage location. - If leakage from the transaxle case is verified, replace the transaxle case. (See Automatic Transaxle Workshop Manual FS5A-EL.) - If leakage from the transaxle case is not verified, re-apply the silicone sealant. (See CONTROL VALVE BODY REMOVAL/ INSTALLATION [FS5A-EL] .) (See Automatic Transaxle Workshop Manual FS5A-EL.)
		No Go to the next step.
8	VERIFY IF ATF SEEPING CAUSE IS FROM CONVERTER HOUSING OR ENGINE Is the ATF seeping location in mating surfaces of the converter housing and engine?	Yes Inspect the following: - Oil seal (torque converter) - O-ring (oil pump) Repair the malfunctioning location. (See Automatic Transaxle Workshop Manual FS5A-EL.)
		No Inspect the transaxle case for fissures or pin holes. If there is a malfunction, replace the transaxle case. (See Automatic Transaxle Workshop Manual FS5A-EL.)
9	- Verify the test results. - If normal, return to the diagnostic index to service any additional symptoms.	

- If the malfunction remains, inspect the related Service Information and perform repair or diagnosis.
 - If the vehicle is repaired, troubleshooting is completed.
 - If the vehicle is not repaired or additional diagnostic information is not available, replace the TCM.

(See [TCM REMOVAL/ INSTALLATION \[FS5A-EL\]](#) .)

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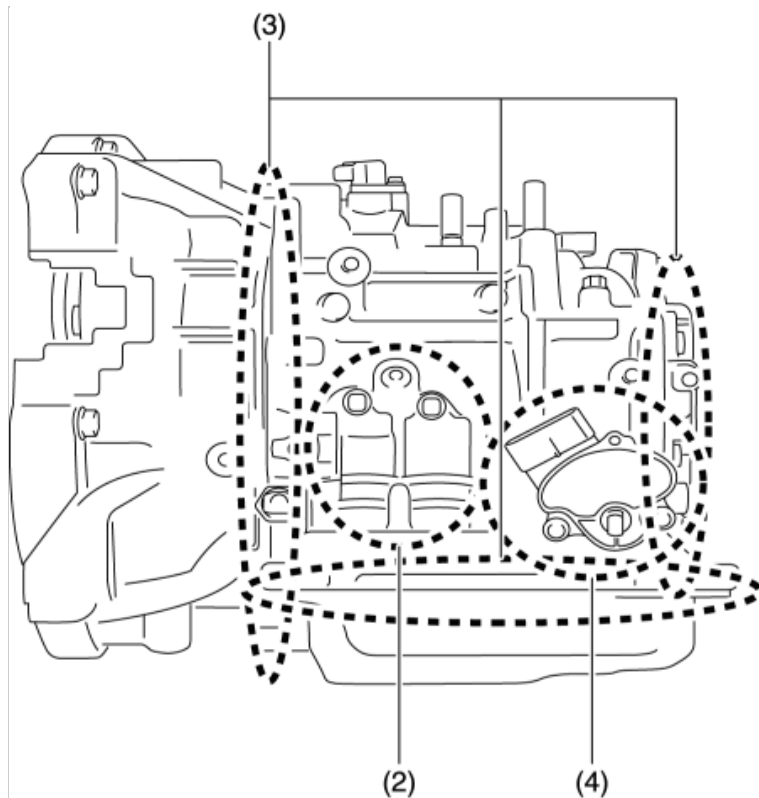
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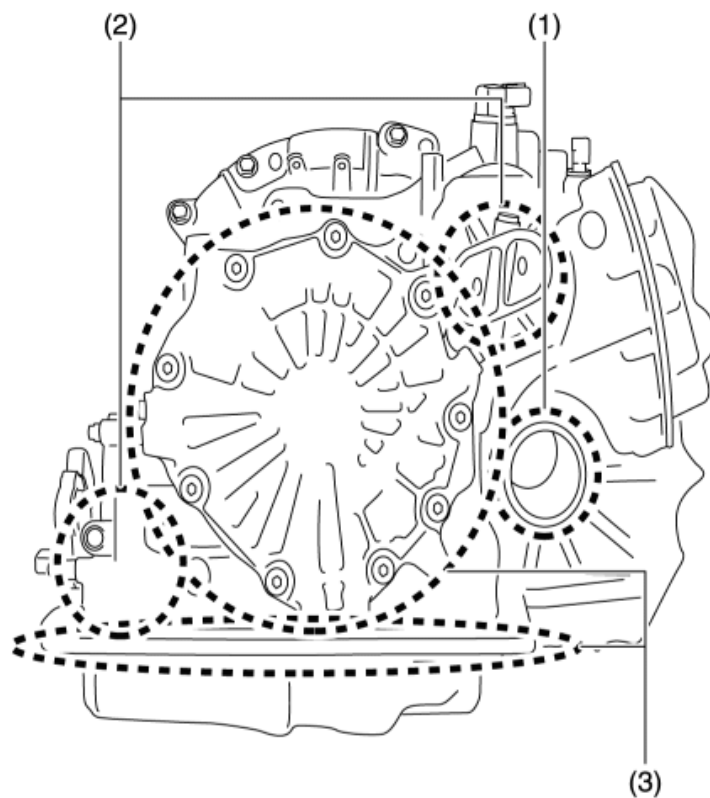
2012 - Mazda6 - Transmission/ Transaxle

NO.32 ATF SEEPING FROM AUTOMATIC TRANSAXLE [FS5A-EL]

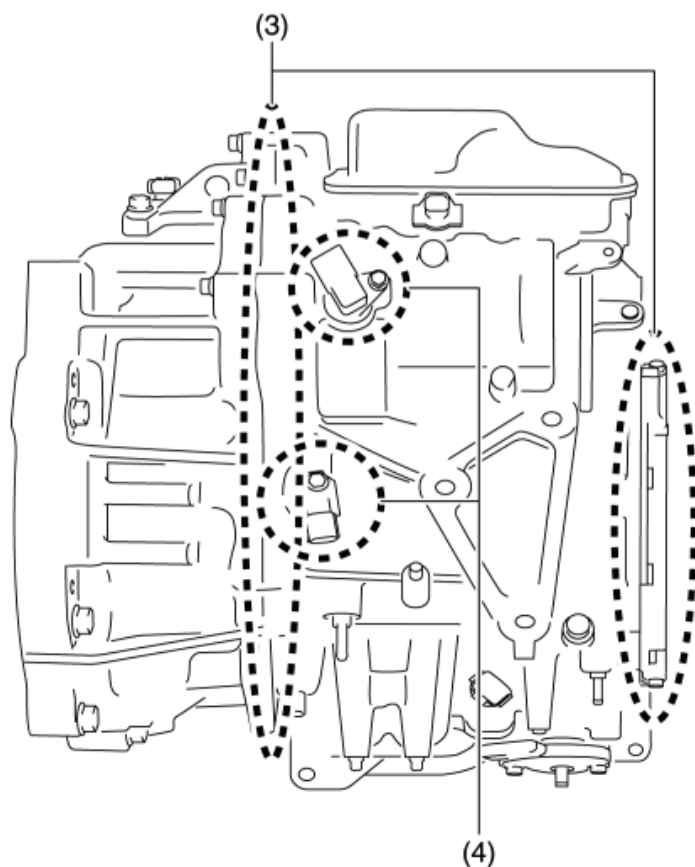
32	ATF seeping from automatic transaxle
DESCRIPTION	• ATF is seeping from the automatic transaxle case. • Foreign matter mixed with ATF is in the automatic transaxle case.
POSSIBLE CAUSE	NOTE: • ATF seeping radiates from ATF leak source. • Identify the type of seeping oil referring to "SERVICE CAUTIONS, Oil Leakage Inspection" in the general information. • To prevent misdiagnosis, remove any grease or dirt from the seep location and verify the location of the seeping after driving the vehicle. • ATF leaking from oil seal (1) ▪ Oil seal lip burning ▪ Oil seal lip wear due to foreign matter adhering ▪ Oil seal damage, and wear in contact area (to shaft) due to shaft runout • ATF leaking from transaxle case surface (2) ▪ There are pin holes in the transaxle case (when cast). • ATF leaking from silicone sealant (3) ▪ Sealant peeling and burning • ATF leaking from O-ring (4) ▪ O-ring burning ▪ Looseness in part installation ▪ Incorrect installation (O-ring is not seated to installation surface correctly.) • ATF leaking from washer (4) ▪ Looseness in part installation ▪ Incorrect installation (Washer is not seated to installation surface correctly.) • ATF malfunction (Leaking from breather) ▪ Incorrect installation (Washer is not seated to installation surface correctly.) ▪ Water penetration into ATF ▪ ATF deterioration (Anti-foaming performance decreases and liquid level increases.)



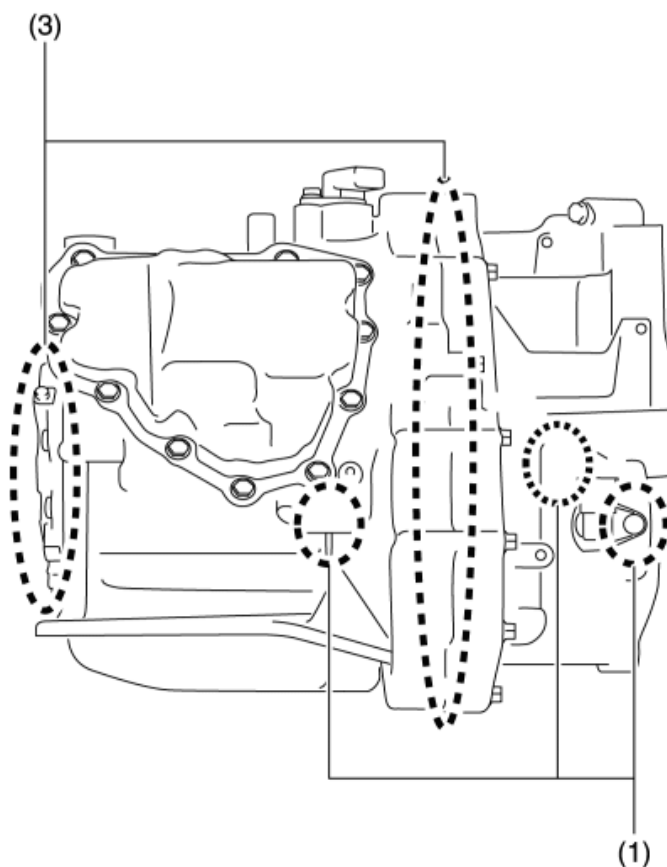
(TRANSAXLE FRONT)



(TRANSAXLE LEFT SIDE)



(TRANSAXLE TOP)



(TRANSAXLE REAR)

Diagnostic procedure

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STEP	INSPECTION	ACTION	
1	INSPECT ATF FOR MALFUNCTION - Inspect the ATF for the following: (See AUTOMATIC TRANSAXLE FLUID (ATF) INSPECTION [FS5A-EL] .) - ATF condition - ATF level - Is the ATF normal?	Yes	Go to the next step.
		No	Repair or replace the ATF level. (See AUTOMATIC TRANSAXLE FLUID (ATF) REPLACEMENT [FS5A-EL] .) NOTE: If the ATF level is less than the specified value, add ATF and go to the next step.
2	VERIFY IF ATF SEEPING CAUSE IS FROM O-RING - Is the ATF seeping location in the following part installation areas? - VSS - Input/turbine speed sensor - Oil filler tube - End cover - Parking rod lever component	Yes	Go to the next step.
		No	Go to Step 4.
3	INSPECT PART INSTALLATION CONDITION FOR MALFUNCTION - Verify the part installation condition. - Is there any installation bolt loosening or incorrect installation (Bolt is not seated to installation surface correctly)?	Yes	Installation bolt looseness: - Tighten the bolt to the specified tightening torque. Incorrect installation: - Replace the O-ring and install the parts correctly. (See Automatic Transaxle Workshop Manual FS5A-EL.)
		No	Replace the O-ring. (See Automatic Transaxle Workshop Manual FS5A-EL.)
4	VERIFY IF ATF SEEPING CAUSE IS FROM WASHER - Is the ATF seeping location in the following part installation areas? - Oil pressure switch - Connector pipe - Connector bolt	Yes	Go to the next step.
		No	Go to Step 7.
5	INSPECT PART INSTALLATION CONDITION FOR MALFUNCTION - Verify the part installation condition. - Is there any installation bolt loosening or incorrect installation (Bolt is not seated to installation surface correctly)?	Yes	Installation bolt looseness: - Tighten the bolt to the specified tightening torque. Incorrect installation: - Replace the washer and install the parts correctly. (See Automatic Transaxle

		Workshop Manual FS5A-EL.)
		No Replace the washer. (See Automatic Transaxle Workshop Manual FS5A-EL.)
6	VERIFY IF ATF SEEPING CAUSE IS FROM OIL SEAL Is the ATF seeping location in the drive shaft oil seal?	Yes Inspect the drive shaft (runout, damage on contact surfaces of drive shaft and oil seal). Repair the malfunctioning location, and then replace the oil seal. (See OIL SEAL REPLACEMENT [FS5A-EL] .) (See Automatic Transaxle Workshop Manual FS5A-EL.)
		No Go to the next step.
7	VERIFY IF ATF SEEPING CAUSE IS FROM SILICONE SEALANT - Is the ATF seeping location in the following part installation areas? - Oil pan - End cover - Mating surfaces of transaxle case and converter housing	Yes Verify that there is no ATF seeping from the transaxle case around the seepage location. - If leakage from the transaxle case is verified, replace the transaxle case. (See Automatic Transaxle Workshop Manual FS5A-EL.) - If leakage from the transaxle case is not verified, re-apply the silicone sealant. (See CONTROL VALVE BODY REMOVAL/ INSTALLATION [FS5A-EL] .) (See Automatic Transaxle Workshop Manual FS5A-EL.)
		No Go to the next step.
8	VERIFY IF ATF SEEPING CAUSE IS FROM CONVERTER HOUSING OR ENGINE Is the ATF seeping location in mating surfaces of the converter housing and engine?	Yes Inspect the following: - Oil seal (torque converter) - O-ring (oil pump) Repair the malfunctioning location. (See Automatic Transaxle Workshop Manual FS5A-EL.)
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(See [TCM REMOVAL/ INSTALLATION \[FS5A-EL\]](#) .)

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