

CHASSIS INSPECTION

MA00D-02

1. INSPECT STEERING LINKAGE

- Check the steering wheel freeplay (See page [SR-9](#)).
- Check the steering linkage for looseness or damage.

Check that:

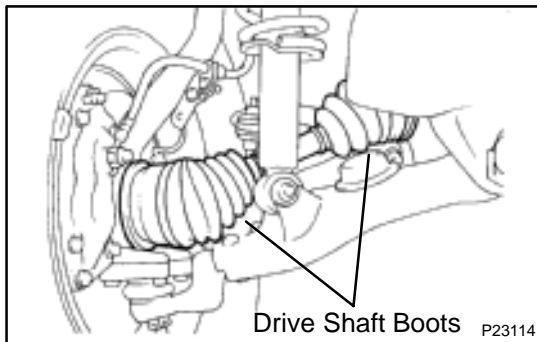
- Tie rod ends do not have excessive play.
- Dust seals and boots are not damaged.
- Boot clamps are not loose.

2. INSPECT STEERING WHEEL PAD AND SPIRAL CABLE (See page [RS-13](#))

3. INSPECT FRONT PASSENGER AIRBAG ASSEMBLY (See page [RS-27](#))

4. INSPECT AIRBAG SENSOR ASSEMBLY (See page [RS-40](#))

5. INSPECT WIRE HARNESS AND CONNECTOR (See page [RS-50](#))



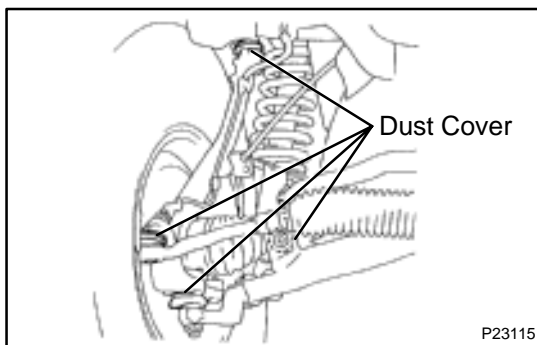
6. INSPECT STEERING GEAR HOUSING

Check the steering gear housing for oil leaks.
If leakage is found, check for cause and repair.

7. 4WD:

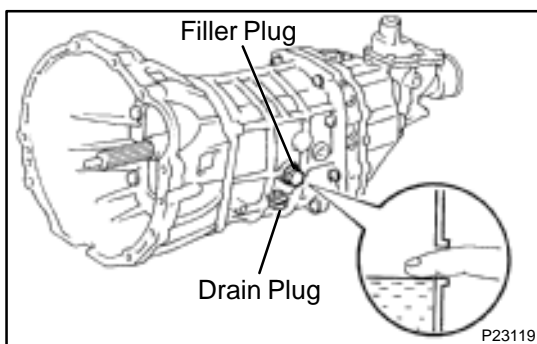
INSPECT DRIVE SHAFT BOOTS

Inspect the drive shaft boots for clamp looseness, grease leakage or damage.



8. INSPECT BALL JOINTS AND DUST COVERS

- Inspect the ball joints for excessive looseness (See page [SA-3](#)).
- Inspect the dust cover for damage.



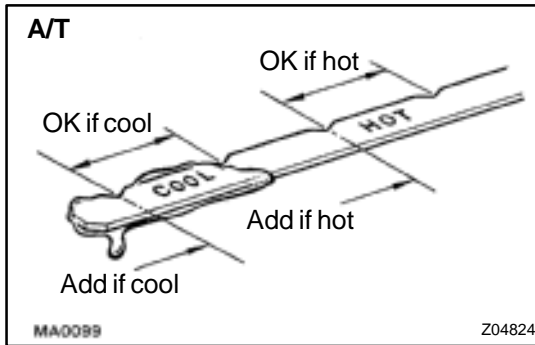
9. 2WD:

CHECK OIL LEVEL IN MANUAL TRANSMISSION, AUTOMATIC TRANSMISSION AND DIFFERENTIAL

- Manual transmission:

Remove the filler plug and feel inside the hole with your finger. Check that the oil comes to within 5 mm (0.20 in.) of the bottom edge of the hole. If the level is low, add oil until it begins to run out of the filler hole.

W59 Transmission oil (M/T): See page [MT-4](#)

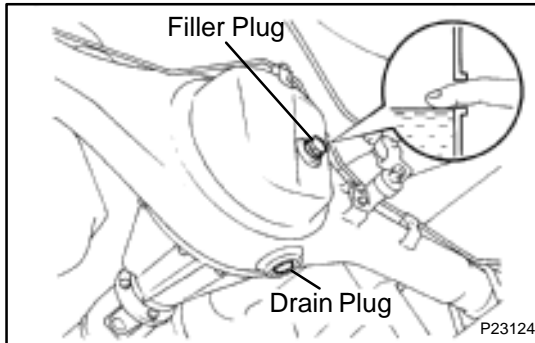


- (b) Automatic transmission:
Check that the fluid level is in the "HOT" range at the normal operating temperature (70 – 80°C or 158 – 176°F) and add as necessary.

NOTICE:

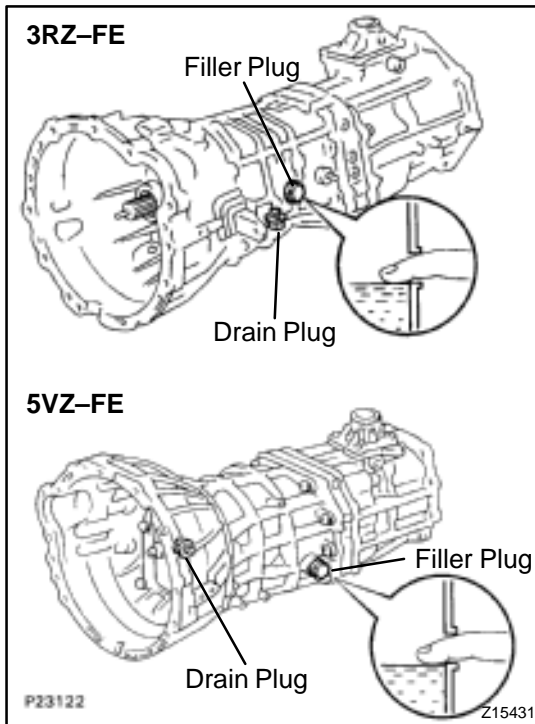
Do not overfill.

A43D Transmission fluid (A/T): See page AT-1



- (c) Differential:
Remove the filler plug and feel inside the hole with your finger. Check that the oil comes to within 5 mm (0.20 in.) of the bottom edge of the hole. If the level is low, add oil until it begins to run out of the filler hole.

Differential oil: See page SA-49



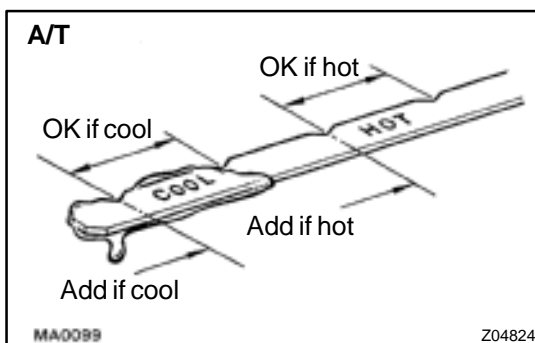
10. 4WD:

CHECK OIL LEVEL IN MANUAL TRANSMISSION, AUTOMATIC TRANSMISSION, TRANSFER AND DIFFERENTIAL

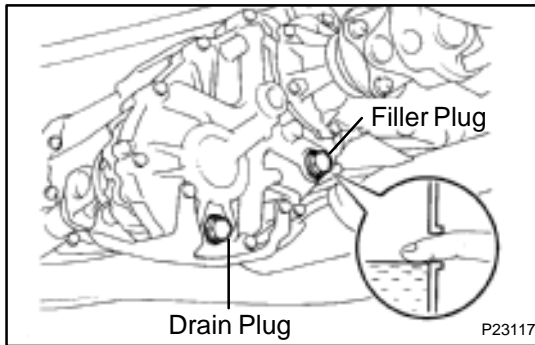
- (a) Manual transmission:
Remove the filler plug and feel inside the hole with your finger. Check that the oil comes to within 5 mm (0.20 in.) of the bottom edge of the hole. If the level is low, add oil until it begins to run out of the filler hole.

W59 Transmission oil (M/T): See page MT-1

R150F Transmission oil (M/T): See page MT-7

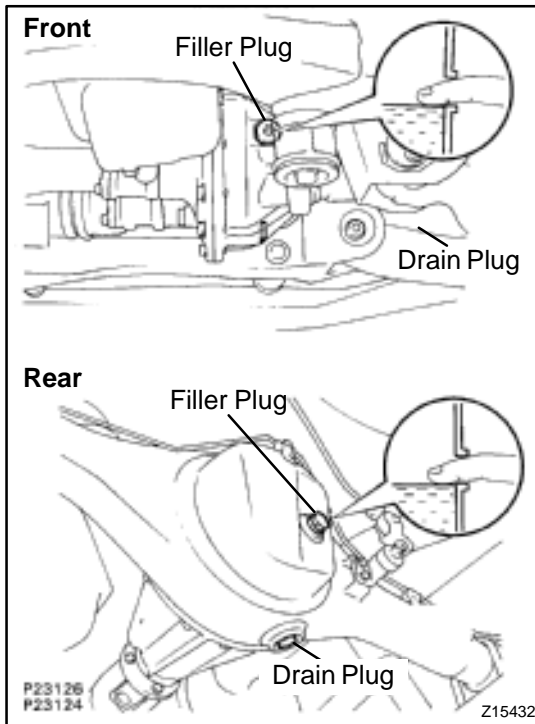


- (b) Automatic transmission:
Check that the fluid level is in the "HOT" range at the normal operating temperature (70 – 80°C or 158 – 176°F) and add as necessary.



- (c) **Transfer:**
Remove the filler plug and feel inside the hole with your finger. Check that the oil comes to within 5 mm (0.20 in.) of the bottom edge of the hole. If the level is low, add oil until it begins to run out of the filler hole.

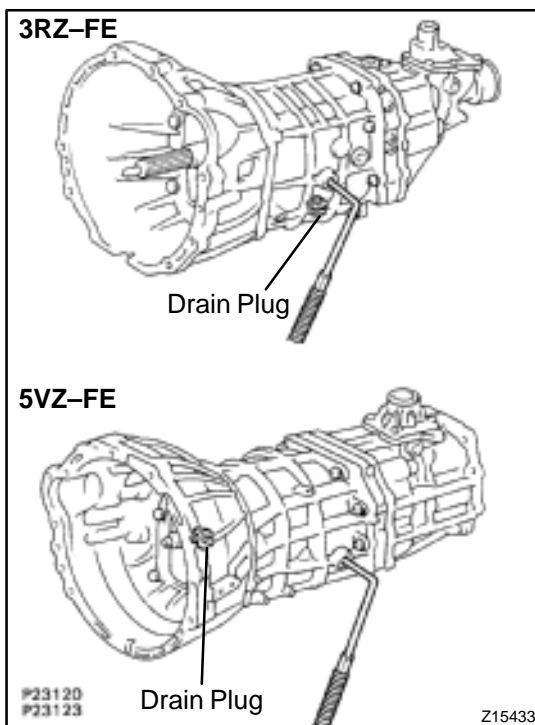
Transfer oil: See page [TR-1](#)



- (d) **Differential:**
Remove the filler plug and feel inside the hole with your finger. Check that the oil comes to within 5 mm (0.20 in.) of the bottom edge of the hole. If the level is low, add oil until it begins to run out of the filler hole.

Front differential: See page [SA-57](#)

Rear differential oil: See page [SA-144](#)



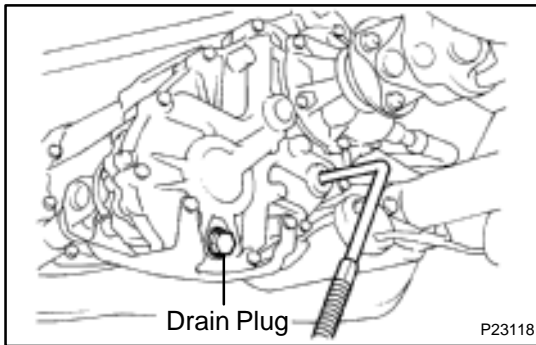
11. REPLACE MANUAL TRANSMISSION, TRANSFER (4WD) AND DEFFERENTIAL OIL

- (a) **Transfer:**
Remove the transfer cover.
- (b) Remove the drain plug and drain the oil.
- (c) Reinstall drain plug securely.
- (d) Add new oil until it begins to run out of the filler hole.

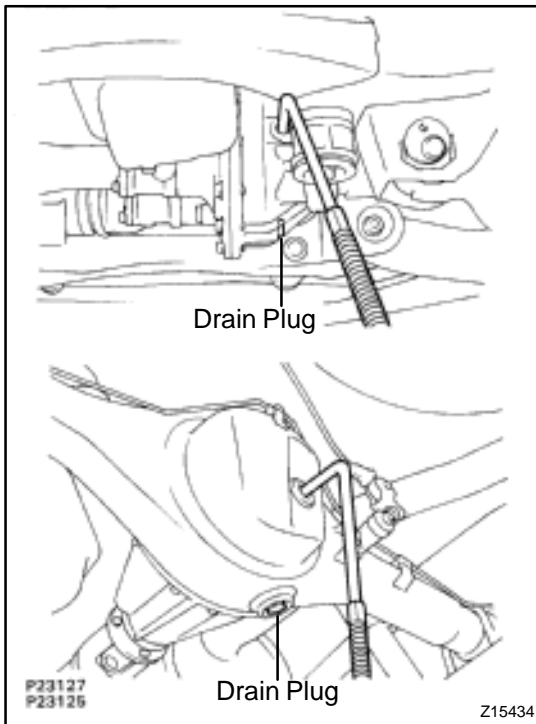
W59 (2WD) Transmission oil (M/T): See page [MT-4](#)

W59 (4WD) Transmission oil (M/T): See page [MT-8](#)

R150F Transmission oil (M/T): See page [MT-8](#)

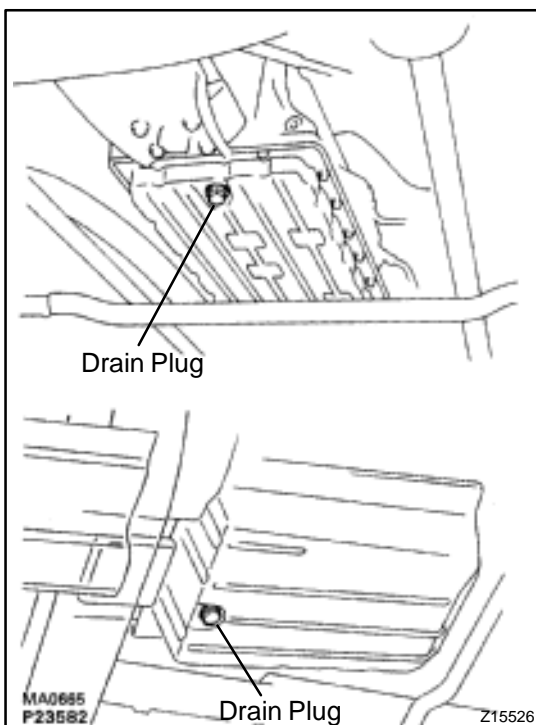


Transfer oil: See page [TR-6](#)



Front differential: See page [SA-15](#)

Rear differential oil: See page [SA-146](#)

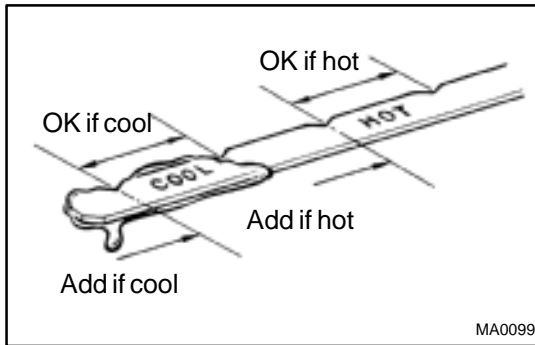


12. REPLACE AUTOMATIC TRANSMISSION FLUID

- Remove the drain plug(s) and drain the fluid.
- Reinstall the drain plug(s) securely.
- With the engine OFF, add new fluid through the oil filler pipe.

A340E, A340F Transmission fluid (A/T): See page [DI-342](#)

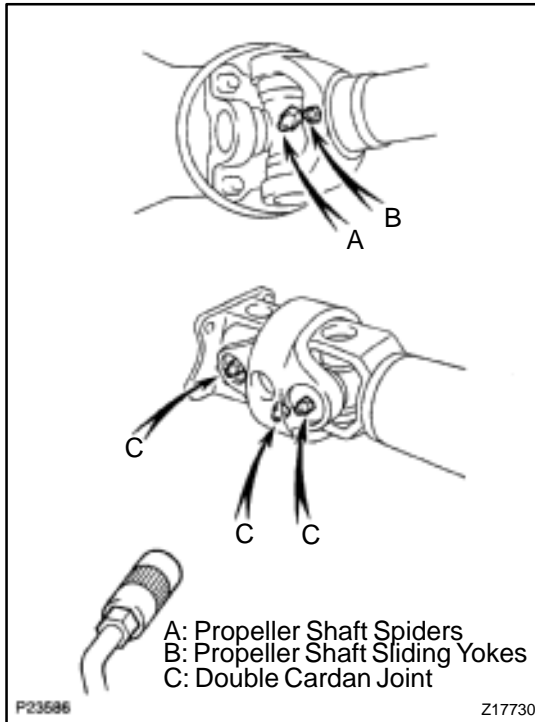
- Start the engine and shift the selector into all positions from "P" through "L" and then shift into "P".
- With the engine idling, check the fluid level. Add fluid up to the "COOL" level on the dipstick.



- (f) Check that the fluid level is in the "HOT" range at the normal operating temperature (70 – 80°C or 158 – 176°F) and add as necessary.

NOTICE:

Do not overfill.

**13. 4WD:****LUBRICATE PROPELLER SHAFT**

Lubricate propeller shaft, referring to the lubrication chart. Before pumping in grease, wipe off any mud and dust on the grease fitting.

Grease grade:

Spiders: Lithium base chassis grease NLGI No.2

Slide yoke and double-cardan joint:

Molybdenum–disulphidelithium base chassis grease NLGI No.2

**14. TIGHTEN BOLTS AND NUTS ON CHASSIS AND BODY**

- Tighten these parts:
Seat mounting bolts
Torque: 37 N·m (375 kgf·cm, 27 ft·lbf)
- Under Severe Conditions:
In addition to the above maintenance items, check for loose or missing bolts and nuts on the following.
 - Steering system
 - Drive train
 - Suspension system
 - Fuel tank mounts
 - Engine mounts, etc.

15. FINAL INSPECTION

- (a) Check operation of body parts:
 - Hood:
 - Auxiliary catch operates properly
 - Hood locks securely when closed
 - Doors:
 - Door locks operate properly
 - Doors close properly
 - Seats:
 - Seat adjusts easily and locks securely in any positions
 - Seat backs lock securely at any angle
 - Fold-down seat backs lock securely
- (b) Road test:
 - Engine and chassis parts do not have abnormal noises.
 - Vehicle does not wander or pull to one side.
 - Brakes work properly and do not drag.
- (c) Be sure to deliver a clean vehicle and especially check:
 - Steering wheel
 - Shift lever knob
 - All switch knobs
 - Door handles
 - Seats