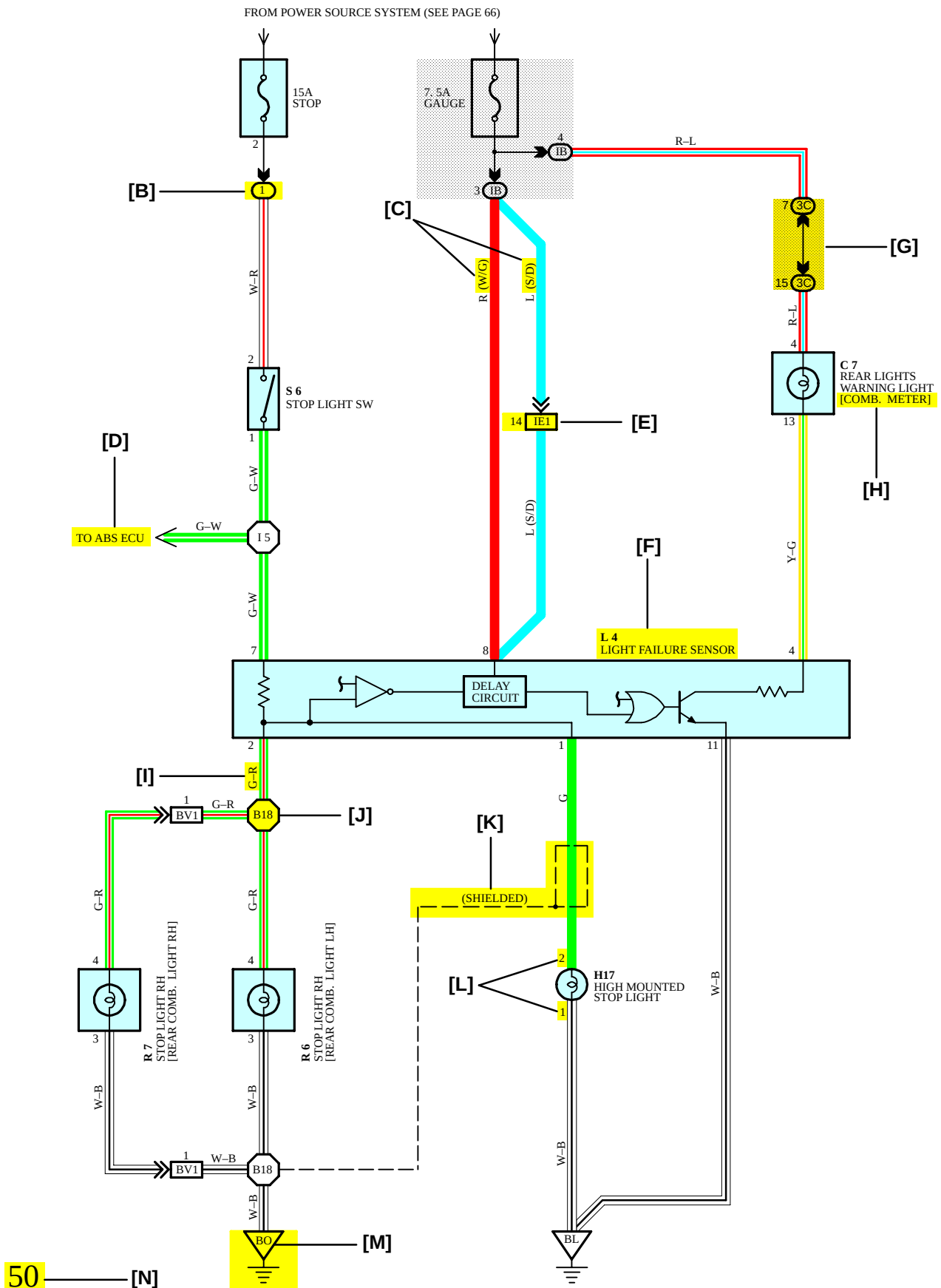


B HOW TO USE THIS MANUAL

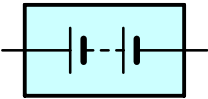
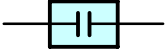
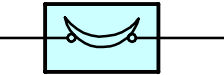
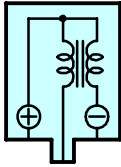
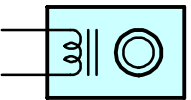
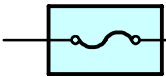
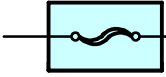
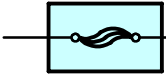
[A]

STOP LIGHT

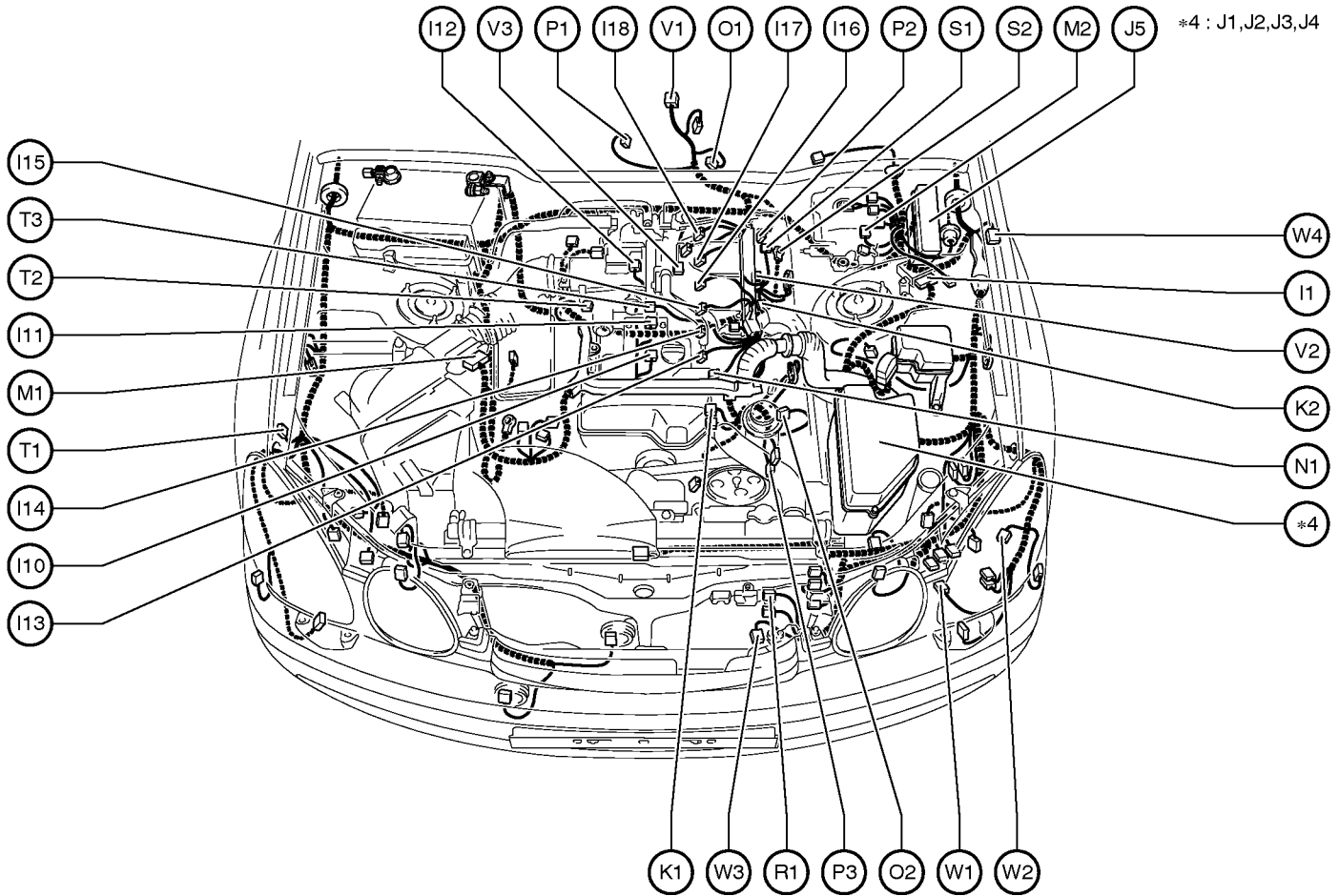
* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.



E GLOSSARY OF TERMS AND SYMBOLS

 BATTERY Stores chemical energy and converts it into electrical energy. Provides DC current for the auto's various electrical circuits.	 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.
 CAPACITOR (Condenser) A small holding unit for temporary storage of electrical voltage.	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 1. SINGLE FILAMENT  2. DOUBLE FILAMENT 
 CIGARETTE LIGHTER An electric resistance heating element.	
 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.	 HORN An electric device which sounds a loud audible signal.
 DIODE A semiconductor which allows current flow in only one direction.	 IGNITION COIL Converts low-voltage DC current into high-voltage ignition current for firing the spark plugs.
 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.	 LIGHT Current flow through a filament causes the filament to heat up and emit light.
 PHOTODIODE The photodiode is a semiconductor which controls the current flow according to the amount of light.	 LED (LIGHT EMITTING DIODE) Upon current flow, these diodes emit light without producing the heat of a comparable light.
 DISTRIBUTOR, IIA Channels high-voltage current from the ignition coil to the individual spark plugs.	 METER, ANALOG Current flow activates a magnetic coil which causes a needle to move, thereby providing a relative display against a background calibration.
 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.  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.  (for High Current Fuse or Fusible Link)	 METER, DIGITAL Current flow activates one or many LED's, LCD's, or fluorescent displays, which provide a relative or digital display.
	 MOTOR A power unit which converts electrical energy into mechanical energy, especially rotary motion.

Position of Parts in Engine Compartment



I 1 Igniter
 I 10 Ignition Coil No.1
 I 11 Ignition Coil No.2
 I 12 Ignition Coil No.3
 I 13 Injector No.1
 I 14 Injector No.2
 I 15 Injector No.3
 I 16 Injector No.4
 I 17 Injector No.5
 I 18 Injector No.6

J 1 Junction Connector
 J 2 Junction Connector
 J 3 Junction Connector
 J 4 Junction Connector
 J 5 Junction Connector

K 1 Knock Sensor 1
 K 2 Knock Sensor 2

M 1 Mass Air Flow Meter
 M 2 Master Cylinder Pressure Sensor

N 1 Noise Filter (Ignition)

O 1 O/D Direct Clutch Speed Sensor
 O 2 Oil Pressure SW

P 1 Park/Neutral Position SW
 P 2 Power Steering Oil Pressure SW
 P 3 PPS Solenoid

R 1 Radiator Fan Motor

S 1 Starter
 S 2 Starter

T 1 Theft Deterrent Horn
 T 2 Throttle Control Motor
 T 3 Throttle Position Sensor

V 1 Vehicle Speed Sensor (Electronically Controlled Transmission)
 V 2 VSV (ACIS)
 V 3 VSV (EVAP)

W 1 Washer Level Warning SW
 W 2 Washer Motor
 W 3 Water Temp. SW
 W 4 Wireless Door Lock Buzzer

AUTOMATIC AIR CONDITIONING



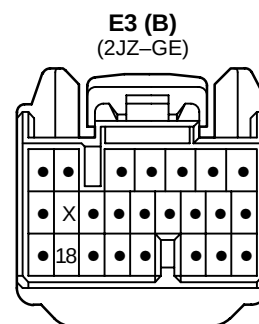
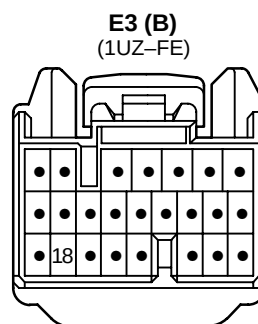
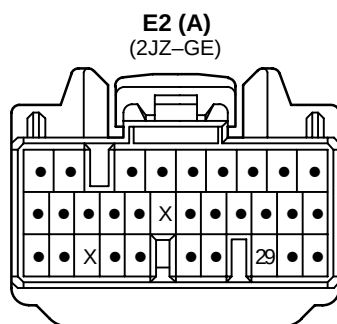
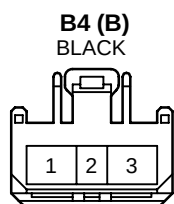
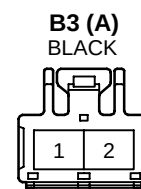
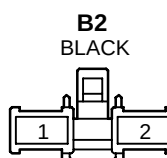
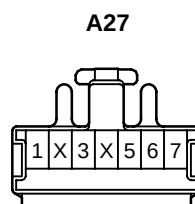
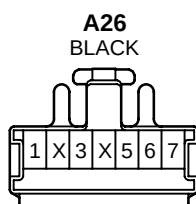
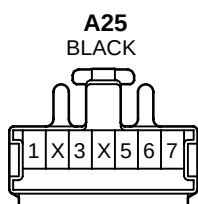
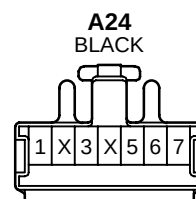
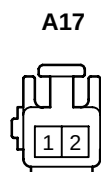
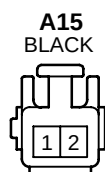
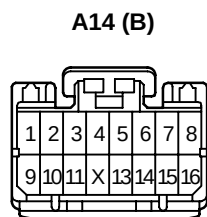
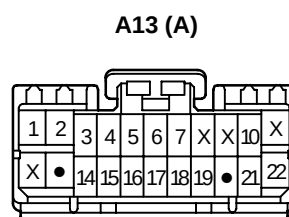
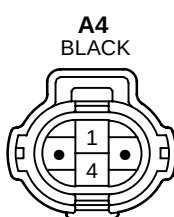
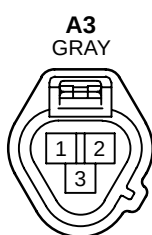
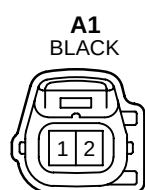
: GROUND POINTS

Code	See Page	Ground Points Location
EB	46 (1UZ-FE)	Left Fender
	48 (2JZ-GE)	
EC	46 (1UZ-FE)	RH Bank of the Cylinder Head
	48 (2JZ-GE)	Front Side of the Intake Manifold
ED	46 (1UZ-FE)	LH Bank of the Cylinder Head
	48 (2JZ-GE)	Rear Side of the Intake Manifold
IF	50	Left Kick Panel
II	50	Right Side of the Cowl Panel



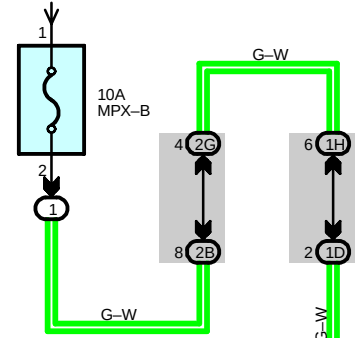
: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	46 (1UZ-FE)	Engine Wire	E4	48 (2JZ-GE)	Cowl Wire
	48 (2JZ-GE)		I2	52	A/C Sub Wire
E4	46 (1UZ-FE)	Cowl Wire			

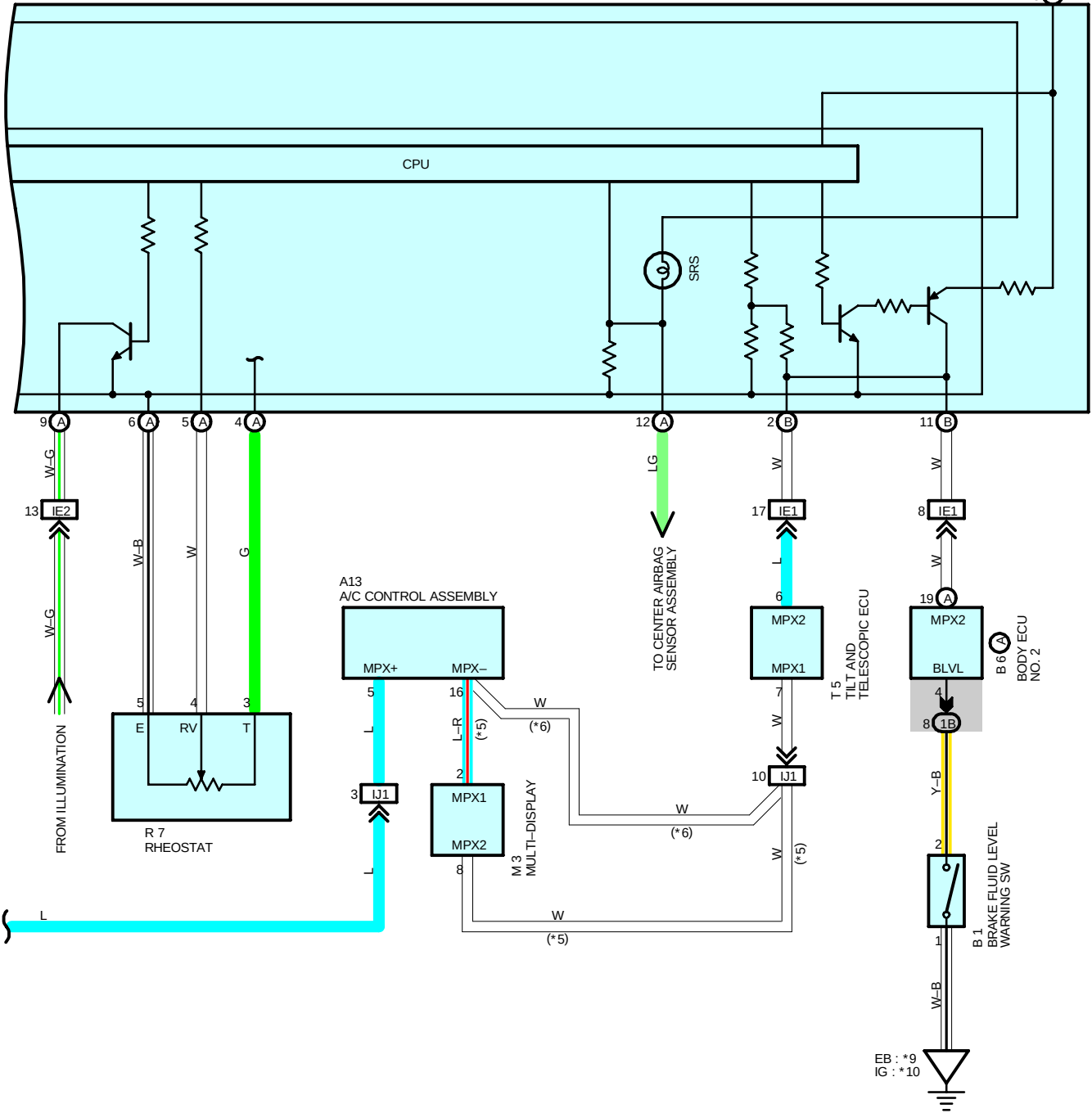


FROM POWER SOURCE SYSTEM (SEE PAGE 60)

- * 3 : 1UZ-FE * 5 : W/ LEXUS NAVIGATION SYSTEM * 7 : USA * 9 : W/O DAYTIME RUNNING LIGHT
- * 4 : 2JZ-GE * 6 : W/O LEXUS NAVIGATION SYSTEM * 8 : CANADA, TAIWAN * 10 : W/ DAYTIME RUNNING LIGHT

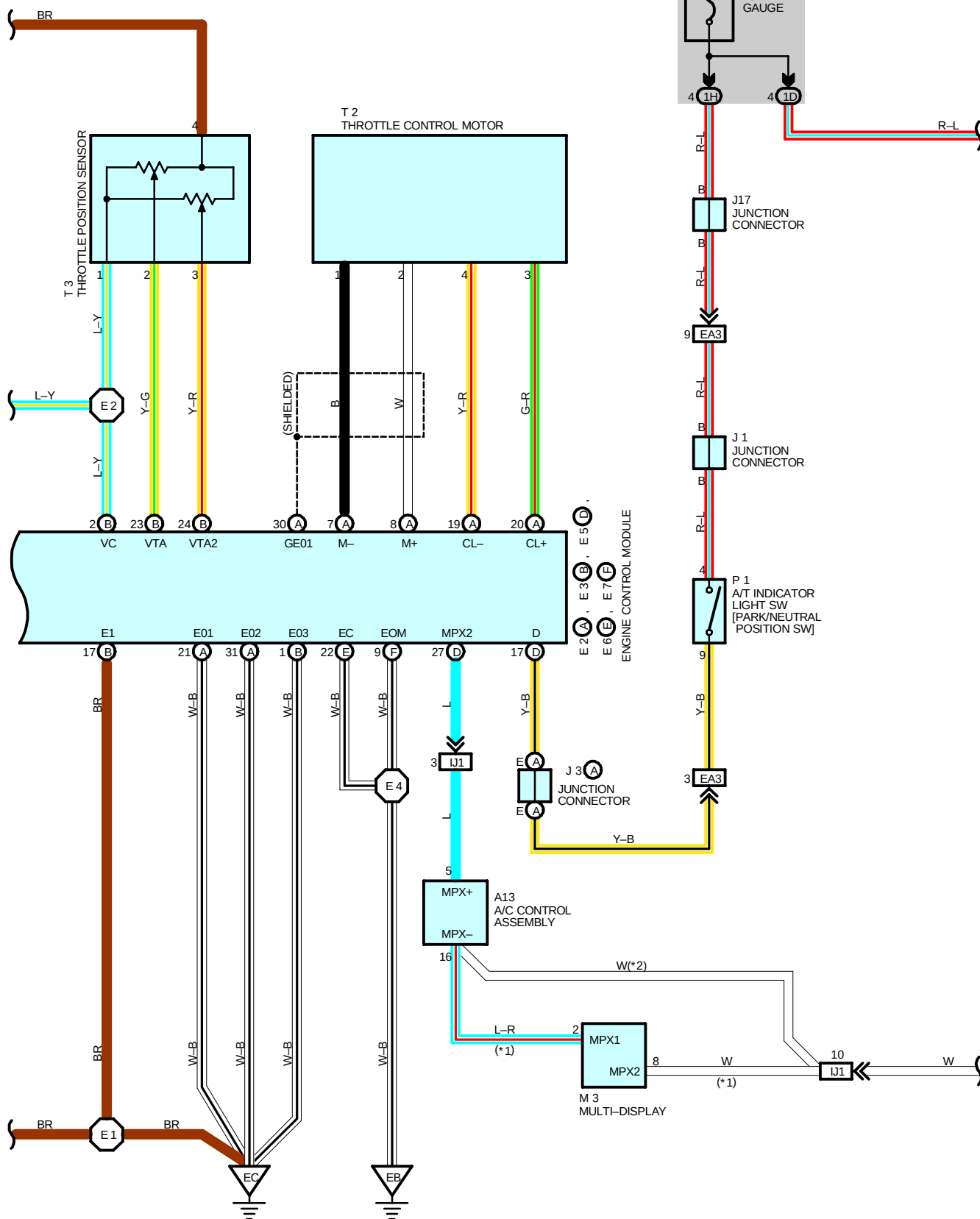


C12 (A), C13 (B)
COMBINATION METER



FROM POWER SOURCE SYSTEM (SEE PAGE 60)

* 1 : W/ LEXUS NAVIGATION SYSTEM
* 2 : W/O LEXUS NAVIGATION SYSTEM



○ : PARTS LOCATION

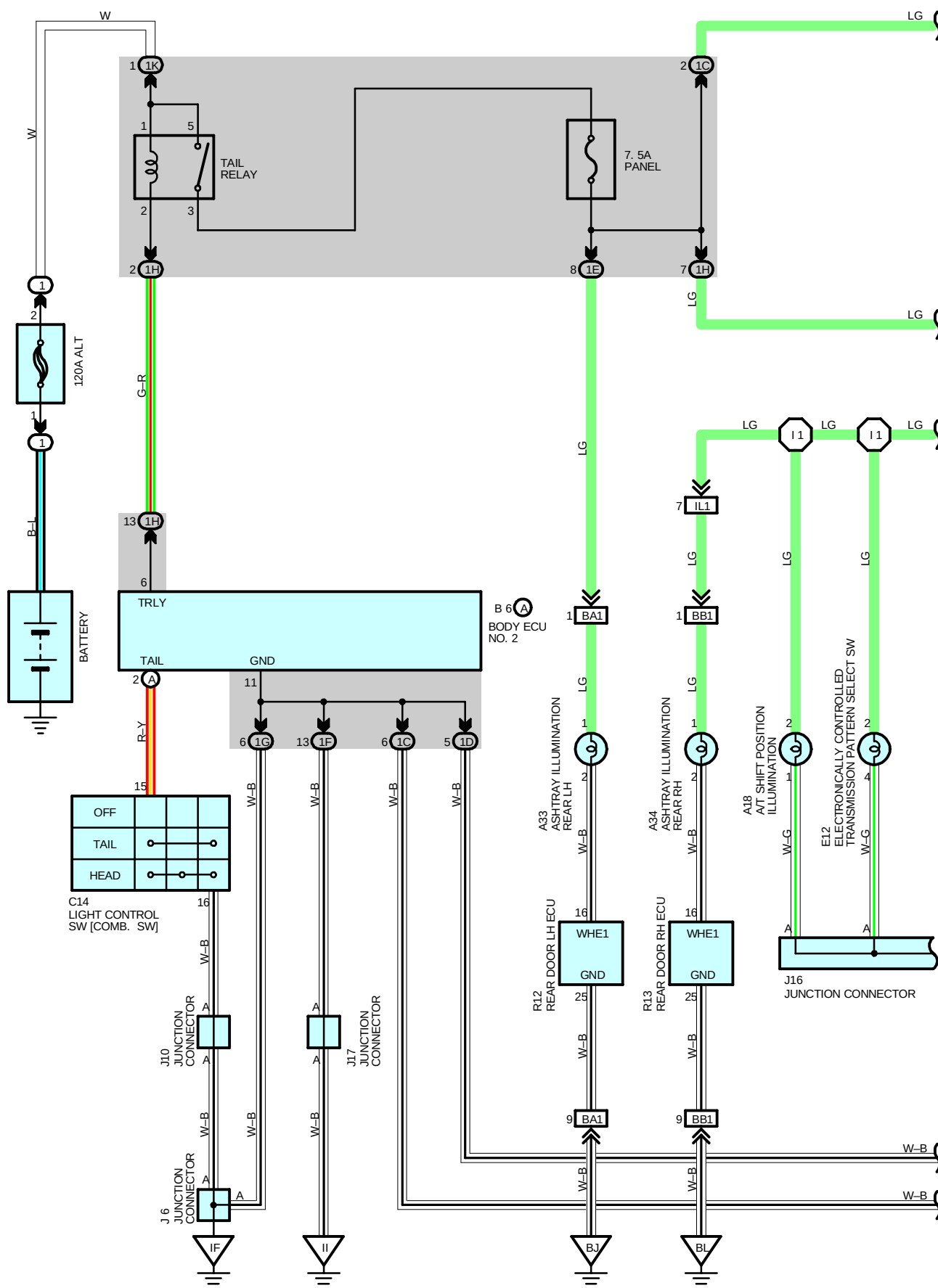
Code	See Page	Code	See Page	Code	See Page
A10	36 (1UZ-FE)	H21	40	J9	41
A13	40	I2	37 (1UZ-FE)	J10	41
A20	40	I3	37 (1UZ-FE)	J11	41
B5	40	I4	37 (1UZ-FE)	J14	41
C1	36 (1UZ-FE)	I5	37 (1UZ-FE)	J15	41
C3	36 (1UZ-FE)	I6	37 (1UZ-FE)	J17	41
C4	36 (1UZ-FE)	I7	37 (1UZ-FE)	J20	42
C5	36 (1UZ-FE)	I8	37 (1UZ-FE)	K1	37 (1UZ-FE)
C12	A 40	I9	37 (1UZ-FE)	K2	37 (1UZ-FE)
C13	B 40	I13	37 (1UZ-FE)	M1	37 (1UZ-FE)
D1	36 (1UZ-FE)	I14	37 (1UZ-FE)	M3	41
D4	40	I15	37 (1UZ-FE)	P1	37 (1UZ-FE)
E2	A 36 (1UZ-FE)	I16	37 (1UZ-FE)	S11	41
E3	B 36 (1UZ-FE)	I17	37 (1UZ-FE)	T2	37 (1UZ-FE)
E4	C 36 (1UZ-FE)	I18	37 (1UZ-FE)	T3	37 (1UZ-FE)
E5	D 36 (1UZ-FE)	I19	37 (1UZ-FE)	T5	41
E6	E 36 (1UZ-FE)	I20	37 (1UZ-FE)	T6	41
E7	F 36 (1UZ-FE)	I22	41	V2	37 (1UZ-FE)
E8	36 (1UZ-FE)	J2	37 (1UZ-FE)	V3	37 (1UZ-FE)
F15	42	J3	A 37 (1UZ-FE)	V4	37 (1UZ-FE)
F16	42	J4	B 37 (1UZ-FE)	V5	37 (1UZ-FE)
H12	36 (1UZ-FE)	J5	37 (1UZ-FE)	V10	43
H14	36 (1UZ-FE)	J6	41	V11	43
H20	40	J7	41		

○ : RELAY BLOCKS

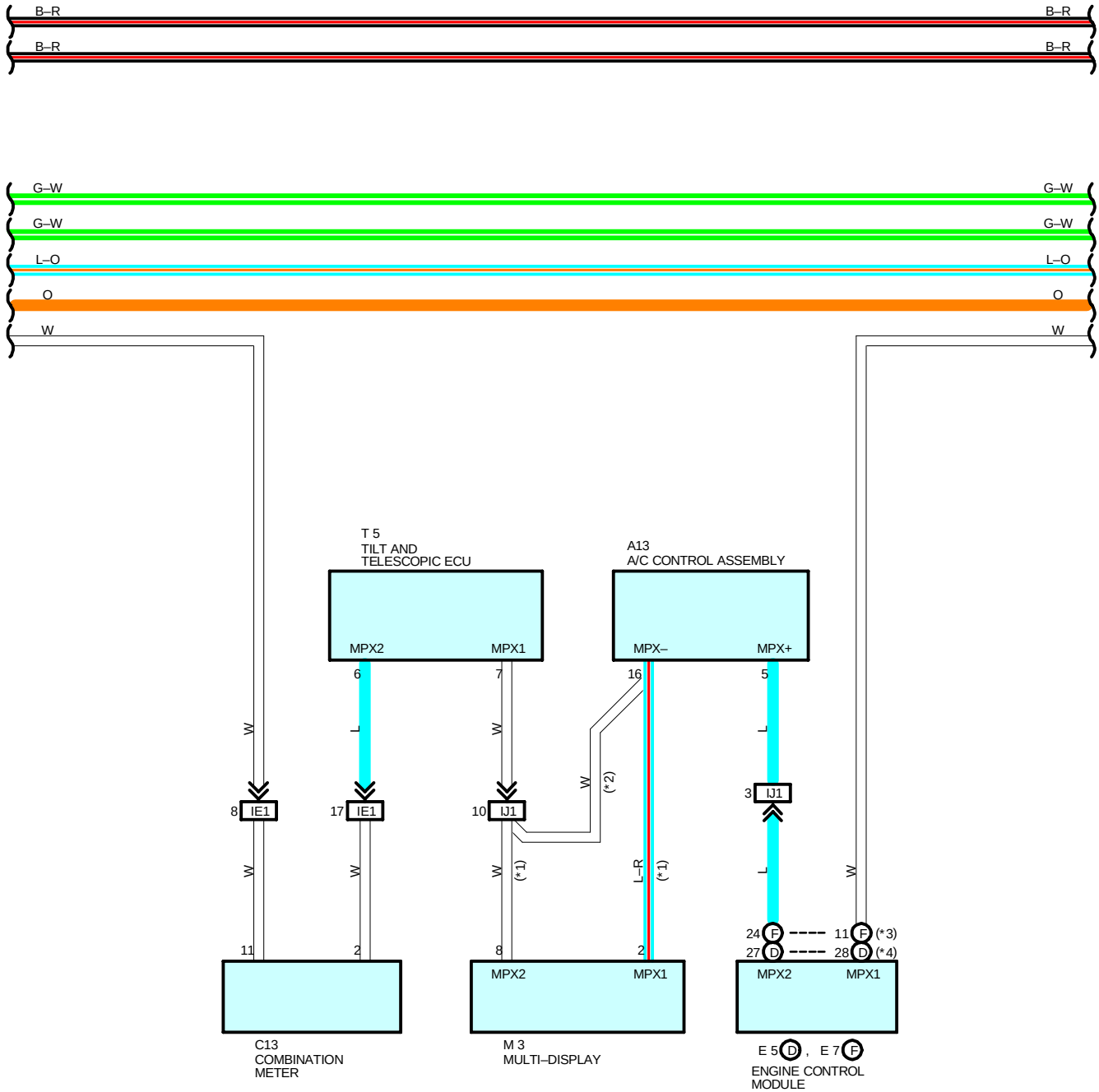
Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room No.1 R/B (Engine Compartment Right)

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	26	Instrument Panel Wire and Driver Side J/B (Left Kick Panel)
1F	26	Cowl Wire and Driver Side J/B (Left Kick Panel)
1G	27	
1H		
1J		
1K	26	
2F	28	Cowl Wire and Passenger Side J/B (Right Kick Panel)
2G	29	



* 3 : 1UZ-FE
* 4 : 2JZ-GE



MULTIPLEX COMMUNICATION SYSTEM

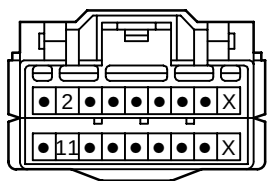
○ : PARTS LOCATION

Code		See Page	Code		See Page	Code	See Page	
A13		40	F11	A	42	P12	43	
A30		40	F12	B	42	P13	43	
B1		36 (1UZ–FE)	F13	C	42	P16	44	
		38 (2JZ–GE)	G5		42	P18	A	44
B5	A	40	H18		40	P19	B	44
B6	A	40	I21		41	P20		44
B7		44	I24		42	P21		44
B8		44	I25		42	P22		44
C8		40	J6		41	P23		44
C11		40	J7		41	P24		44
C12	A	40	J8		41	P30		44
C13	B	40	J9		41	P31		44
C14		40	J10		41	P32		44
D4		40	J13		41	P33		44
D5		40	J14		41	R6		41
D8		42	J15		41	R7		41
D9		42	J17		41	R12		43
D10		42	J18		41	R13		43
D11		42	J20		42	R16	A	43
D12		42	J22		42		B	43
D13		42	J23		44	R17	A	43
D14		42	J24		44		B	43
D15		42	L1		41	S4		41
D16		42	L4		43	S5		41
D17		42	L5		43	S6		41
D18		42	L6		43	S11		41
D19		42	L7		43	S18		44
D20		42	L8		44	T1	37 (1UZ–FE)	
D21		42	M3		41		39 (2JZ–GE)	
D22	A	42	M5		43	T5		41
D23	B	42	M7		41	U1		41
D24	C	42	N6		43	V8		43
D25		42	P4		41	V9		43
E5	D	38 (2JZ–GE)	P7		43	W4	37 (1UZ–FE)	
E7	F	36 (1UZ–FE)	P8		43		39 (2JZ–GE)	
E9		36 (1UZ–FE)	P9		43	W5		43
		38 (2JZ–GE)	P10		43			
E12		40	P11		43			

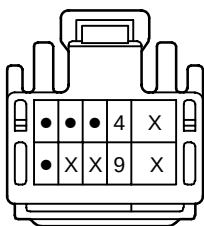
○ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room No.1 R/B (Engine Compartment Right)
2	23	Engine Room No.2 R/B (Engine Compartment Left)
4	25	Passenger Side R/B (Right Kick Panel)

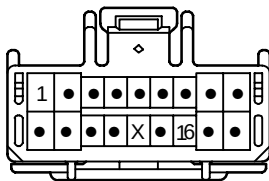
C13



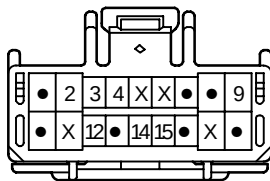
C15



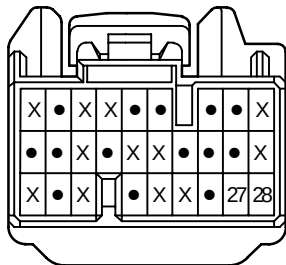
D22 (A)
GRAY



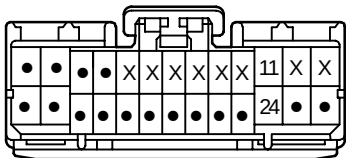
D24 (C)
GRAY



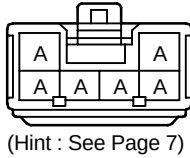
E5 (D)
(2JZ-GE)



E7 (F)
(1UZ-FE)

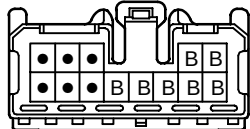


J6



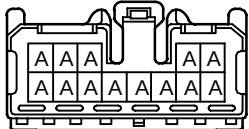
(Hint : See Page 7)

J7
GRAY



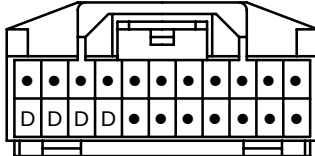
(Hint : See Page 7)

J10
ORANGE



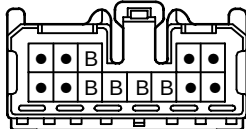
(Hint : See Page 7)

J13



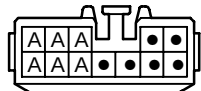
(Hint : See Page 7)

J15



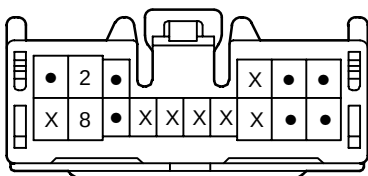
(Hint : See Page 7)

J17

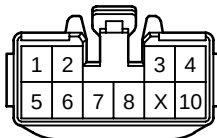


(Hint : See Page 7)

M3
BLUE



T5
GRAY



REAR WINDOW DEFOGGER AND MIRROR HEATER

SERVICE HINTS

DEF RELAY

1-2 : Closed with ignition SW at **ON** position and defogger SW on

: PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
A13		40	J10		41	R16	A	43
B5	A	40	J13		41		B	43
E5	D	38 (2JZ-GE)	J17		41	R17	A	43
E7	F	36 (1UZ-FE)	M3		41		B	43
J6		41	N5		43			

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room No.1 R/B (Engine Compartment Right)
4	25	Passenger Side R/B (Right Kick Panel)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	26	Cowl Wire and Driver Side J/B (Left Kick Panel)
2A	28	Engine Room Main Wire and Passenger Side J/B (Right Kick Panel)
2F	28	Cowl Wire and Passenger Side J/B (Right Kick Panel)
2G	29	
2H		
2J		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	50	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC2	50	Floor No.2 Wire and Cowl Wire (Left Kick Panel)
IJ1	52	Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)
IK1	52	Front Door RH Wire and Cowl Wire (Right Kick Panel)

: GROUND POINTS

Code	See Page	Ground Points Location
IF	50	Left Kick Panel
II	50	Right Side of the Cowl Panel

STARTING AND IGNITION (2JZ-GE)

SERVICE HINTS

I22 IGNITION SW

- 7-6 : Closed with ignition SW at **ON** or **ST** position
- 7-8 : Closed with ignition SW at **ST** position

P1 PARK/NEUTRAL POSITION SW

- 6-5 : Closed with A/T shift lever in **P** or **N** position

S1 (A), S2 (B) STARTER

Points closed with Park/Neutral position SW at **P** or **N** position and ignition SW at **ST** position

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
D1		I12	39 (2JZ-GE)	J15	41
E2	A	I22	41	N1	39 (2JZ-GE)
E5	D	J1	39 (2JZ-GE)	P1	39 (2JZ-GE)
I1	39 (2JZ-GE)	J3	A	S1	A
I10	39 (2JZ-GE)	J4	B	S2	B
I11	39 (2JZ-GE)	J5	39 (2JZ-GE)		

○ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room No.1 R/B (Engine Compartment Right)

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	26	Cowl Wire and Driver Side J/B (Left Kick Panel)

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

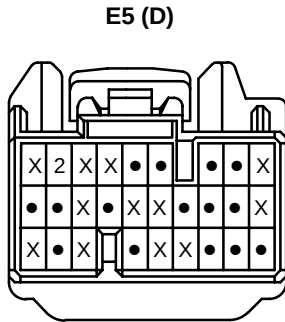
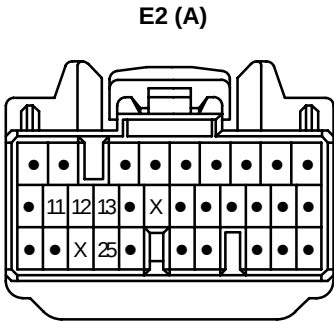
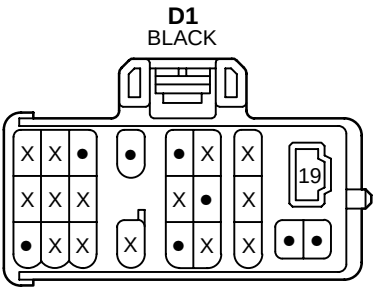
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA2	48 (2JZ-GE)	Engine Wire and Cowl Wire (Inside of the ECU Box)
EA3		
IA1	50	Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)
IA2		
II4	52	Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
ED	48 (2JZ-GE)	Rear Side of the Intake Manifold
EE	48 (2JZ-GE)	Under the ABS & TRAC & VSC Actuator

○ : SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E 2	48 (2JZ-GE)	Engine Wire			



FROM POWER SOURCE SYSTEM (SEE PAGE 60)

