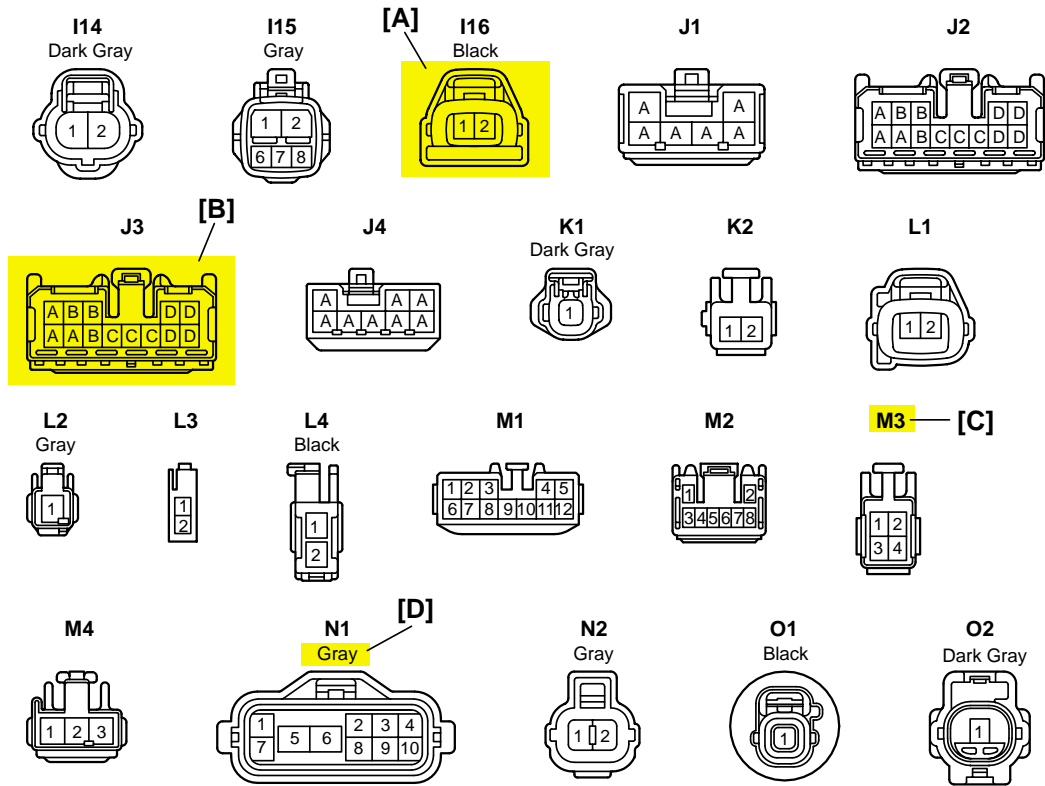


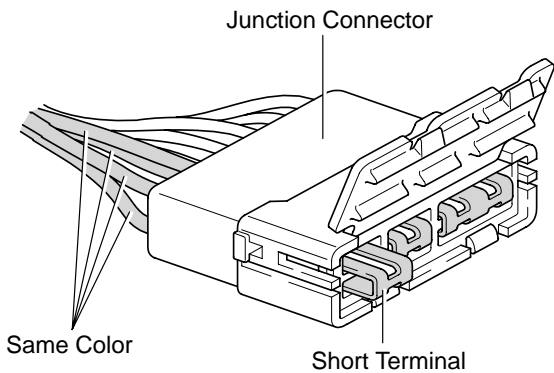
B HOW TO USE THIS MANUAL

K CONNECTOR LIST



[A] : Indicates connector to be connected to a part. (The numeral indicates the pin No.)

[B] : Junction Connector
Indicates a connector which is connected to a short terminal.

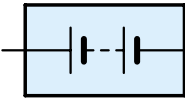

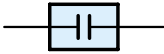
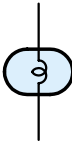


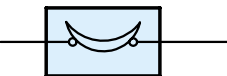


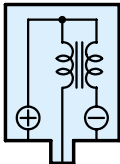




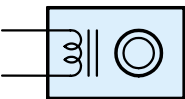

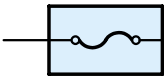
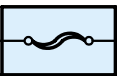





Junction connector in this manual include a short terminal which is connected to a number of wire harnesses. Always perform inspection with the short terminal installed. (When installing the wire harnesses, the harnesses can be connected to any position within the short terminal grouping. Accordingly, in other vehicles, the same position in the short terminal may be connected to a wire harness from a different part.)
Wire harness sharing the same short terminal grouping have the same color.

[C] : Parts Code
The first letter of the code is taken from the first letter of part, and the numbers indicates its order in parts which start with the same letter.

[D] : Connector Color
Connectors not indicated are milky white in color.

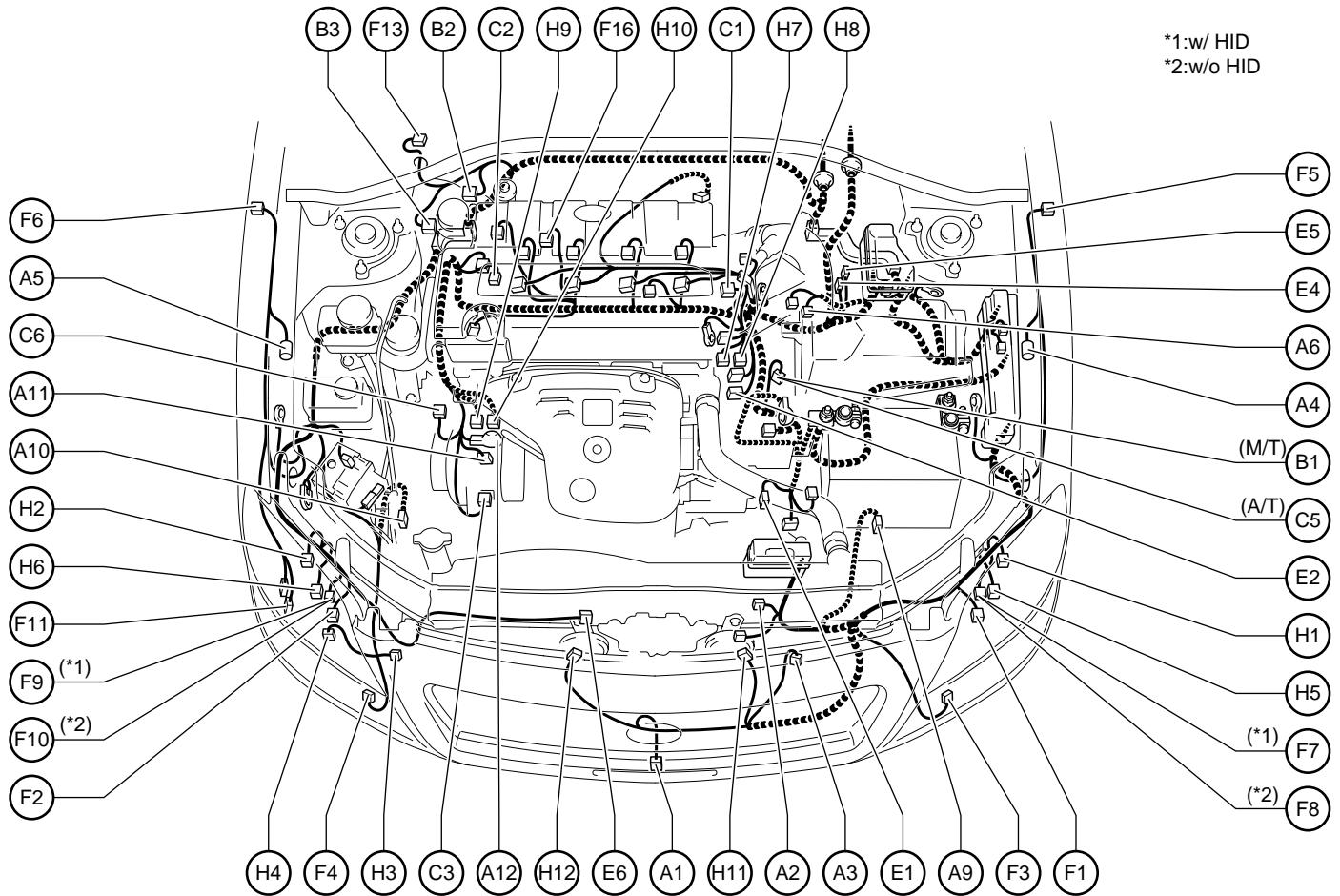
E GLOSSARY OF TERMS AND SYMBOLS

 <p>BATTERY Stores chemical energy and converts it into electrical energy. Provides DC current for the auto's various electrical circuits.</p>	 <p>GROUND The point at which wiring attaches to the Body, thereby providing a return path for an electrical circuit; without a ground, current cannot flow.</p>
 <p>CAPACITOR (Condenser) A small holding unit for temporary storage of electrical voltage.</p>	<p>HEADLIGHTS Current flow causes a headlight filament to heat up and emit light. A headlight may have either a single (1) filament or a double (2) filament</p> <p>1. SINGLE FILAMENT</p>  <p>2. DOUBLE FILAMENT</p> 
 <p>CIGARETTE LIGHTER An electric resistance heating element.</p>	
 <p>CIRCUIT BREAKER Basically a reusable fuse, a circuit breaker will heat and open if too much current flows through it. Some units automatically reset when cool, others must be manually reset.</p>	 <p>HORN An electric device which sounds a loud audible signal.</p>
 <p>DIODE A semiconductor which allows current flow in only one direction.</p>	 <p>IGNITION COIL Converts low-voltage DC current into high-voltage ignition current for firing the spark plugs.</p>
 <p>DIODE, ZENER A diode which allows current flow in one direction but blocks reverse flow only up to a specific voltage. Above that potential, it passes the excess voltage. This acts as a simple voltage regulator.</p>	 <p>LIGHT Current flow through a filament causes the filament to heat up and emit light.</p>
 <p>PHOTODIODE The photodiode is a semiconductor which controls the current flow according to the amount of light.</p>	 <p>LED (LIGHT EMITTING DIODE) Upon current flow, these diodes emit light without producing the heat of a comparable light.</p>
 <p>DISTRIBUTOR, IIA Channels high-voltage current from the ignition coil to the individual spark plugs.</p>	 <p>METER, ANALOG Current flow activates a magnetic coil which causes a needle to move, thereby providing a relative display against a background calibration.</p>
 <p>FUSE A thin metal strip which burns through when too much current flows through it, thereby stopping current flow and protecting a circuit from damage.</p>  <p>FUSIBLE LINK A heavy-gauge wire placed in high amperage circuits which burns through on overloads, thereby protecting the circuit. The numbers indicate the crosssection surface area of the wires.</p>  <p>(for High Current Fuse or Fusible Link)</p>	 <p>METER, DIGITAL Current flow activates one or many LED's, LCD's, or fluorescent displays, which provide a relative or digital display.</p>
	 <p>MOTOR A power unit which converts electrical energy into mechanical energy, especially rotary motion.</p>

G ELECTRICAL WIRING ROUTING

Position of Parts in Engine Compartment

[RHD : 1AZ-FSE]



*1:w/ HID
*2:w/o HID

- A 1 A/C Ambient Temp. Sensor
- A 2 A/C Condenser Fan Motor
- A 3 A/C Pressure Sensor
- A 4 ABS Speed Sensor Front LH
- A 5 ABS Speed Sensor Front RH
- A 6 Air Flow Meter
- A 9 Airbag Sensor Front LH
- A10 Airbag Sensor Front RH
- A11 Alternator
- A12 Alternator

- B 1 Back-Up Light SW
- B 2 Brake Booster Pressure Sensor
- B 3 Brake Fluid Level Warning SW

- C 1 Camshaft Position Sensor
- C 2 Camshaft Timing Oil Control Valve
- C 3 Compressor Assembly
- C 5 Counter Gear Speed Sensor
- C 6 Crankshaft Position Sensor

- E 1 ECT Solenoid
- E 2 EFI Water Temp. Sensor
- E 4 Electronic Driver Unit
- E 5 Electronic Driver Unit
- E 6 Engine Hood Courtesy SW

- F 1 Front Clearance Light LH
- F 2 Front Clearance Light RH

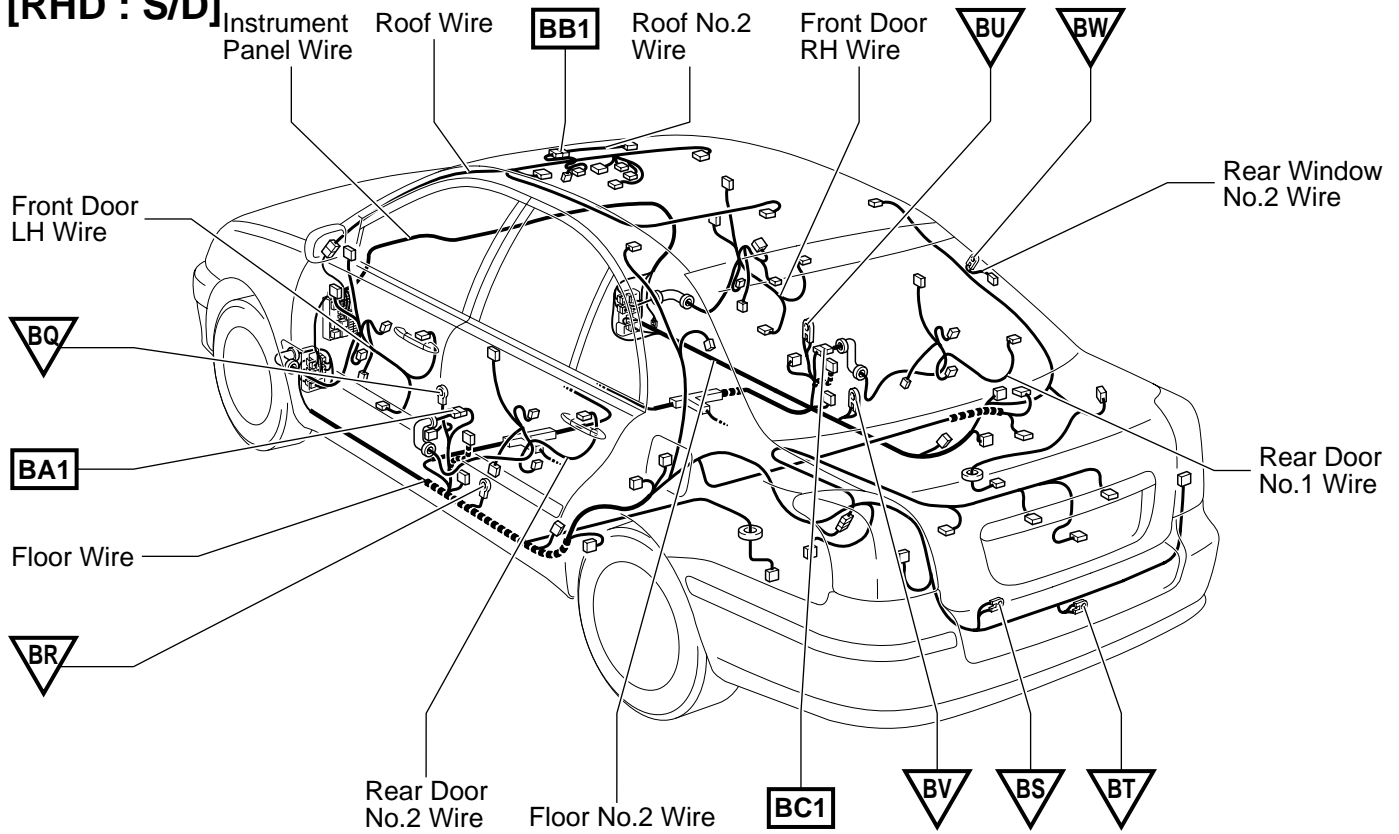
- F 3 Front Fog Light LH
- F 4 Front Fog Light RH
- F 5 Front Side Turn Signal Light LH
- F 6 Front Side Turn Signal Light RH
- F 7 Front Turn Signal Light LH
Headlight Control ECU LH
- F 8 Front Turn Signal Light LH
Headlight LH (Low)
- F 9 Front Turn Signal Light RH
Headlight Control ECU RH
- F10 Front Turn Signal Light RH
Headlight RH (Low)
- F11 Front Washer Motor
- F13 Front Wiper Motor
- F16 Fuel Pressure Sensor

- H 1 Headlight Beam Level Control Actuator LH
- H 2 Headlight Beam Level Control Actuator RH
- H 3 Headlight Cleaner Control Relay
- H 4 Headlight Cleaner Motor
- H 5 Headlight LH (High)
- H 6 Headlight RH (High)
- H 7 Heated Oxygen Sensor (Bank 1 Sensor 1)
- H 8 Heated Oxygen Sensor (Bank 1 Sensor 2)
- H 9 Heated Oxygen Sensor (Bank 2 Sensor 1)
- H10 Heated Oxygen Sensor (Bank 2 Sensor 2)
- H11 Horn LH
- H12 Horn RH

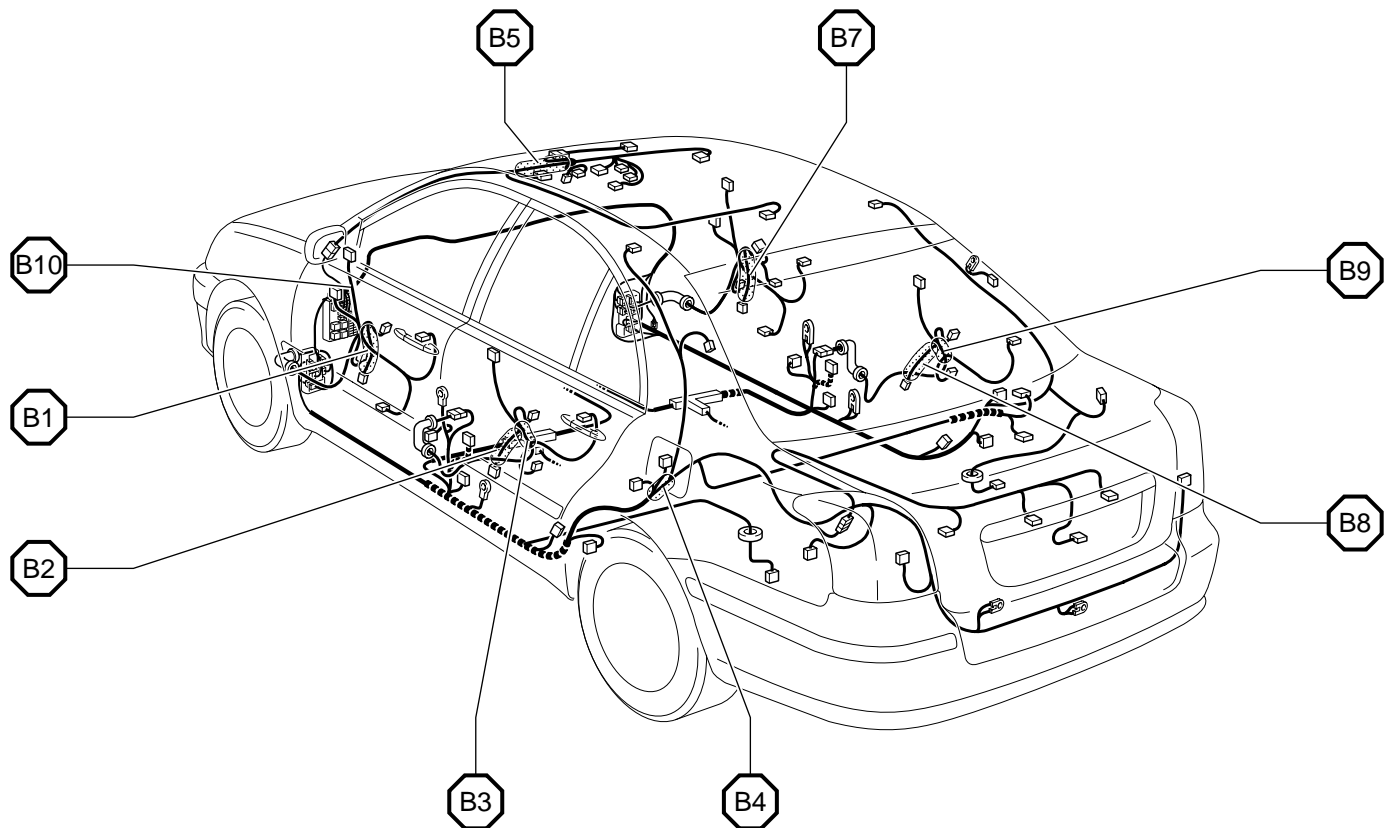
G ELECTRICAL WIRING ROUTING

□ : Location of Connector Joining Wire Harness and Wire Harness
 ▽ : Location of Ground Points

[RHD : S/D]

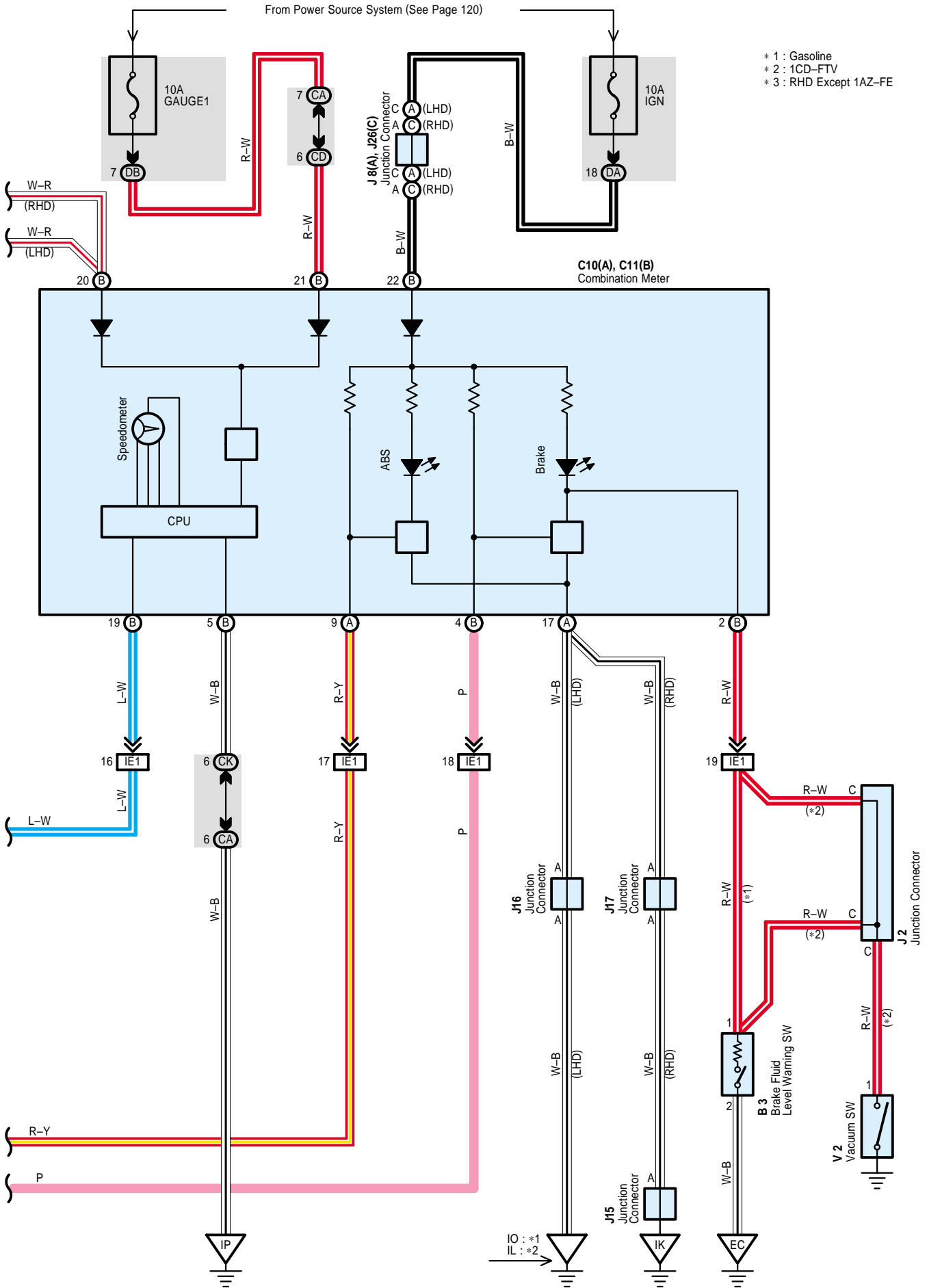


○ : Location of Splice Points

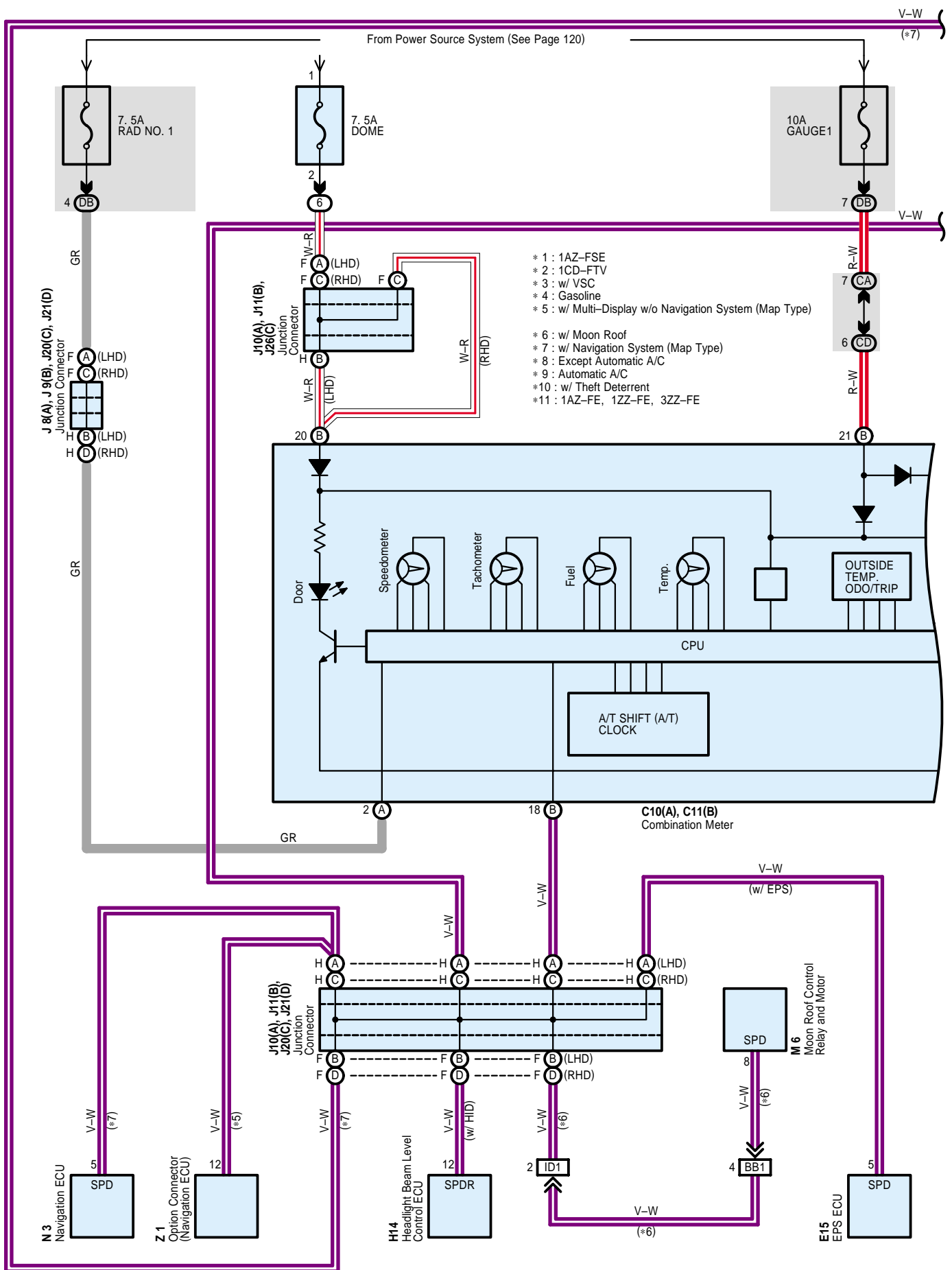


From Power Source System (See Page 120)

- * 1 : Gasoline
- * 2 : 1CD-FTV
- * 3 : RHD Except 1AZ-FE



Combination Meter



L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
S14	Side Airbag Sensor LH (w/ Curtain Shield Airbag)	90980-12225			
	Side Airbag Sensor LH (w/o Curtain Shield Airbag)	90980-12352			
S15	Side Airbag Sensor RH (w/ Curtain Shield Airbag)	90980-12225			
	Side Airbag Sensor RH (w/o Curtain Shield Airbag)	90980-12352			
S16	Seat Heater LH (w/ Power Seat)	90980-10797			
	Seat Heater LH (w/o Power Seat)	90980-11090			
S17	Seat Heater RH (w/ Power Seat)	90980-10797			
	Seat Heater RH (w/o Power Seat)	90980-11090			
S18	Side Airbag Squib LH	90980-11864			
S19	Side Airbag Squib RH				
T 1	Throttle Control Motor and Position Sensor	90980-11858			
T 2	Throttle Position Sensor	90980-11261			
T 3	Throttle Position SW	90980-11038			
T 4	Turbine Speed Sensor	90980-11156			
T 5	Turbo Pressure Sensor	90980-10845			
T 6	Theft Deterrent ECU	90980-12169			
T 7	Transmission Control SW	90980-12221			
T 8	Transponder Key Computer	90980-11911			
T 9	TRC Off SW	90980-10801			
T10	Turn Signal Flasher Relay	90980-10799			
T11	Telephone Microphone Amplifier	90980-11909			
T12	Theft Warning Ultrasonic Sensor	90980-12221			
T13	Theft Warning Ultrasonic Sensor Rear LH	90980-11918			
T14	Theft Warning Ultrasonic Sensor Rear RH				
T15	Theft Warning Siren	90980-11349			
T16	Tweeter Front LH	90980-12304			
T17	Tweeter Front RH				
T18	Tweeter Rear LH				
T19	Tweeter Rear RH				
U 1	Unlock Warning SW	90980-10860			
V 1	Vacuum Sensor	90980-10845			
V 2	Vacuum SW	90980-11252			
V 3	Variable Resistor	90980-10902			
V 4	VRV (EGR)	90980-11162			
V 5	VSV (EVAP)	90980-10572			
V 6	VSV (Intake Air Control Valve)	90980-11149			
V 7	VSC Warning Buzzer	90980-10906			
V 8	Vanity Light LH	90980-11918			
V 9	Vanity Light RH				
W 1	Water Temp. SW (Radiator Fan)	90980-11235			
W 2	Wiper Relay	90080-98318			
Y 1	Yaw Rate Sensor	90080-98249			
Z 1	Option Connector (Navigation ECU)	82824-30240			
Z 2	Option Connector (Navigation ECU)	90980-11973			

Note: Not all of the above part numbers of the connector are established for the supply.

45 AVENSIS

Power Source

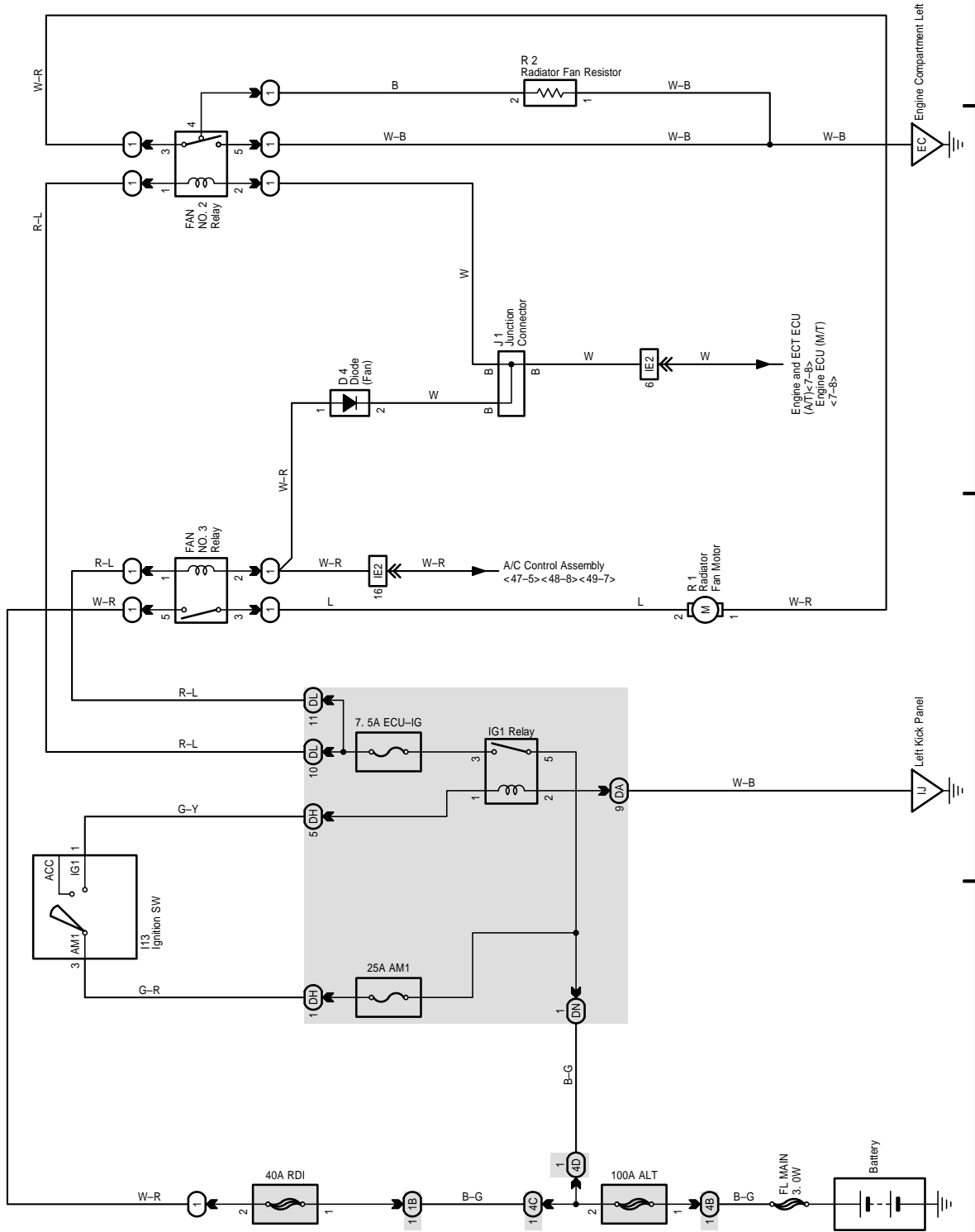
Radiator Fan (1ZZ-FE, 3ZZ-FE)

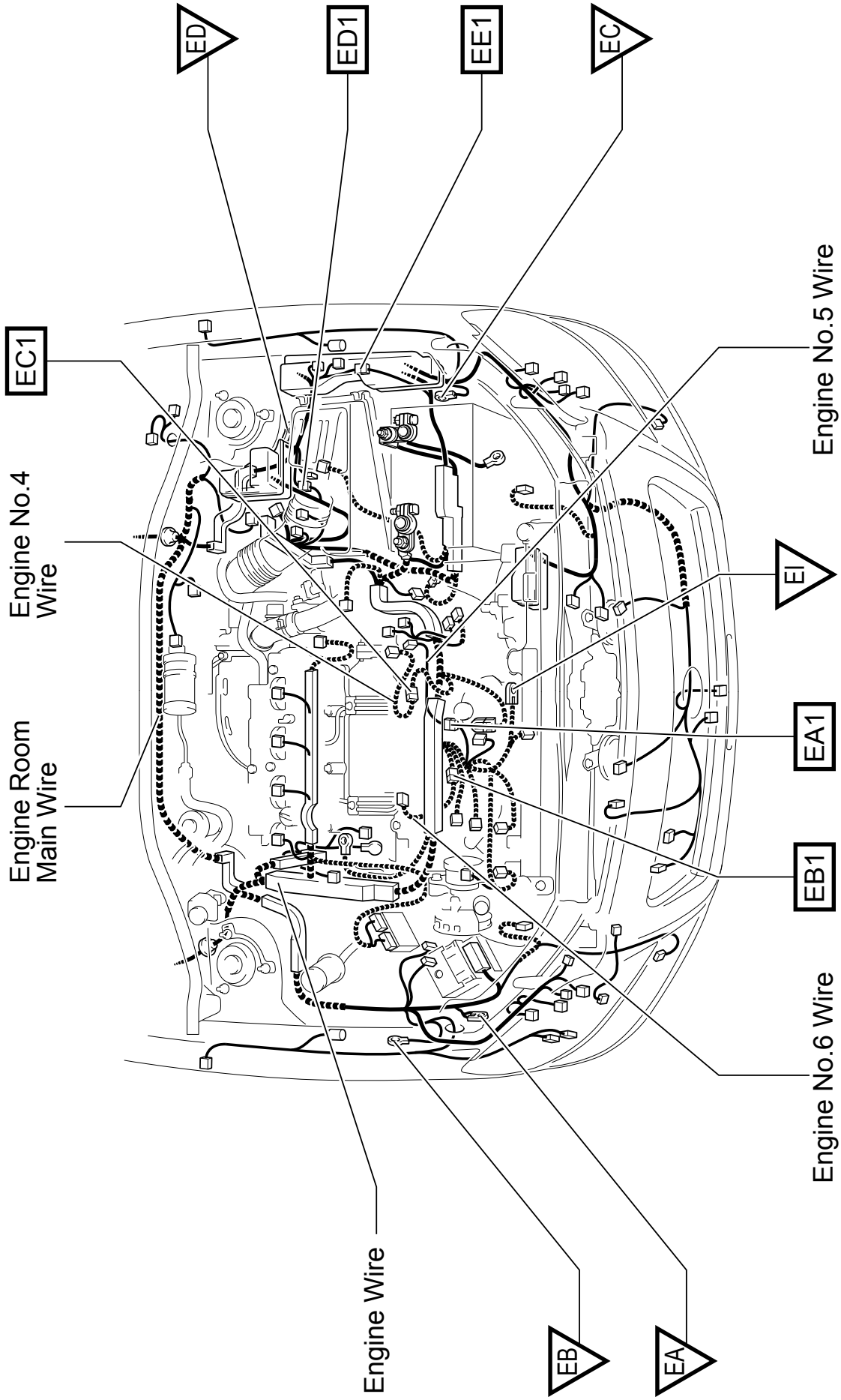
4

3

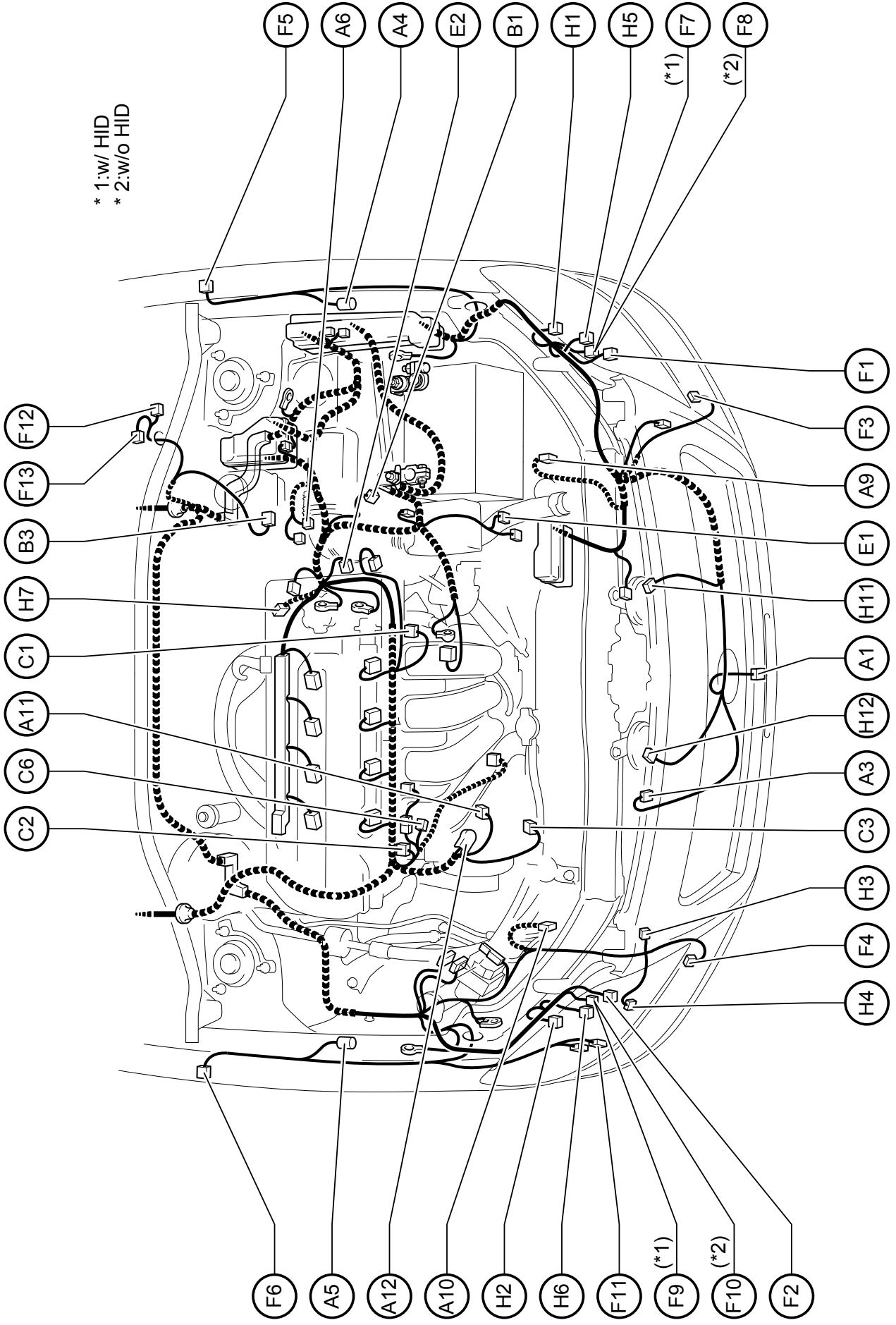
2

1

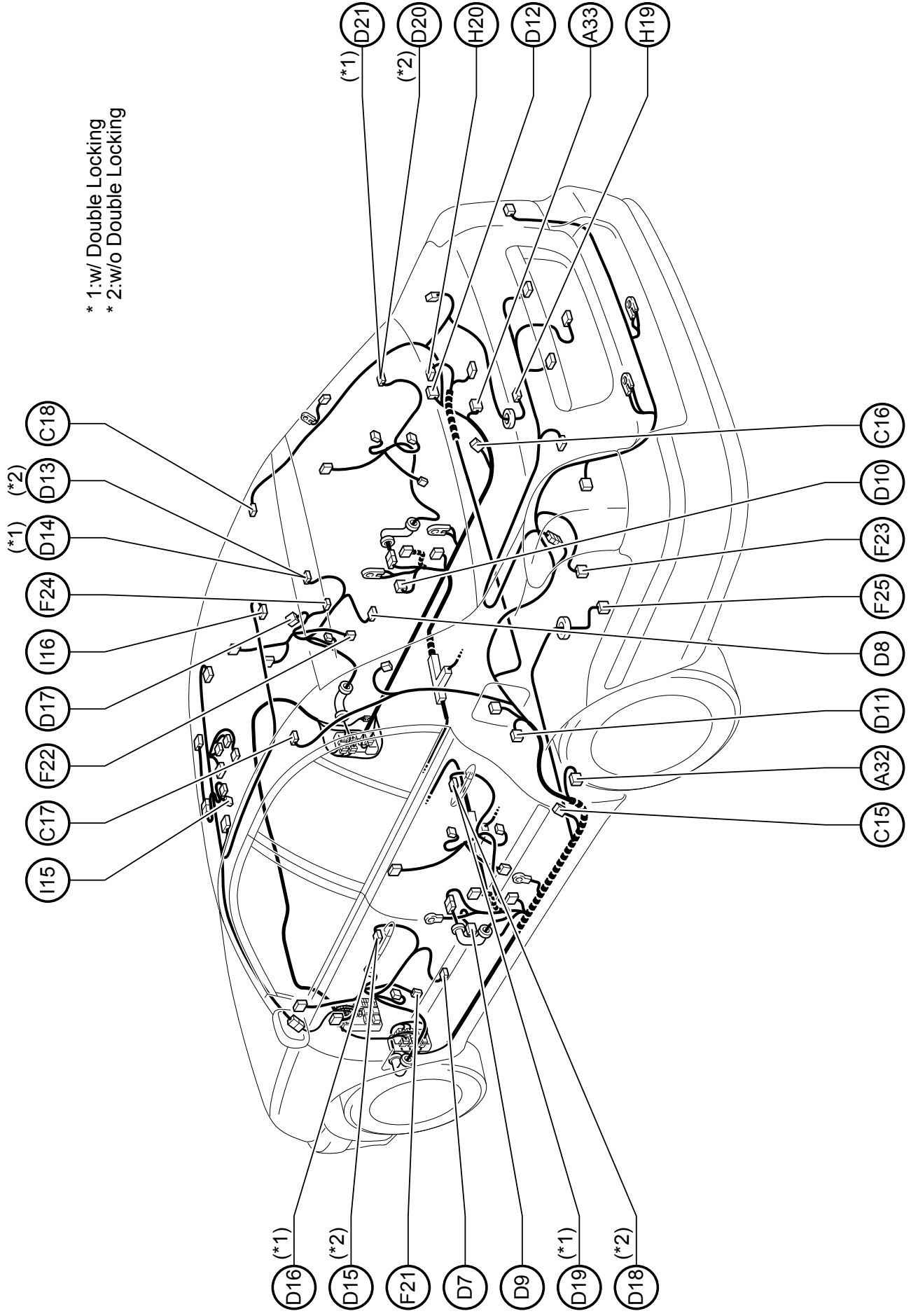




Position of Parts in Engine Compartment <LHD 1ZZ-FE, 3ZZ-FE>



Position of Parts in Body <RHD S/D>



* 1:w/ Double Locking
* 2:w/o Double Locking

Position of Parts in Instrument Panel <LHD>

- N 3 Navigation ECU
- N 4 Navigation ECU
- N 5 Navigation ECU
- N 6 Noise Filter (Rear Window Defogger No.1)

- P 4 Parking Brake SW
- P 5 Power Heater SW (Power Heater (Combustion Type))
- P 5 Power Heater SW (Power Heater (Hot Gas Type))
- P 6 Power Outlet
- P 7 PTC Heater

- R 4 Radio and Player
- R 5 Radio and Player
- R 6 Radio and Player
- R 7 Radio and Player
- R 8 Rear Fog Light Relay
- R 9 Rear Window Defogger Relay
- R 10 Remote Control Mirror SW
- R 11 Remote Controller (Navigation)

- S 7 Seat Heater SW
- S 8 Seat Heater SW
- S 9 Shift Lock Control ECU
- S 10 Short Connector
- S 11 Short Connector
- S 12 Steering Sensor
- S 13 Stop Light SW (LHD 1AZ-FE)
- S 13 Stop Light SW (Except LHD 1AZ-FE)
- S 20 Short Connector
- S 21 Short Connector

- T 7 Transmission Control SW
- T 8 Transponder Key Computer
- T 9 TRC Off SW
- T 10 Turn Signal Flasher Relay
- T 20 Tire Pressure Monitor ECU
- T 21 Tire Pressure Warning SW

- U 1 Unlock Warning SW

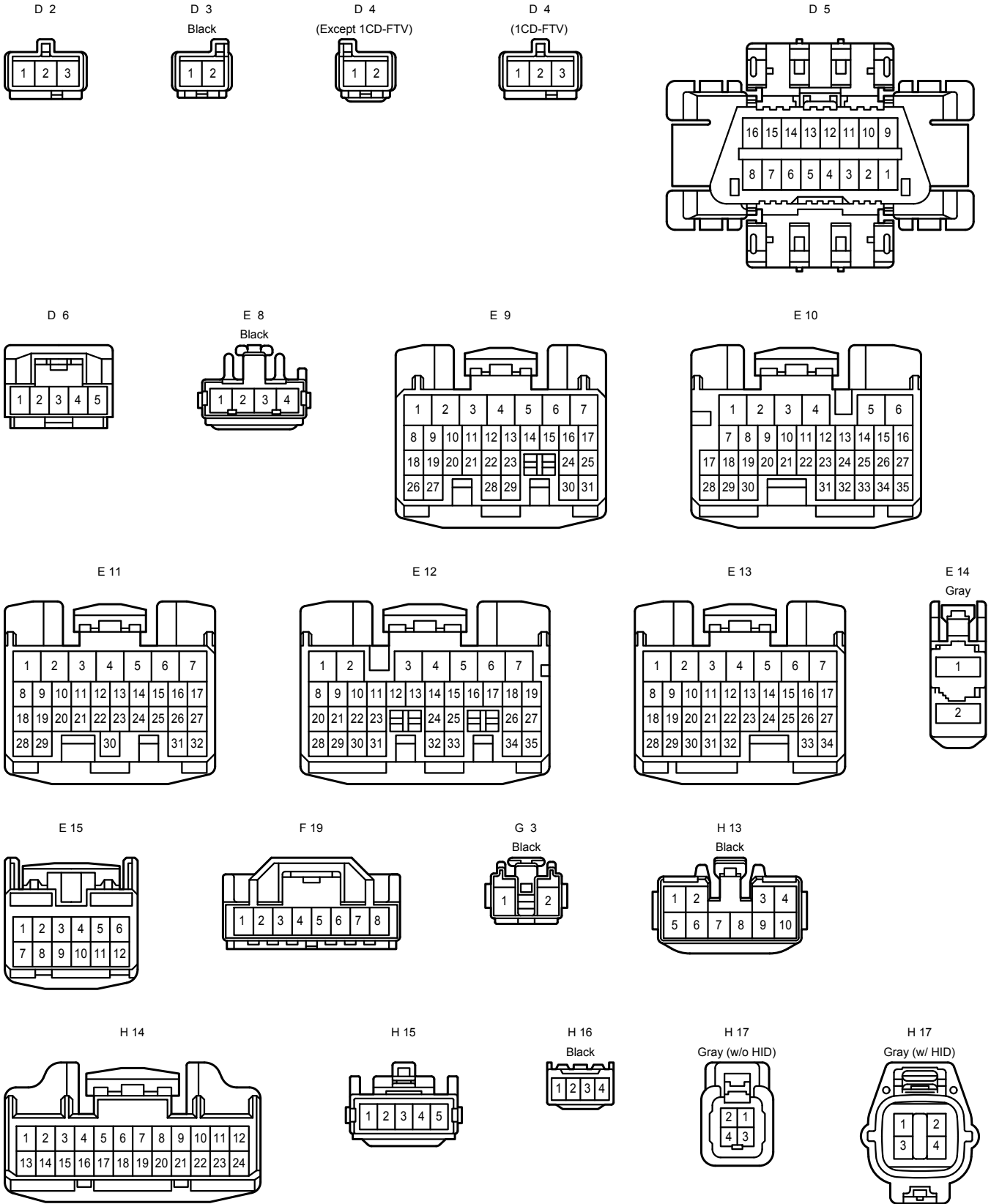
- V 7 VSC Warning Buzzer

- W 2 Wiper Relay

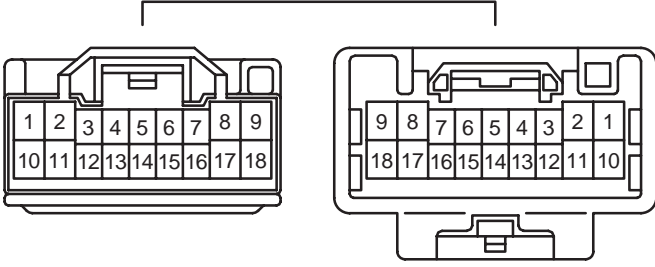
- Y 1 Yaw Rate Sensor

- Z 1 Option Connector (Navigation ECU)
- Z 2 Option Connector (Navigation ECU)

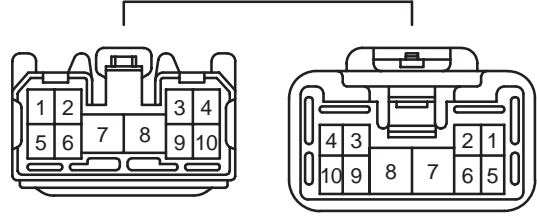
Position of Parts in Instrument Panel <RHD>



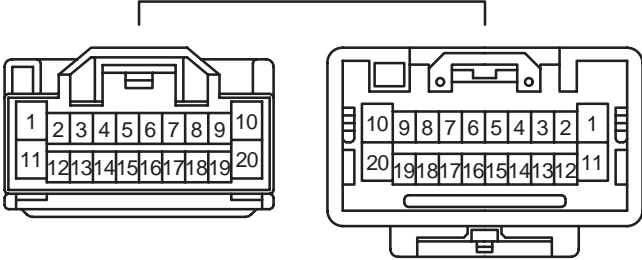
IC2



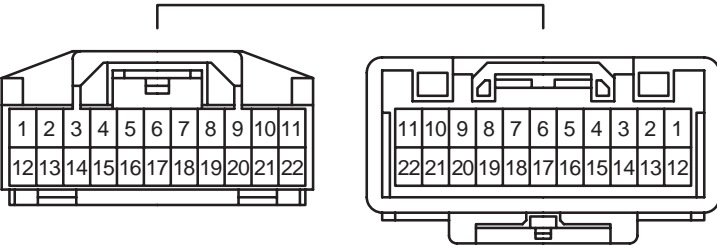
IC3



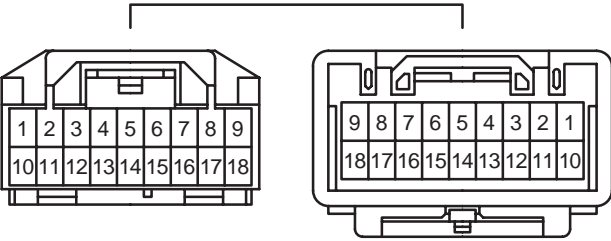
ID1



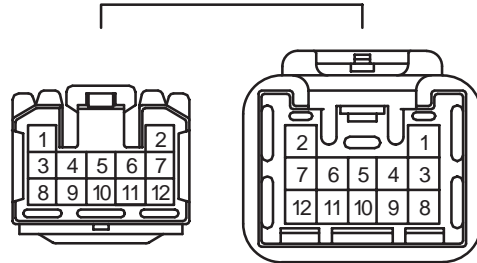
IE1



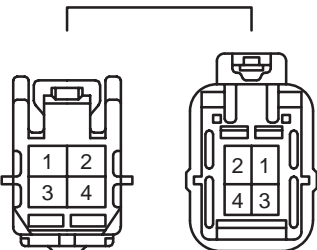
IE2



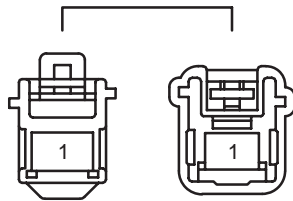
IE3



IE4



IE5



7 AVENSIS (Cont' d)

Engine Control (1ZZ-FE, 3ZZ-FE)

* 1 : Shielded
* 5 : w/Navigation System (Map Type)

