

# CHASSIS INSPECTION

MA00D-02

**1. INSPECT STEERING LINKAGE**

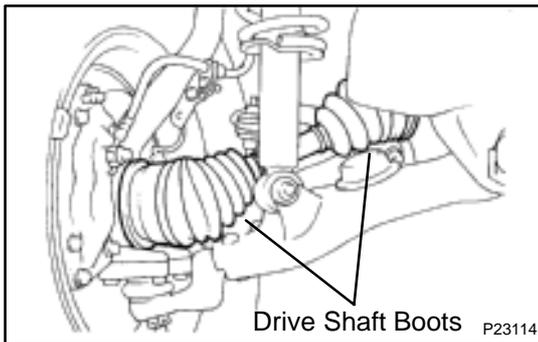
- (a) Check the steering wheel freeplay (See page [SR-9](#)).
- (b) Check the steering linkage for looseness or damage. Check that:
  - Tie rod ends do not have excessive play.
  - Dust seals and boots are not damaged.
  - Boot clamps are not loose.

**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](#))**



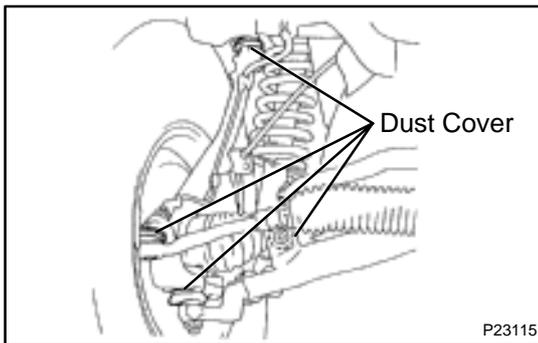
**6. INSPECT STEERING GEAR HOUSING**

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

**7. 4WD:**

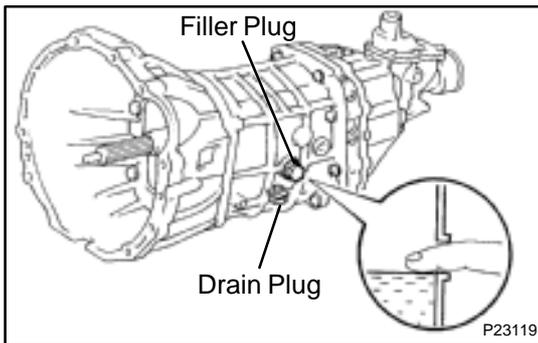
**INSPECT DRIVE SHAFT BOOTS**

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



**8. INSPECT BALL JOINTS AND DUST COVERS**

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



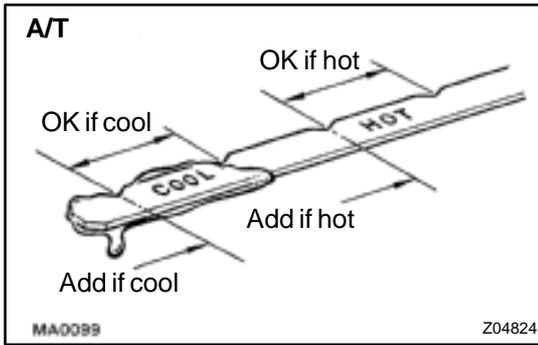
**9. 2WD:**

**CHECK OIL LEVEL IN MANUAL TRANSMISSION, AUTOMATIC TRANSMISSION 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-4](#)**

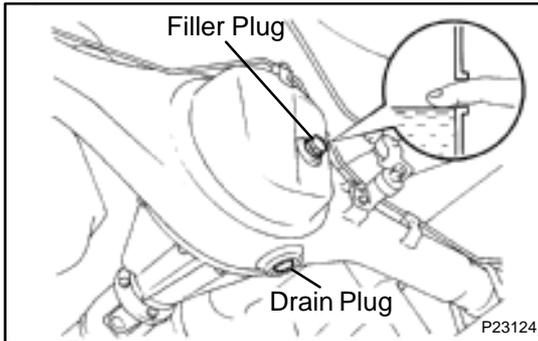


- (b) Automatic transmission:  
Check that the fluid level is in the "HOT" range at the normal operating temperature (70 – 80°C or 158 – 176°F) and add as necessary.

**NOTICE:**

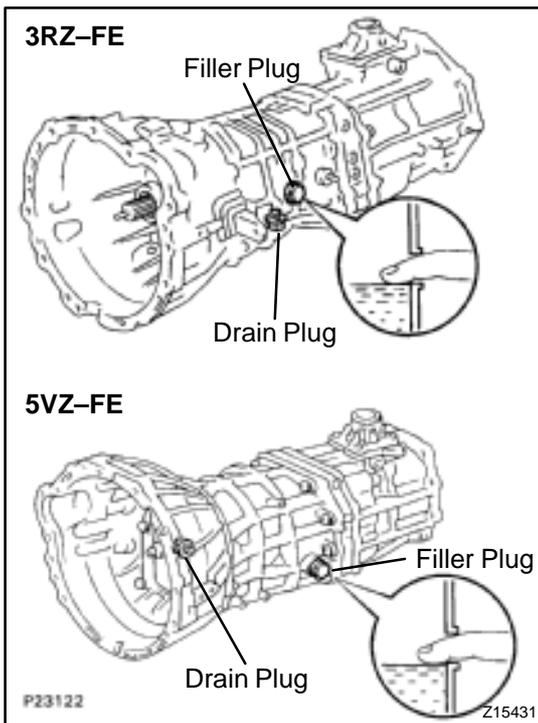
**Do not overfill.**

**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

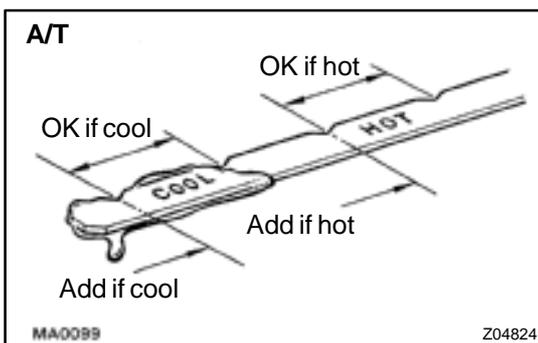


**10. 4WD:**  
**CHECK OIL LEVEL IN MANUAL TRANSMISSION, AUTOMATIC TRANSMISSION, TRANSFER AND DIFFERENTIAL**

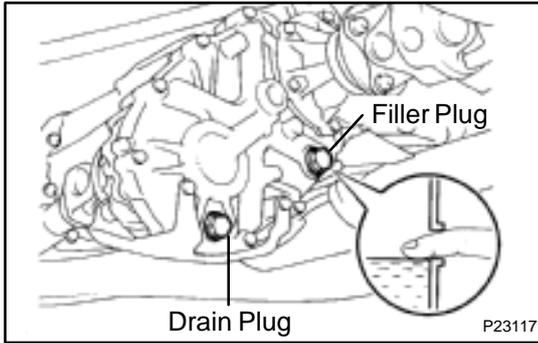
- (a) Manual transmission:  
Remove the filler plug and feel inside the hole with your finger. Check that the oil comes to within 5 mm (0.20 in.) of the bottom edge of the hole. If the level is low, add oil until it begins to run out of the filler hole.

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

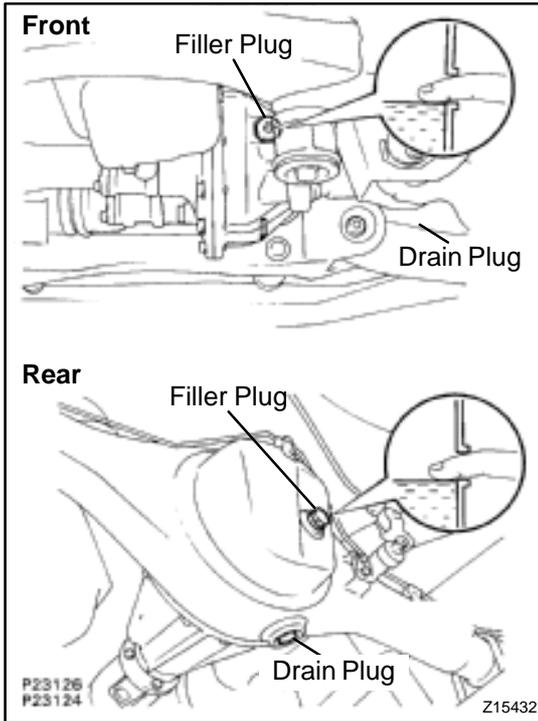
**R150F Transmission oil (M/T):** See page MT-7



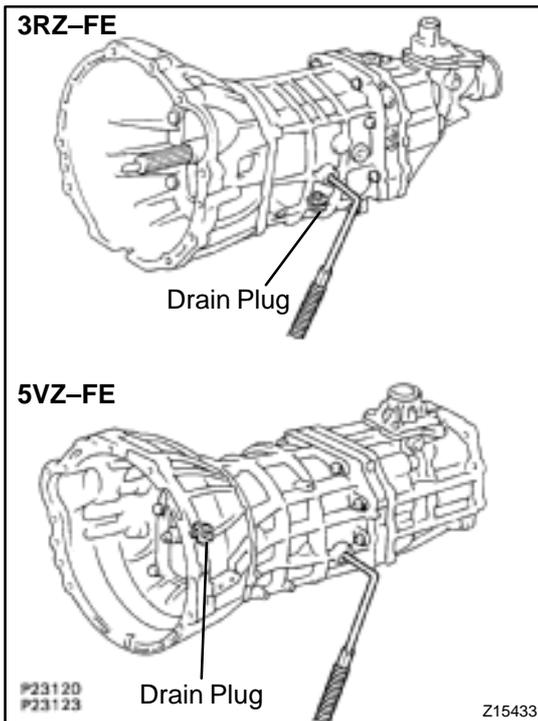
- (b) Automatic transmission:  
Check that the fluid level is in the "HOT" range at the normal operating temperature (70 – 80°C or 158 – 176°F) and add as necessary.



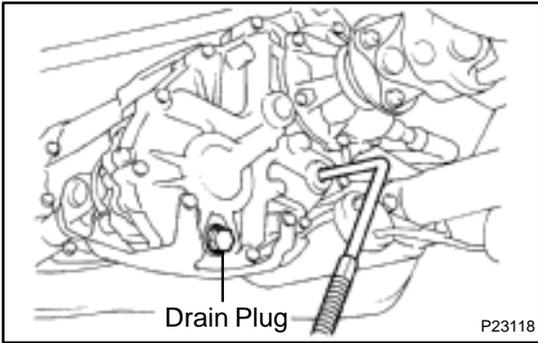
- (c) Transfer:
  - Remove the filler plug and feel inside the hole with your finger. Check that the oil comes to within 5 mm (0.20 in.) of the bottom edge of the hole. If the level is low, add oil until it begins to run out of the filler hole.
  - Transfer oil: See page TR-1**



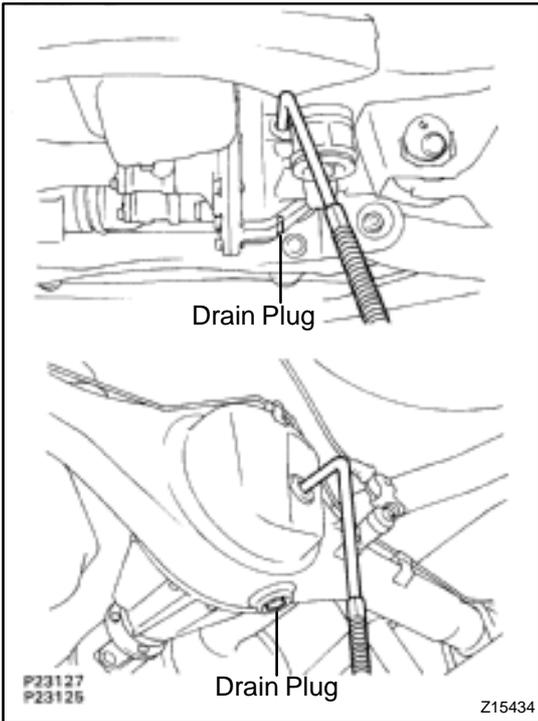
- (d) Differential:
  - Remove the filler plug and feel inside the hole with your finger. Check that the oil comes to within 5 mm (0.20 in.) of the bottom edge of the hole. If the level is low, add oil until it begins to run out of the filler hole.
  - Front differential: See page SA-57**
  - Rear differential 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**

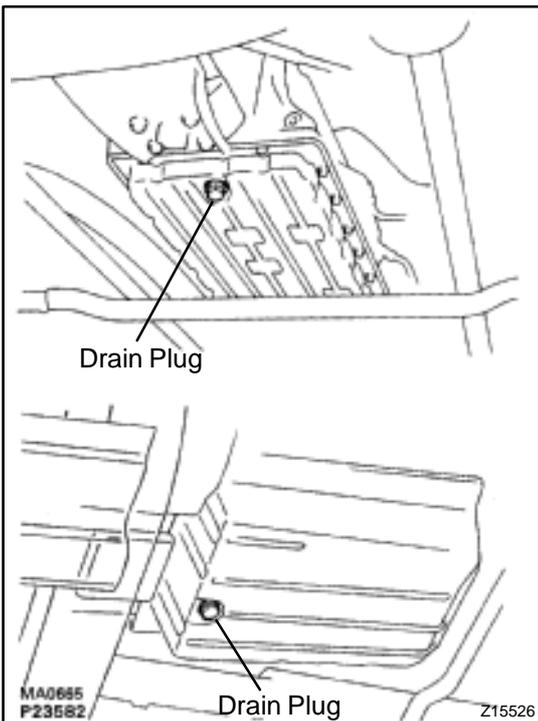


Transfer oil: See page [TR-6](#)



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

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

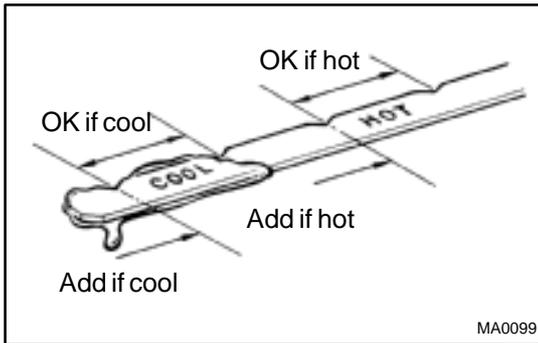


**12. REPLACE AUTOMATIC TRANSMISSION FLUID**

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

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

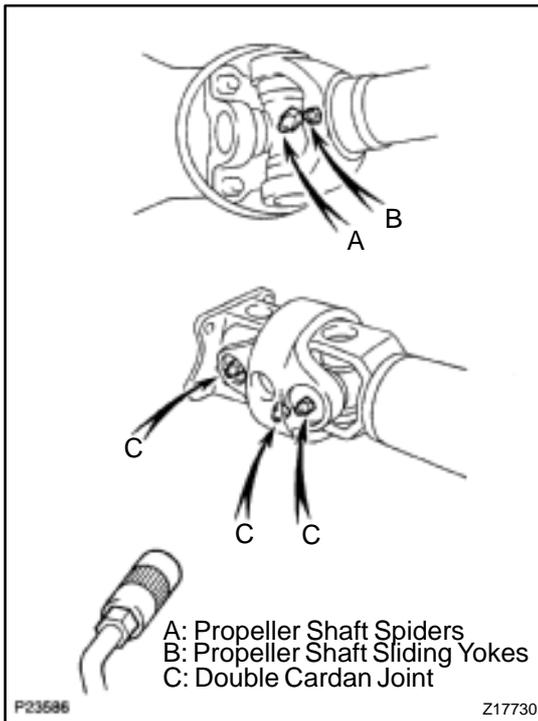
- (d) Start the engine and shift the selector into all positions from "P" through "L" and then shift into "P".
- (e) With the engine idling, check the fluid level. Add fluid up to the "COOL" level on the dipstick.



- (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