

2009 Toyota Highlander Limited

2009 TOYOTA Highlander

2009 TOYOTA**Highlander****BUZZERS, RELAYS & TIMERS****BUZZERS, RELAYS & TIMERS LOCATION**

Component	Location
ACC Relay	On instrument panel J/B. See Fig. 6.
BRK LP Relay	On engine room R/B. See Fig. 5.
C/OPN Relay	On engine room R/B. See Fig. 5.
DEICER Relay	In engine room relay box No. 2. See Fig. 7.
FAN MAIN Relay	On engine room R/B. See Fig. 5.
FOG LIGHT Relay	On instrument panel J/B. See Fig. 6.
FUEL PMP Relay	On engine room R/B. See Fig. 5.
Glass Hatch Junction Relay No. 1	Behind left quarterpanel. See Fig. 18.
Glass Hatch Junction Relay No. 2	In left "D" pillar. See Fig. 18.
IG1 Relay	On instrument panel J/B. See Fig. 6.
IG2 Relay	On engine room R/B. See Fig. 5.
INVERTER Relay	On engine room R/B. See Fig. 5.
MGC Relay	On engine room R/B. See Fig. 5.
MIR HTR Relay	In engine room relay box No. 2. See Fig. 7.
MIR LP Relay	In engine room relay box No. 2. See Fig. 7.
No. 1 Glass Hatch Junction Relay	In left "D" pillar. See Fig. 3.
No. 2 Glass Hatch Junction Relay	In left "D" pillar. See Fig. 3.
Power Slide Back Door Warning Buzzer	Base of right "D" pillar. See Fig. 19.
PTC HTR1 Relay	In engine room relay box No. 2. See Fig. 7.
PTC HTR2 Relay	In engine room relay box No. 2. See Fig. 7.
PTC HTR3 Relay	In engine room relay box No. 2. See Fig. 7.
PWR Relay	On instrument panel J/B. See Fig. 6.
RR DEF Relay	On engine room R/B. See Fig. 5.
Skid Control Buzzer	Behind left side of dash. See Fig. 15.
ST CUT Relay	On engine room R/B. See Fig. 5.
ST Relay	On engine room R/B. See Fig. 5.
TAIL Relay	On instrument panel J/B. See Fig. 6.
Turn Signal Flasher Assembly	Behind left side of dash. See Fig. 12.
Wireless Door Lock Buzzer	Left side of engine compartment. See Fig. 8.

CIRCUIT PROTECTION DEVICES**CIRCUIT PROTECTION DEVICES LOCATION**

Component	Location
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Engine Room J/B	Left side of engine compartment. See Fig. 1 .
Engine Room R/B	Left side of engine compartment. See Fig. 1 .
Engine Room R/B No. 2	Right side of engine compartment. See Fig. 1 .
Instrument Panel J/B	Behind left end of dash. See Fig. 2 .

CONTROL UNITS

CONTROL UNITS LOCATION

Component	Location
Canister Pump Module	Under rear of vehicle. See Fig. 17 .
Certification ECU	Behind right side of dash. See Fig. 2 .
Cooling Fan ECU	Front of engine compartment. See Fig. 1 .
ECM	Behind right side of dash. See Fig. 2 .
Main Body ECU	On instrument panel J/B. See Fig. 2 .
Occupant Detection ECU	Under front passenger's seat. See Fig. 4 .
Power Steering ECU	Behind left side of dash. See Fig. 2 .
Shift Lock ECU	At base of shifter lever. See Fig. 2 .
Skid Control ECU W/Actuator	Right front of engine compartment. See Fig. 1 .
Sliding Roof Control ECU	Front center of headliner. See Fig. 3 .
Tire Pressure Warning ECU	Behind right side of dash. See Fig. 2 .
Transmission Control ECU Assembly (2.7L)	Left front of engine. See Fig. 30 .
Transmission Control Unit Assembly (3.5L)	Left front engine compartment. See Fig. 1 .
Transponder Key ECU	Behind center of dash. See Fig. 2 .

MOTORS

MOTORS LOCATION

Component	Location
A/C Blower	Under right side of dash. See Fig. 15 .
Back Door Lock Assembly	Bottom center of back door. See Fig. 19 .
Back Door Motor Unit	In left "D" pillar. See Fig. 3 .
Back Window Lock Assembly	Top center of back door. See Fig. 19 .
Blower W/Fan Motor (Front)	Under right side of dash. See Fig. 13 .
Blower W/Fan Motor (Rear)	Behind right quarterpanel. See Fig. 17 .
Cooling Fan Motor	Behind radiator. See Fig. 11 .
Cooling Fan Motor No. 2	Behind radiator. See Fig. 11 .
Front Door Lock Motor Assembly LH	Rear of left front door. See Fig. 16 .
Front Door Lock Motor Assembly RH	Rear of front passenger's door. See Fig. 16 .
Front Lumbar Support Forward & Back Motor Assembly LH	In driver's seat back. See Fig. 20 .
Front Power Seat Cushion Control Motor Assembly LH	Under driver's seat. See Fig. 20 .

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Front Power Seat Lift Position Motor Assembly LH	Under driver's seat. See Fig. 20 .
Front Power Seat Reclining Position Motor Assembly LH	In driver's seat back. See Fig. 20 .
Front Power Seat Reclining Position Motor Assembly RH	In front passenger's seat back. See Fig. 20 .
Front Power Seat Slide Position Motor Assembly LH	Under driver's seat. See Fig. 20 .
Front Power Seat Slide Position Motor Assembly RH	Under front passenger's seat. See Fig. 20 .
Front Power Seat Vertical Position Motor Assembly LH	Under driver's seat. See Fig. 20 .
Front Power Window Regulator Motor Assembly LH	In left front door. See Fig. 16 .
Front Power Window Regulator Motor Assembly RH	In front passenger's door. See Fig. 16 .
Fuel Pump	In fuel tank. See Fig. 18 .
Power Steering Motor	On steering column. See Fig. 15 .
Quick Heater Assembly	Behind center of dash. See Fig. 13 .
Rear Door Lock Motor Assembly LH	Rear of left rear door. See Fig. 16 .
Rear Door Lock Motor Assembly RH	Rear of right rear door. See Fig. 16 .
Rear Power Window Regulator Motor Assembly LH	In left rear door. See Fig. 16 .
Rear Power Window Regulator Motor Assembly RH	In right rear door. See Fig. 16 .
Rear Windshield Washer & Pump Assembly	In washer fluid reservoir. See Fig. 9 .
Rear Wiper Motor	Center of back door. See Fig. 19 .
Starter	Left rear of engine. See Fig. 10 .
Throttle Body Assembly	Rear of engine. See Fig. 11 .
Windshield Washer & Pump Assembly	In washer fluid reservoir. See Fig. 9 .
Windshield Wiper Motor	Left rear of engine compartment. See Fig. 9 .

SENDING UNITS & SENSORS

SENDING UNITS & SENSORS LOCATION

Component	Location
Accelerator Pedal Sensor	On accelerator pedal bracket. See Fig. 15 .
A/C Pressure Sensor	Right front engine compartment. See Fig. 8 .
Air Fuel Ratio Sensor (Bank 1 Sensor 1)	On right exhaust manifold. See Fig. 10 .
Air Fuel Ratio Sensor (Bank 2 Sensor 1)	On left exhaust manifold. See Fig. 10 .
Ambient Temperature Sensor	Behind center of front bumper. See Fig. 8 .
Automatic Light Control Sensor	Under top center of dash. See Fig. 15 .
Center Airbag Sensor	Under front of center console. See Fig. 2 .

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Crankshaft Position Sensor (3.5L)	Left front of engine. See Fig. 10 .
Crankshaft Position Sensor (3.5L)	Left side of engine. See Fig. 30 .
E.F.I. Engine Coolant Temperature Sensor (2.7L)	Rear of engine. See Fig. 10 .
E.F.I. Engine Coolant Temperature Sensor (2.7L)	Rear of engine. See Fig. 30 .
Front Airbag Sensor LH	Left front engine compartment. See Fig. 8 .
Front Airbag Sensor RH	Right front of engine compartment. See Fig. 9 .
Front Door Electrical Key Oscillator LH	In left front door outside door handle. See Fig. 19 .
Front Door Electrical Key Oscillator RH	In front passenger's door outside door handle. See Fig. 19 .
Front Indoor Electrical Key Oscillator	Under front passenger's seat. See Fig. 17 .
Front Room Temperature Sensor	Behind left side of dash. See Fig. 12 .
Front Side Airbag Sensor LH	In left "B" pillar. See Fig. 18 .
Front Side Airbag Sensor RH	In right "B" pillar. See Fig. 17 .
Front Speed Sensor LH	Left front wheel hub. See Fig. 8 .
Front Speed Sensor RH	Right front wheel hub. See Fig. 9 .
Fuel Gauge Sender	In fuel tank. See Fig. 18 .
Indoor Luggage Compartment Electrical Key Oscillator	Left side of back door. See Fig. 17 .
Knock Control Sensor (Bank 1) (2.7L)	Left side of engine. See Fig. 30 .
Knock Control Sensor (Bank 1) (3.5L)	Right rear of engine. See Fig. 11 .
Knock Control Sensor (Bank 2) (3.5L)	Left rear of engine. See Fig. 11 .
Mass Air Flow Meter	Left rear of engine compartment. See Fig. 10 .
Oxygen Sensor (Bank 1 Sensor 2)	In exhaust. See Fig. 15 .
Oxygen Sensor (Bank 2 Sensor 2)	In left exhaust. See Fig. 11 .
Power Back Door Sensor Assembly LH	Left side of back door. See Fig. 19 .
Power Back Door Sensor Assembly RH	Right side of back door. See Fig. 19 .
Power Steering Torque Sensor	Behind left side of dash. See Fig. 15 .
Rear Indoor Electrical Key Oscillator	Behind left quarterpanel. See Fig. 18 .
Rear Side Airbag Sensor LH	In left "C" pillar. See Fig. 18 .
Rear Side Airbag Sensor RH	In right "C" pillar. See Fig. 17 .
Rear Speed Sensor LH	Left rear wheel hub. See Fig. 19 .
Rear Speed Sensor RH	Right rear wheel hub. See Fig. 19 .
Steering Sensor	In steering column. See Fig. 12 .
Transmission Revolution Sensor (Counter Gear)	On transmission. See Fig. 10 .
Transmission Revolution Sensor (Turbine)	On transmission. See Fig. 10 .
VVT Sensor (Bank 1 Exhaust) (2.7L)	Rear of engine. See Fig. 30 .
VVT Sensor (Bank 1 Exhaust) (3.5L)	Right side of engine. See Fig. 11 .
VVT Sensor (Bank 1 Intake) (2.7L)	Rear of engine. See Fig. 30 .
VVT Sensor (Bank 1 Intake) (3.5L)	Right front of engine. See Fig. 10 .
VVT Sensor (Bank 2 Exhaust) (3.5L)	Left side of engine. See Fig. 11 .
VVT Sensor (Bank 2 Intake) (3.5L)	Left front of engine. See Fig. 10 .

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Weight Detection Sensor (Front In)	Under left front side of front passenger's seat. See Fig. 20.
Weight Detection Sensor (Front Out)	Under right front side of front passenger's seat. See Fig. 20.
Weight Detection Sensor (Rear In)	Under left rear side of front passenger's seat. See Fig. 20.
Weight Detection Sensor (Rear Out)	Under right rear side of front passenger's seat. See Fig. 20.
Yaw Rate Sensor Assembly	Under center console. See Fig. 15.

SOLENOIDS & SOLENOID VALVES**SOLENOIDS & SOLENOID VALVES LOCATION**

Component	Location
Camshaft Timing Oil Control Valve (Bank 1 Exhaust) (2.7L)	Front of engine. See Fig. 30.
Camshaft Timing Oil Control Valve (Bank 1 Exhaust) (3.5L)	Right front of engine. See Fig. 11.
Camshaft Timing Oil Control Valve (Bank 1 Intake) (2.7L)	Top of engine. See Fig. 30.
Camshaft Timing Oil Control Valve (Bank 1 Intake) (3.5L)	Right front of engine. See Fig. 10.
Camshaft Timing Oil Control Valve (Bank 2 Exhaust) (3.5L)	Left front of engine. See Fig. 11.
Camshaft Timing Oil Control Valve (Bank 2 Intake) (3.5L)	Left front of engine. See Fig. 10.
Cooler Compressor	Left front of engine. See Fig. 11.
Electronically Controlled Transmission Solenoid	In transmission. See Fig. 10.
Fuel Injector Assembly No. 1, 2, 3 & 4	Top of engine. See Fig. 30.
Injectors No. 1, 3 & 5	Top of right cylinder bank. See Fig. 10.
Injectors No. 2, 4 & 6	Top of left cylinder bank. See Fig. 10.
Intake Air Control Valve Actuator (2.5L)	Rear of engine. See Fig. 30.
Intake Air Control Valve No. 3	Left side of engine. See Fig. 8.
Key Inter Lock Solenoid	In steering column. See Fig. 12.
Purge VSV (2.7L)	Rear of engine. See Fig. 30.
Purge VSV (3.5L)	Rear of engine. See Fig. 11.
Steering Lock Actuator	On steering column. See Fig. 2.
VSV (ACM)	Left front of engine compartment. See Fig. 10.
VSV (Ejector)	Rear of engine compartment. See Fig. 30.
VSV (Purge)	Top right front of engine. See Fig. 11.

SWITCHES

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SWITCHES LOCATION

Component	Location
Brake Fluid Level Warning Switch	On brake master cylinder reservoir. See Fig. 9 .
Brake Pedal Load Sensing Switch	Above brake pedal. See Fig. 15 .
Engine Oil Pressure Switch (2.7L)	Left side of engine. See Fig. 30 .
Engine Oil Pressure Switch (3.5L)	Left side of engine. See Fig. 10 .
Front Door Courtesy Light Switch LH	In left "B" pillar. See Fig. 18 .
Front Door Courtesy Light Switch RH	In right "B" pillar. See Fig. 17 .
Level Warning Switch	In washer fluid reservoir. See Fig. 9 .
Parking Brake Switch	At base of parking brake pedal. See Fig. 15 .
Park/Neutral Position Switch	On transmission. See Fig. 10 .
Rear Door Courtesy Light Switch LH	In left "C" pillar. See Fig. 18 .
Rear Door Courtesy Light Switch RH	In right "C" pillar. See Fig. 17 .
Security Courtesy Switch	Near hood latch. See Fig. 8 .
Stop Light Switch	Above brake pedal. See Fig. 15 .
Transmission Control Switch	Under center console. See Fig. 12 .

MISCELLANEOUS

MISCELLANEOUS LOCATION

Component	Location
A/C Amplifier	Behind right side of dash. See Fig. 2 .
Airbag Assembly (Lower No. 1 Instrument Panel)	Under left side of dash. See Fig. 12 .
Amplifier Antenna Assembly	Right rear of vehicle below quarter glass window. See Fig. 28 .
Antenna Amplifier Assembly (In Dash)	Behind center of dash. See Fig. 14 .
Curtain Shield Airbag Assembly LH	Top of left "D" pillar. See Fig. 18 .
Curtain Shield Airbag Assembly RH	Top of right "D" pillar. See Fig. 17 .
DLC3	Under left side of dash. See Fig. 13 .
Door Control Receiver	In left "D" pillar. See Fig. 3 .
Driver Side Squib Circuit	In steering wheel. See Fig. 15 .
Driver Side Squib 2nd Step Circuit	In steering wheel. See Fig. 15 .
Front Passenger Side Squib Circuit	Behind right side of dash. See Fig. 15 .
Front Pretensioner LH	At base of left "B" pillar. See Fig. 18 .
Front Pretensioner RH	At base of right "B" pillar. See Fig. 17 .
Front Seat Inner Belt Assembly LH	Under driver's seat. See Fig. 20 .
Front Seat Inner Belt Assembly RH	Under front passenger's seat. See Fig. 20 .
Front Wiper Deicer	Left rear of engine compartment. See Fig. 9 .
Fuel Pump Resistor	Right side of engine compartment. See Fig. 9 .
Generator	Left front of engine. See Fig. 11 .
GPS Antenna	Under top center of dash. See Fig. 28 .

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Horn (High Pitch)	Front of engine compartment. See Fig. 8.
Horn (Low Pitch)	Front of engine compartment. See Fig. 8.
ID Code Box	Behind center of dash. See Fig. 2.
Ignition Coil Assemblies No 1, 2, 3, & 4	Top of engine. See Fig. 30.
Ignition Coil Assemblies No. 1, 3 & 5	Top of right cylinder bank. See Fig. 11.
Ignition Coil Assemblies No. 2, 4 & 6	Top of left cylinder bank. See Fig. 11.
Junction Connector A12 & N19	Under front passenger's seat. See Fig. 20.
Junction Connector A36	Behind left kick panel. See Fig. 15.
Junction Connector A37	Right front of engine compartment. See Fig. 9.
Junction Connector A38	Left front of engine compartment. See Fig. 9.
Junction Connector A39	Behind left side of dash. See Fig. 15.
Junction Connector A40	Behind left end of dash. See Fig. 15.
Junction Connector B11 & O35	Under driver's seat. See Fig. 20.
Junction Connector (CAN)	In left "D" pillar. See Fig. 3.
Junction Connector D51	Behind left kick panel. See Fig. 13.
Junction Connector E23	Behind left side of dash. See Fig. 14.
Junction Connectors B46 & B47	Behind right side of dash. See Fig. 15.
Junction Connectors D52, D53, D55, D56 & D59	Behind right side of dash. See Fig. 13.
Junction Connectors D54, D57 & D58	Behind left side of dash. See Fig. 13.
Junction Connectors E22 & E24	Behind right side of dash. See Fig. 14.
Junction Connectors O21, O22, O23 & O24	Behind left quarterpanel. See Fig. 18.
Junction Connectors O36 & O37	Behind left side of rear bumper. See Fig. 18.
Junction Connector T14	Left side of back door. See Fig. 19.
Junction Connector T15	Right side of back door. See Fig. 19.
Junction Connector 038	In left "D" pillar. See Fig. 18.
Microphone Amplifier	Center front of headliner. See Fig. 19.
Noise Filter (Ignition Bank 1)	Top right rear of engine. See Fig. 10.
Noise Filter (Ignition Bank 2)	Top of engine. See Fig. 11.
Option Connector (Remote Start) D50	Behind right side of dash. See Fig. 13.
Option Connector (Security) D48	Behind right side of dash. See Fig. 13.
Option Connector (Security Light) D49	Behind left side of dash. See Fig. 13.
Outside Luggage Electrical Key Antenna	Behind left side of rear bumper. See Fig. 18.
Rear Cooling Unit	At right "D" pillar. See Fig. 17.
Rear Evaporator Sub-Assembly	Behind right quarterpanel. See Fig. 17.
Satellite Radio Antenna Assembly	Top rear of vehicle. See Fig. 28.
Security Horn Assembly	Left rear of engine compartment. See Fig. 8.
Side Airbag Squib Circuit LH	Under driver's seat. See Fig. 20.
Side Airbag Squib Circuit RH	Under front passenger's seat. See Fig. 20.
Spiral Cable Assembly	In steering column. See Fig. 12.
Stereo Component Amplifier	Behind left quarterpanel. See Fig. 17.
Stereo Component Amplifier Assembly	Under front passenger's seat. See Fig. 3.

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	Center of back door. See Fig. 19.
Tire Pressure Warning Antenna & Receiver	Center rear of headliner. See Fig. 3.
Towing Converter	Under left side of dash. See Fig. 15.
Trailer Hitch	Behind left corner of rear bumper. See Fig. 18.
Transponder Key Amplifier	On steering column. See Fig. 2.
Turn Signal Flasher	Behind left side of dash. See Fig. 2.
Voltage Inverter	Under center console. See Fig. 15.

CONNECTORS

CONNECTORS LOCATION

Component	Location
AD1 (Yellow, 2 Pin)	Behind right kick panel. See Fig. 22.
AD2 (White, 2 Pin)	Behind right kick panel. See Fig. 22.
AD3 (Blue, 18 Pin)	Behind left kick panel. See Fig. 22.
AD4 (Gray, 20 Pin)	Behind left kick panel. See Fig. 22.
AD5 (White, 1 Pin)	Behind left kick panel. See Fig. 22.
AD6 (Yellow, 2 Pin)	Behind left kick panel. See Fig. 22.
AD7 (White, 2 Pin)	Behind left kick panel. See Fig. 22.
AD8 (Blue, 18 Pin)	Behind right kick panel. See Fig. 22.
AD9 (Gray, 20 Pin)	Behind right kick panel. See Fig. 22.
AD10 (White, 3 Pin)	Behind right kick panel. See Fig. 22.
AN1 (White, 8 Pin)	Behind right kick panel. See Fig. 22.
AO1 (White, 2 Pin)	Behind left kick panel. See Fig. 22.
BA1 (White, 15 Pin)	Left side engine compartment. See Fig. 21.
BB1 (White, 5 Pin)	Behind right side of dash. See Fig. 22.
Bd1 (Gray, 4 Pin)	Left side of engine. See Fig. 21.
BD1 (Gray, 20 Pin)	Behind right side of dash. See Fig. 22.
Bd2	Left top of engine. See Fig. 29.
BD2 (Gray, 12 Pin)	Behind right side of dash. See Fig. 22.
DD1 (Gray, 4 Pin)	Behind right side of dash. See Fig. 22.
De1 (Yellow, 4 Pin)	Behind right side of dash. See Fig. 24.
Dg1 (White, 10 Pin)	Under right side of center console. See Fig. 24.
DN1 (White, 2 Pin)	Behind right kick panel. See Fig. 22.
DN2 (Black, 18 Pin)	Behind right kick panel. See Fig. 22.
DN3 (Black, 20 Pin)	Behind right kick panel. See Fig. 22.
DO1 (Gray, 12 Pin)	Behind left kick panel. See Fig. 22.
DO2 (Black, 18 Pin)	Behind left kick panel. See Fig. 22.
DO3 (White, 20 Pin)	Behind left kick panel. See Fig. 22.
DP1 (Gray, 4 Pin)	Under left side of center console. See Fig. 24.
ED1 (White, 17 Pin)	Behind left side of dash. See Fig. 24.

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ED2 (Blue, 18 Pin)	Behind right side of dash. See Fig. 24 .
ED3 (Black, 18 Pin)	Behind right side of dash. See Fig. 24 .
ED4 (White, 20 Pin)	Behind left side of dash. See Fig. 24 .
ED5 (Gray, 20 Pin)	Behind right side of dash. See Fig. 24 .
FE1 (White, 4 Pin)	Behind right end of dash. See Fig. 24 .
FE1 (White, 8 Pin)	Behind left side of dash. See Fig. 24 .
GD1 (Black, 18 Pin)	Behind right kick panel. See Fig. 24 .
GD2 (White, 18 Pin)	Behind right kick panel. See Fig. 24 .
Gz1 (Gray, 8 Pin)	Top of left "D" pillar. See Fig. 25 .
HD1 (Black, 18 Pin)	Behind left kick panel. See Fig. 24 .
HD2 (White, 18 Pin)	Behind left kick panel. See Fig. 24 .
HM1 (White, 18 Pin)	In driver's door. See Fig. 25 .
HT1 (Black, 3 Pin)	Center of back door. See Fig. 25 .
HT2 (Blue, 3 Pin)	Center of back door. See Fig. 25 .
Hz1 (Gray, 8 Pin)	In driver's door. See Fig. 25 .
JN1 (Gray, 12 Pin)	Behind right rear quarterpanel. See Fig. 25 .
KO1 (Gray, 12 Pin)	At left "B" pillar. See Fig. 25 .
Na1 (Gray, 6 Pin)	Under front passenger's seat. See Fig. 27 .
NE1 (White, 12 Pin)	Under right side of center console. See Fig. 24 .
NE2 (Black, 20 Pin)	Under right side of center console. See Fig. 24 .
NO1 (White, 18 Pin)	Base of right "D" pillar. See Fig. 25 .
OD1 (Gray, 20 Pin)	Under left side of center console. See Fig. 24 .
QE1 (White, 18 Pin)	Base of left "A" pillar. See Fig. 24 .
QE2 (Blue, 22 Pin)	Base of left "A" pillar. See Fig. 24 .
QO1 (White, 4 Pin)	Top of left "D" pillar. See Fig. 25 .
RD1 (White, 10 Pin)	Under right side of center console. See Fig. 24 .
ST1 (White, 4 Pin)	Behind right rear quarterpanel. See Fig. 25 .
WO1 (Black, 2 Pin)	Center rear of headliner. See Fig. 25 .
WO2 (White, 4 Pin)	Center rear of headliner. See Fig. 25 .
WY1 (White, 2 Pin)	Center rear of headliner. See Fig. 25 .
WY2 (Blue, 2 Pin)	Center rear of headliner. See Fig. 25 .
XO1 (White, 18 Pin)	Center rear of headliner. See Fig. 25 .
XO2 (Blue, 14 Pin)	Center rear of headliner. See Fig. 25 .
XO3 (Black, 2 Pin)	Center rear of headliner. See Fig. 25 .
XT1 (White, 2 Pin)	Right rear of headliner. See Fig. 25 .
XT2 (White, 18 Pin)	Right rear of headliner. See Fig. 25 .
XT3 (White, 14 Pin)	Right rear of headliner. See Fig. 25 .
ZN1 (Black, 2 Pin)	Behind right rear quarterpanel. See Fig. 25 .
ZO1 (Black, 2 Pin)	Behind left rear quarterpanel. See Fig. 25 .

GROUND S

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GROUPS LOCATION

Component	Location
A1	Behind right front headlight. See Fig. 21 .
A2	Behind right front headlight. See Fig. 21 .
A3	Behind left front headlight. See Fig. 21 .
A4	Behind left end of dash. See Fig. 23 .
A5	Behind right front headlight. See Fig. 21 .
A6	Behind left front headlight. See Fig. 21 .
B1	Top right side of engine. See Fig. 21 .
B2	Top left side of engine. See Fig. 21 .
B4	Rear of engine. See Fig. 29 .
B5	Rear of engine. See Fig. 29 .
D1	Behind right kick panel. See Fig. 23 .
D2	Behind center of dash. See Fig. 23 .
D3	Behind right side of dash. See Fig. 23 .
D4	Behind left kick panel. See Fig. 23 .
D5	Behind left end of dash. See Fig. 23 .
D6	Behind center of dash. See Fig. 23 .
D7	Behind center of dash. See Fig. 23 .
E1	Behind left side of dash. See Fig. 23 .
E2	Behind right center of dash. See Fig. 23 .
N1	In left "D" pillar. See Fig. 26 .
N2	In right "D" pillar. See Fig. 26 .
O1	In left "B" pillar. See Fig. 26 .
O2	Behind left rear wheelwell. See Fig. 26 .
O3	Behind right side of rear bumper. See Fig. 26 .
O4	Behind left side of rear bumper. See Fig. 26 .
T1	Left side of back door. See Fig. 26 .

COMPONENT LOCATION GRAPHICS

NOTE: Figures may show multiple component locations. Refer to appropriate table for proper figure references.

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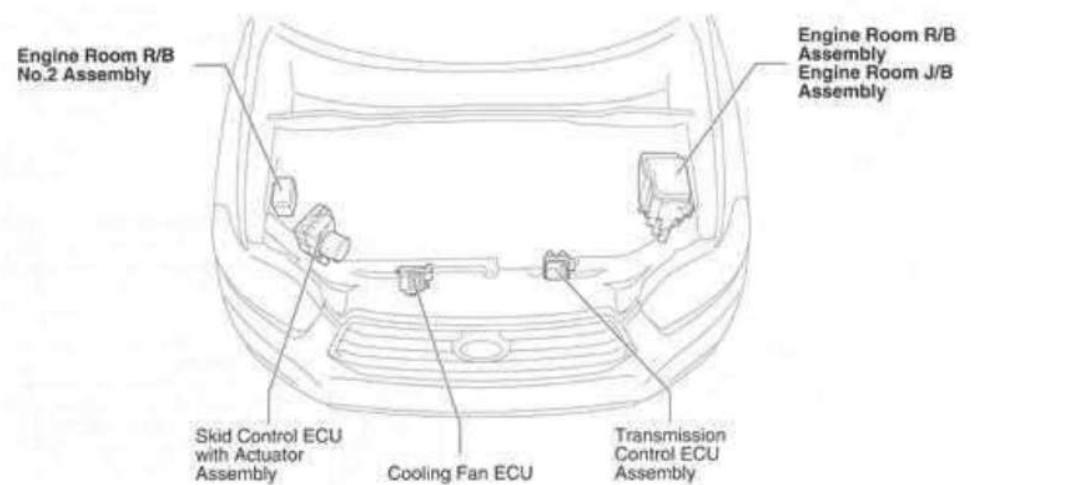


Fig. 1: Engine Compartment
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

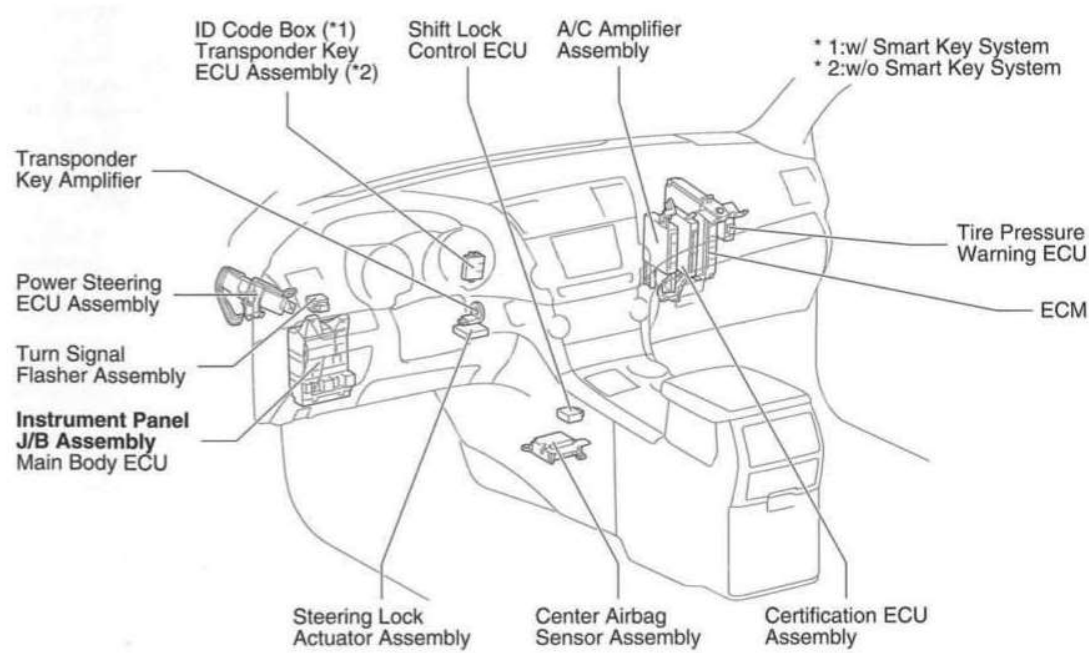


Fig. 2: Dash & Center Console
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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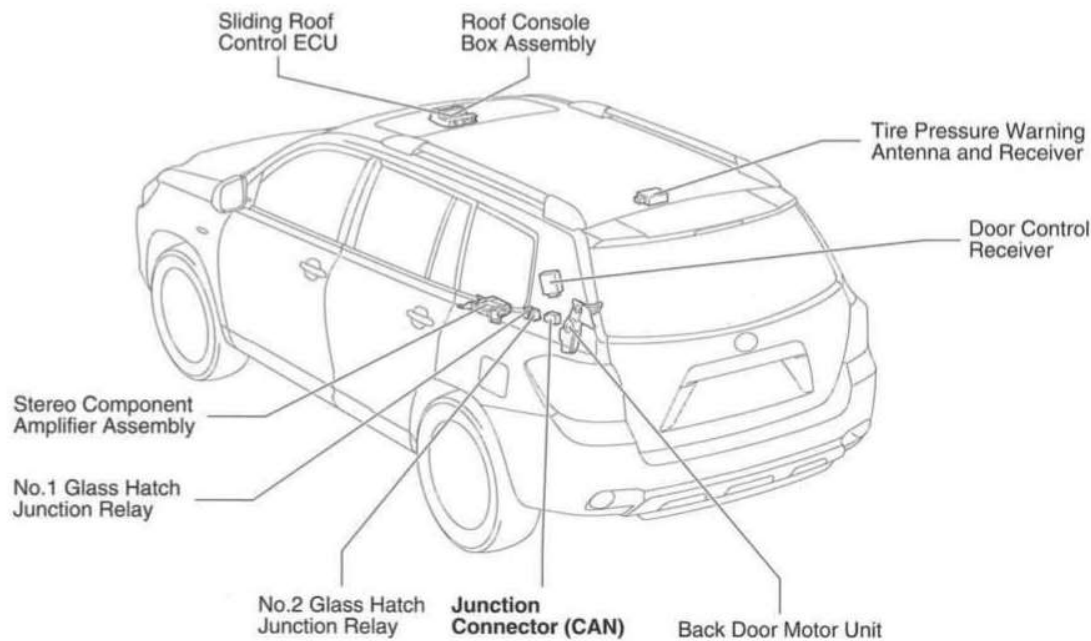


Fig. 3: Vehicle Overview
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.



Fig. 4: Front Seats
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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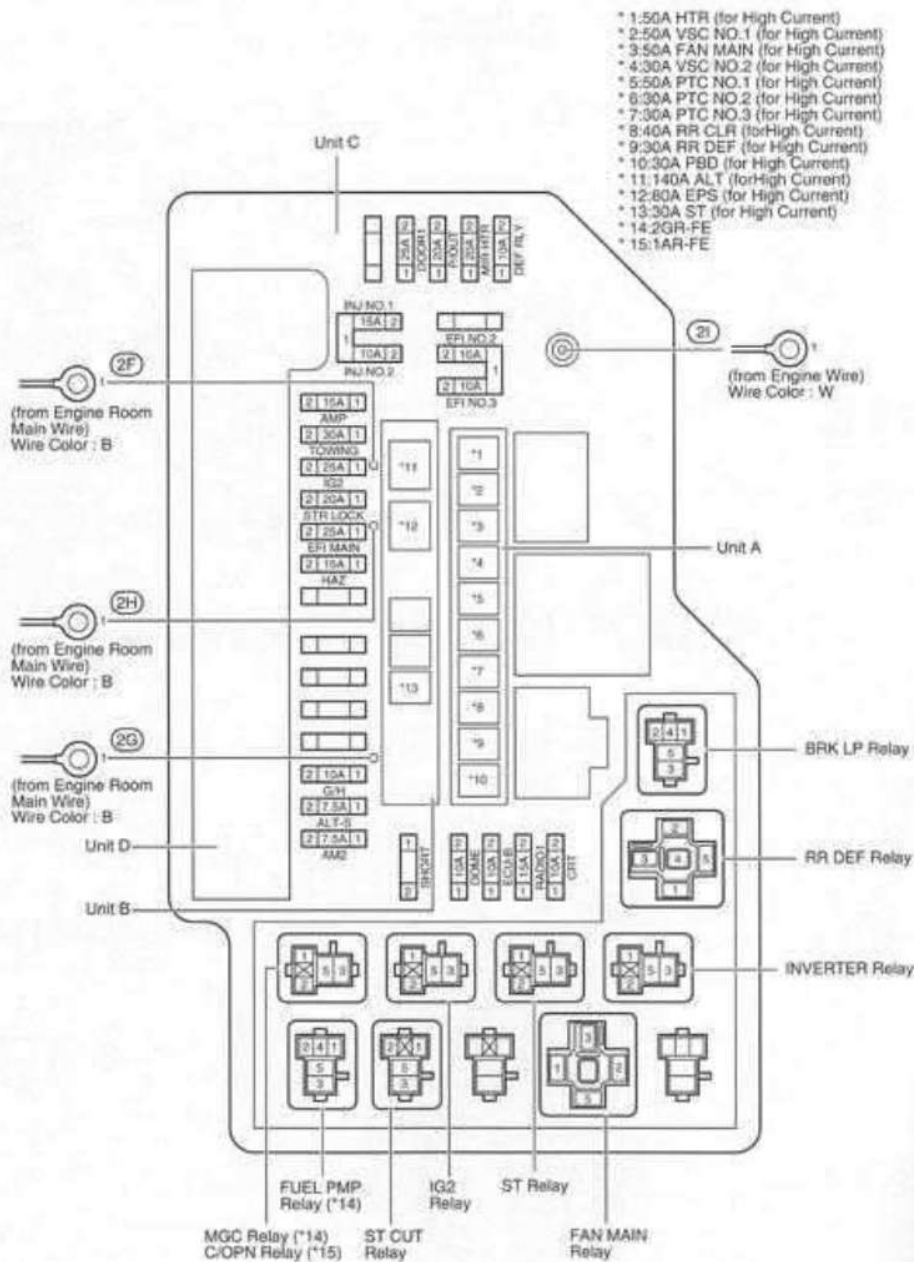


Fig. 5: Engine Room Relay Box

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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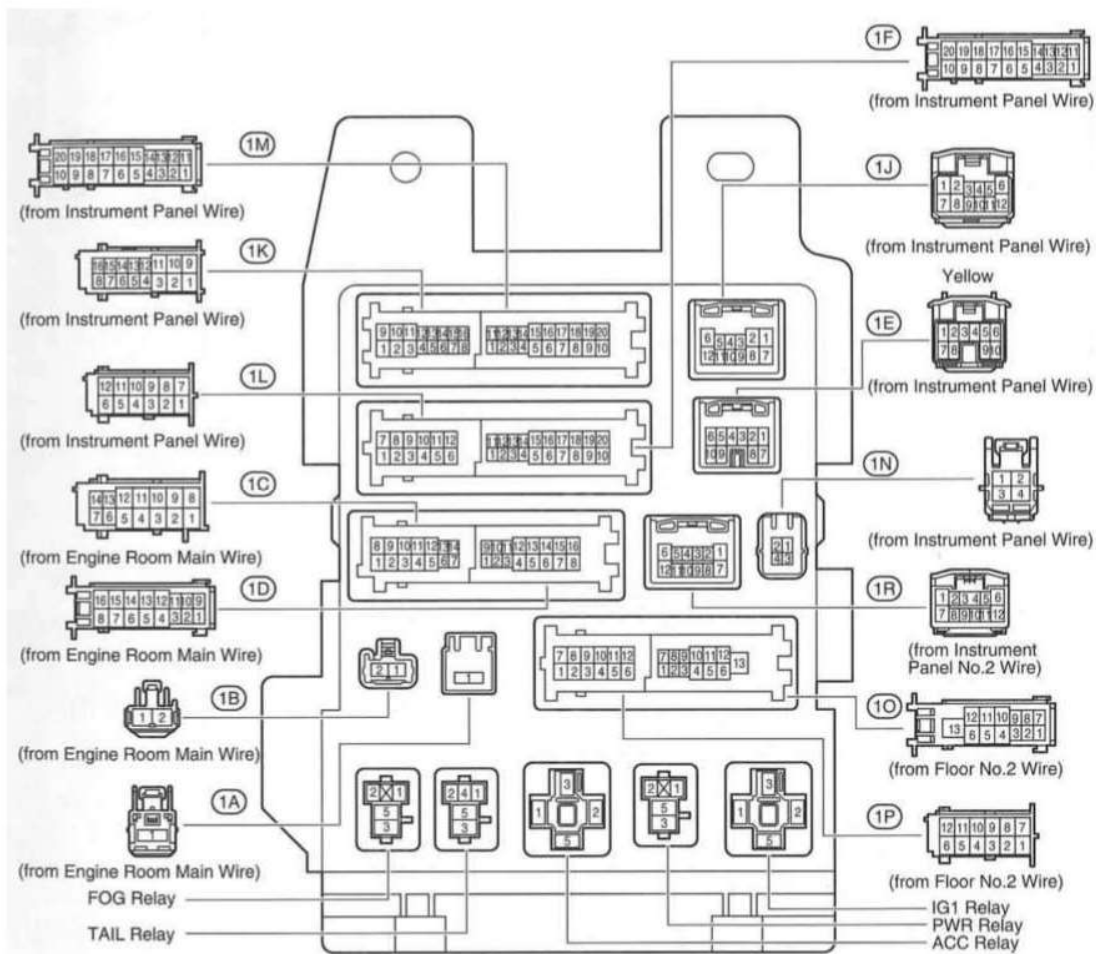


Fig. 6: Instrument Panel Junction Box

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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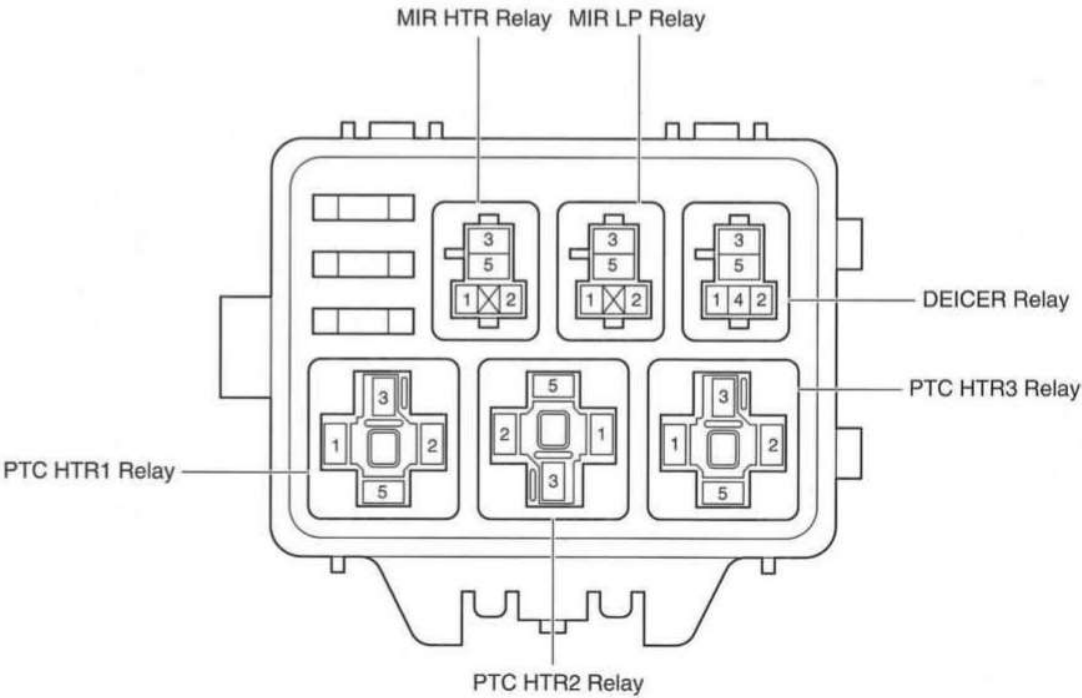
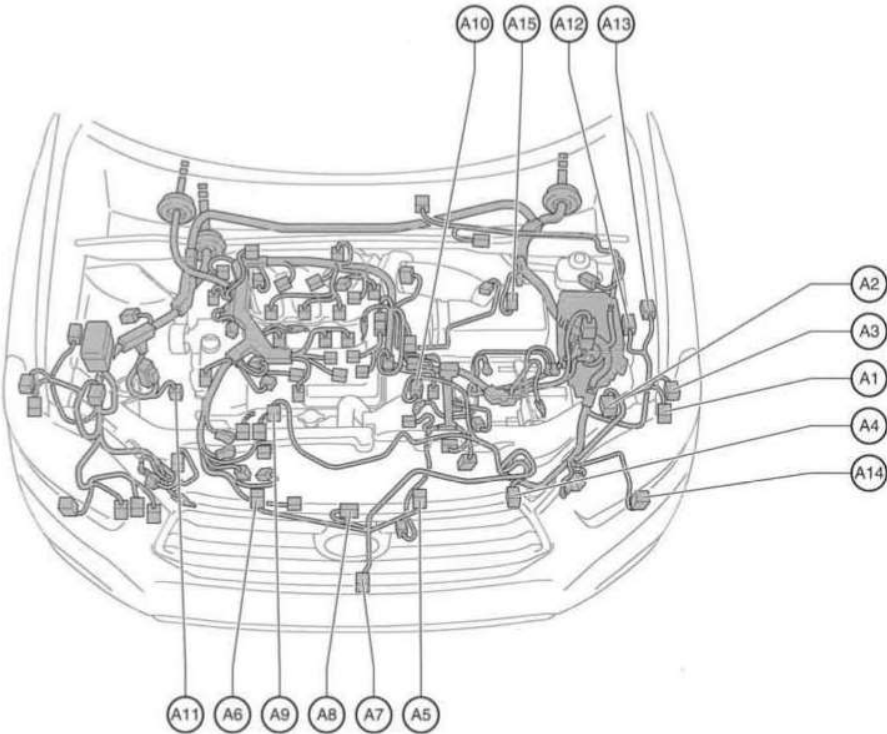


Fig. 7: Engine Room Relay Box No. 2
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2009 Toyota Highlander Limited

2009 TOYOTA Highlander



- | | | | |
|----|--|-----|--|
| A1 | Front Turn Signal Light LH (Headlight Assembly LH) | A9 | Cooling Fan ECU |
| A2 | Headlight Assembly LH | A10 | No.3 Intake Air Control Valve Assembly |
| A3 | Front Clearance Light LH (Headlight Assembly LH) | A11 | A/C Pressure Sensor |
| A4 | Front Airbag Sensor LH | A12 | Front Speed Sensor LH |
| A5 | Low Pitched Horn Assembly | A13 | Wireless Door Lock Buzzer |
| A6 | High Pitched Horn Assembly | A14 | Fog Light Assembly LH |
| A7 | Ambient Temperature Sensor | A15 | Security Horn Assembly |
| A8 | Security Courtesy Switch | | |

Fig. 8: Engine Compartment
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2009 Toyota Highlander Limited

2009 TOYOTA Highlander

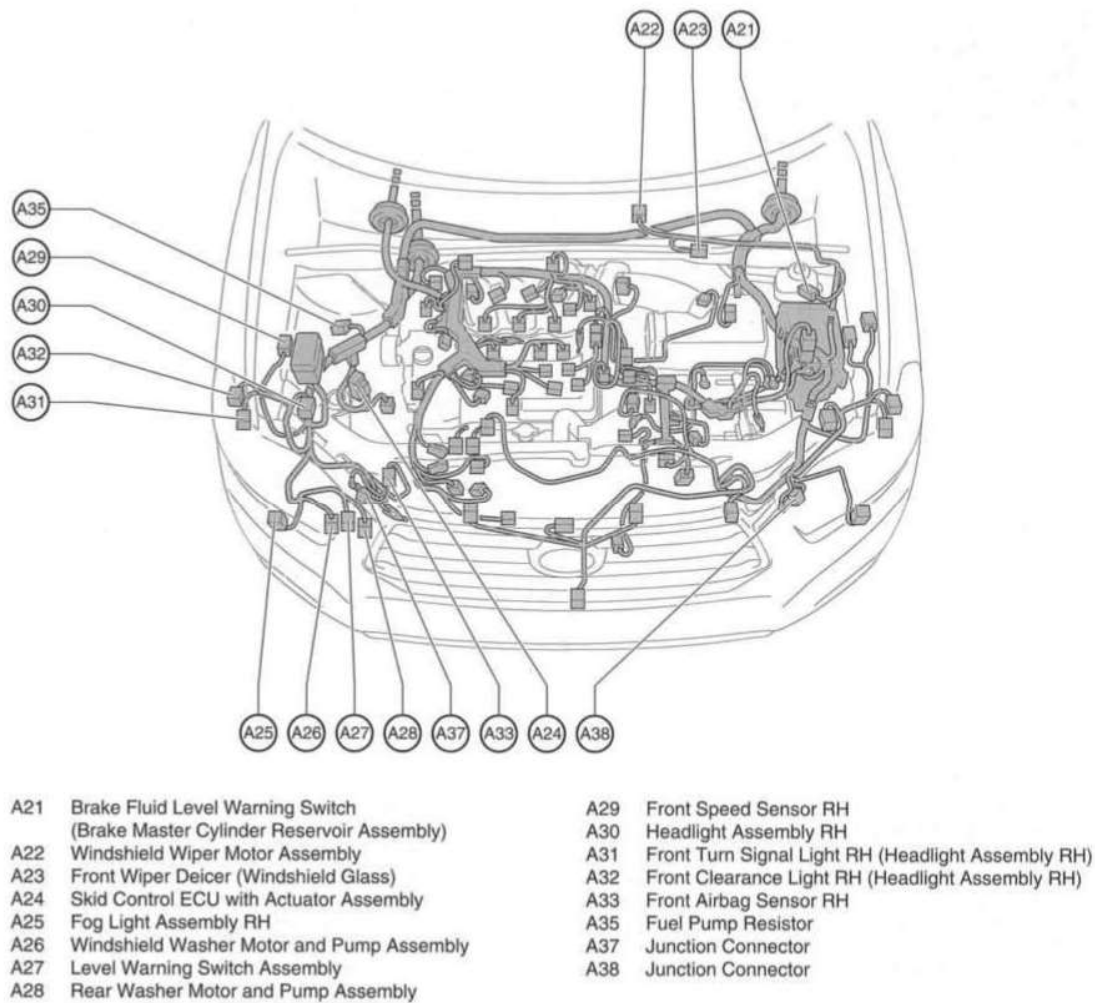
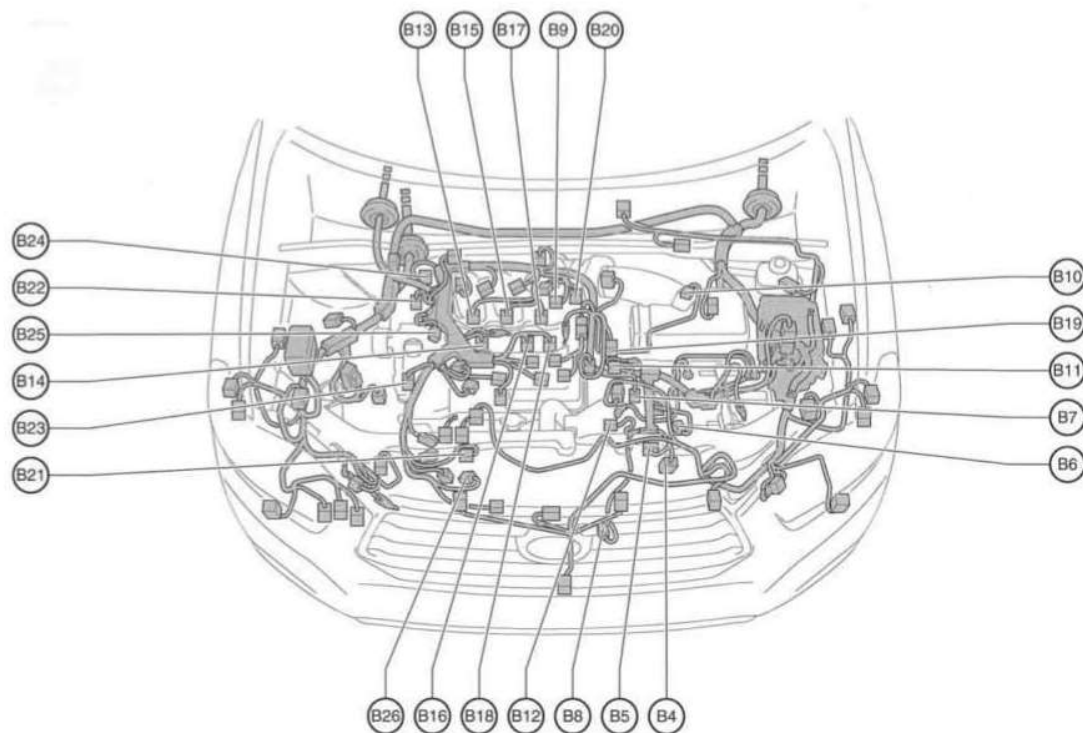


Fig. 9: Engine Compartment

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2009 Toyota Highlander Limited

2009 TOYOTA Highlander



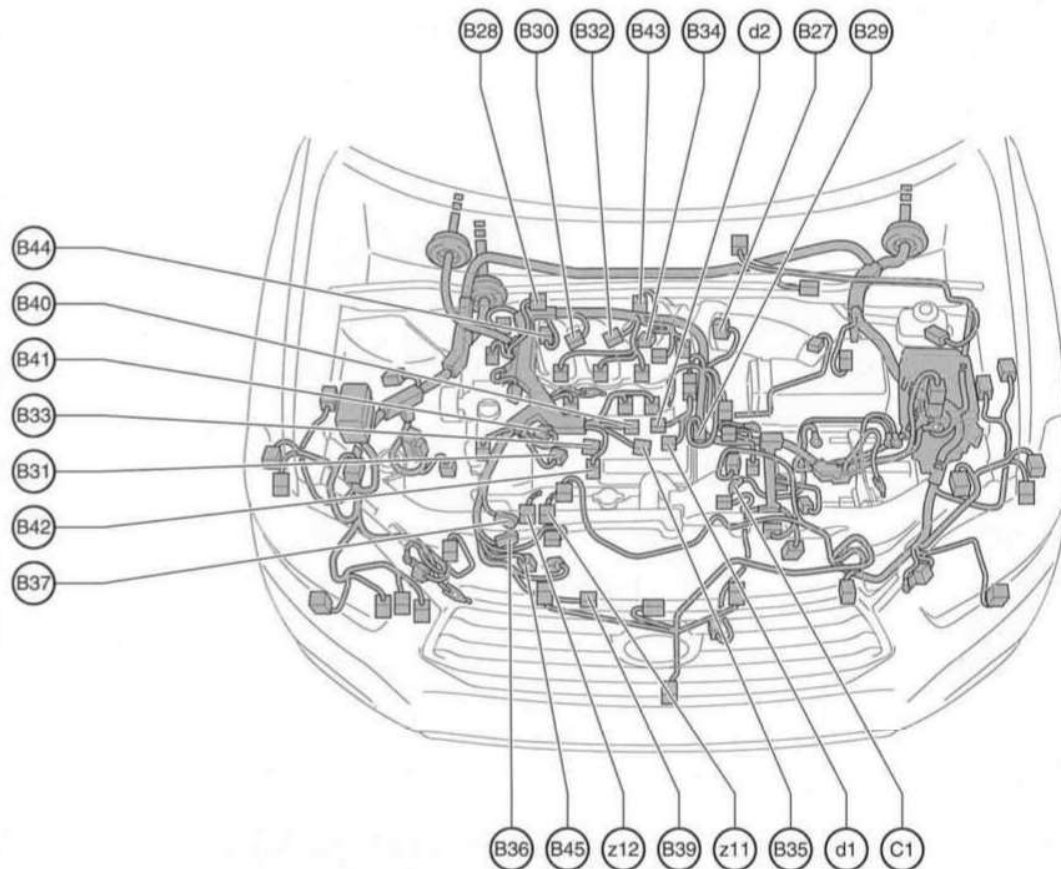
B4	Electronically Controlled Transmission Solenoid	B16	Fuel Injector Assembly No.4
B5	Park/Neutral Position Switch	B17	Fuel Injector Assembly No.5
B6	Transmission Revolution Sensor (Turbine)	B18	Fuel Injector Assembly No.6
B7	Transmission Revolution Sensor (Counter Gear)	B19	Air Fuel Ratio Sensor (Bank 2 Sensor 1)
B8	VSV (ACM)	B20	Air Fuel Ratio Sensor (Bank 1 Sensor 1)
B9	Noise Filter (Ignition Bank 1)	B21	Crankshaft Position Sensor
B10	Mass Air Flow Meter	B22	VVT Sensor (Bank 1 Intake Side)
B11	E.F.I. Engine Coolant Temperature Sensor	B23	VVT Sensor (Bank 2 Intake Side)
B12	Starter Assembly	B24	Camshaft Timing Oil Control Valve (Bank 1 Intake Side)
B13	Fuel Injector Assembly No.1	B25	Camshaft Timing Oil Control Valve (Bank 2 Intake Side)
B14	Fuel Injector Assembly No.2	B26	Engine Oil Pressure Switch Assembly
B15	Fuel Injector Assembly No.3		

Fig. 10: Engine

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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B27	Throttle Body Assembly	C1	Starter Assembly
B28	VSV (ACIS)	d1	Knock Control Sensor (Bank 2)
B29	Purge VSV	d2	Knock Control Sensor (Bank 1)
B30	Ignition Coil Assembly No.1		
B31	Ignition Coil Assembly No.2		
B32	Ignition Coil Assembly No.3		
B33	Ignition Coil Assembly No.4		
B34	Ignition Coil Assembly No.5		
B35	Ignition Coil Assembly No.6		
B36	Generator Assembly		
B37	Generator Assembly		
B39	Oxygen Sensor (Bank 2 Sensor 2)		
B40	Noise Filter (Ignition Bank 2)		
B41	Camshaft Timing Oil Control Valve (Bank 2 Exhaust Side)		
B42	VVT Sensor (Bank 2 Exhaust Side)		
B43	VVT Sensor (Bank 1 Exhaust Side)		
B44	Camshaft Timing Oil Control Valve (Bank 1 Exhaust Side)		
B45	Cooler Compressor Assembly		
		z11	Cooling Fan ECU
			Cooling Fan Motor
		z12	Cooling Fan ECU
			No.2 Cooling Fan Motor

Fig. 11: Engine

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2009 Toyota Highlander Limited

2009 TOYOTA Highlander

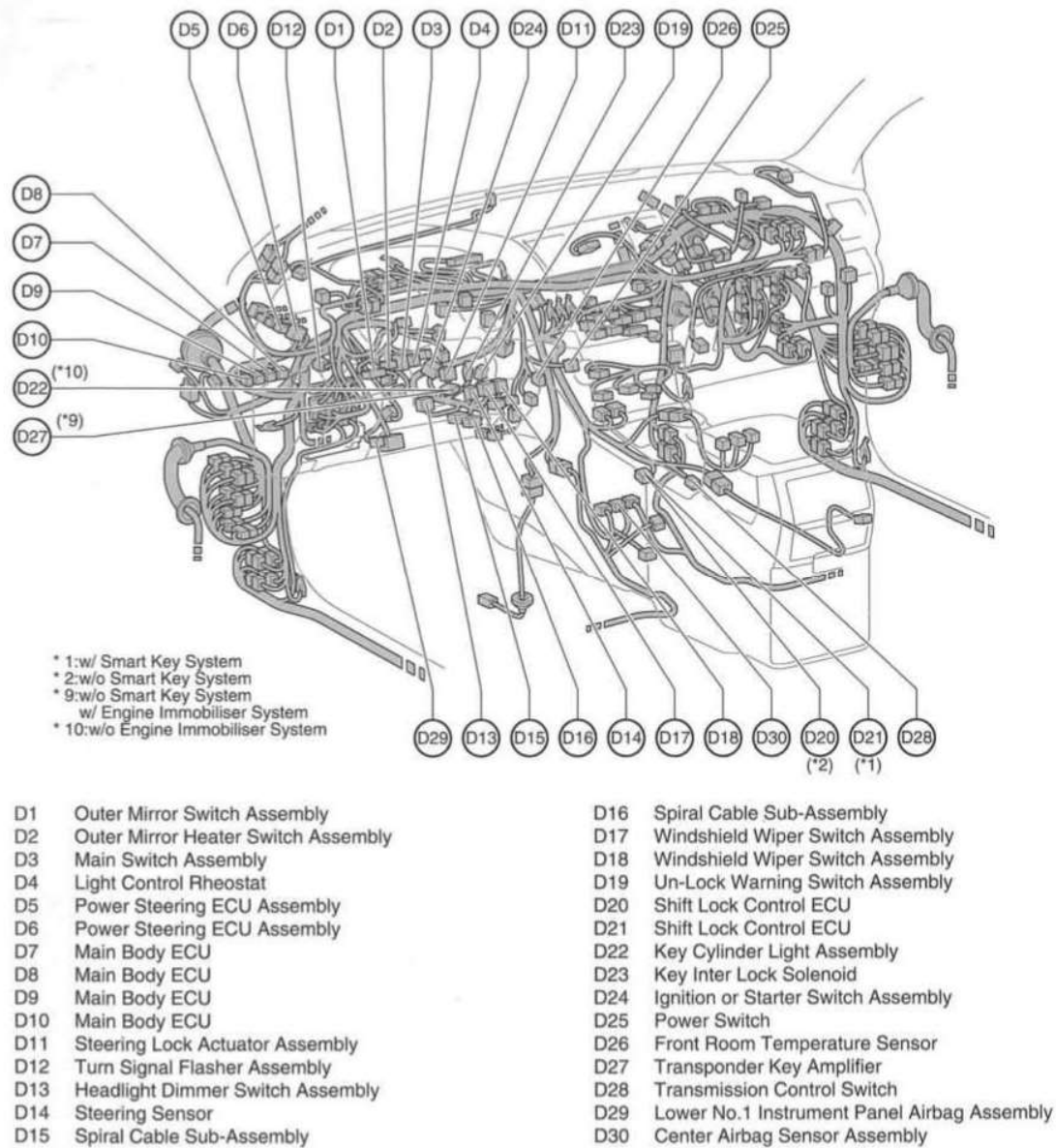


Fig. 12: Dash & Center Console

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2009 Toyota Highlander Limited

2009 TOYOTA Highlander

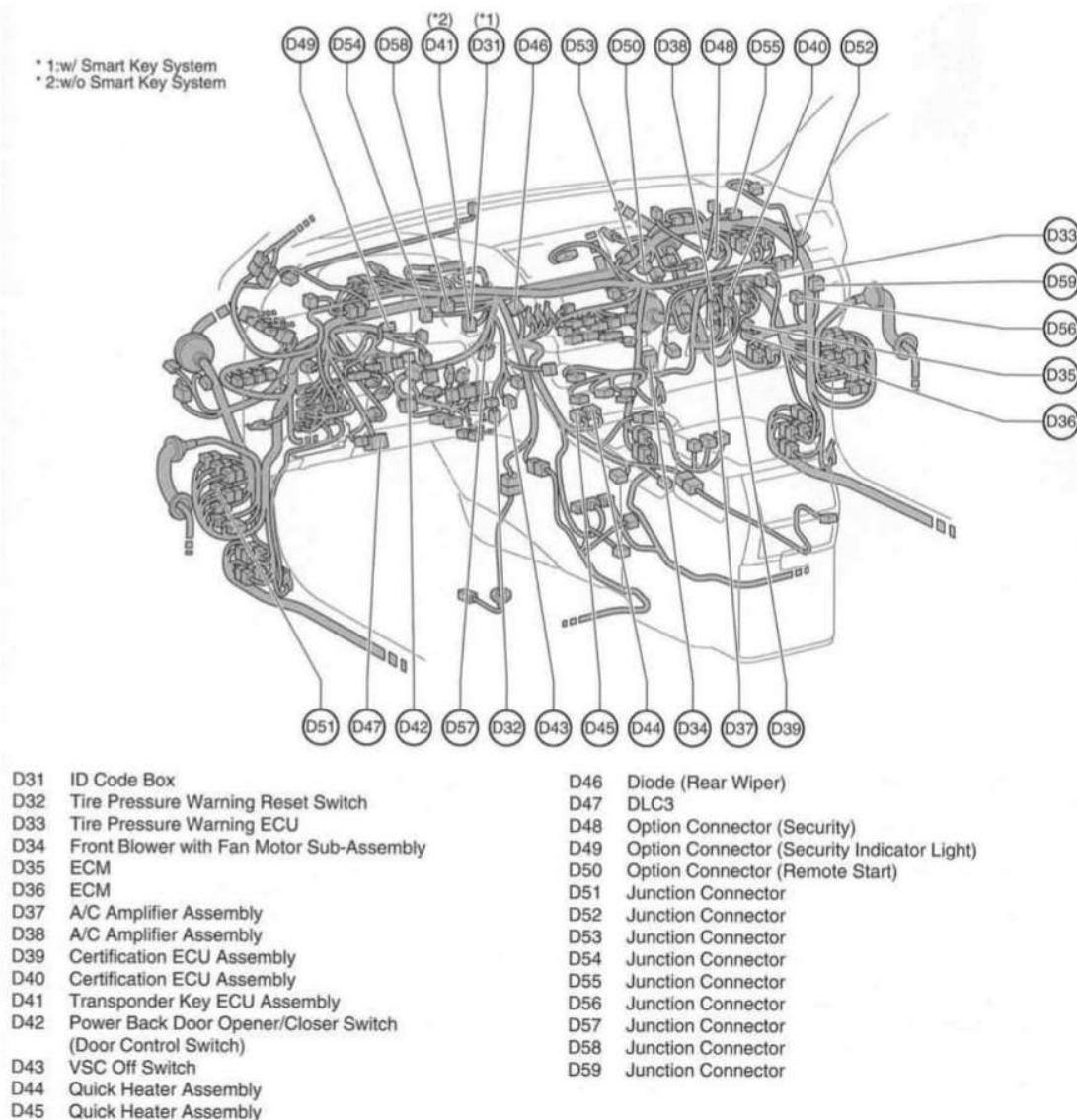


Fig. 13: Dash & Center Console

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2009 Toyota Highlander Limited

2009 TOYOTA Highlander

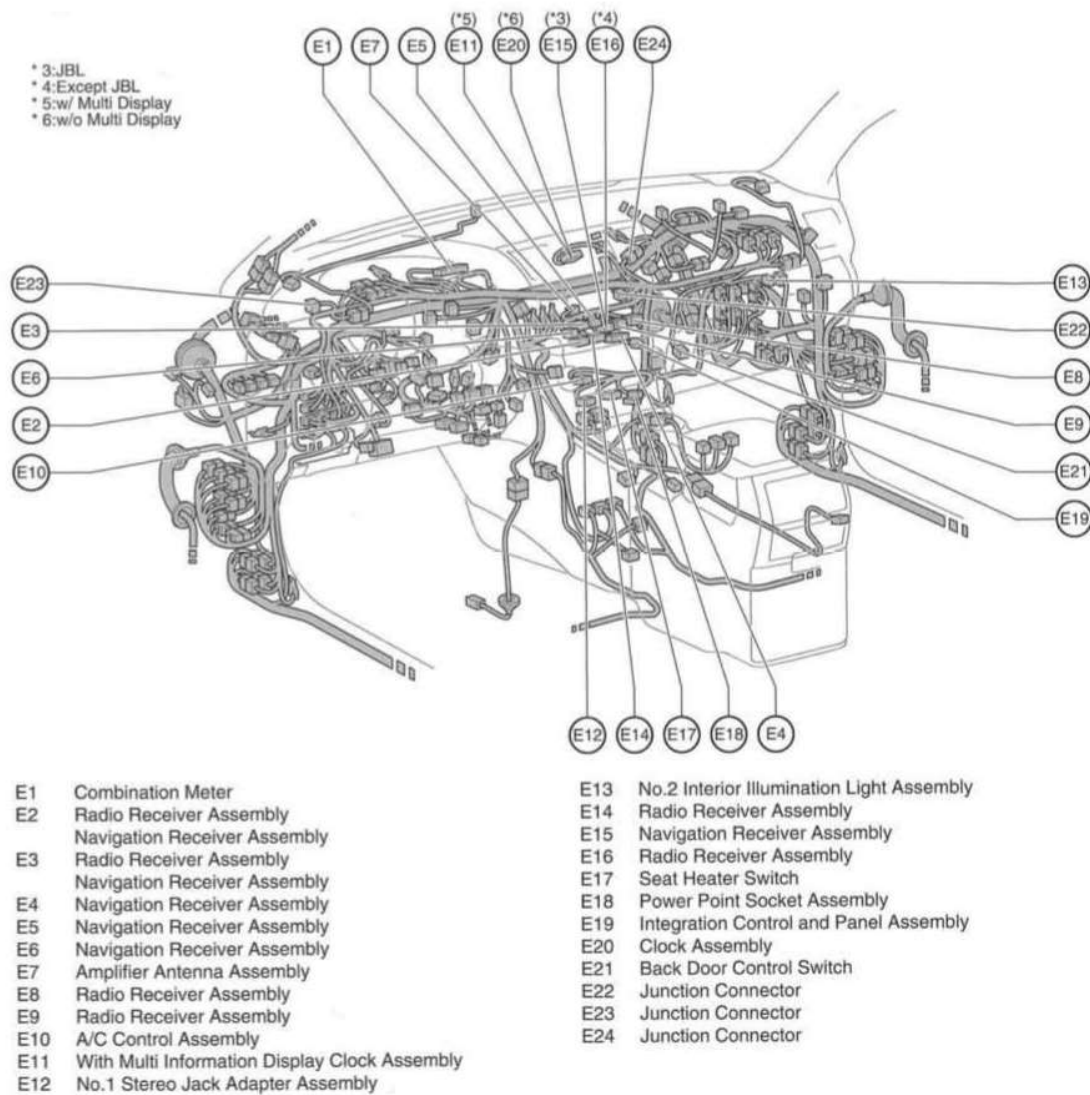


Fig. 14: Dash & Center Console

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2009 Toyota Highlander Limited

2009 TOYOTA Highlander

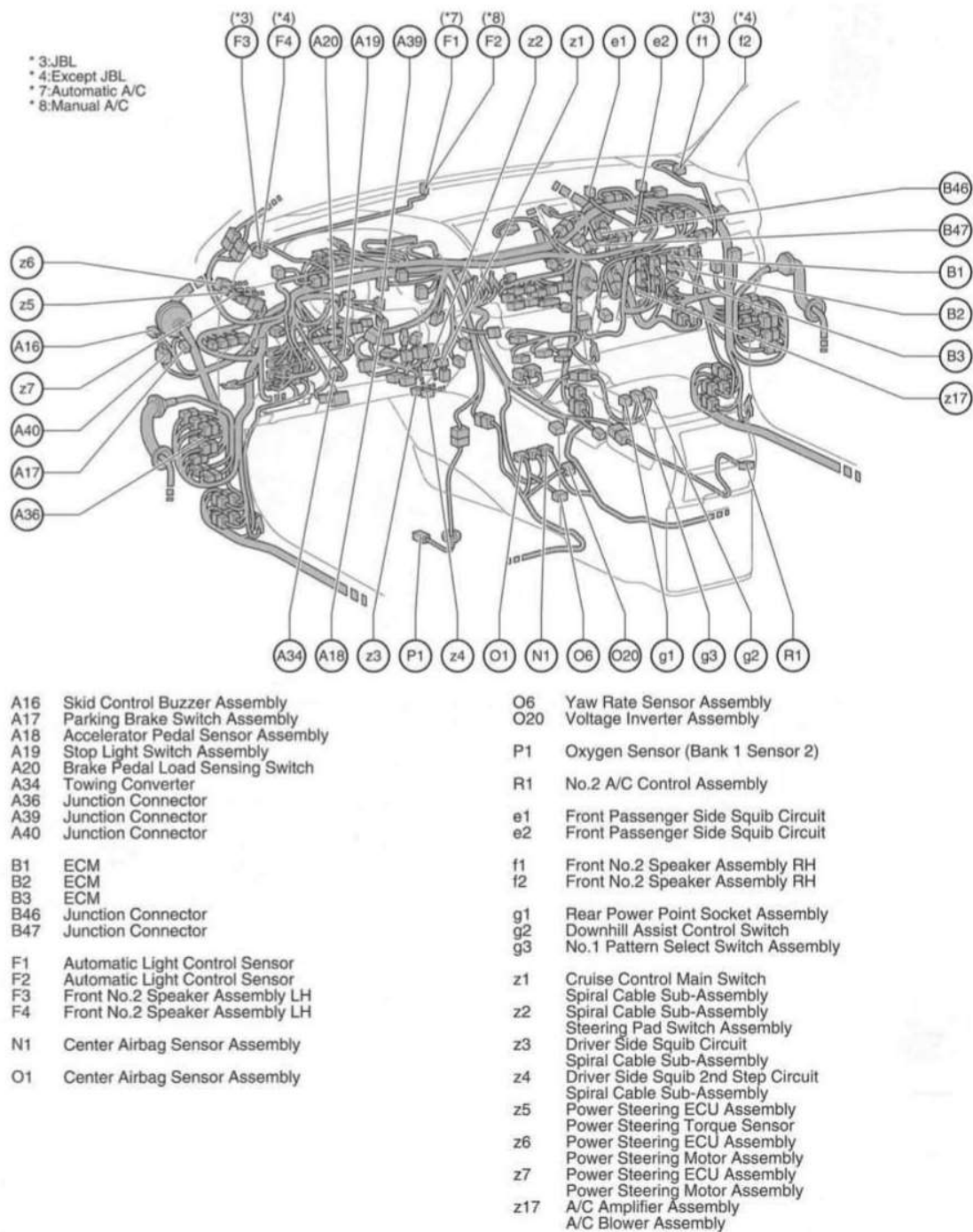


Fig. 15: Dash & Center Console

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2009 Toyota Highlander Limited

2009 TOYOTA Highlander

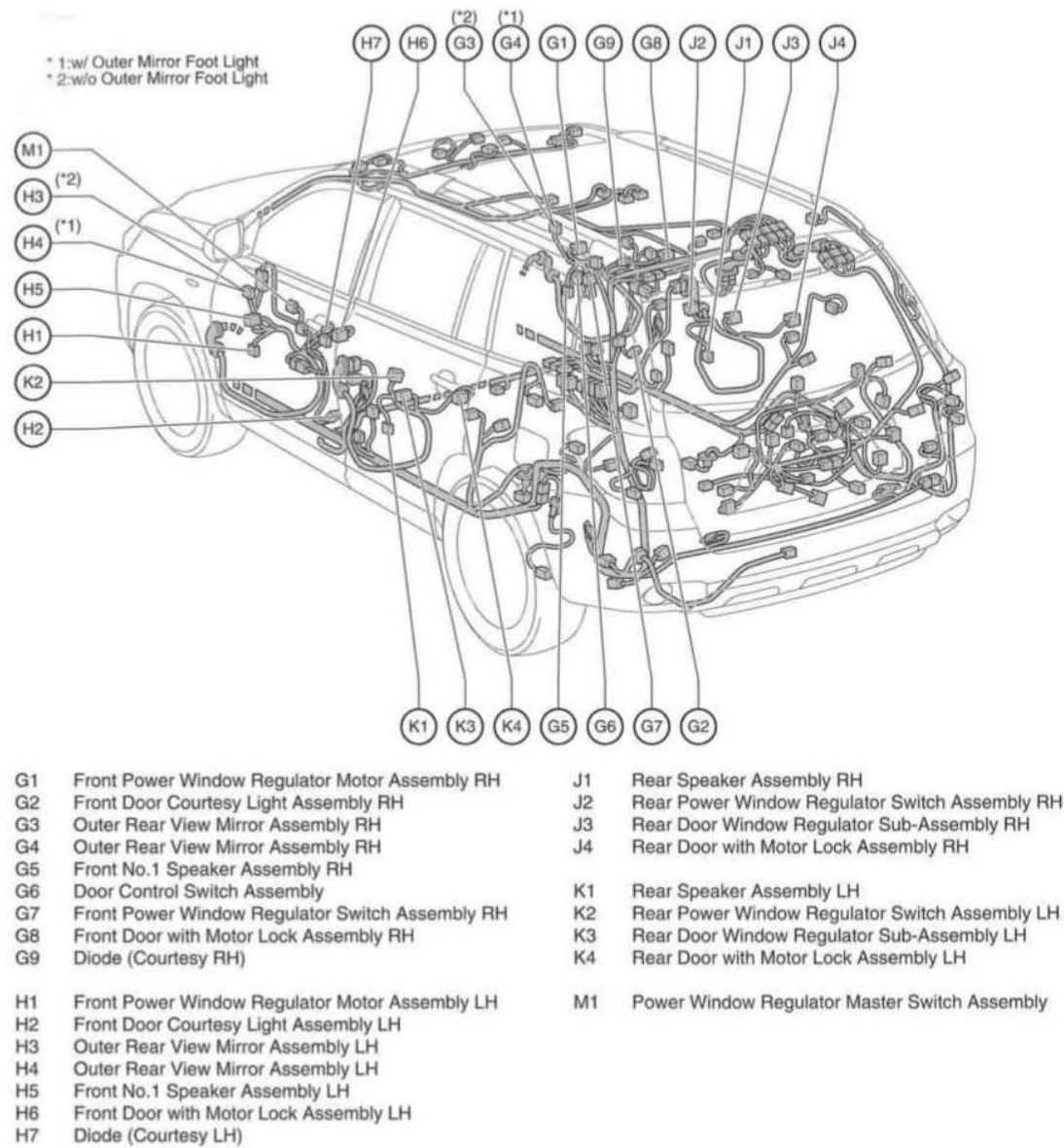


Fig. 16: Vehicle Overview
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2009 Toyota Highlander Limited

2009 TOYOTA Highlander

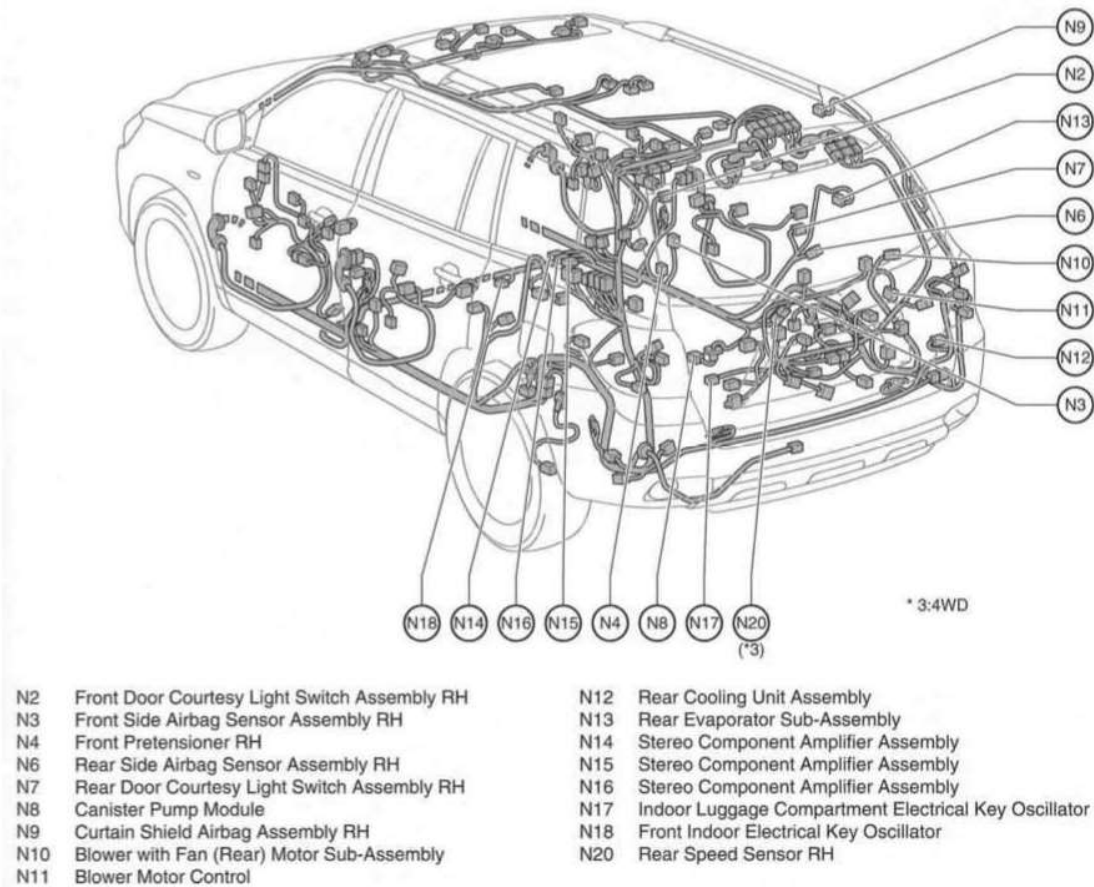
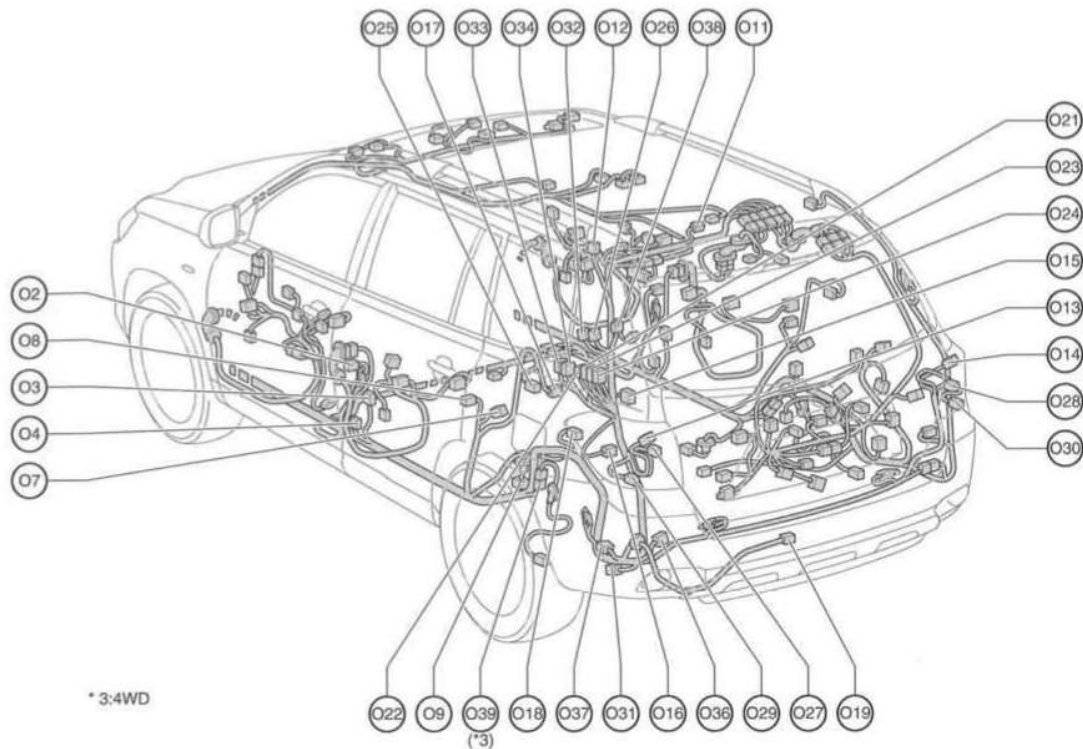


Fig. 17: Vehicle Overview
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2009 Toyota Highlander Limited

2009 TOYOTA Highlander



O02	Front Door Courtesy Light Switch Assembly LH	O23	Junction Connector
O03	Front Side Airbag Sensor Assembly LH	O24	Junction Connector
O04	Front Pretensioner LH	O25	Video Adapter Terminal
O07	Rear Side Airbag Sensor Assembly LH	O26	Door Control Receiver
O08	Rear Door Courtesy Light Switch Assembly LH	O27	Rear Turn Signal Light Socket LH
O09	Fuel Pump	O28	Rear Turn Signal Light Socket RH
	Fuel Sender Gauge Assembly	O29	Tail and Stop Light Socket LH
O11	Tire Pressure Warning Antenna and Receiver	O30	Tail and Stop Light Socket RH
O12	Curtain Shield Airbag Assembly LH	O31	Trailer Hitch
O13	Back Up Light Socket LH	O32	Door Control Receiver
O14	Back Up Light Socket RH	O33	No.1 Glass Hatch Junction Relay
O15	Back Door Motor Unit	O34	No.2 Glass Hatch Junction Relay
O16	Power Outlet Socket Assembly	O36	Junction Connector
O17	No.2 Power Point Socket Assembly	O37	Junction Connector
O18	Rear Indoor Electrical Key Oscillator	O38	Junction Connector
O19	Outside Luggage Electrical Key Antenna	O39	Rear Speed Sensor LH
O21	Junction Connector		
O22	Junction Connector		

Fig. 18: Vehicle Overview

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2009 Toyota Highlander Limited

2009 TOYOTA Highlander

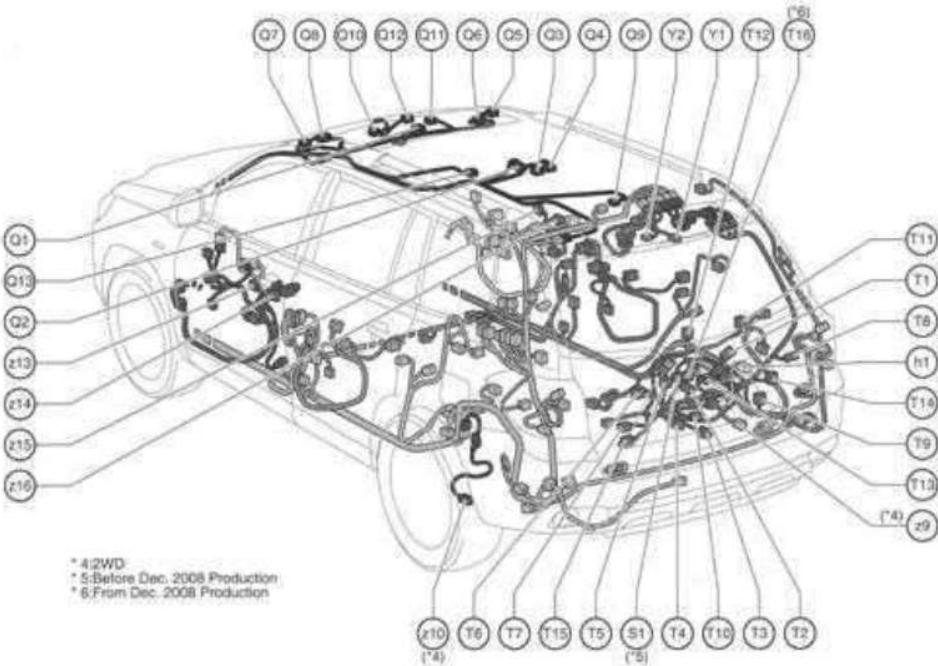


Fig. 19: Vehicle Overview
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2009 Toyota Highlander Limited

2009 TOYOTA Highlander

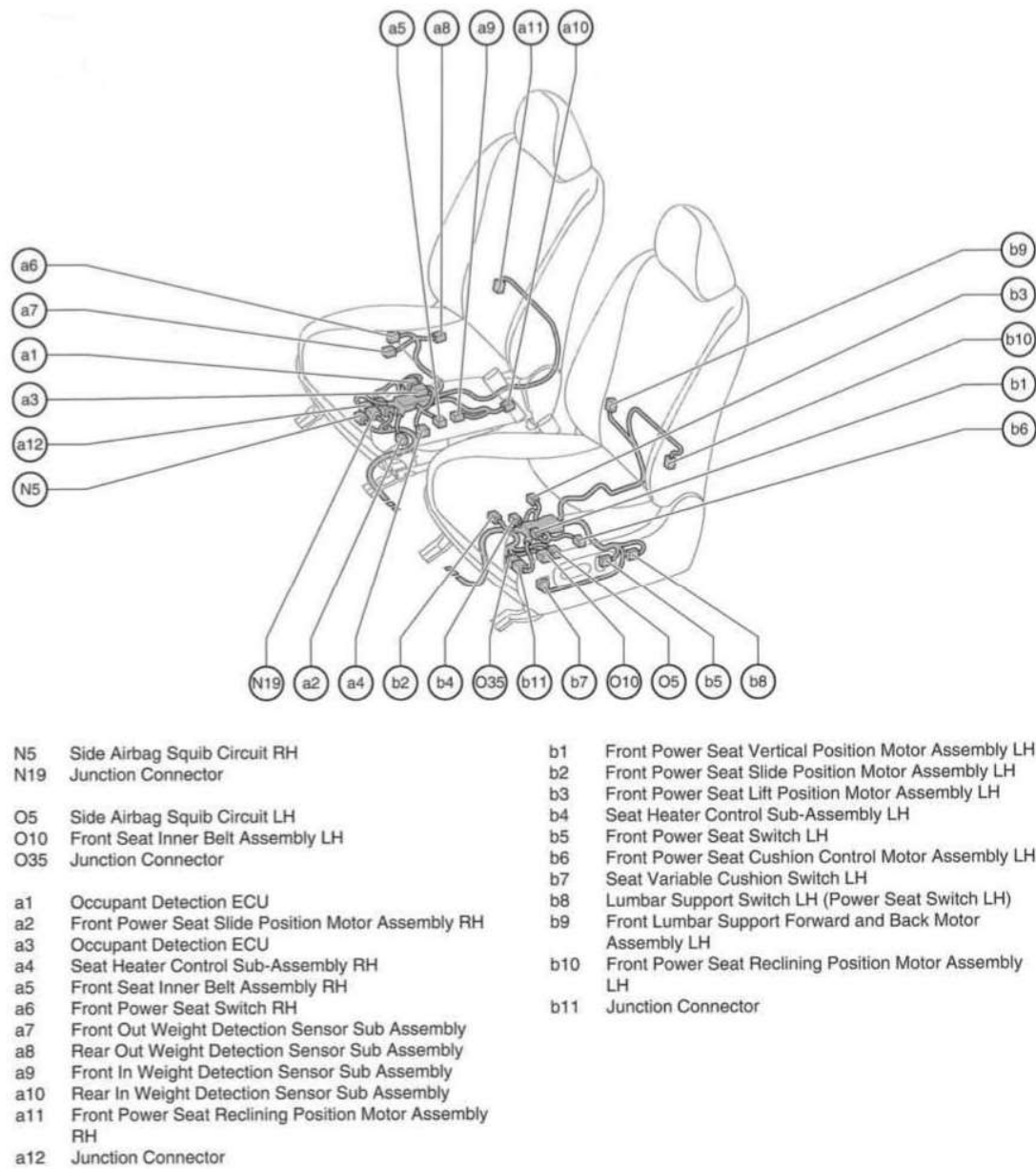


Fig. 20: Front Seats
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2009 Toyota Highlander Limited

2009 TOYOTA Highlander

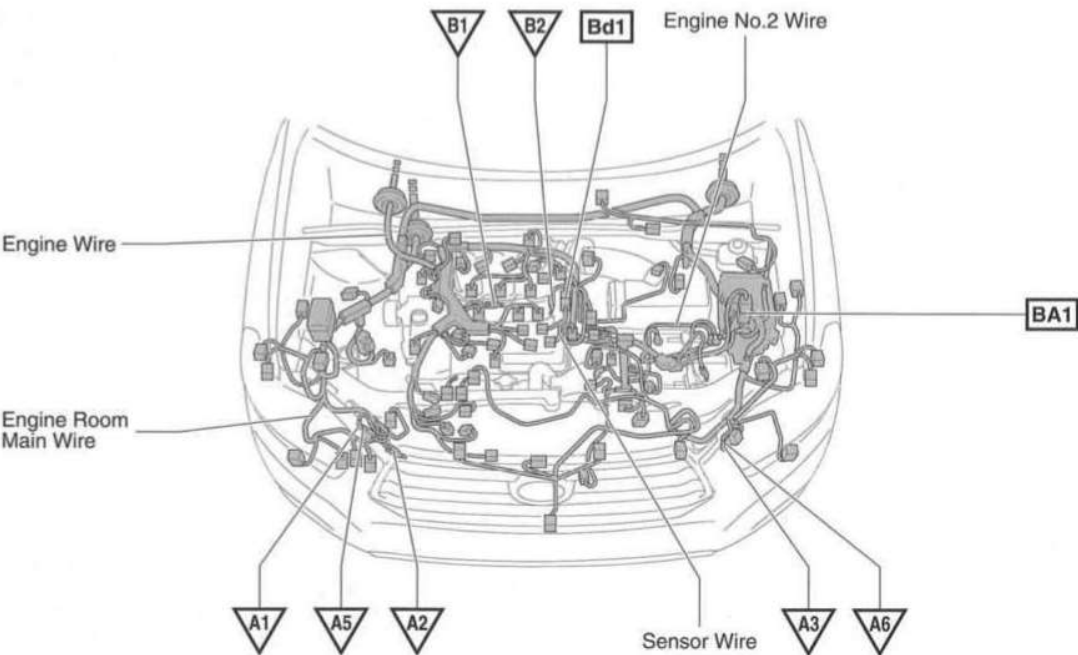


Fig. 21: Engine Compartment
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

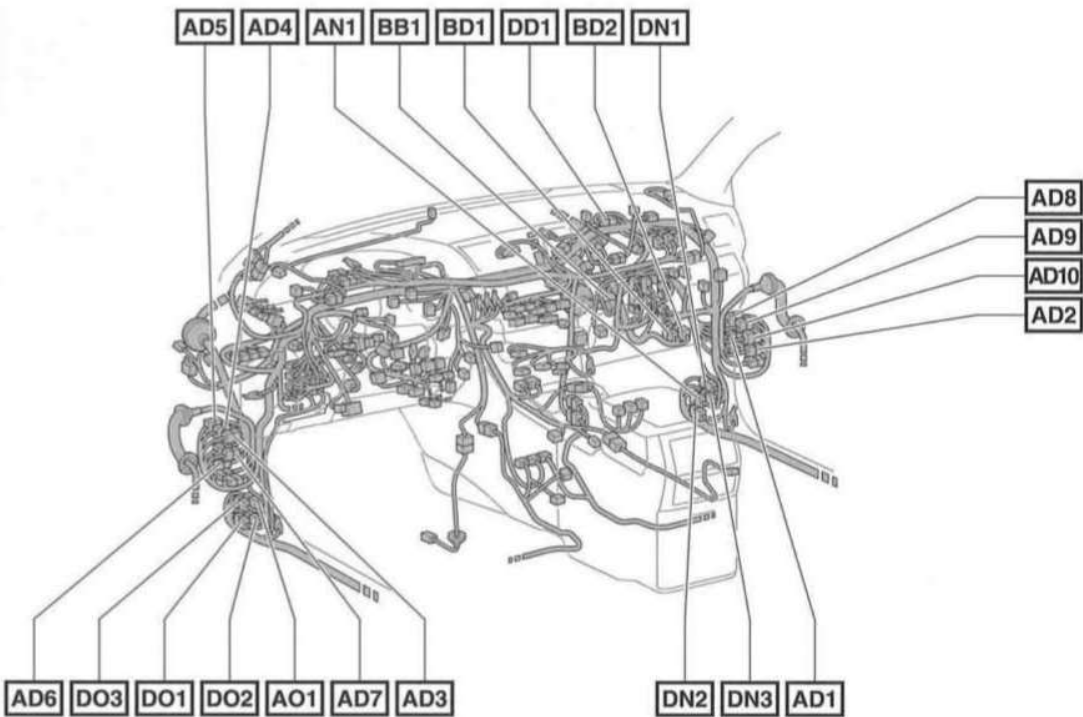


Fig. 22: Kick Panels
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2009 Toyota Highlander Limited

2009 TOYOTA Highlander

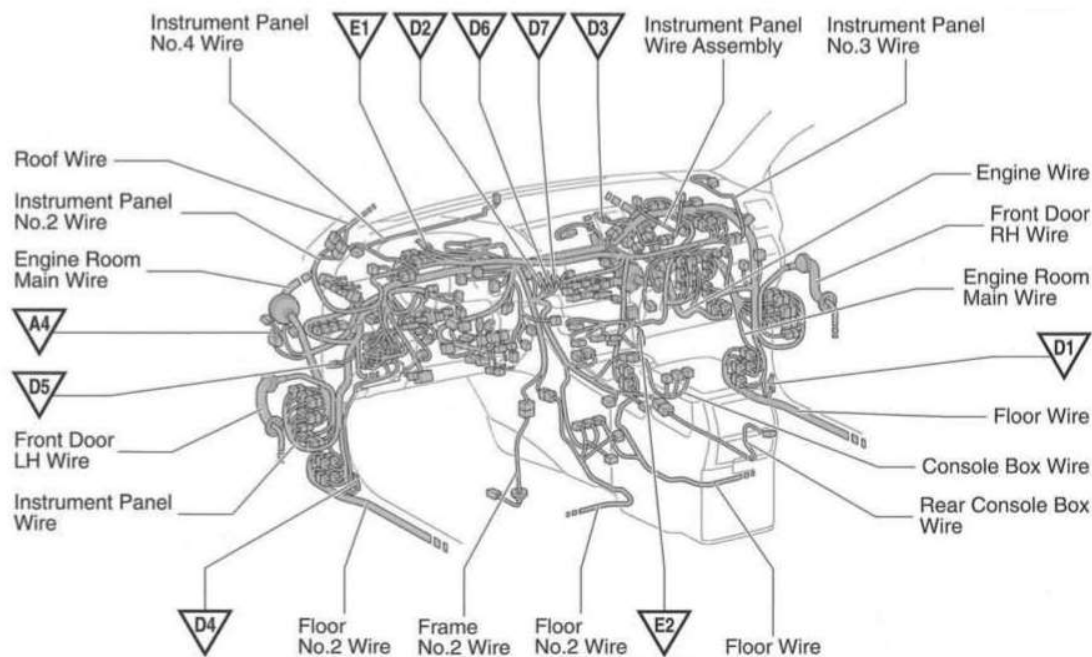


Fig. 23: Dash & Center Console
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

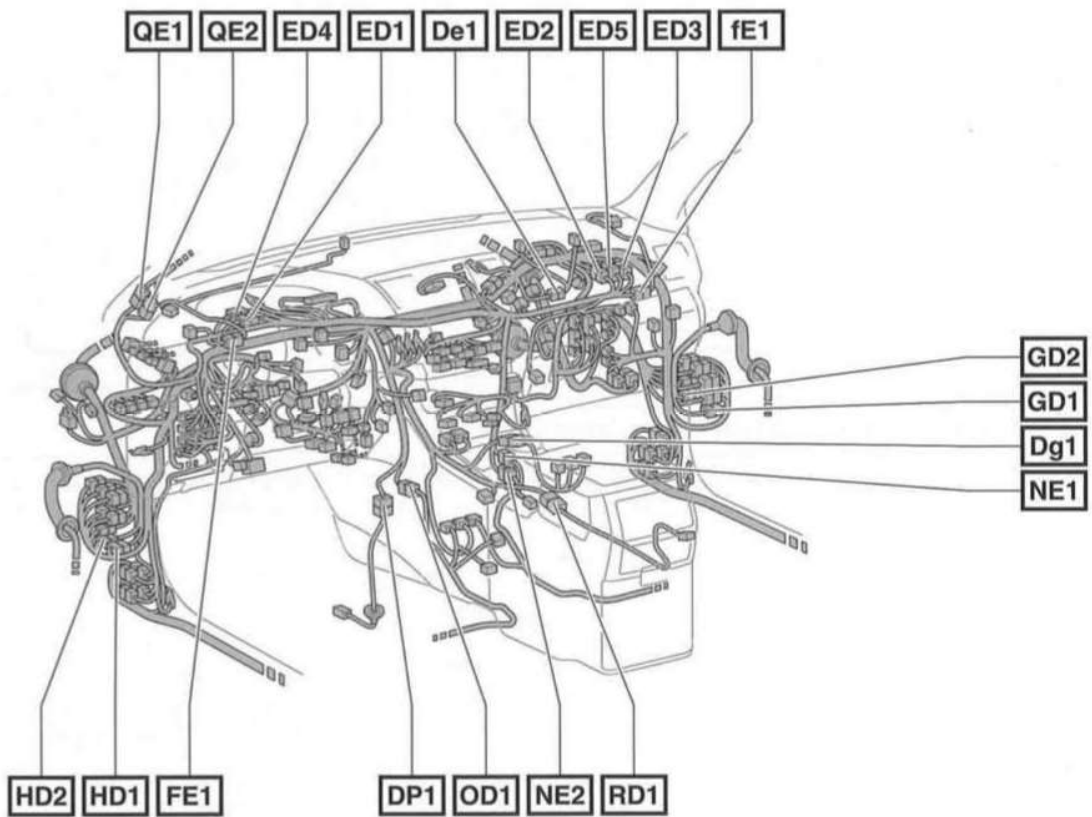


Fig. 24: Dash & Center Console
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2009 Toyota Highlander Limited

2009 TOYOTA Highlander

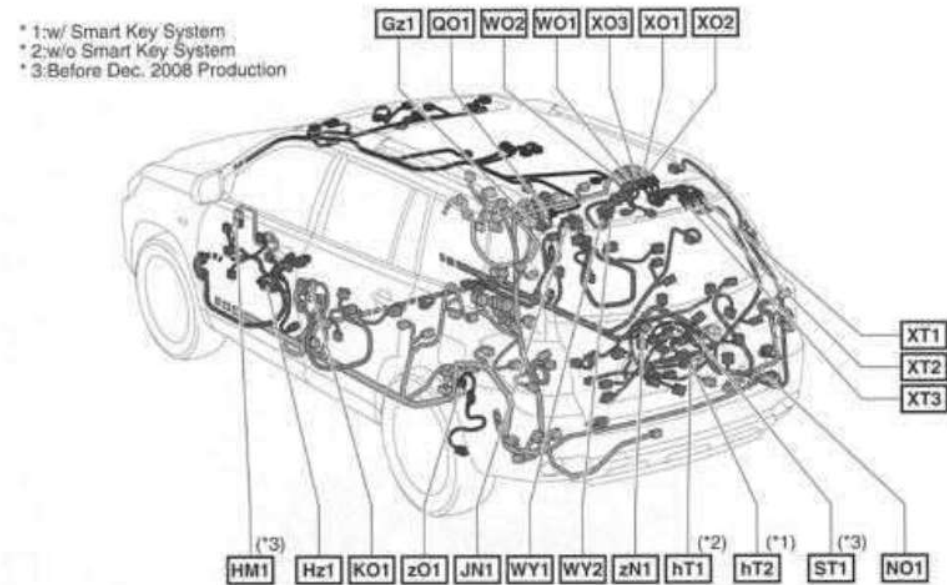


Fig. 25: Vehicle Overview
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

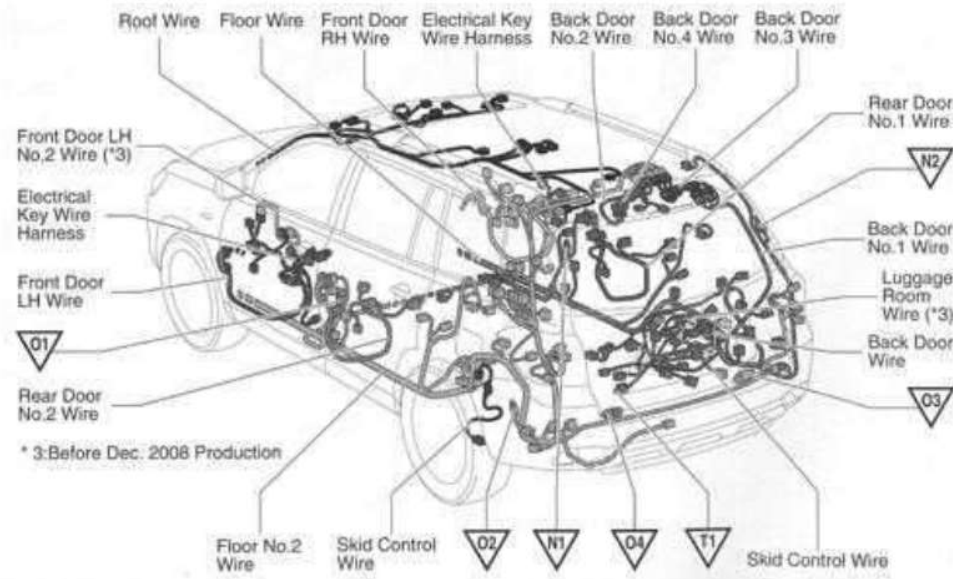


Fig. 26: Vehicle Overview
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2009 Toyota Highlander Limited

2009 TOYOTA Highlander

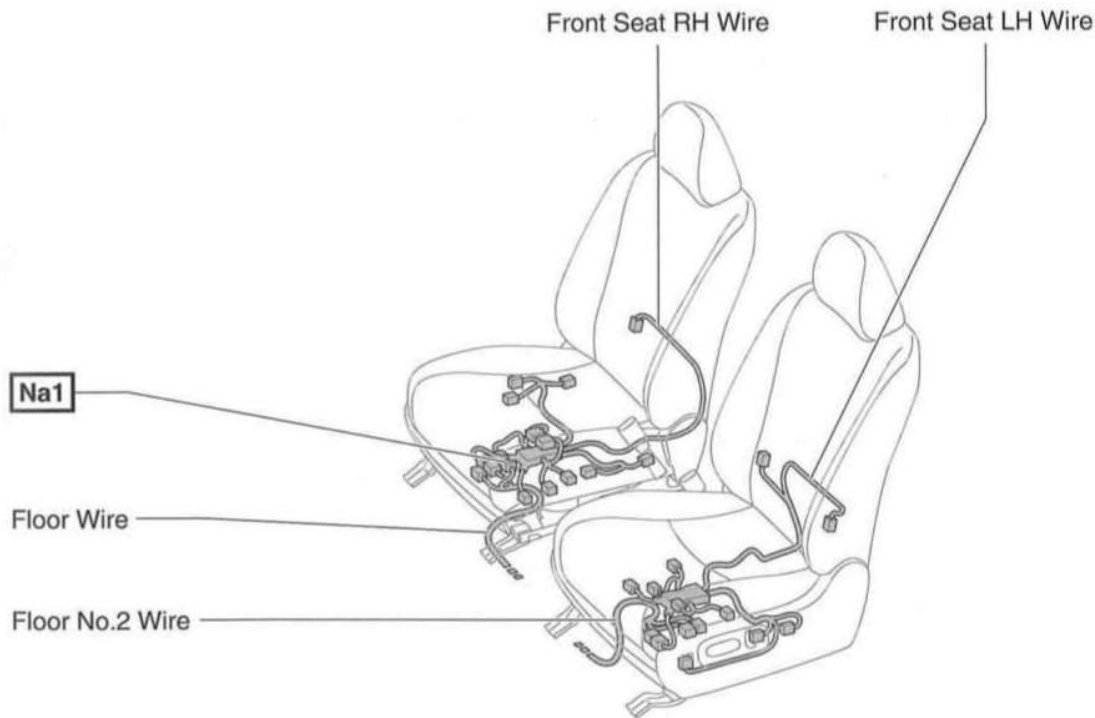


Fig. 27: Front Seats
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

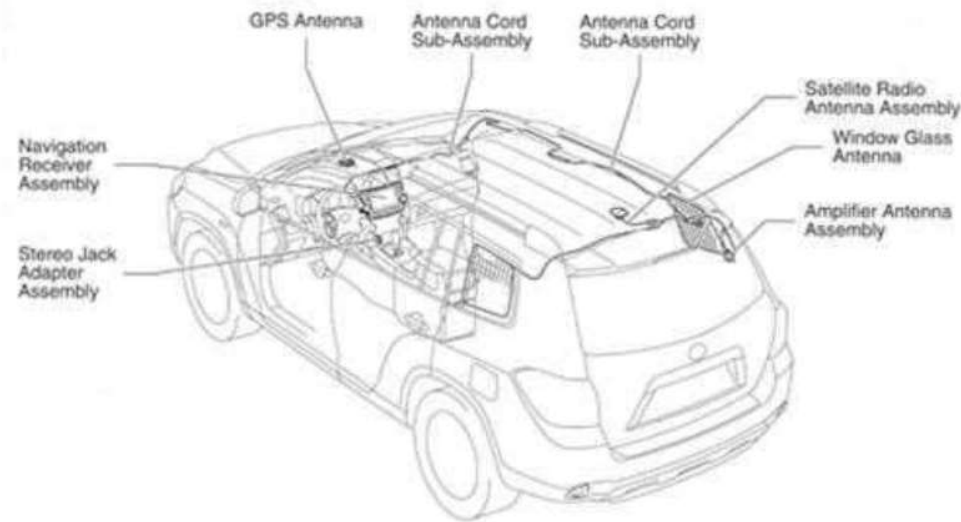


Fig. 28: Body Overview
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2009 Toyota Highlander Limited

2009 TOYOTA Highlander

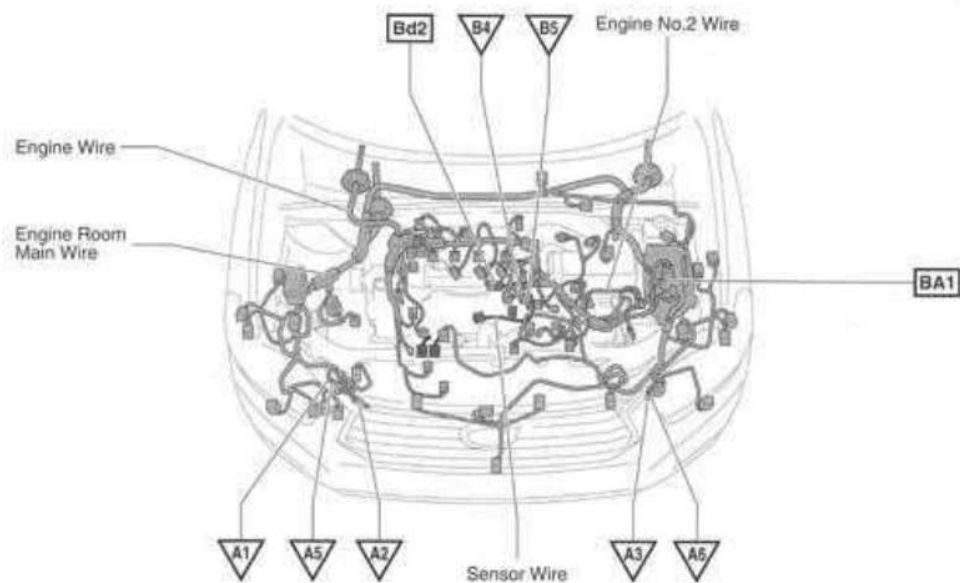


Fig. 29: Engine Compartment
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

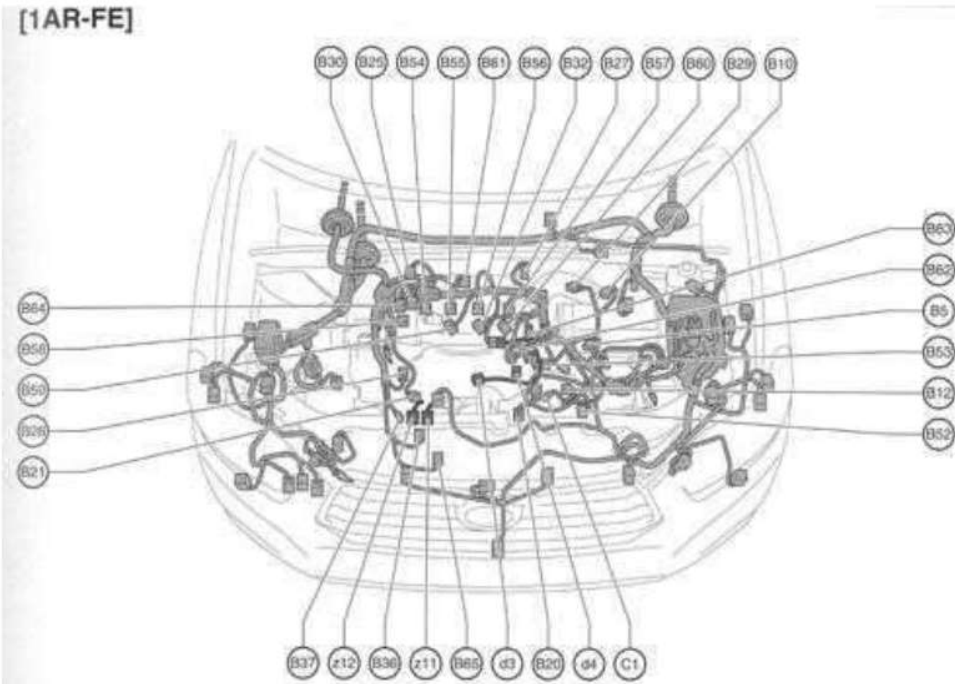


Fig. 30: Engine Compartment
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.