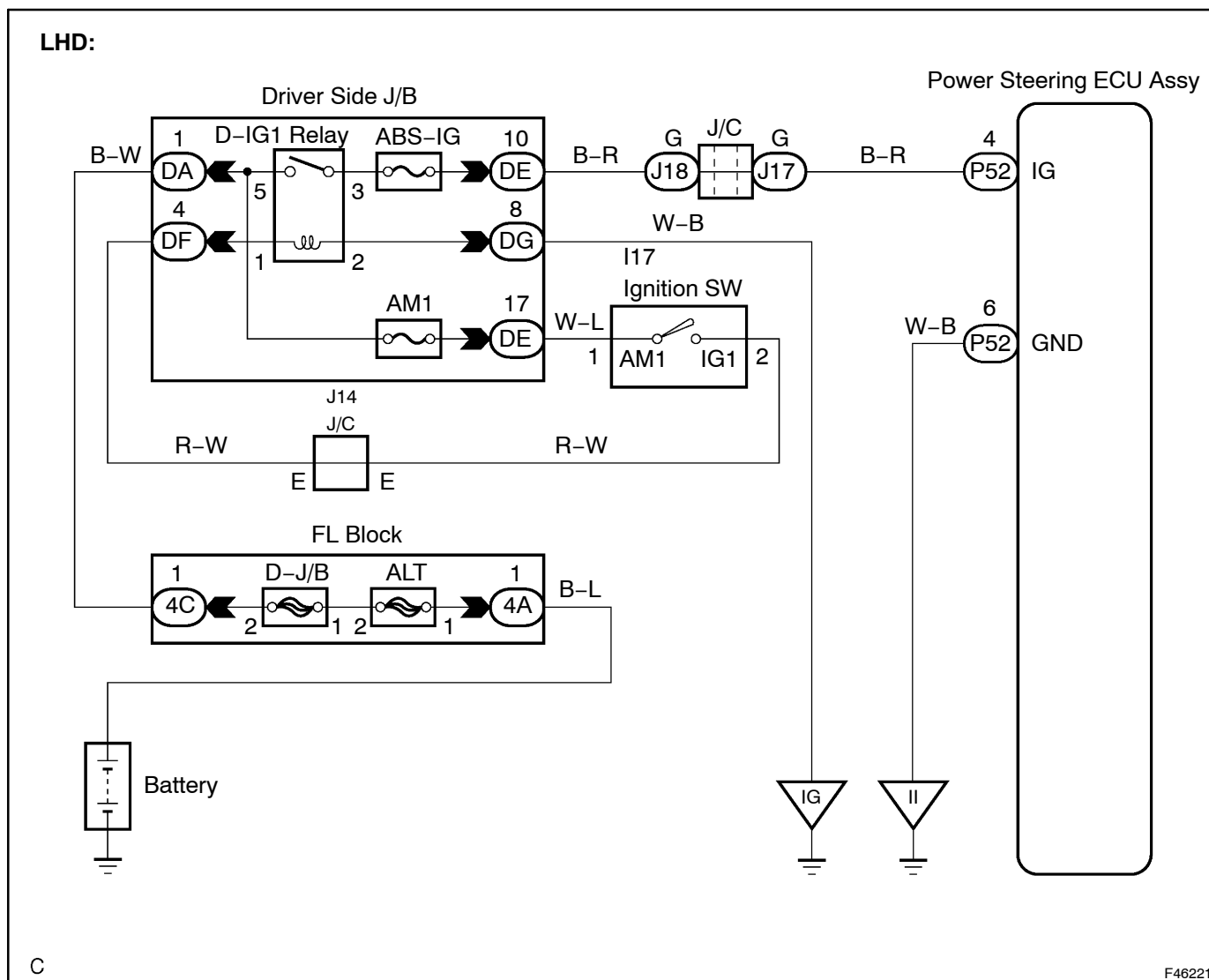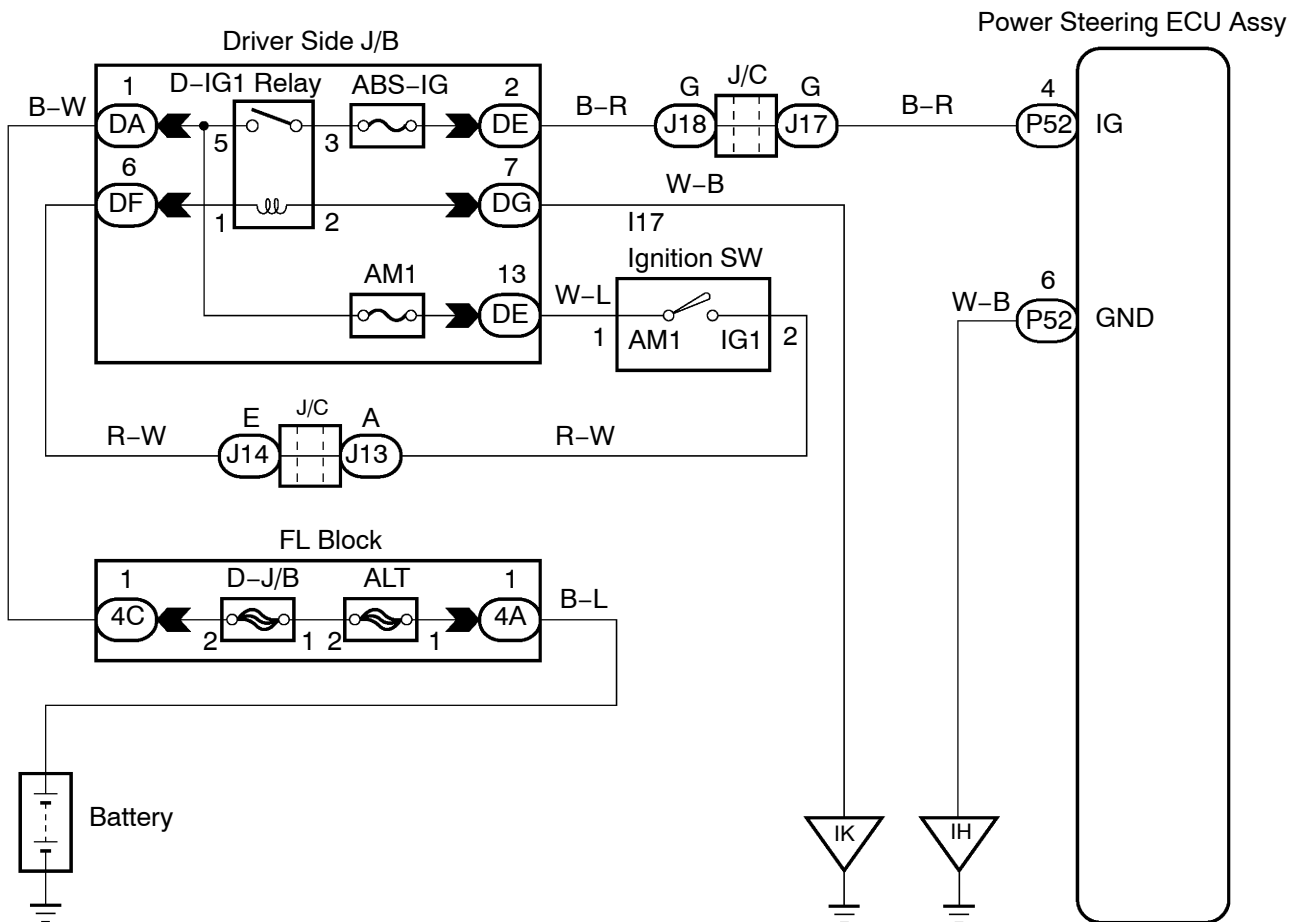# IG POWER SOURCE CIRCUIT

CIRCUIT DESCRIPTION

The IG power source circuit supplies battery voltage to the power steering ECU assy.
This power source operates the PPS linear solenoid valve assy.
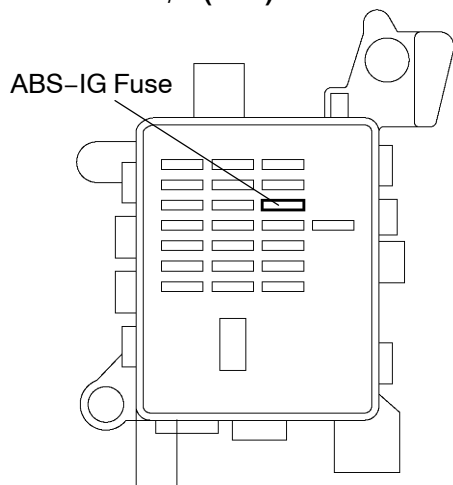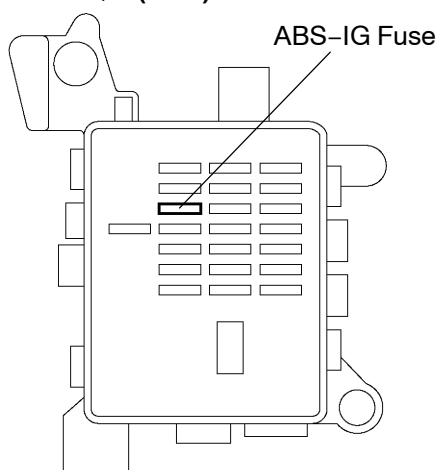
WIRING DIAGRAM

F46221

RHD:

F46228

INSPECTION PROCEDURE

1	INSPECT FUSE(ABS–IG)

Driver Side J/B (LHD):

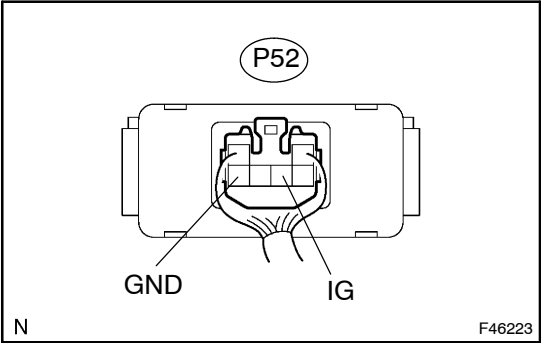ABS–IG Fuse

Driver Side J/B (RHD):

ABS–IG Fuse

F46416

(a) Remove the ABS–IG fuse from the driver side J/B.
(b) Check the continuity of the ABS–IG fuse.
Standard: Continuity

NG ⟩ **INSPECT FOR SHORT IN ALL COMPONENTS CONNECTED TO FUSE AND REPAIR OR REPLACE THEM IF NEEDED, AND REPLACE FUSE**

OK

| 2 | INSPECT POWER STEERING ECU ASSY |

(a) Remove the power steering ECU assy with the connector still connected.

(b) Turn the ignition switch to the ON position.

(c) Measure the voltage according to the value(s) in the table below.

Standard:

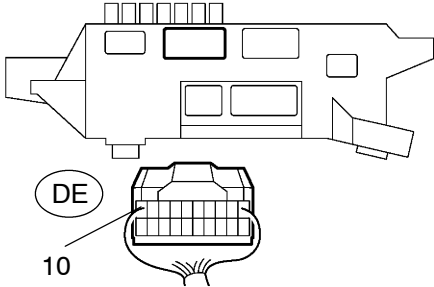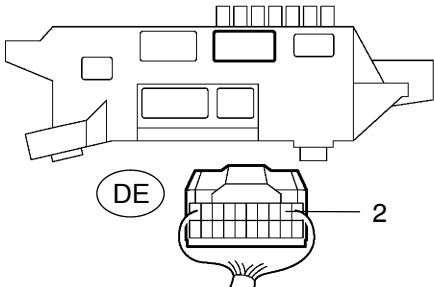| Tester Connection	Condition	Specified Condition
P52–4 (IG) – P52–6 (GND)	Ignition switch ON	10 to 14 V

| **NG** > | Go to step 3 |

OK

| REPLACE POWER STEERING ECU ASSY (SEE PAGE 51–40, 51–42) |

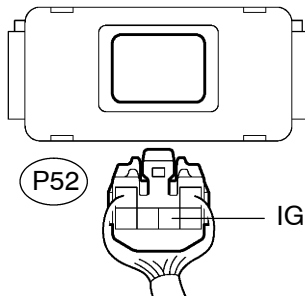| 3	CHECK HARNESS AND CONNECTOR(POWER STEERING ECU ASSY – DRIVER SIDE J/B)

Driver Side J/B (LHD):

Driver Side J/B (RHD):

Power Steering ECU Assy:

F46232

(a) Disconnect the connector from the driver side J/B.

(b) Disconnect the connector from the power steering ECU assy.

(c) Measure the resistance according to the value(s) in the table below.

Standard:

LHD:

Tester Connection	Condition	Specified Condition
DE–10 – P52–4 (IG)	Always	Below 1 Ω
P52–4 (IG) – Body ground	Always	10 kΩ or higher

RHD:

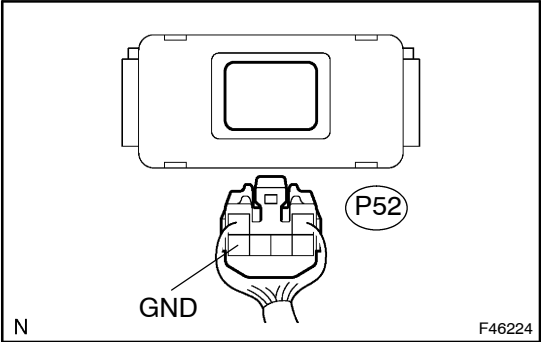| Tester Connection	Condition	Specified Condition
DE–2 – P52–4 (IG)	Always	Below 1 Ω
P52–4 (IG) – Body ground	Always	10 kΩ or higher

NG > **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

| 4 | CHECK HARNESS AND CONNECTOR(POWER STEERING ECU ASSY – BODY GROUND) |

(a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Condition	Specified Condition
P52–6 (GND) – Body ground	Always	Below 1 Ω

NG ▷ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE