2UZ–FE:

HOT — COLD

R00427
F05664   F05665

Normal   Abnormal

R07281

5 mm (0.20 in.) or less

Engine Idling   Engine Stopped

R11361

SR0P6–01

INSPECTION

1.   CHECK FLUID LEVEL

(a)   Keep the vehicle level.

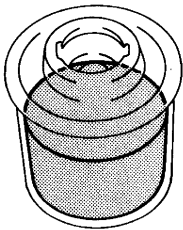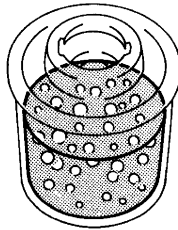(b)   With the engine stopped, check the fluid level in the oil reservoir.

If necessary, add fluid.

Fluid: ATF DEXRON® II or III

HINT:

Check that the fluid level is within the HOT LEVEL range on the reservoir/reservoir cap dipstick.

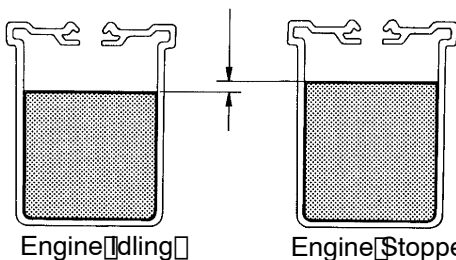If the fluid is cold, check that it is within the COLD LEVEL range.

(c)   Start the engine and run it at idle.

(d)   Turn the steering wheel from lock to lock several times to boost fluid temperature.

Fluid temperature: 80˚C (176˚F)

(e)   Check for foaming or emulsification.

If there is foaming or emulsification, bleed power steering system. (See page SR–4)

(f)   With the engine idling, measure the fluid level in the oil reservoir.

(g)   Stop the engine.

(h)   Wait a few minutes and remeasure the fluid level in the oil reservoir.

Maximum fluid level rise: 5 mm (0.20 in.)

If a problem is found, bleed power steering system.

(See page SR–4)

(i)   Check the fluid level.

2.   CHECK STEERING FLUID PRESSURE

(a)   Disconnect the pressure feed tube from the PS vane pump.

1FZ–FE: (See page SR–41)

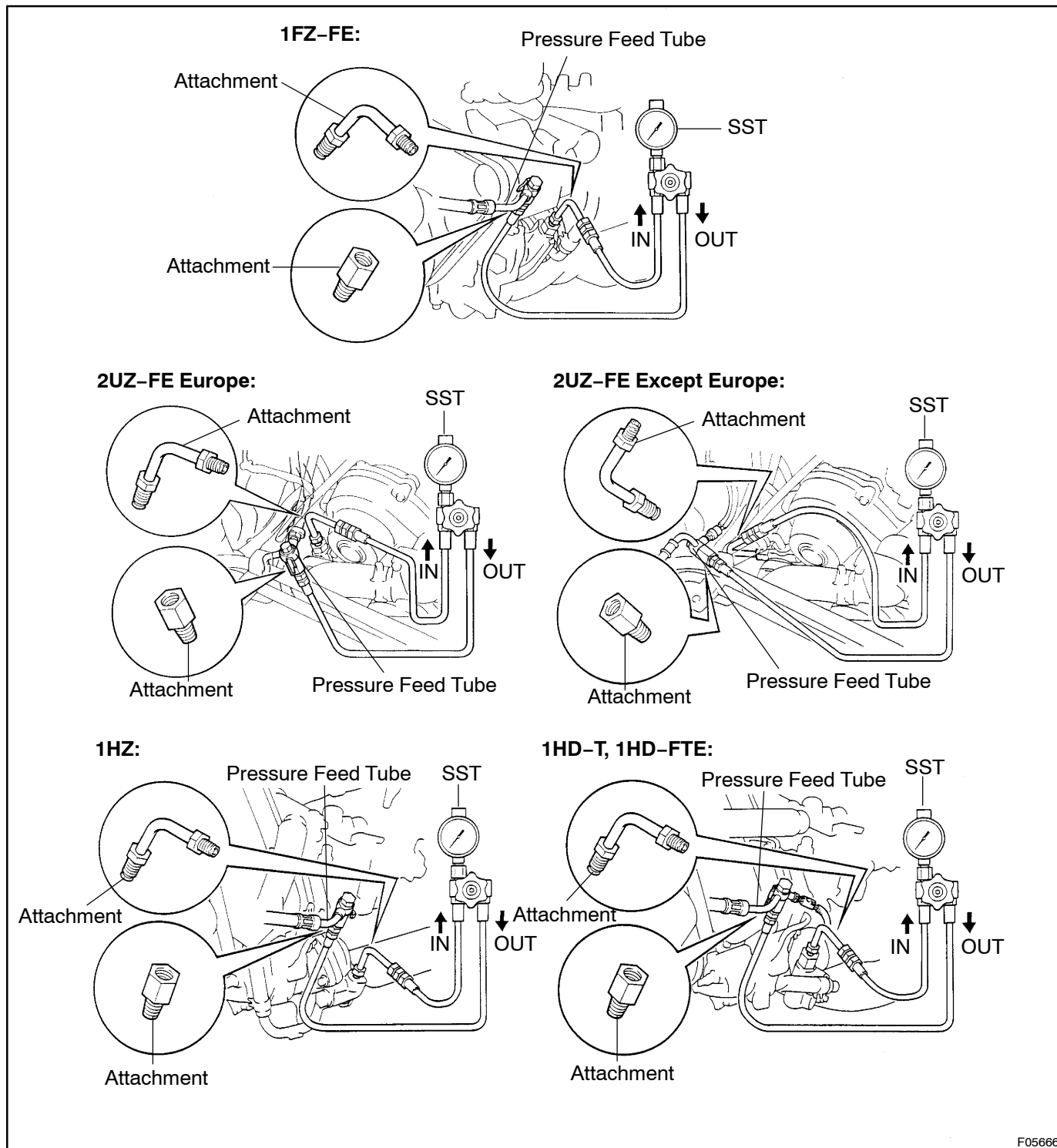2UZ–FE Europe: (See page SR–55)

2UZ–FE Except Europe: (See page SR–65)

1HZ: (See page SR–77)

1HD–T, 1HD–FTE: (See page SR–89)

1FZ–FE, 1HZ, 1HD–T, 1HD–FTE:

(b) Connect SST, as shown in the illustration below.
   SST   09640–10010 (09641–01010, 09641–01030,
         09641–01060)

NOTICE:
Check that the valve of the SST is in the open position.

1FZ–FE:
Attachment
Pressure Feed Tube
SST
Attachment
IN   OUT

2UZ–FE Europe:
Attachment
SST
Attachment
Pressure Feed Tube
IN   OUT

2UZ–FE Except Europe:
Attachment
SST
Attachment
Pressure Feed Tube
IN   OUT

1HZ:
Pressure Feed Tube   SST
Attachment
Attachment
IN   OUT

1HD–T, 1HD–FTE:
Pressure Feed Tube   SST
Attachment
Attachment
IN   OUT

F05666

(c) Bleed the power steering system.
(See page SR−4)

(d) Start the engine and run it at idle.

(e) Turn the steering wheel from lock to lock several times to boost fluid temperature.
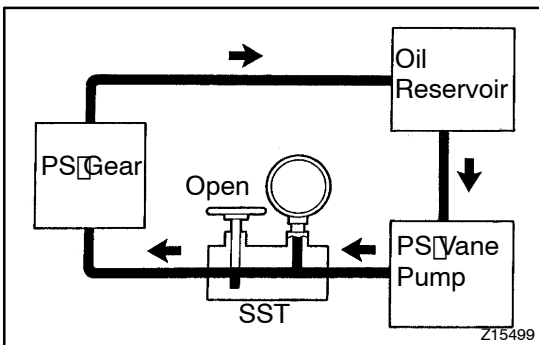**Fluid temperature: 80 °C (176 °F)**
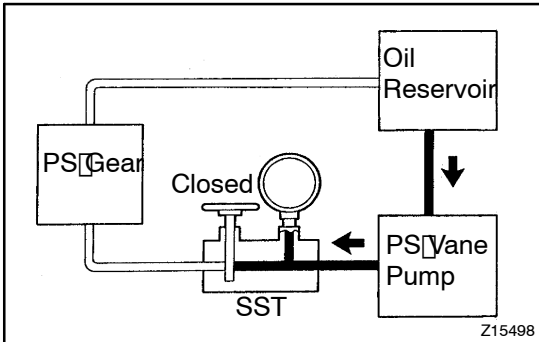
(f) With the engine idling, close the valve of the SST and observe the reading on the SST.
Minimum fluid pressure:
8,336 kPa (85 kgf/cm^2, 1,209 psi)
NOTICE:
• **Do not keep the valve closed for more than 10 seconds.**
• **Do not let the fluid temperature become too high.**

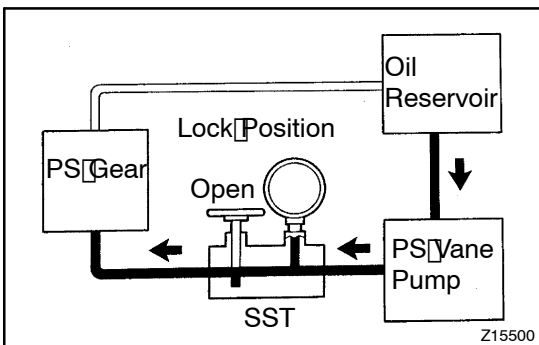(g) With the engine idling, open the valve fully.

(h) Measure the fluid pressure at engine speeds of 1,000 rpm and 3,000 rpm.
Difference fluid pressure:
490 kPa (5 kgf/cm^2, 71 psi) or less
NOTICE:
Do not turn the steering wheel.

(i) With the engine idling and valve fully opened, turn the steering wheel to full lock.
Minimum fluid pressure:
8,336 kPa (85 kgf/cm^2, 1,209 psi)
NOTICE:
• **Do not maintain lock position for more than 10 seconds.**
• **Do not let the fluid temperature become too high.**

(j) Disconnect the SST.

(k) Connect the pressure feed tube to the PS vane pump.
1FZ−FE: (See page SR−52)
2UZ−FE Europe: (See page SR−62)
2UZ−FE Except Europe: (See page SR−73)
1HZ: (See page SR−85)
1HD−T, 1HD−FTE: (See page SR−97)

(l) Bleed the power steering system.
(See page SR−4)