

FOREWORD

This workshop manual has been prepared to provide information on electrical circuits for the following Hino Vehicles.

Applicable for FC6J, FC9J, FD8J, GD8J, FG8J, GH8J, FL8J, FM8J, FM1A, FM2P, FT8J, GT8J, SG8J series, equipped with J05D-TI, J05E-TI, J08E-TI, A09C, P11C engine

As for maintenance items, refer to the Owner's Manual.

All information and specifications in this manual are based upon the latest product information available at the time of printing.

Hino Motors reserves the right to make changes at any time without prior notice.

Please note that the publications below have also been prepared as relevant service manuals for the components and systems in this vehicles.

Manual Name	Pub. No.
Chassis Workshop Manual	S1-YFCE18K 1/3 S1-YFCE18K 2/3 S1-YFCE18K 3/3
J05D-TI, J05E-TI Engine Workshop Manual	S5-YJ05E12D
J08E-TI Engine Workshop Manual	S5-YJ08E29E
A09C Engine Workshop Manual	S5-MA09E02A
P11C-TI Engine Workshop Manual	S5-YP11E07B

Hino Motors, Ltd.

HINO

INDEX: CHASSIS GROUP

ELECTRIC WIRE

WORKSHOP MANUAL

Hino Motors, Ltd.

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ELECTRIC WIRE

EL02-001

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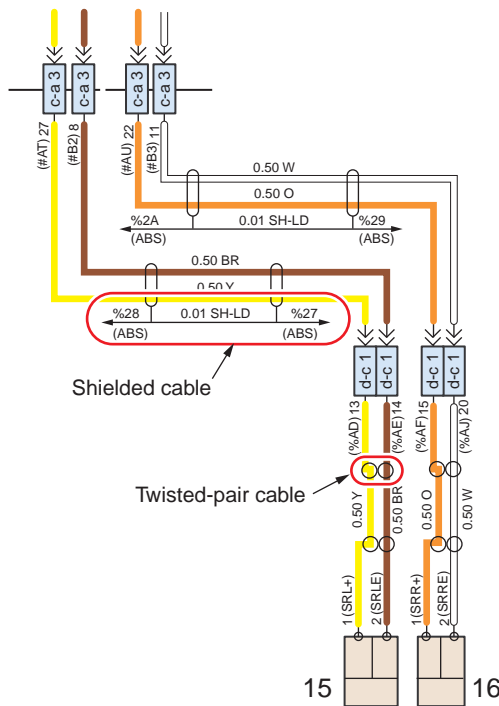
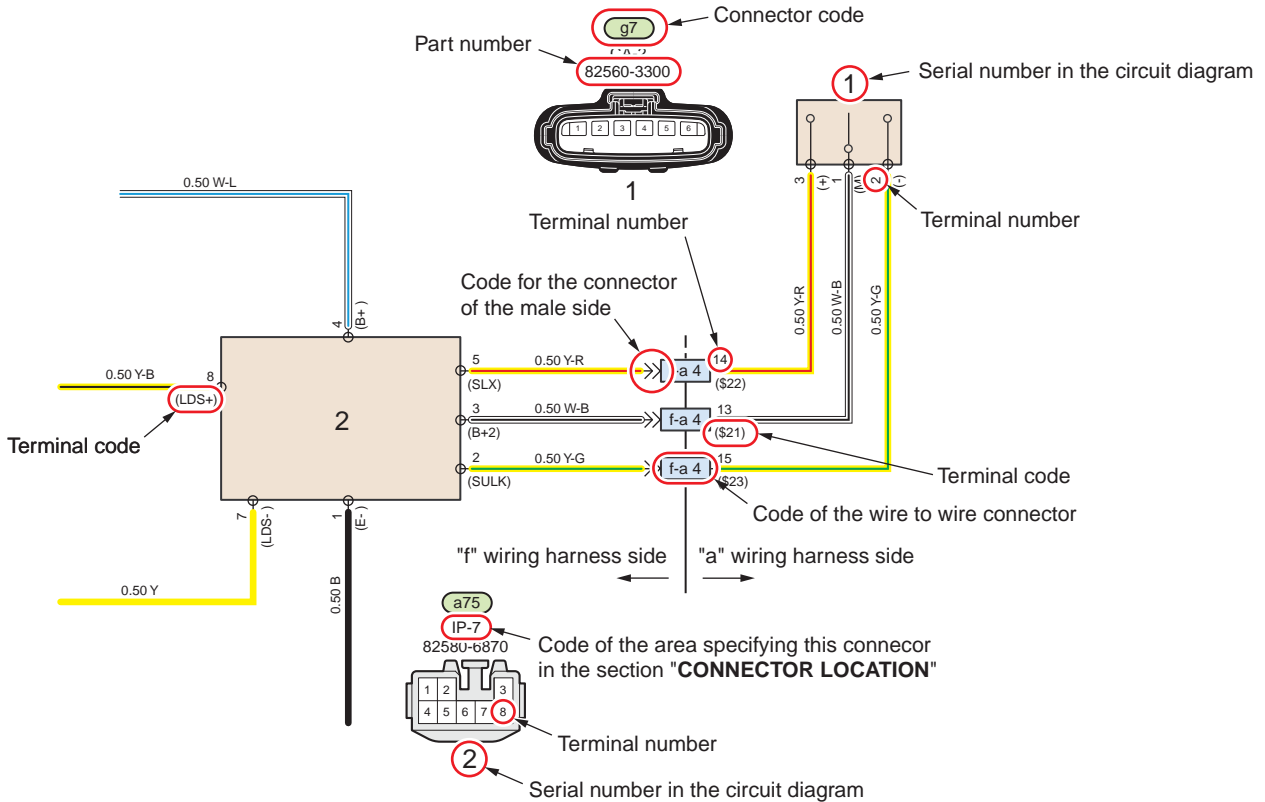
DIAGRAM

HOW TO USE THIS CHAPTER

EN12Z1602J100001

1. WIRING DIAGRAM

(EXAMPLE)



Wiring color code

3.00 R-Y

Second letter: Stripe color

Second letter: Stripe color

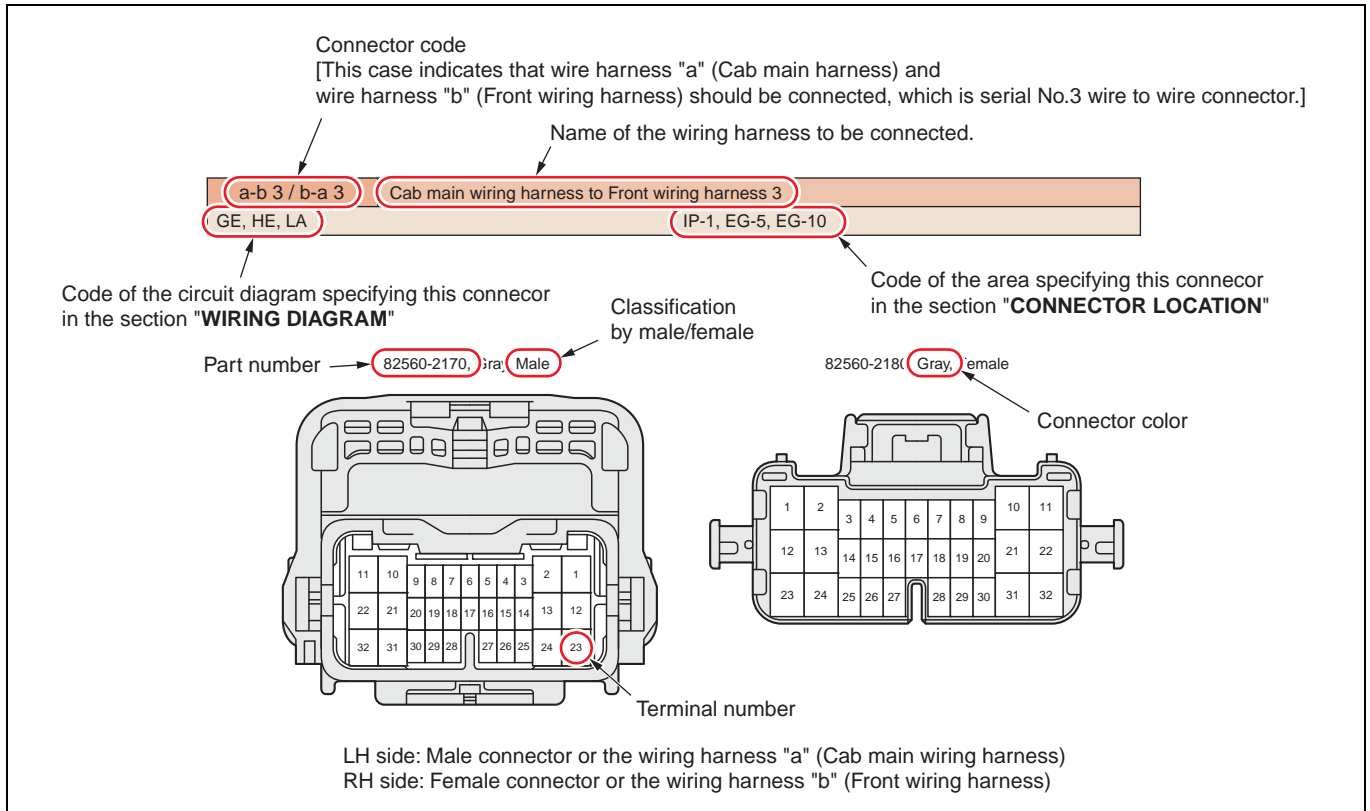
First letter: Ground wire color

Arabic numerals: Cross sectional area of wire

※ Example: 3.00 indicates 3 mm² {0.0047 in.²}

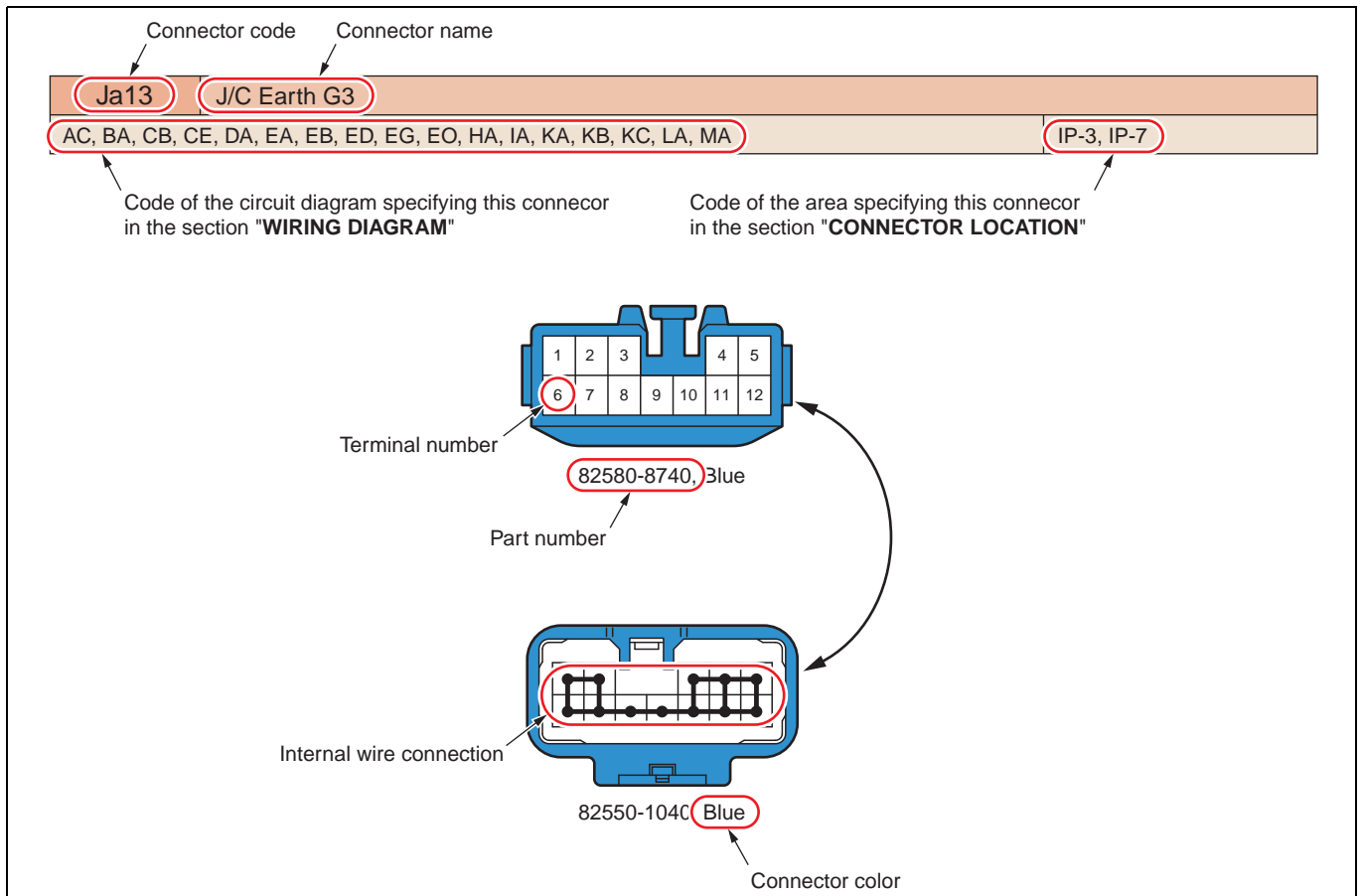
— B: Black	— W: White
— BR: Brown	— Y: Yellow
— G: Green	— V: Violet
— L: Blue	— O: Orange
— LG: Light Green	— GR: Gray
— R: Red	— P: Pink

2. WIRE TO WIRE CONNECTOR



SHTS12Z160200002

3. JUNCTION CONNECTOR



SHTS12Z160200003

4. CONNECTOR LOCATION

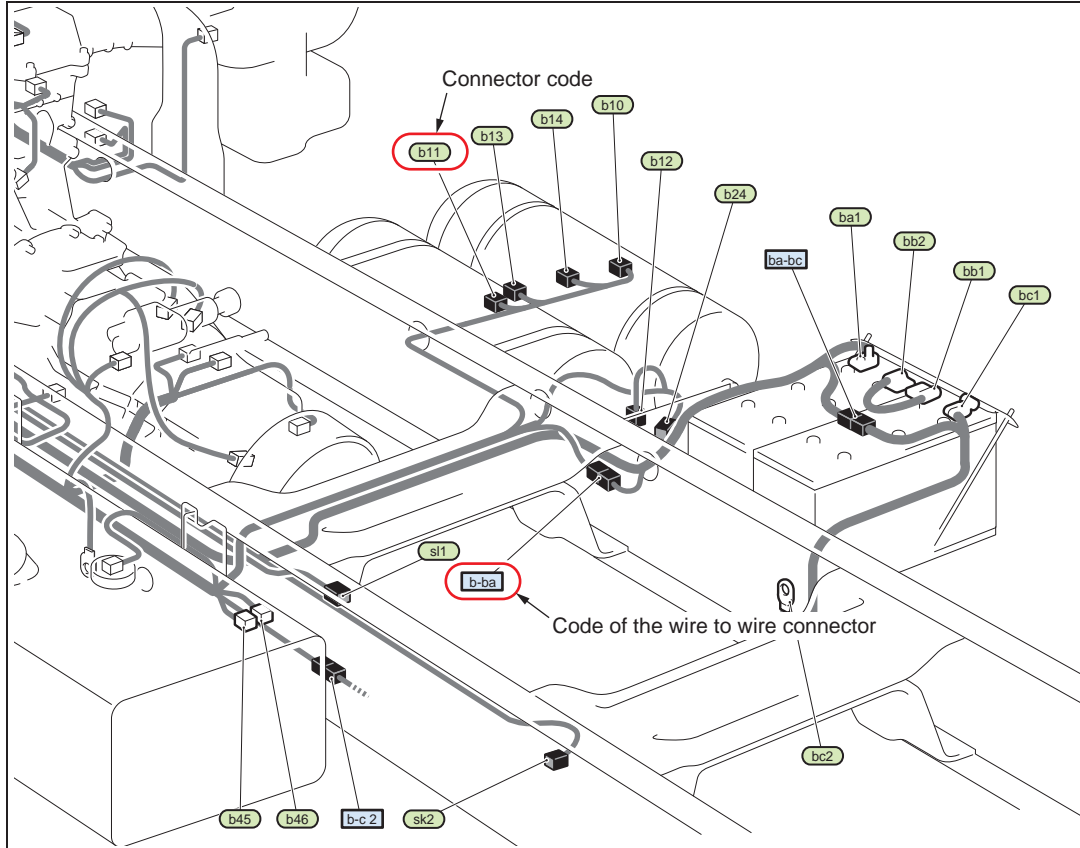
(EXAMPLE)

Code of the area

ELECTRIC WIRE

EL02-205

EG-26 ENGINE (3 of 3)] (Model: FM8J for Chile)



SHTS12Z160200166

ELECTRICAL EQUIPMENT CONNECTOR AND JUNCTION CONNECTOR

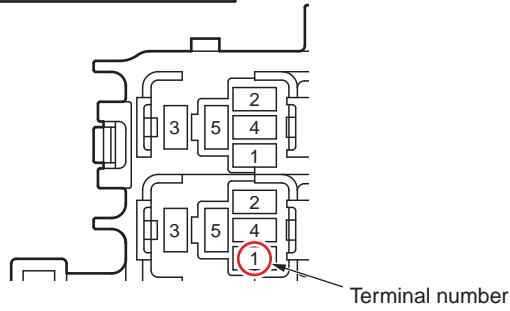
No.	Name	Circuit	No.	Name	Circuit
b10	Low pressure switch 1	BB	ba1	Battery (+) terminal (Battery 2)	AA
b11	Low pressure switch 2	BB	bb1	Battery (+) terminal (Battery 1)	AA
b12	Low pressure switch 3	BB	bb2	Battery (-) terminal (Battery 2)	AA
b13	Air gauge sensor (Front)	BB	bc1	Battery (-) terminal (Battery 1)	AA
b14	Air gauge sensor (Rear)	BB	bc2	Battery ground	AA, BA, MA
b24	Exhaust brake magnetic valve	GE	sk2	P.T.O. magnetic valve	KB
b45	Dump up switch	KB	sl1	P.T.O. accelerator sensor	GK
b46	Service power (Tail)	AB			

WIRE TO WIRE CONNECTOR

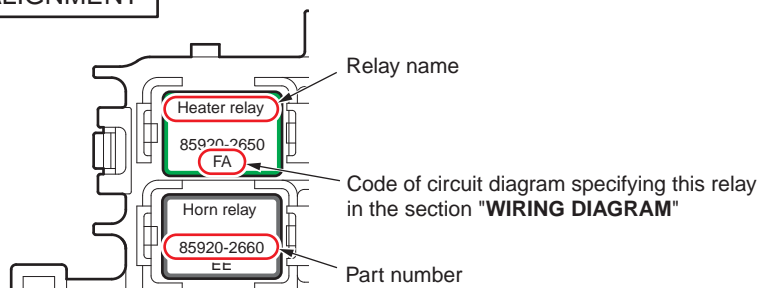
No.	Name	No.	Name
b-c 2	Front wiring harness to Intermediate wiring harness 2	ba-bc	Battery cable-1 to Battery cable-3
b-ba	Front wiring harness to Battery cable-1_1		

5. FUSE AND RELAY BLOCK

FUSE AND RELAY BLOCK
TERMINAL ALIGNMENT



RELAY ALIGNMENT



6. CONNECTOR INDEX

(EXAMPLE)

EL02-192

ELECTRIC WIRE

CONNECTOR INDEX

Code of the circuit diagram specifying this connector in the section "WIRING DIAGRAM"

ELECTRICAL EQUIPMENT CONNECTOR

NAME		CONNECTOR No.	PART No.	CIRCUIT OR AREA
A	ABS diagnosis switch	a100	82560-4100	HB IP-4, 8

WIRE TO WIRE CONNECTOR

CONNECTOR No.	NAME	PART No.		CIRCUIT OR AREA
		MALE	FEMALE	
a-b 1	Cab main wiring harness to Front wiring harness 1	82560-2110	82560-2120	AA, AB, AD, AG, BA, BG, BH, CA, CB, CE, CH, CI, GA, GB, GC, GE, HA, HB, HC, HE, IA, LA, LE, MA IP-1, 5, EG-1, 2, 3, 5, 6, 10, 11, 16, 17

JUNCTION CONNECTOR

CONNECTOR No.	NAME	PART No.	CIRCUIT OR AREA
a606	J/C ETC 14P	82560-3790 25880-1170	FA, IE IP-2

Code of the area specifying this connector in the section "CONNECTOR LOCATION"

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EN12Z1602J10002

WIRING DIAGRAM

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	C METER CIRCUIT [EXCEPT MODELS FOR INDONESIA, PHILIPPINES, VIETNAM (3 of 3)]	EL02-34
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CODE	AREA		SPECIFICATION	PAGE
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• QUICK REFERENCE

STEERING POSITION	DESTINATION	MODEL	SPECIFICATION	INSTRUMENT PANEL	CAB	ENGINE	REAR	
Right	Australia	FC	—	IP-1, 2, 3, 4	CA-1	EG-1, 3, 4	RR-1	
		FD, GD	Single cab	IP-1, 2, 3, 4	CA-1	EG-5, 7, 8	RR-1	
			Double cab	IP-1, 2, 3, 4	CA-3	EG-9, 10, 11	RR-1	
		FG, GH	Single cab (Manual transmission)	IP-1, 2, 3, 4	CA-1	EG-12, 15, 18	RR-1	
			Double cab (Manual transmission)	IP-1, 2, 3, 4	CA-3	EG-19, 20, 21	RR-1	
			Automatic transmission	IP-1, 2, 3, 4	CA-1	EG-12, 16, 18	RR-1	
		FL	—	IP-1, 2, 3, 4	CA-1	EG-23, 29, 31	RR-2	
		FM	—	IP-1, 2, 3, 4	CA-1	EG-23, 27, 31	RR-2	
		FM1A	—	IP-1, 2, 3, 4	CA-1	EG-39, 40, 41	RR-2	
		FT, GT	Single cab	IP-1, 2, 3, 4	CA-1	EG-36, 37, 38	RR-1	
	Double cab		IP-1, 2, 3, 4	CA-3	EG-19, 20, 22	RR-1		
	Hong Kong	FD	—	IP-1, 2, 3, 4	CA-1	EG-5, 7, 8	RR-1	
		FG, GH	—	IP-1, 2, 3, 4	CA-1	EG-12, 15, 18	RR-1	
	Indonesia	FG	—	IP-1, 2, 3, 4	CA-1	EG-13, 15, 17	RR-1	
		FL, FM8J	—	IP-1, 2, 3, 4	CA-1	EG-24, 29, 31	RR-2	
		FM2P	—	IP-1, 2, 3, 4	CA-1	EG-26, 33, 34	RR-3	
		SG	—	IP-1, 2, 3, 4	CA-1	EG-39, 40, 41	RR-4	
	Ireland	GH	—	IP-1, 2, 3, 4	CA-1	EG-12, 15, 18	RR-3	
	New Zealand	FC	—	IP-1, 2, 3, 4	CA-1	EG-1, 3, 4	RR-1	
		FD, GD	Single cab	IP-1, 2, 3, 4	CA-1	EG-5, 7, 8	RR-1	
			Double cab	IP-1, 2, 3, 4	CA-3	EG-9, 10, 11	RR-1	
		FG, GH	Single cab (Manual transmission)	IP-1, 2, 3, 4	CA-1	EG-12, 15, 18	RR-1	
			Double cab (Manual transmission)	IP-1, 2, 3, 4	CA-3	EG-19, 20, 21	RR-1	
			Automatic transmission	IP-1, 2, 3, 4	CA-1	EG-12, 16, 18	RR-1	
		FM	—	IP-1, 2, 3, 4	CA-1	EG-23, 27, 31	RR-2	
		FM1A	—	IP-1, 2, 3, 4	CA-1	EG-39, 40, 41	RR-2	
		GT	Single cab	IP-1, 2, 3, 4	CA-1	EG-36, 37, 38	RR-1	
			Double cab	IP-1, 2, 3, 4	CA-3	EG-19, 20, 22	RR-1	
		Singapore	FD	—	IP-1, 2, 3, 4	CA-1	EG-5, 7, 8	RR-1
			GH	—	IP-1, 2, 3, 4	CA-1	EG-12, 15, 18	RR-1
		Thailand	FC	—	IP-1, 2, 3, 4	CA-1	EG-1, 3, 4	RR-1
			FG	—	IP-1, 2, 3, 4	CA-1	EG-12, 15, 17	RR-1
	FL, FM8J		Except tractor	IP-1, 2, 3, 4	CA-1	EG-23, 29, 31	RR-2	
			Tractor	IP-1, 2, 3, 4	CA-1	EG-23, 30, 31	RR-3	
	FM1A		Except tractor	IP-1, 2, 3, 4	CA-1	EG-32, 33, 35	RR-2	
			Tractor	IP-1, 2, 3, 4	CA-1	EG-32, 34, 35	RR-3	
	FM2P		Except tractor	IP-1, 2, 3, 4	CA-1	EG-27, 32, 34	RR-2	
		Tractor	IP-1, 2, 3, 4	CA-1	EG-27, 33, 34	RR-3		
	India	FL, FM	—	IP-1, 2, 3, 4	CA-1	EG-23, 30, 34	RR-2	
	Left	Chile	FC	—	IP-5, 6, 7, 8	CA-2	EG-2, 3, 4	RR-1
			GD	—	IP-5, 6, 7, 8	CA-2	EG-6, 7, 8	RR-1
			GH	—	IP-5, 6, 7, 8	CA-2	EG-14, 15, 18	RR-1
FM			—	IP-5, 6, 7, 8	CA-2	EG-25, 29, 31	RR-2	

STEERING POSITION	DESTINATION	MODEL	SPECIFICATION	INSTRUMENT PANEL	CAB	ENGINE	REAR
Left	Colombia	FC	—	IP-5, 6, 7, 8	CA-2	EG-2, 3, 4	RR-1
		GD	—	IP-5, 6, 7, 8	CA-2	EG-6, 7, 8	RR-1
		FG	—	IP-5, 6, 7, 8	CA-2	EG-14, 15, 18	RR-1
	Ecuador	FC	—	IP-5, 6, 7, 8	CA-2	EG-2, 3, 4	RR-1
		GD	—	IP-5, 6, 7, 8	CA-2	EG-6, 7, 8	RR-1
		GH	—	IP-5, 6, 7, 8	CA-2	EG-14, 15, 18	RR-1
	Mexico	FC	—	IP-5, 6, 7, 8	CA-2	EG-2, 3, 4	RR-1
		FG, GH	—	IP-5, 6, 7, 8	CA-2	EG-14, 15, 18	RR-1
	Philippines	FC	—	IP-5, 6, 7, 8	CA-2	EG-2, 3, 4	RR-1
		FG	—	IP-5, 6, 7, 8	CA-2	EG-14, 15, 17	RR-1
	Taiwan	FC	—	IP-5, 6, 7, 8	CA-2	EG-2, 3, 4	RR-1
		FD	—	IP-5, 6, 7, 8	CA-2	EG-6, 7, 8	RR-1
		FG, GH	—	IP-5, 6, 7, 8	CA-2	EG-14, 15, 18	RR-1
	Vietnam	FC	—	IP-5, 6, 7, 8	CA-2	EG-2, 3, 4	RR-1
		FG	—	IP-5, 6, 7, 8	CA-2	EG-14, 15, 17	RR-1
		FL	—	IP-5, 6, 7, 8	CA-2	EG-25, 30, 34	RR-2
FM2P		—	IP-5, 6, 7, 8	CA-2	EG-28, 32, 34	RR-2	

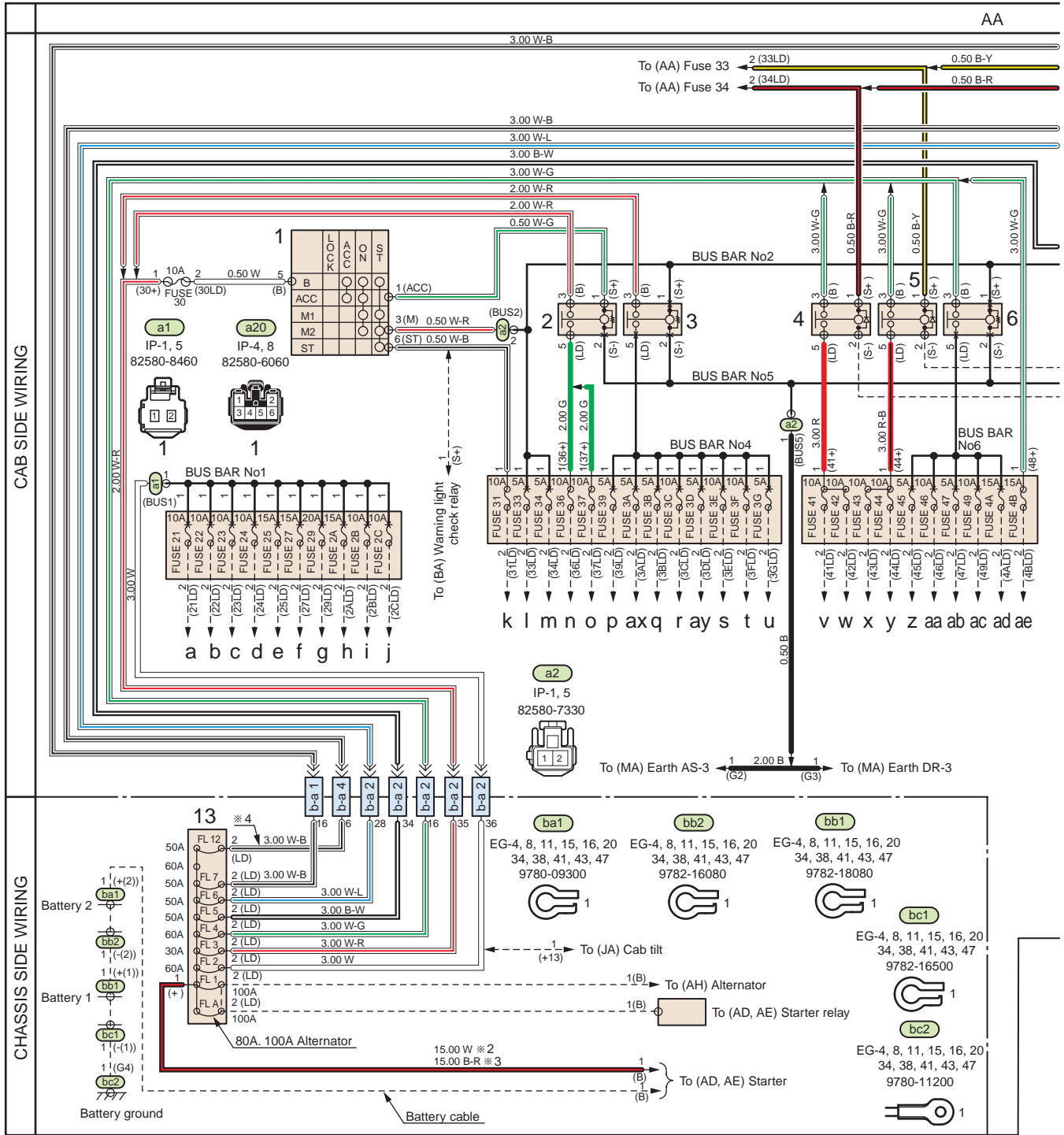
WIRING DIAGRAM

EN12Z1602J10003

NOTICE

There is a case that the circuit diagrams in this section are different from that for your vehicle due to the model or specification.

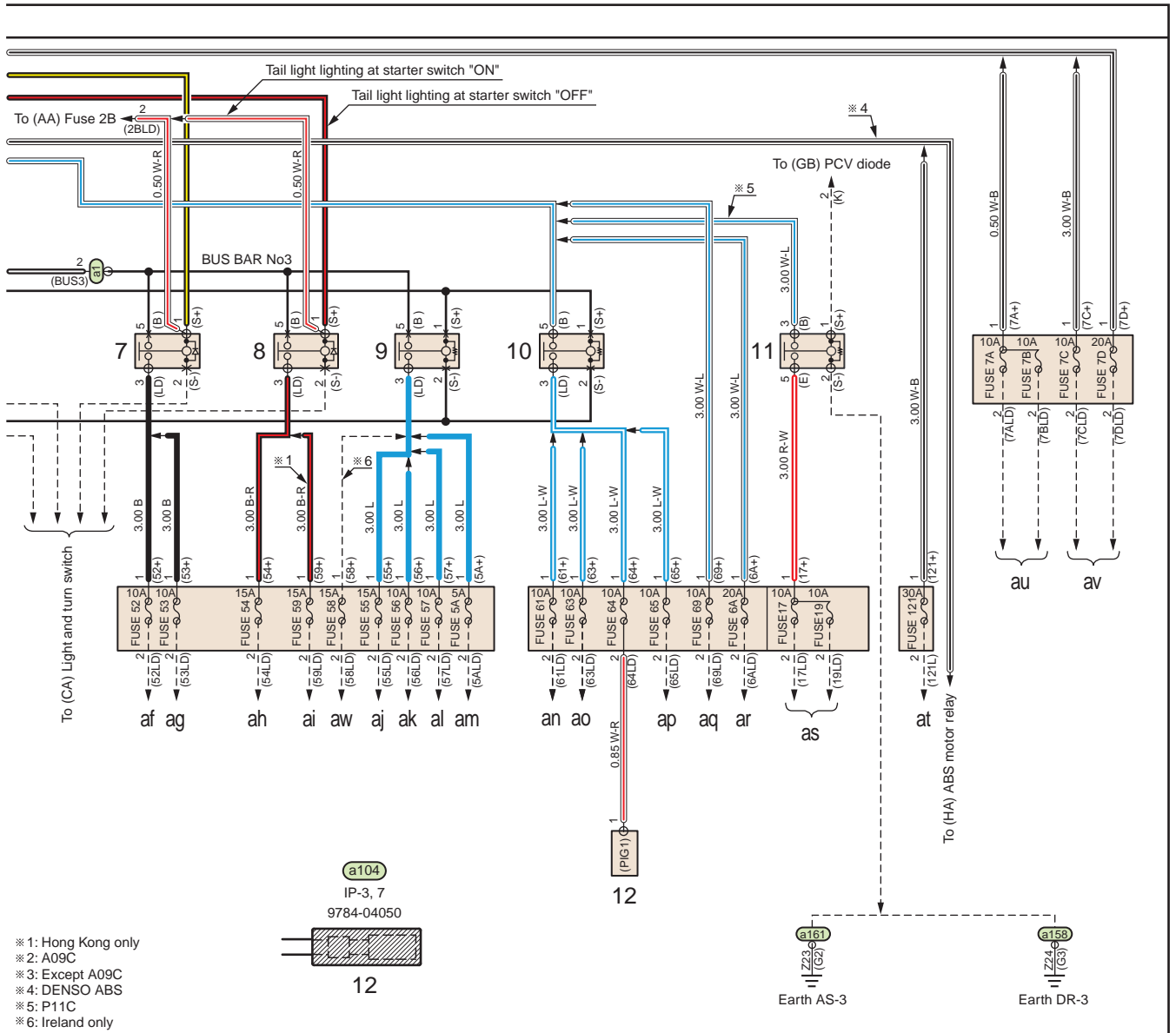
WIRING HARNESS CODE	
CODE	NAME
a	Cab main wiring harness
b	Front wiring harness
c	Intermediate wiring harness
d	Rear wiring harness
e	Intermediate+rear wiring harness
f	Door (RH) wiring harness
g	Door (LH) wiring harness
h	Roof wiring harness
i	Floor wiring harness
j	Rear door (RH) wiring harness
k	Rear door (LH) wiring harness
ba	Battery cable 1 (Starter to Battery)
bb	Battery cable 2 (Battery to Battery)
bc	Battery cable 3 (Battery to Ground)
ea	Engine wiring harness 1 (J05D, J05E, J08E)
eb	Engine wiring harness 2
ec	Engine wiring harness 3
ed	Engine wiring harness 1 (A09C)
ee	Engine wiring harness (P11C)
ia	Injector sub wiring harness (J05D, J05E, J08E)
ib	Injector sub wiring harness (A09C)
ic	Injector sub wiring harness (P11C)
id	Link-up connector
sa	Air tank sub wiring harness
sb	Automatic transmission sub wiring harness
sc	Brake lock sub wiring harness
sd	Brake lock (Buzzer) sub wiring harness
se	Brake lock (Pressure switch) sub wiring harness
sf	Floor panel sub wiring harness
sg	Fuel tank sub wiring harness
sh	Headlight sub wiring harness
si	Side turn signal light sub wiring harness
sj	Pre-heating sub wiring harness
sk	Transmission P.T.O. sub wiring harness
sl	Working accelerator control sub wiring harness
sm	Air flow sensor sub wiring harness



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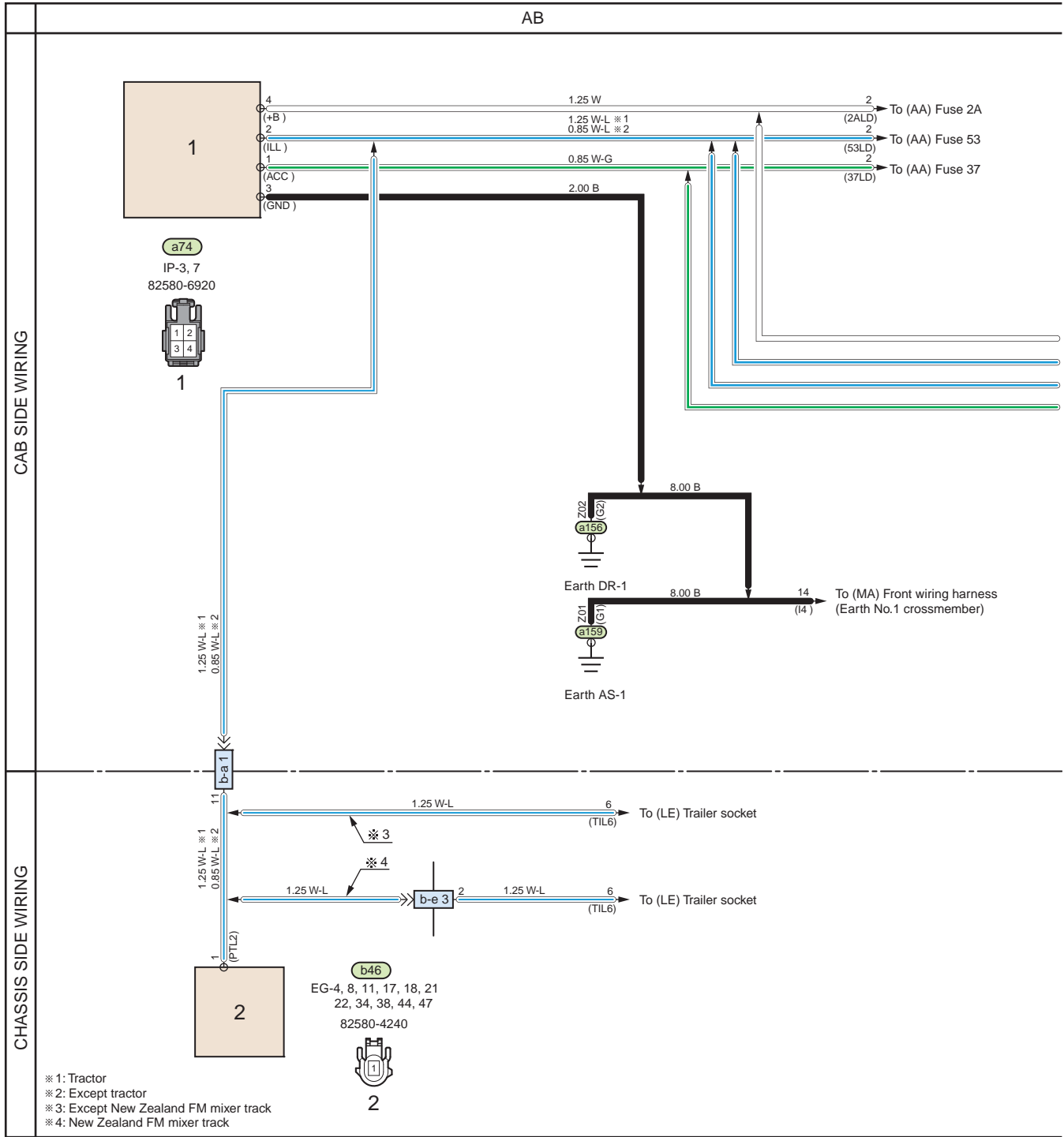
AA. POWER SUPPLY CIRCUIT

- 1. Starter switch
 - 2. Power accessory relay
 - 3. Power relay No.1
 - 4. Headlight relay (Main)
 - 5. Headlight relay (Dimmer)
 - 6. Power relay No.2
 - 7. Tail light relay No.1
 - 8. Tail light relay No.2
 - 9. Power relay No.3
 - 10. Power relay No.4
 - 11. PCV relay
 - 12. Service power (Ignition)
 - 13. Fusible link block
- a. To (GB, GC, GD) Common rail (Actuator), (GJ) Engine stop motor
 - b. To (GA, GB, GC, GD) Common rail (Main), (GE) TICS (Main)
 - c. To (BA, BD) Meter, (BG) Tachograph, (BI) Drive master, (EJ) Radio (+B)
 - d. To (CB) Turn signal flasher, (EM) Integrated unit
 - e. To (DA) Dome light, (EA, EB) Power door lock, (EL) Keyless entry, (EM) Integrated unit, (GC) Common rail, (JA, JB) Cab tilt, (LB) Diagnosis connector (16 pin)
 - f. To (HB) ABS (WABCO)
 - g. To (EH, EI) Power window
 - h. To (AB, AC) Spare power source (+B), (CK) Spot light
 - i. To (AA) Tail light relay (Excitation), (CB) Parking light
 - j. To (HA) ABS+ES start, (HC) ES start, (ID) Automatic transmission
 - k. To (AD, AE) Starter, (GA, GB, GC, GD) Common rail, (GE) TICS
 - l. To (AA) Tail light relay No.1 (Excitation)



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- m. To (AA) Tail light relay No.2 (Excitation)
- n. To (BI) Drive master, (EF) Cigarette lighter, (EJ) Radio (ACC), (EL) Keyless entry
- o. To (AB, AC) Spare power source (ACC)
- p. To (GA, GB, GC, GD) Common rail, (GE) TICS, (LG) VCS ECU
- q. To (HC) ES start controller
- r. To (BA, BD) Meter, (BC) Buzzer cancel switch, (BG) Tachograph
- s. To (HA) ABS+ES start, (HB) ABS (WABCO)
- t. To (AH) Alternator
- u. To (GJ) Engine stop motor relay,
- v. To (CA) Headlight RH (Main)
- w. To (CA) Headlight LH (Main)
- x. To (CA) Headlight RH (Dimmer), (EO) Headlight washer
- y. To (CA) Headlight LH (Dimmer)
- z. To (EE) Horn
- aa. To (EC, EM) Wiper, (EO) Washer pump motor
- ab. To (GG) Exhaust brake
- ac. To (CB) Stop light relay, (EM) Integrated unit
- ad. To (FA) Air conditioner relay
- ae. To (FA) Blower motor
- af. To (CB, EM) Tail light, clearance light, (CF, CH) License plate light
- ag. To (AB, AC) Spare power source (ILL), (LE) Trailer socket
- ah. To (BA, BD) Meter, (BF) Hour meter, (BG) Tachograph, (CB) Trailer socket, (CE) Headlight leveling, (CI) Fog light, (EJ) Radio (ILL), (EO) Headlight washer switch, (FA) Air conditioner switch (IND+), (GK) Cruise main switch
- ai. To (EO) Headlight washer pump motor
- aj. To (AD) Neutral switch, (BF) Hour meter, (CJ) Autoleveling, (EH, EI) Power window, (EM) Integrated unit, (EO) Headlight washer, (HD) Brake lock, (LA) Diagnosis monitor
- ak. To (ED) Power mirror
- al. To (CF, CG, CH, ID) Backup light, (HF) Inter-axle differential lock, (IA, IB) Lo-Hi indicator light relay
- am. To (HE) Electromagnetic retarder
- an. To (GE) TICS (Actuator)
- ao. To (CG, ID) Automatic transmission, (LD) Transfer control
- ap. To (KA, KB, KC, LD) Transmission P.T.O.
- aq. To (FA) Air conditioner condenser relay
- ar. To (EH) Rear power window
- as. To (GB) PCV relay
- at. To (HA) ABS solenoid relay
- au. To (LG) VCS ECU
- av. To (GM, GO) Common rail
- aw. To (EK) Mirror heater
- ax. To (ER) Air bag ECU
- ay. To (ER) Air bag ECU



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AB. ETC. SPARE POWER SUPPLY CIRCUIT

1. ETC. spare power supply connector
2. Service power (Tail)