PPS LINEAR SOLENOID CIRCUIT

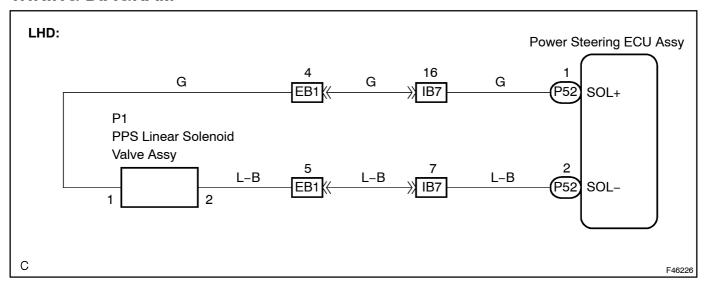
CIRCUIT DESCRIPTION

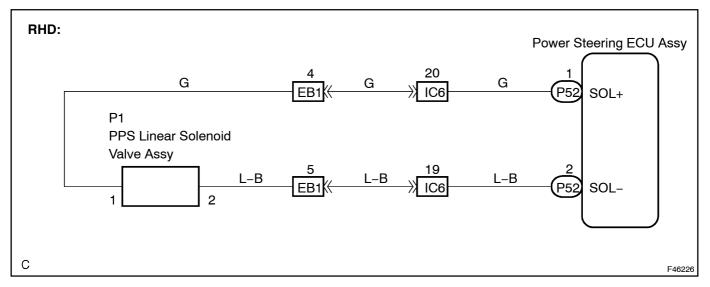
This circuit supplies electric power to the PPS linear solenoid valve assy.

The power steering ECU assy controls the output current to the PPS linear solenoid valve assy in accordance with vehicle speed, adjusting the amount of power steering assist.

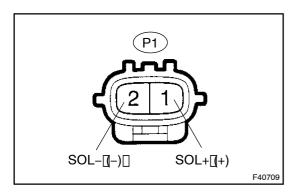
As vehicle speed increases, the current to the solenoid decreases.

WIRING DIAGRAM





1 | INSPECT | IN



(a) CHECK RESISTANCE OF SOLENOID

- (1) Disconnect the connector from the PS inear solenoid valve assy.
- (2) Measure[the] esistance according[to[the] value(s) in the able below.

Standard:

Tester@connection	Condition	Specified Condition
P1−1[[SOL+) − P1−2[[SOL−)	Always	6 to [[1 Ω[]-40[]o[] 50[] C)

(b) CHECK OPERATION OF SOLENOID

- (1) Connect the battery positive terminal to solenoid valve rminal (SOL+) and the hegative ferminal to erminal 20SOL-).
- $\label{eq:check_limit} \textbf{Check_limat[line]} so lenoid_limakes_la_clicking_sound.$

OK:

The PPS inear solenoid valve assy makes a click sound.

HINT:

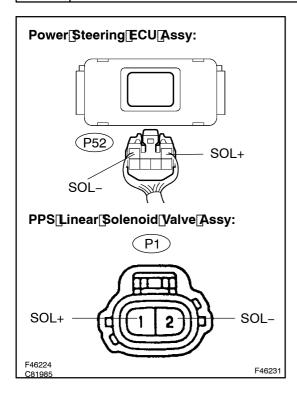
- Do not apply voltage for more than 30 seconds to avoid burnout of the solenoid.
- If repeating this step, wait until the solenoid cools down enough to be touched by hand.



REPLACE RACK & PINION POWER STEERING GEAR[ASSY[[SEE]PAGE[51-23]]

OK

2 | CHECK[HARNESS[AND[CONNECTOR(POWER[STEERING[ECU[ASSY - [PPS | LINEAR[SOLENOID[VALVE[ASSY)]



- (a) Disconnect[the[connector[from[the[power[steering[ECU assy.
- (b) Measure the resistance according to the value (s) in the table below.

Standard:

Tester Connection	Condition	Specified Condition
P52-1[[SOL+) - P1-1[[SOL+)	Always	Below[] [Ω
P52-2[[SOL-) - P1-2[[SOL-)	Always	Below[] []2
P52−1¶SOL+) − Body[ground	Always	10[kքի[þr[իigher
P52–2∏SOL–) – Body[ground	Always	10[kքի[þigher

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE[POWER[STEERING[ECU[ASSY[[SEE[PAGE[51-40,[51-42]