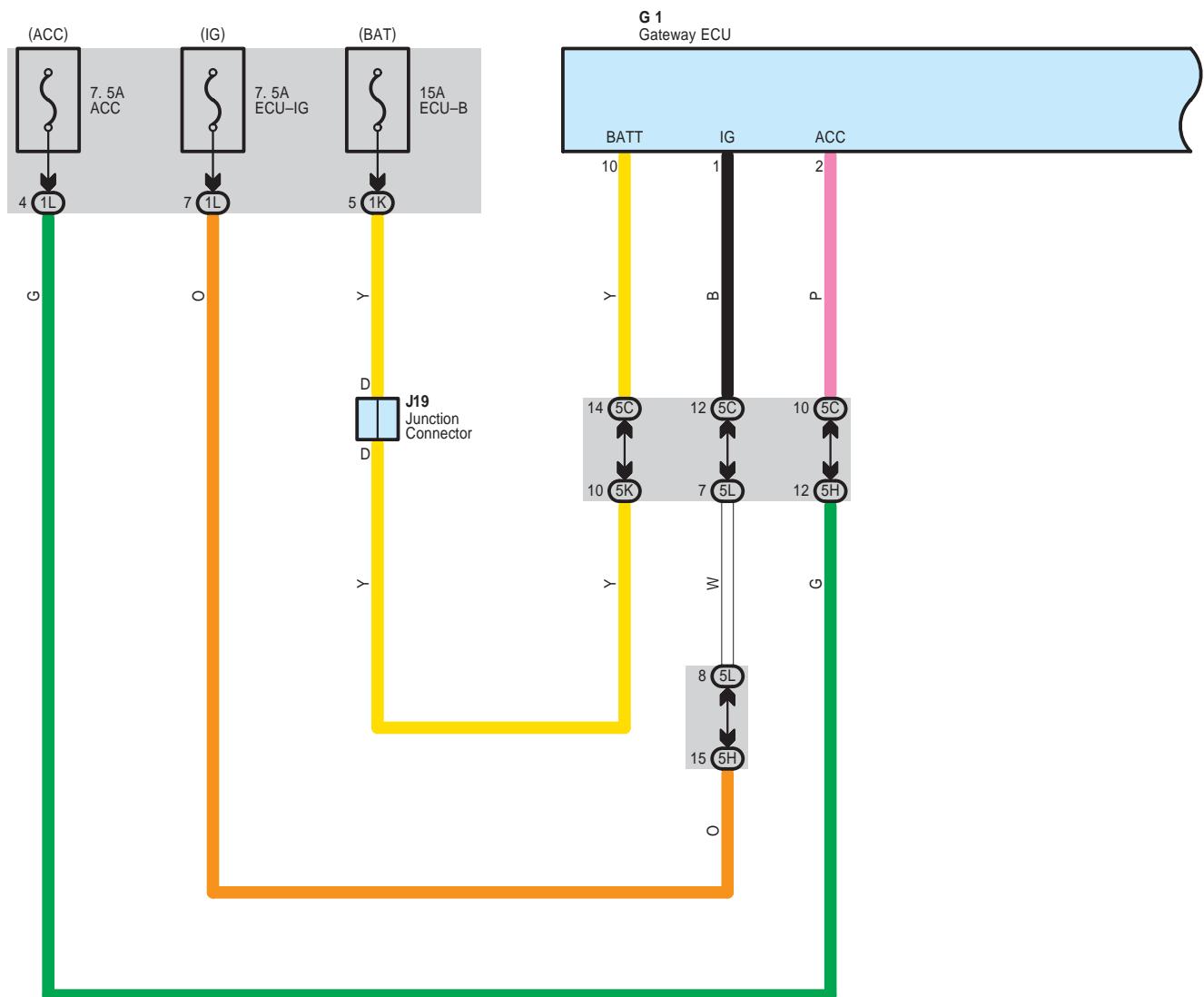
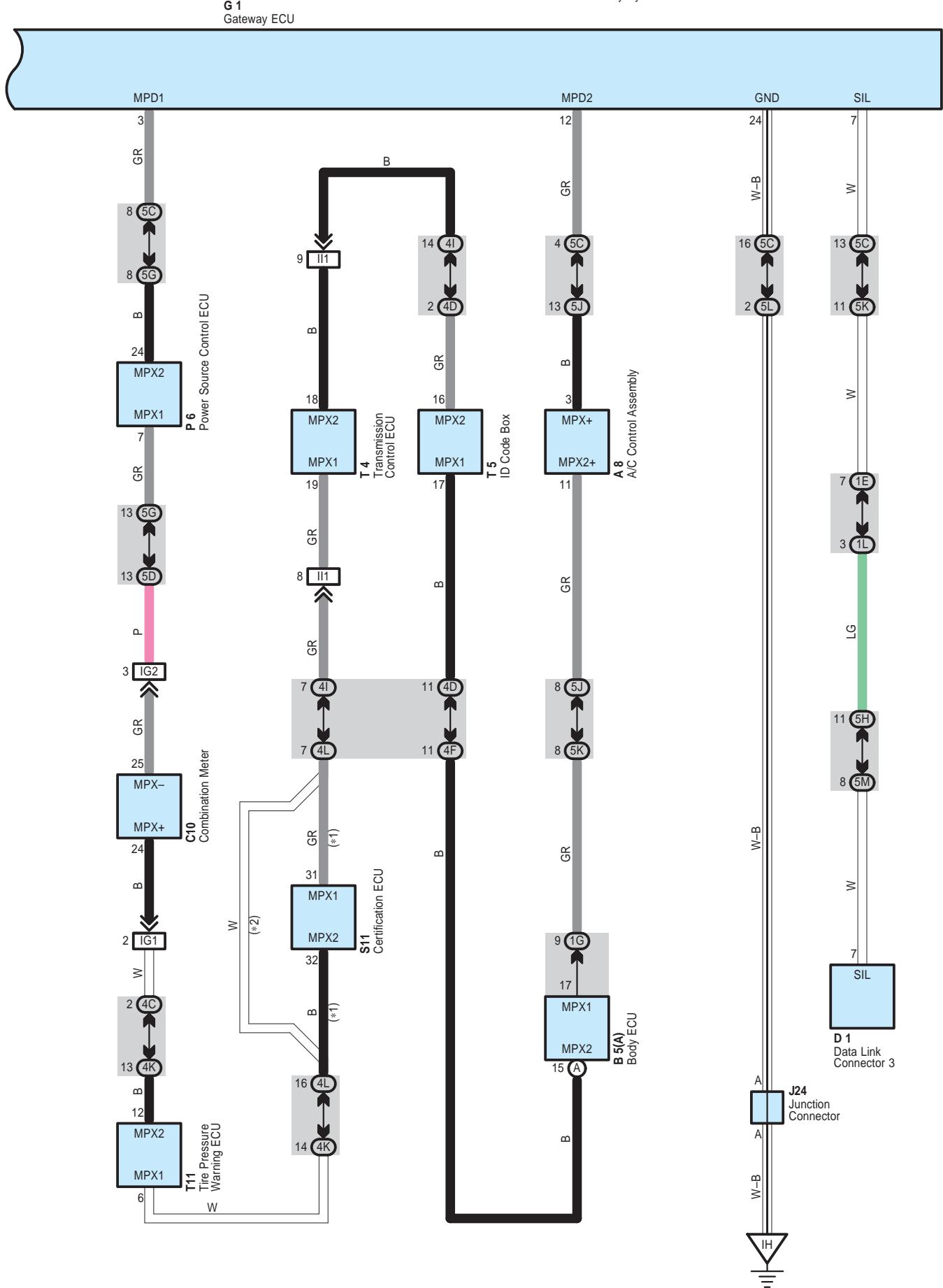


Multiplex Communication System – BEAN Bus



* 1 : w/ Smart Key System
 * 2 : w/o Smart Key System



Multiplex Communication System – BEAN Bus

System Outline

BEAN consists of body electrical systems such as body ECU, A/C control assembly, power source control ECU, combination meter, tire pressure warning ECU, certification ECU*, transmission control ECU, ID code box and gateway ECU. Gateway ECU has communication circuit to correspond with different types of communication data. Different types of communication data can be shared among communication parts after it goes through gateway ECU. Vehicle information is input to body ECU at an assembling plant as a representative ECU which delivers the information to other ECUs through multiplex communication.

* Optional equipment

This system is working for the following systems:

- * ABS
- * Air Conditioning
- * Audio System
- * Combination Meter
- * Cruise Control
- * Engine Control
- * EPS
- * Headlight
- * Hybrid Vehicle Immobiliser System
- * Illumination
- * Interior Light
- * Key Reminder
- * Luggage Compartment Door Opener
- * Mirror Heater
- * Multi-Display
- * Push Button Start System
- * Rear Window Defogger
- * Shift Control System
- * Smart Key System
- * Taillight
- * Tire Pressure Warning System
- * TOYOTA Hybrid System
- * TRAC
- * VSC

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A8	48	G1	49	S11	51
B5	A	J19	50	T4	51
C10	49	J24	50	T5	51
D1	49	P6	51	T11	51

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1G		
1K		
1L		
4C	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)
4D		
4F		
4I		
4K		
4L		
5C		
5D	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)
5G		
5H		
5J		
5K		
5L		
5M		

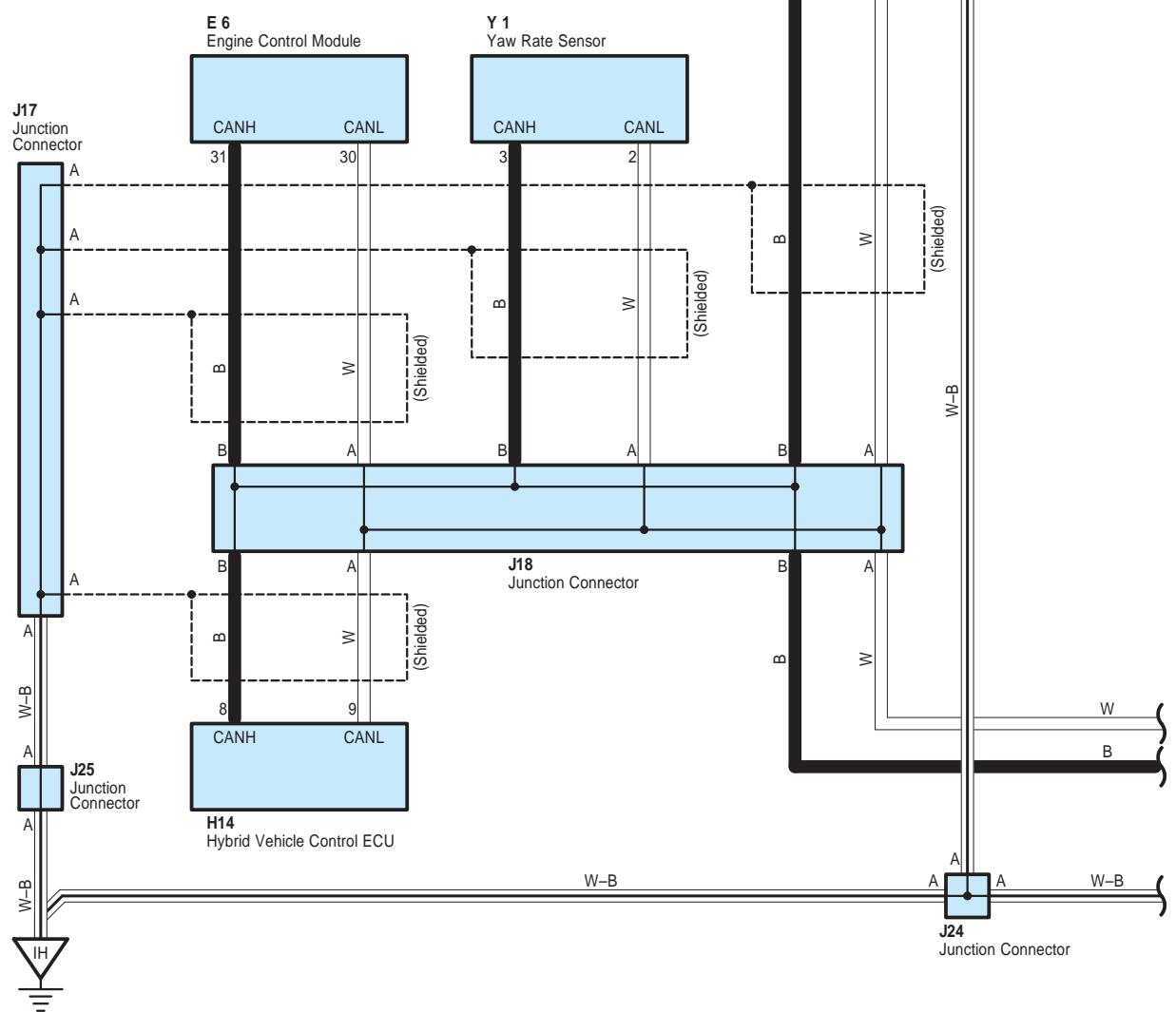
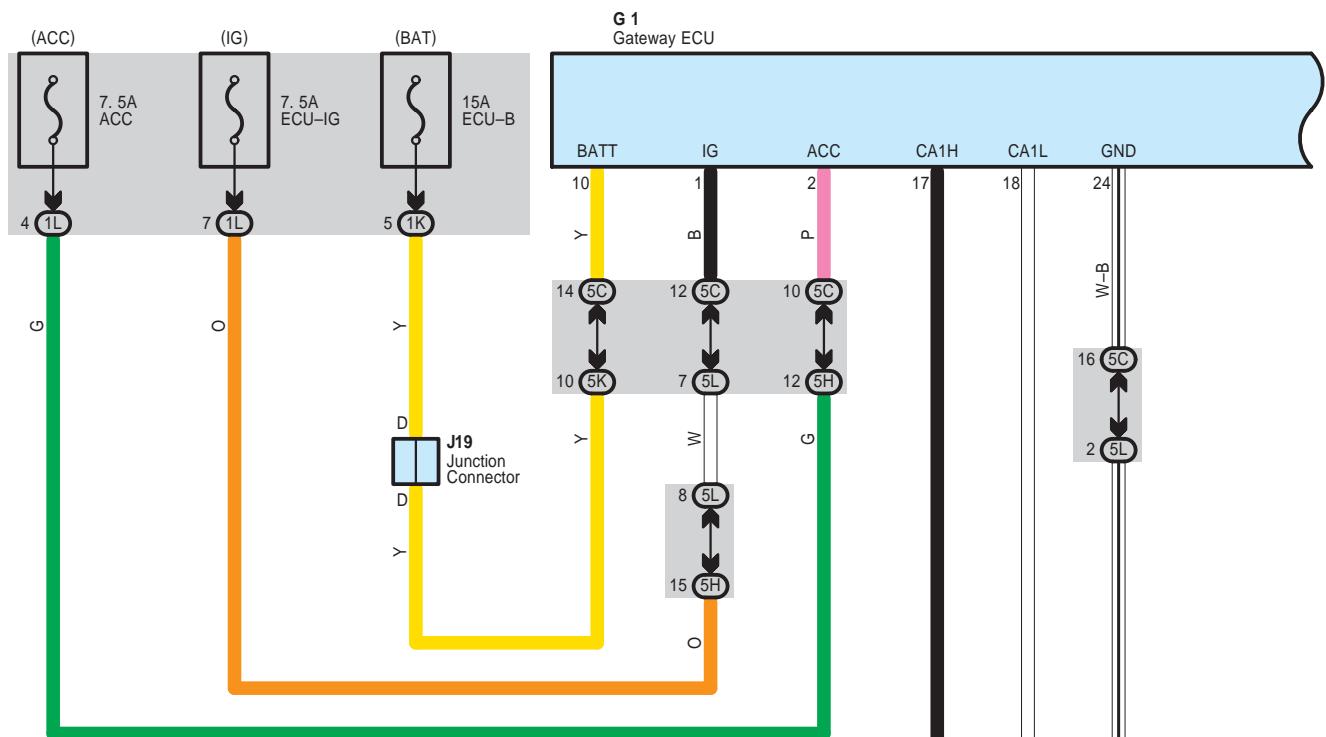
 : Connector Joining Wire Harness and Wire Harness

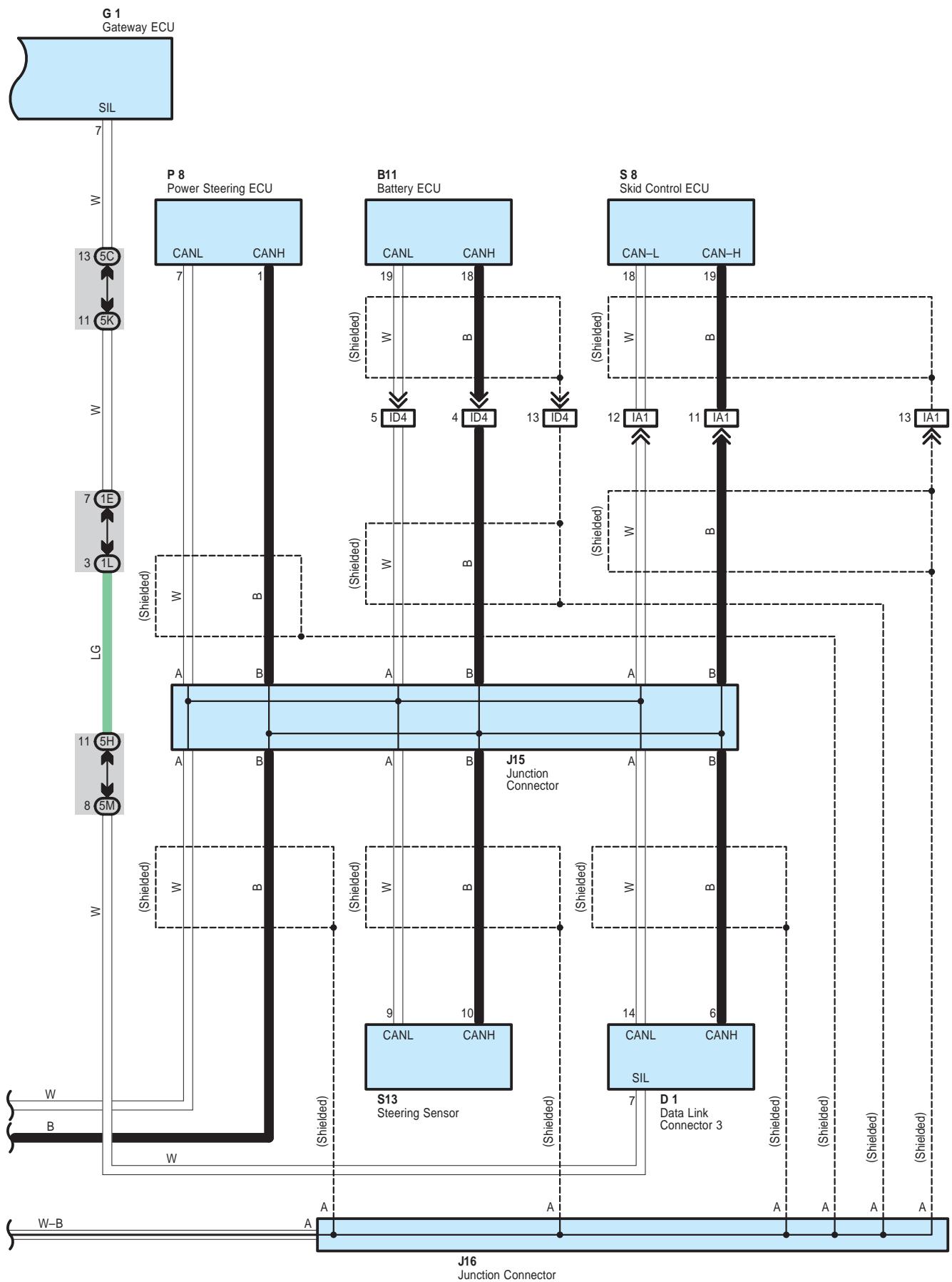
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IG1	59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)
IG2		
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)

 : Ground Points

Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH

Multiplex Communication System – CAN Bus





Multiplex Communication System – CAN Bus

System Outline

CAN has two lines as a pair which make communication with operating voltage. CAN has excellent data speed and error detecting capacity. It consists of vehicle control systems such as hybrid vehicle control ECU, engine control module, yaw rate sensor, battery ECU, power steering ECU, skid control ECU, steering sensor, data link connector 3 and gateway ECU. Gateway ECU has communication circuit to correspond with different types of communication data. Different types of communication data can be shared among communication parts after it goes through gateway ECU.

This system is working for the following systems:

- * ABS
- * Air Conditioning
- * Audio System
- * Back-Up Light
- * Combination Meter
- * Cruise Control
- * Engine Control
- * EPS
- * Headlight
- * Hybrid Vehicle Immobiliser System
- * Multi-Display
- * Push Button Start System
- * Shift Control System
- * Smart Key System
- * Theft Deterrent
- * TOYOTA Hybrid System
- * TRAC
- * VSC

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
B11	52	J16	50	P8	51
D1	49	J17	50	S8	51
E6	49	J18	50	S13	51
G1	49	J19	50	Y1	51
H14	49	J24	50		
J15	50	J25	50		

□ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	30	
1K	31	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L		
5C		
5H		
5K	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)
5L		
5M		

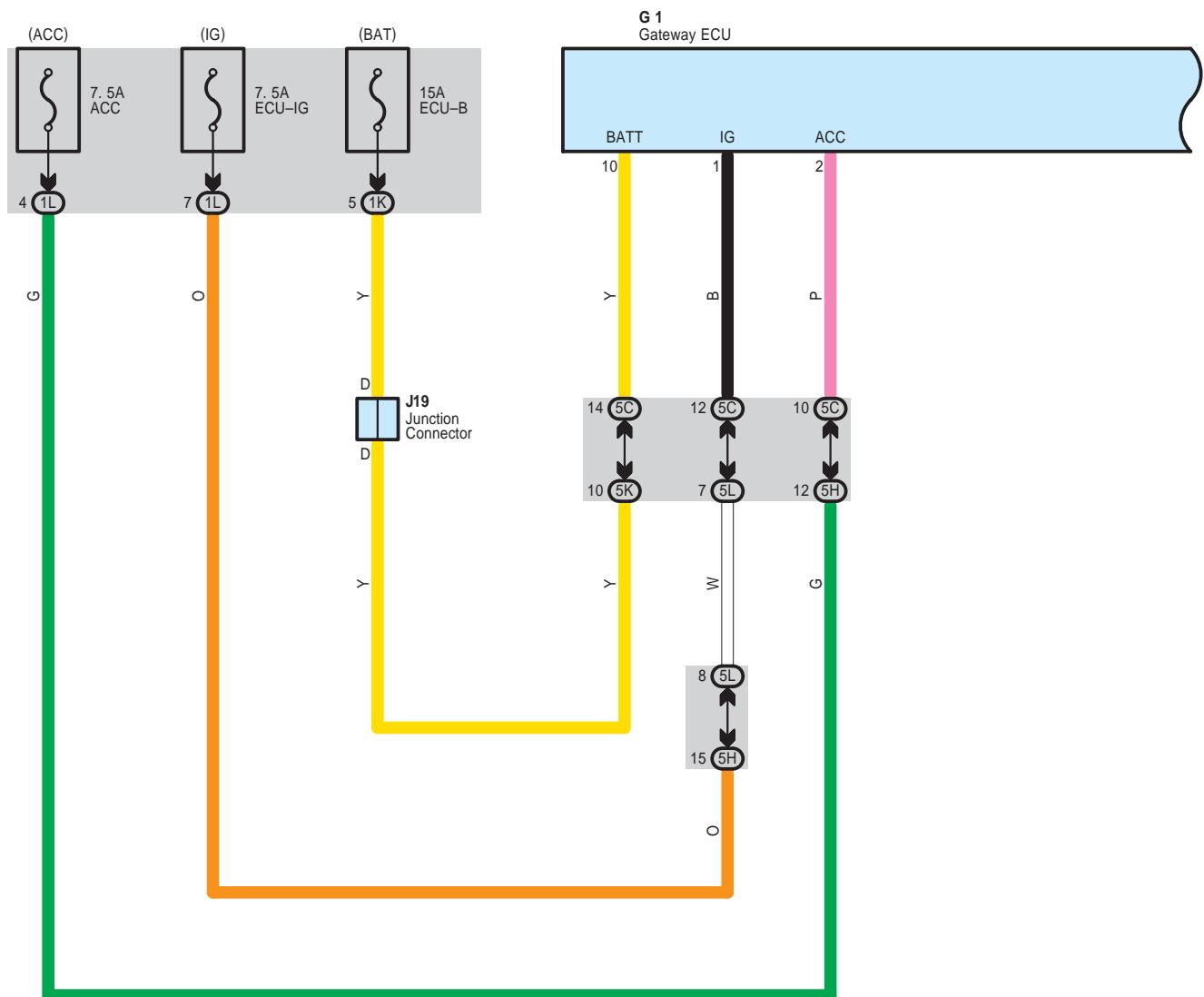
□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)
ID4	58	Instrument Panel Wire and Floor Wire (Left Kick Panel)

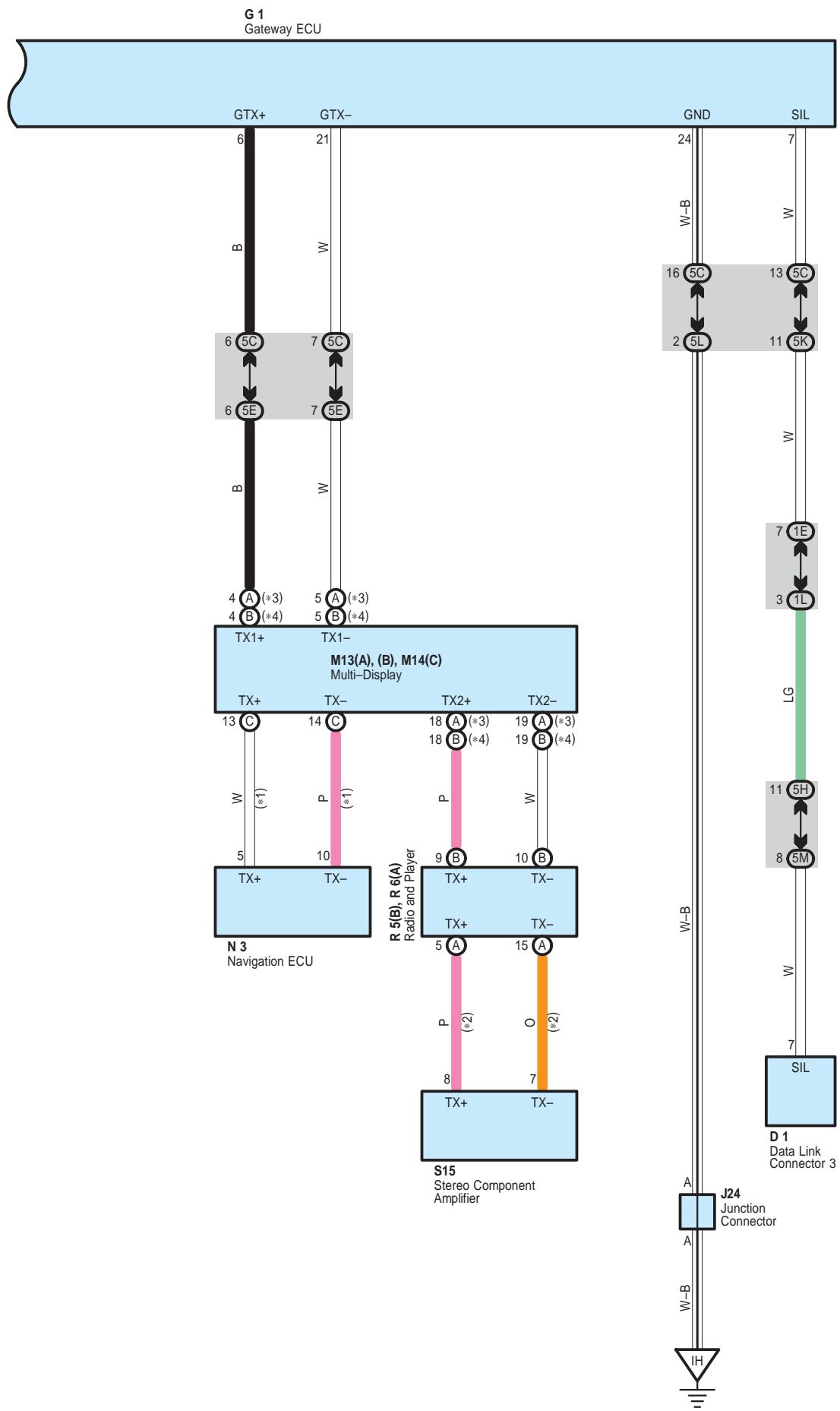
▽ : Ground Points

Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH

Multiplex Communication System – AVC–LAN Bus



* 1 : w/ Navigation System
 * 2 : w/ Separate Amplifier
 * 3 : w/ Television Camera
 * 4 : w/o Television Camera



Multiplex Communication System – AVC-LAN Bus

System Outline

AVC-LAN consists of audio visual systems such as multi-display, navigation ECU*, radio and player, stereo component amplifier* and gateway ECU. Gateway ECU has communication circuit to correspond with different types of communication data. Different types of communication data can be shared among communication parts after it goes through gateway ECU.

* Optional equipment

This system is working for the following systems:

- * ABS
- * Air Conditioning
- * Audio System
- * Combination Meter
- * Engine Control
- * EPS
- * Hybrid Vehicle Immobiliser System
- * Mirror Heater
- * Multi-Display
- * Push Button Start System
- * Rear Wiper and Washer
- * Shift Control System
- * TOYOTA Hybrid System
- * TRAC
- * VSC

○ : Parts Location

Code	See Page	Code		See Page	Code		See Page
D1	49	M13	A	50	R5	B	51
G1	49		B	50		A	51
J19	50	M14		50	S15		51
J24	50	N3		50			

□ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	30	
1K	31	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L		
5C		
5E		
5H		
5K		
5L		
5M		

▽ : Ground Points

Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH

