



## Answer Key

Testname: INTRO\_SHORT39

1) The torque converter is located between the engine and the transmission/transaxle and performs the following functions:

1. Transmits and multiplies engine torque.
2. Acts as a clutch between the engine and the transmission/transaxle.
3. Allows slippage, which makes it possible for the transmission to be engaged in gear even when the vehicle and wheels are stopped.

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2) STEP 1 Start the engine, except for Honda/Acura vehicles which specify that the ATF be checked with the engine off.

STEP 2 Be sure that the ATF is at normal operating temperature. This may require that the vehicle be driven for several miles.

STEP 3 Park the vehicle on a level surface. Start the engine and shift the transmission through each gear, allowing engagement in each gear, then place back into the park position.

STEP 4 Clean the area around the dipstick to help prevent dirt from falling into the filler tube when the dipstick is removed.

STEP 5 Remove the dipstick and wipe it off with a shop cloth.

STEP 6 Reinsert the dipstick and then remove it again. Check the level. The “add” mark indicates that the level is a half quart (liter) low.

STEP 7 Insert the dipstick into the transmission/transaxle and remove. Allow a few drops to fall onto a paper towel. Then take the end of the dipstick and place it into a container of new ATF and allow the same number of drips to fall onto another section of the paper towel. Allow to sit for ten minutes.

- If the fluid expands to the same size as the new fluid, then it has maintained its lubricity and viscosity.
- If the fluid fails to expand to the same diameter as the new fluid, this means that the fluid has lost some of its lubricity and has increased in viscosity. A fluid change would then be indicated.

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3) A simple planetary gear set consists of three primary components.

- Sun gear
- Planet carrier (including planet pinion gears)
- Ring (annulus) gear

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4) The shift modes include:

Park; Reverse; Neutral; Overdrive (OD); Drive (D); Third(3); second (2); and First (1 or Low)

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