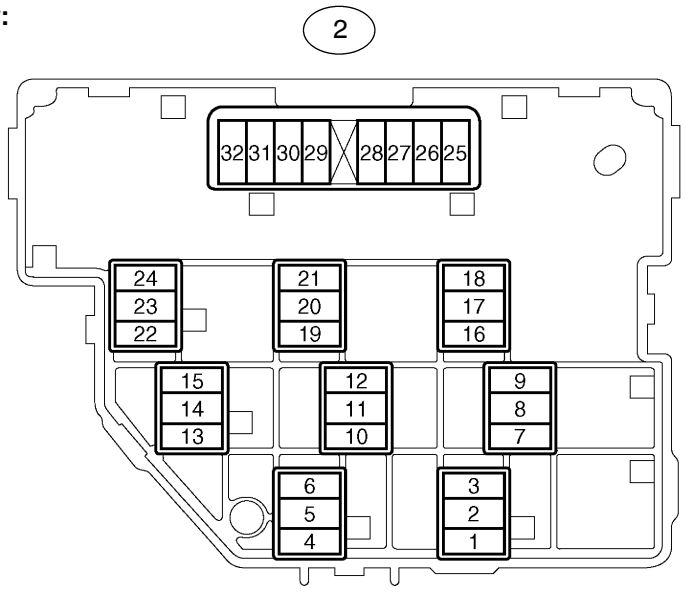
05HKI–01

TERMINALS OF ECU

1. ENGINE ROOM NO.2 RELAY BLOCK

Engine Room No.2 Relay Block (Front Light ECU)
Connector Front View:



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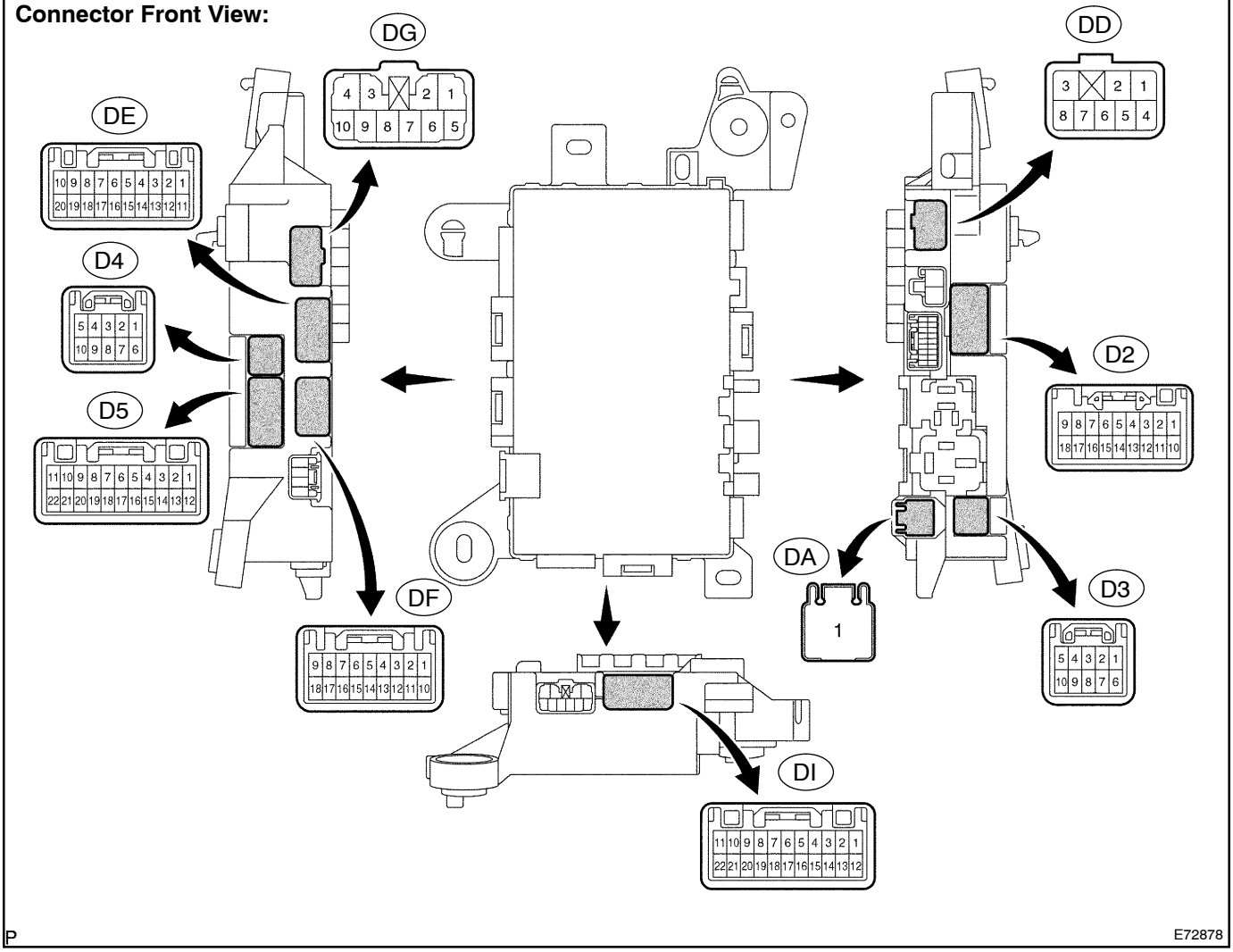
Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
W+ (2–10) – E (2–25)	B–W – W–B	Front washer motor circuit (To washer motor)	• Front washer switch OFF • Front washer switch ON	• Below 1 V • 10 to 14 V
FWAS (2–11) – E (2–25)	R–L – W–B	Front washer motor source circuit (From battery)	Always	10 to 14V
FRWA (2–12) – E (2–25) (*1)	P – W–B	Front washer motor operation signal circuit (To headlamp cleaner control relay)	• Front washer switch OFF • Front washer switch ON	• 10 to 14V • Below 1 V
E (2–25) – Body ground	W–B – Body ground	Ground	Always	Below 1 V
WLVL (2–26) – E (2–25)	V – W–B	Washer level sensor signal circuit	• Washer fluid level is low • Washer fluid level is full	• Below 1 V • 10 to 14 V
FMB3 (2–29) – E (2–25)	R–B – W–B	Power source circuit (From battery)	Always	10 to 14V
FMIG (2–30) – E (2–25)	R–L – W–B	IG signal circuit (To ignition switch)	• Ignition switch ON • Ignition switch OFF	• 10 to 14V • Below 1 V
MPX2 (2–31) – E (2–25)	V–G – W–B	Multiplex communication signal circuit	Ignition switch ON	Signal waveform
MPX1 (2–32) – E (2–25)	V–G – W–B	Multiplex communication signal circuit	Ignition switch ON	Signal waveform

*1: w/ headlamp Cleaner

2. LHD:
DRIVER SIDE JUNCTION BLOCK

Driver Side Junction Block (Driver side J/B ECU)
Connector Front View:



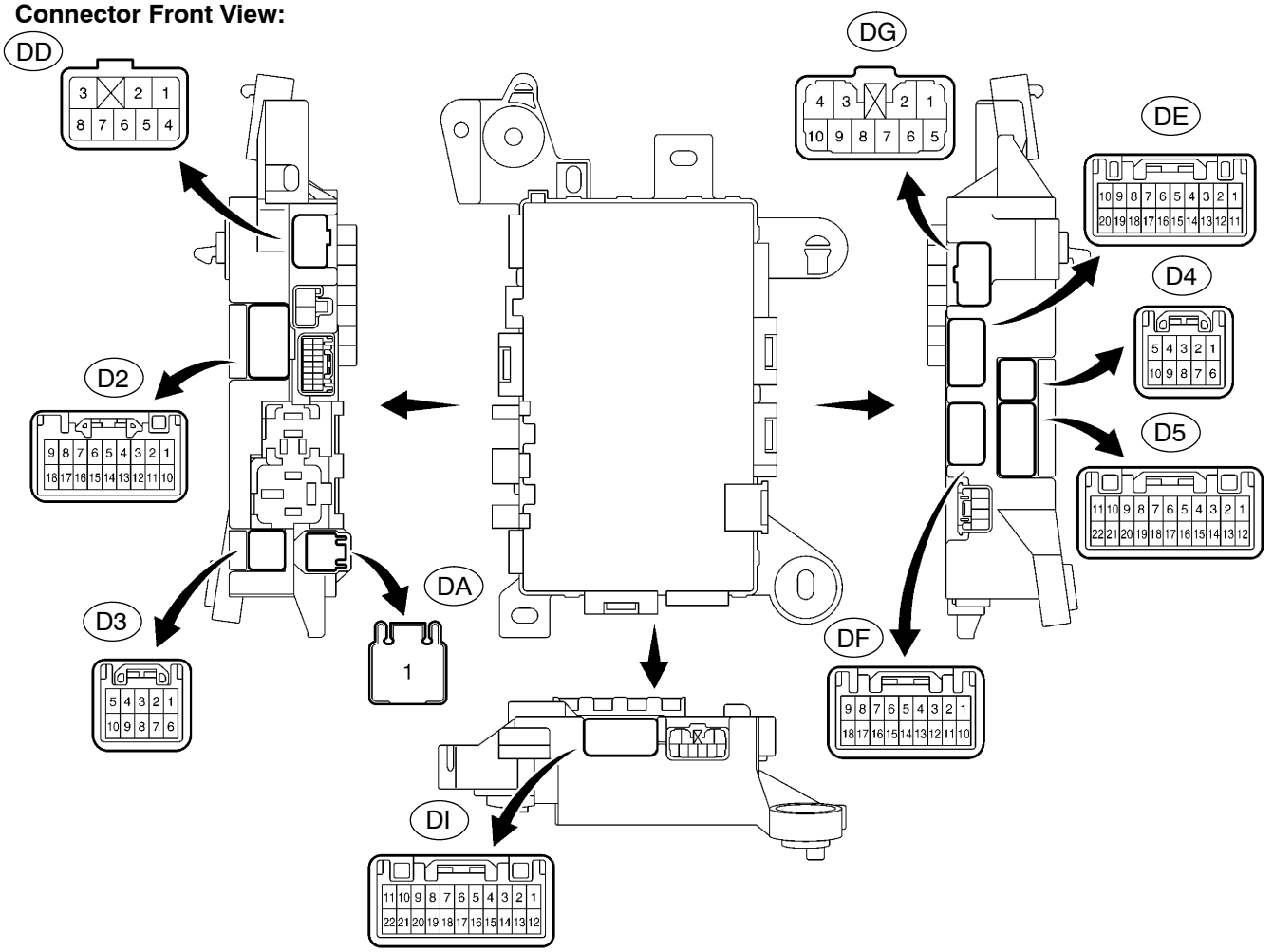
Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
PANEL1, B/ANC (DA–1) – GND (DG–8)	B–W – W–B	Power source circuit (From battery)	Always	10 to 14 V
IG (DF–4) – GND (DG–8)	R–W – W–B	IG signal circuit (To ignition switch)	• Ignition switch OFF • Ignition switch ON	• Below 1 V • 10 to 14 V
ACC (DG–7) – GND (DG–8)	W–G – W–B	ACC signal circuit (To ignition switch)	• Ignition switch OFF • Ignition switch ON	• Below 1 V • 10 to 14 V
GND (DG–8) – Body ground	W–B – Body ground	Ground	Always	Below 1 V
HDLO (D2–6) – GND (DG–8) (*1)	L – W–B	Headlamp cleaner cancel signal (To headlamp cleaner control relay)	• Daytime running light is operated • Daytime running light is not operated	• 10 to 14 V • Below 1 V
MPX1 (D2–15) – GND (DG–8)	V–G – W–B	Multiplex communication signal circuit	Ignition switch ON	Signal waveform
MPX–B (D4–5) – GND (DG–8)	R–B – W–B	Multiplex communication power source circuit	Always	10 to 14 V

Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
MPX3 (D4–6) – GND (DG–8)	R–L – W–B	Multiplex communication signal circuit	Ignition switch ON	Signal waveform
MPX2 (D4–7) – GND (DG–8)	V–G – W–B	Multiplex communication signal circuit	Ignition switch ON	Signal waveform
HDCL (D5–16) – GND (DG–8) (*1)	B–Y – W–B	Headlamp cleaner switch signal	• Light control switch OFF • Light control switch ON and headlamp cleaner switch ON	• 10 to 14 V • Below 1 V

*1: w/ Headlamp cleaner

3. RHD: DRIVER SIDE JUNCTION BLOCK

Driver Side Junction Block (Driver Side J/B ECU)
Connector Front View:



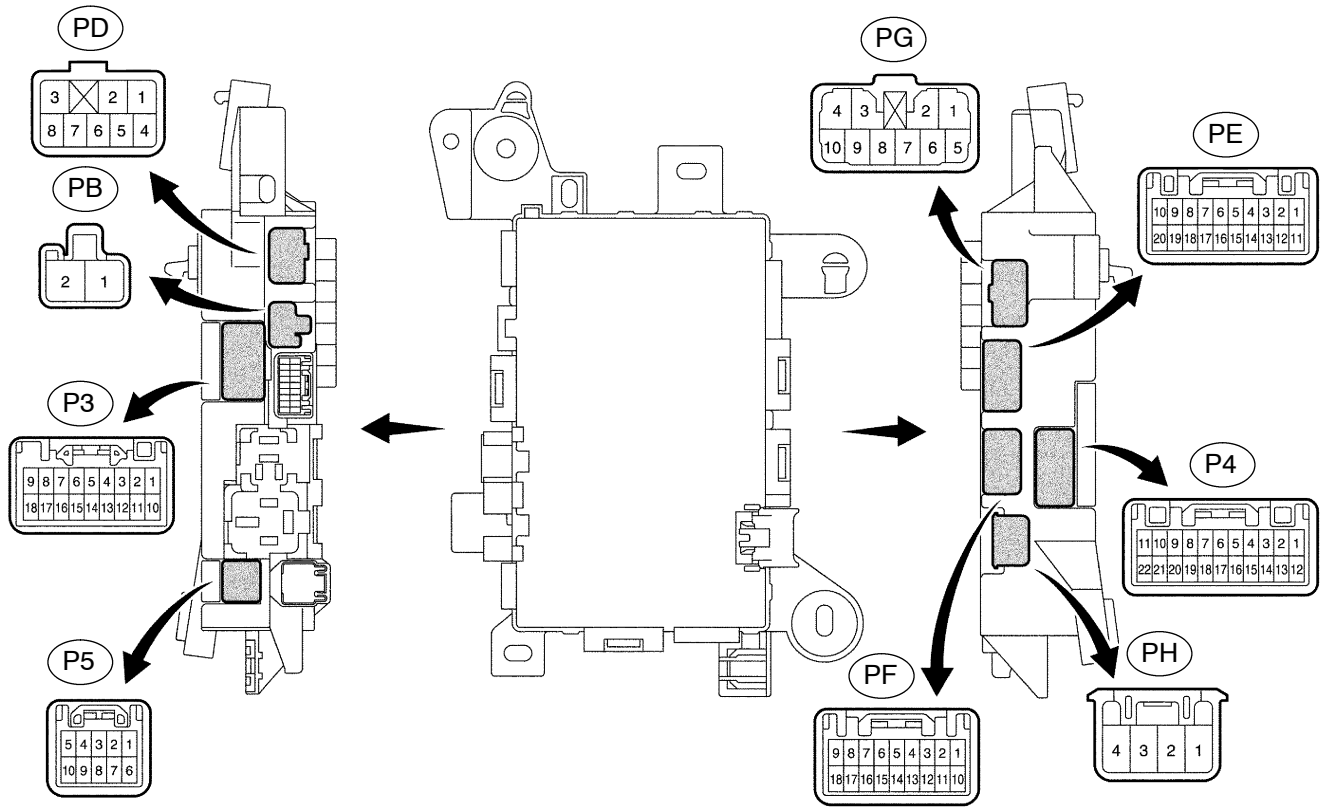
Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
PANEL1, B/ANC (DA–1) – GND (DG–7)	B–W – W–B	Power source circuit (From battery)	Always	10 to 14 V
IG (DF–6) – GND (DG–7)	R–W – W–B	IG signal circuit (To ignition switch)	• Ignition switch OFF • Ignition switch ON	• Below 1 V • 10 to 14 V
ACC (DG–8) – GND (DG–7)	W–G – W–B	ACC signal circuit (To ignition switch)	• Ignition switch OFF • Ignition switch ON	• Below 1 V • 10 to 14 V
GND (DG–7) – Body ground	W–B – Body ground	Ground	Always	Below 1 V
HDLO (D2–6) – GND (DG–7) (*1)	L – W–B	Headlamp cleaner cancel signal (To headlamp cleaner control relay)	• Daytime running light is operated • Daytime running light is stopped	• 10 to 14 V • Below 1 V
MPX1 (D2–13) – GND (DG–7)	V–G – W–B	Multiplex communication signal circuit	Ignition Switch ON	Signal waveform
MPX–B (D4–1) – GND (DG–7)	R–B – W–B	Multiplex communication power source circuit	Always	10 to 14 V

Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
MPX3 (D4–6) – GND (DG–7)	V–G – W–B	Multiplex communication signal circuit	Ignition Switch ON	Signal waveform
MPX2 (D4–7) – GND (DG–7)	V–G – W–B	Multiplex communication signal circuit	Ignition Switch ON	Signal waveform
HDCL (D5–1) – GND (DG–7) (*1)	B–Y – W–B	Headlamp cleaner switch signal	• Light control switch OFF • Light control switch ON and headlamp cleaner switch ON	• 10 to 14 V • Below 1 V

*1: w/ Headlamp cleaner

4. LHD:
PASSENGER SIDE JUNCTION BLOCK

Passenger Side Junction Block (Passenger Side J/B ECU)
Connector Front View:



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Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
MPX–B (PB–1) – GND (PG–8)	R–L – W–B	Multiplex communication power source circuit	Always	10 to 14 V
WIP (PD–6) – GND (PG–8)	B–R – W–B	Wiper motor power source circuit (To wiper motor)	• Ignition switch OFF • Ignition switch ON	• Below 1 V • 10 to 14 V
WIP (PD–7) – GND (PG–8)	L – W–B	Ignition signal (To IG relay)	• Ignition switch OFF • Ignition switch ON	• Below 1 V • 10 to 14 V
MPX–IG (PE–3) – GND (PG–8)	R–L – W–B	Multiplex communication IG signal circuit	• Ignition switch OFF • Ignition switch ON	• Below 1 V • 10 to 14 V
ACC (PF–8) – GND (PG–8)	W–G – W–B	Ignition switch ACC signal (To ignition switch)	• Ignition switch OFF • Ignition switch in ACC	• Below 1 V • 10 to 14 V
GND (PG–8) – Body ground	W–B – Body ground	Ground	Always	Below 1 V
AIRBAG (PH–2) – GND (PG–8)	R–L – W–B	Multiplex communication signal	Ignition switch ON	Signal waveform

Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
S/S (P3–1) – GND (PG–8)	P – W–B	Power source of wiper motor (To wiper motor)	• Wiper switch in LOW • Wiper switch in except LOW	• 10 to 14 V • Below 1 V
+2 (P3–2) – GND (PG–8)	L–R – W–B	Power source of wiper motor (To wiper motor)	• Wiper switch in HI • Wiper switch in except HI	• 10 to 14 V • Below 1 V
MPX–(P3–4) – GND (PG–8)	GR–B – W–B	Multiplex communication signal	Ignition switch ON	Signal waveform
PA3 (P3–6) – GND (PG–8) (*1)	Y–G – W–B	Variable motor position signal (To variable motor)	• Wiper is in minimum angle position • Wiper is in except minimum angle position	• 10 to 14 V • Below 1 V
PA2 (P3–7) – GND (PG–8) (*1)	R – W–B	Variable motor position signal (To variable motor)	• Wiper is in raise–up position • Wiper is in except raise–up position	• 10 to 14 V • Below 1 V
S/M (P3–9) – GND (PG–8)	B – W–B	Wiper motor operation signal (From wiper motor)	• Wiper is operated • Wiper is stopped	• 10 to 14 V • Below 1 V
M/B (P3–10) – GND (PG–8) (*1)	R–Y – W–B	Variable motor operation signal (To variable motor)	• Variable motor rotates in reverse direction (*2) • Variable motor is stopped	• 10 to 14 V • Below 1 V
M/F (P3–11) – GND (PG–8) (*1)	R–L – W–B	Variable motor operation signal (To variable motor)	• Variable motor rotates in regular direction (*3) • Variable motor is stopped	• 10 to 14 V • Below 1 V
PA1 (P3–18) – GND (PG–8) (*1)	R–B – W–B	Variable motor position signal (To variable motor)	• Wiper is in raise–up position • Wiper is in except raise–up position	• Below 1 V • 10 to 14 V
GND1 (P4–11) – GND (PG–8)	W–B – W–B	Ground	Always	Below 1 V
2S (P4–14) – GND (PG–8)	P – W–B	Wiper switch HI signal (To combination switch)	• Wiper switch in HI • Wiper switch in except HI	• Below 1 V • 10 to 14 V

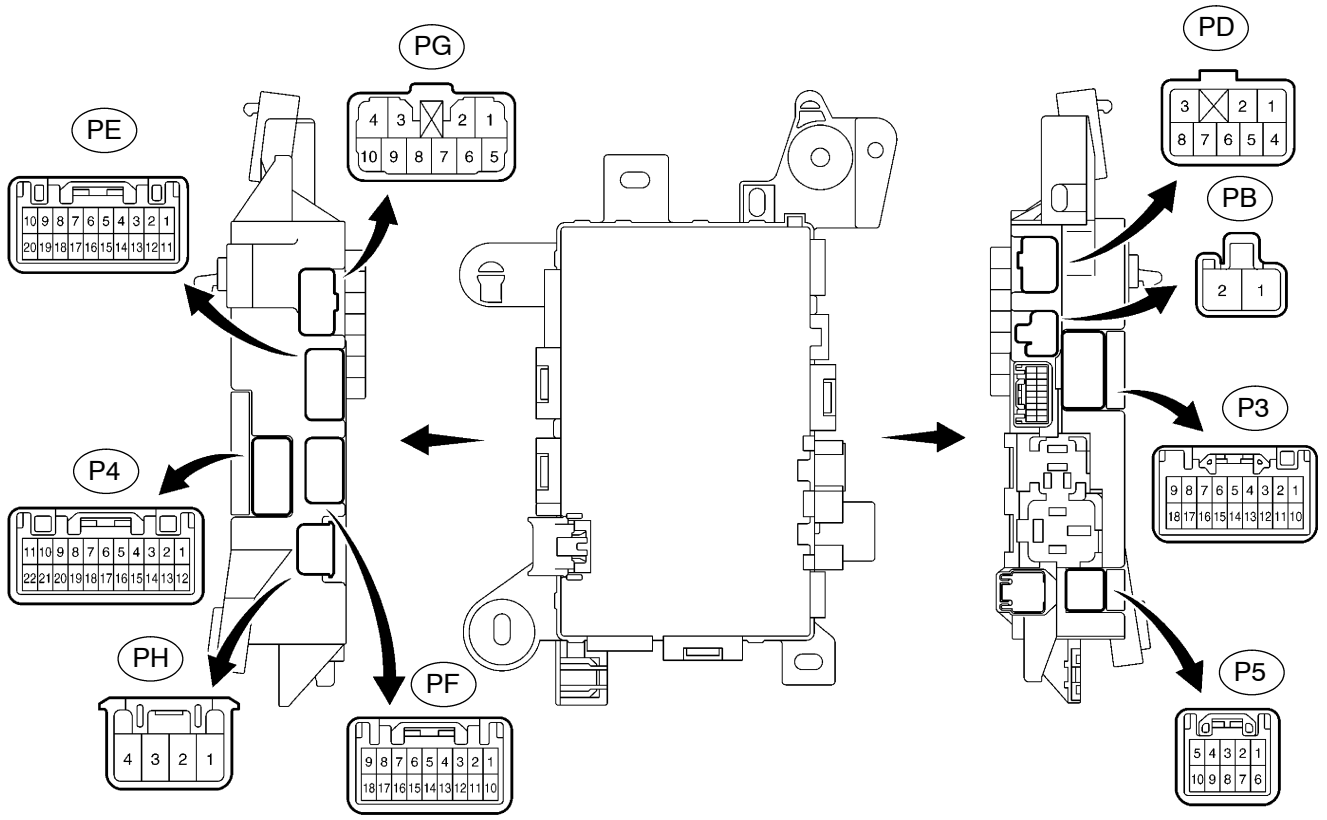
*1: Europe

*2: Variable motor operates from the minimum position to the retract position via the raise–up position.

*3: Variable motor operates from the retract position to the minimum position via raise–up position.

5. RHD:
PASSENGER SIDE JUNCTION BLOCK

Passenger Side Junction Block (Passenger Side J/B ECU)
Connector Front View:



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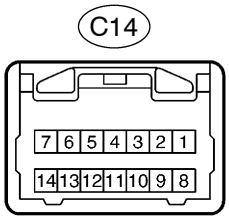
Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
MPX–B (PB–2) – GND (PG–7)	R–L – W–B	Multiplex communication power source circuit	Always	10 to 14 V
WIP (PD–6) – GND (PG–7)	B–R – W–B	Wiper motor power source circuit (To wiper motor)	• Ignition switch OFF • Ignition switch ON	• Below 1 V • 10 to 14 V
WIP (PD–7) – GND (PG–7)	L – W–B	Ignition signal (To IG relay)	• Ignition switch OFF • Ignition switch ON	• Below 1 V • 10 to 14 V
MPX–IG (PE–7) – GND (PG–7)	R–L – W–B	Multiplex communication IG signal circuit	• Ignition switch OFF • Ignition switch ON	• Below 1 V • 10 to 14 V
ACC (PF–2) – GND (PG–7)	W–G – W–B	Ignition switch ACC signal (To ignition switch)	• Ignition switch OFF • Ignition switch ACC	• Below 1 V • 10 to 14 V
GND (PG–7) – Body ground	W–B – Body ground	Ground	Always	Below 1 V
S/M (P3–1) – GND (PG–7)	B – W–B	Wiper motor operation signal (From wiper motor)	• Wiper is operated • Wiper is stopped	• 10 to 14 V • Below 1 V

Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
PA2 (P3–3) – GND (PG–7)	R – W–B	Variable motor position signal (To variable motor)	• Wiper is in raise–up position • Wiper is in except raise–up position	• 10 to 14 V • Below 1 V
PA3 (P3–4) – GND (PG–7)	Y–G – W–B	Variable motor position signal (To variable motor)	• Wiper is in minimum angle position • Wiper is in except minimum angle position	• 10 to 14 V • Below 1 V
MPX–(P3–6) – GND (PG–7)	GR–B – W–B	Multiplex communication signal	Ignition switch ON	Signal waveform
+2 (P3–8) – GND (PG–7)	L–R – W–B	Power source of wiper motor (To wiper motor)	• Wiper switch in HI • Wiper switch in except HI	• 10 to 14 V • Below 1 V
S/S (P3–9) – GND (PG–7)	P – W–B	Power source of wiper motor (To wiper motor)	• Wiper switch in LOW • Wiper switch in except LOW	• 10 to 14 V • Below 1 V
PA1 (P3–10) – GND (PG–7)	R–B – W–B	Variable motor position signal (To variable motor)	• Wiper is in raise–up position • Wiper is in except raise–up position	• Below 1 V • 10 to 14 V
M/F (P3–17) – GND (PG–7)	R–L – W–B	Variable motor operation signal (To variable motor)	• Variable motor rotates in regular direction (*1) • Variable motor is stopped	• 10 to 14 V • Below 1 V
M/B (P3–18) – GND (PG–7)	R–Y – W–B	Variable motor operation signal (To variable motor)	• Variable motor rotates in reverse direction (*2) • Variable motor is stopped	• 10 to 14 V • Below 1 V
GND1 (P4–1) – GND (PG–7)	W–B – W–B	Ground	Always	Below 1 V
2S (P4–20) – GND (PG–7)	W–G – W–B	Wiper switch HI signal (To combination switch)	• Wiper switch in HI • Wiper switch in except HI	• Below 1 V • 10 to 14 V

*1: Variable motor operates from the retract position to the minimum position via the raise–up position.
*2: Variable motor operates from the minimum position to the retract position via the raise–up position.

6. COMBINATION SWITCH

Combination Switch
Connector Front View:



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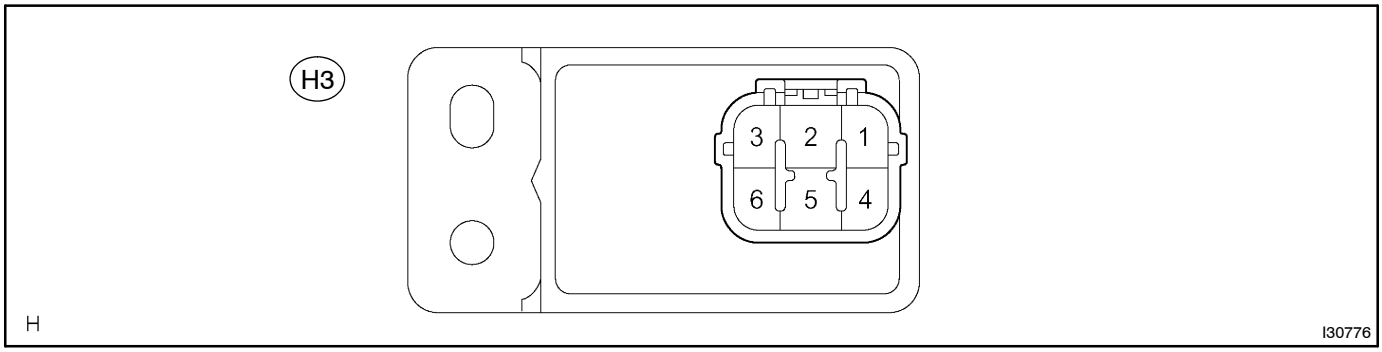
Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
B (C14–1) – E (C14–8)	R–B – W–B	Power source circuit (From battery)	Always	10 to 14 V
IG (C14–2) – E (C14–8)	R–L – W–B	IG signal circuit (To ignition switch)	• Ignition switch OFF • Ignition switch ON	• Below 1 V • 10 to 14 V
2S (C14–3) – E (C14–8)	P – W–B (*1) W–G – W–B (*2)	Wiper switch HI signal	• Wiper switch in except HI • Wiper switch in HI	• 10 to 14 V • Below 1 V
E (C14–8) – Body ground	W–B – Body ground	Ground	Always	Below 1 V
MPX1 (C14–9) – E (C14–8)	V–G – W–B	Multiplex communication signal circuit	Ignition switch ON	Signal waveform
MPX2 (C14–10) – E (C14–8)	V–G – W–B	Multiplex communication signal circuit	Ignition switch ON	Signal waveform
TX1 (C14–11) – E (C14–8) (*1)	B–R – W–B	Back–up communication bus–circuit	Ignition switch ON	Signal waveform
TX+ (C14–11) – E (C14–8) (*2)	R – W–B	Back–up communication bus–circuit	Ignition switch ON	Signal waveform

*1: LHD
*2: RHD

7. HEADLAMP CLEANER CONTROL RELAY



Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
IG (H3–1) – E (H3–5)	R–B – W–B	Ignition switch ON signal (Power source circuit)	• Ignition switch is OFF • Ignition switch is ON	• Below 1 V • 10 to 14 V
PB (H3–2) – E (H3–5)	R–B – W–B	Headlamp cleaner motor operation signal	• Headlamp cleaner motor is stopped • Headlamp cleaner motor is operated	• 10 to 14 V • Below 1 V
HDLO (H3–3) – E (H3–5)	L – W–B	DRL system operation signal	• Daytime running light is not operated • Daytime running light is operated	• Below 1 V • 10 to 14 V
H (H3–4) – E (H3–5)	L–B – W–B	Headlamp cleaner switch operation signal	• Headlamp cleaner switch is OFF • Headlamp switch is in HEAD and headlamp cleaner switch is ON	• Below 14 V • 10 to 1 V
E (H3–5) – Body ground	W–B – Body ground	Body ground	Always	Below 1 V
FRWA (H3–6) – E (H3–5)	P – W–B	Front washer motor operation signal	• Front washer switch is OFF • Front washer switch is ON	• 10 to 14 V • Below 1 V