

## HYUNDAI/KIA A8LR1/A8TR1 PRELIMINARY INFORMATION

### ATF LEVEL INSPECTION AND FLUID FILL PROCEDURE

1. Remove the plastic shield under the transmission.
2. If the ATF has been completely drained, go to Step 3.  
To check the ATF level, go to Step 4.
3. If the ATF has been completely drained:
  - Move the shift lever to "N" (engine off).
  - Lift the vehicle on a hoist.
  - Remove the fill plug (figure 29).
  - Use a fluid pump or suction gun to add fluid through the fill plug.
  - Engine off. Add approximately 4 quarts of fluid.
  - Start the engine. Add approximately 4-5 additional quarts of fluid
  - Reinstall the fill plug. Go to Step 4.
4. Attach a scan tool to view Transmission Fluid Temperature.
5. Drive the vehicle until the ATF is at the low end of the range of 122~140°F (50~60°C).
6. Move the shift lever to "N" and leave the engine idling. Raise the vehicle on a hoist.
7. Remove the check level plug (figure 29).
8. Remove the fill plug and add fluid until it flows out of the overflow plug in a thin steady oil stream.
9. Reinstall the check level plug. Torque: 5~8 lb-ft.
10. Reinstall the fill plug. Torque: 25~32 lb-ft.



**Fluid: SP-IV-RR ATF**  
**Part Number 00232-19052**  
**10.67 qt (10.1L) Full Fill**

### TCM LEARN PROCEDURE

TCM learning is required when shift shock has occurred or parts related with the transaxle are replaced as well as when the transmission has been replaced, or the TCM has been replaced or reprogrammed.

TCM learning condition begins with transmission fluid temperature being between 30 - 95°C (86 - 203°F).

#### **Garage Shift TCM Relearn:**

With brake applied and 0 % throttle opening, shift to N and hold for 3 seconds, then D for 3 seconds, then to R for 3 seconds and repeat four times or more until engagements are acceptable.

#### **Driving learning the TCM:**

1. Drive the vehicle through all gears in D range. Drive from stop to 1st to 2nd to 3rd to 4th to 5th to 6th to 7th to 8th with keeping fixed throttle open.
2. Down shift from 8th to 7th, 7th to 6th, 6th to 5th, 5th to 4th, 4th to 3rd, 3rd to 2nd, 2nd to 1st.
3. Repeat the above driving pattern four times or more. Up-shift throttle open : 15 - 30%

**FLUID DRAIN, LEVEL AND FILL PLUGS**

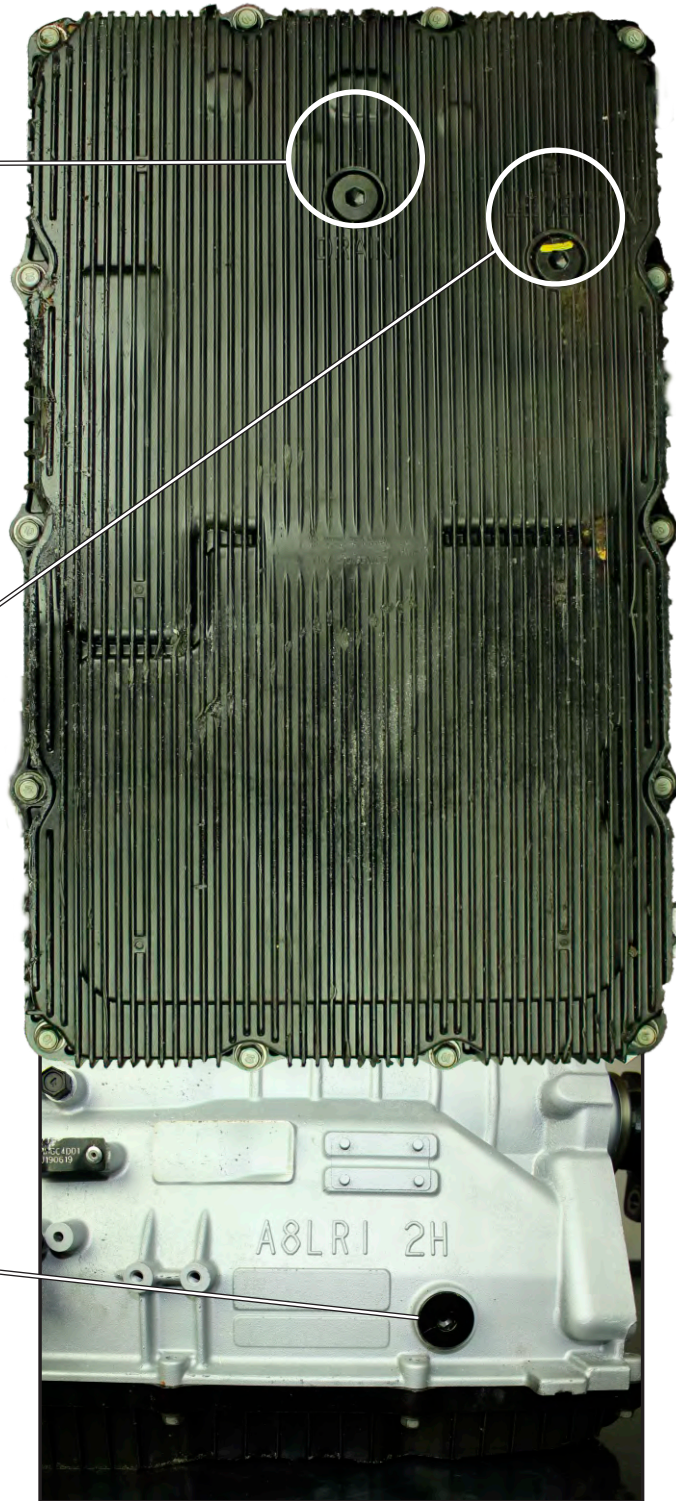
***DRAIN PLUG***



***LEVEL PLUG***



***FILL PLUG***



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Figure 29