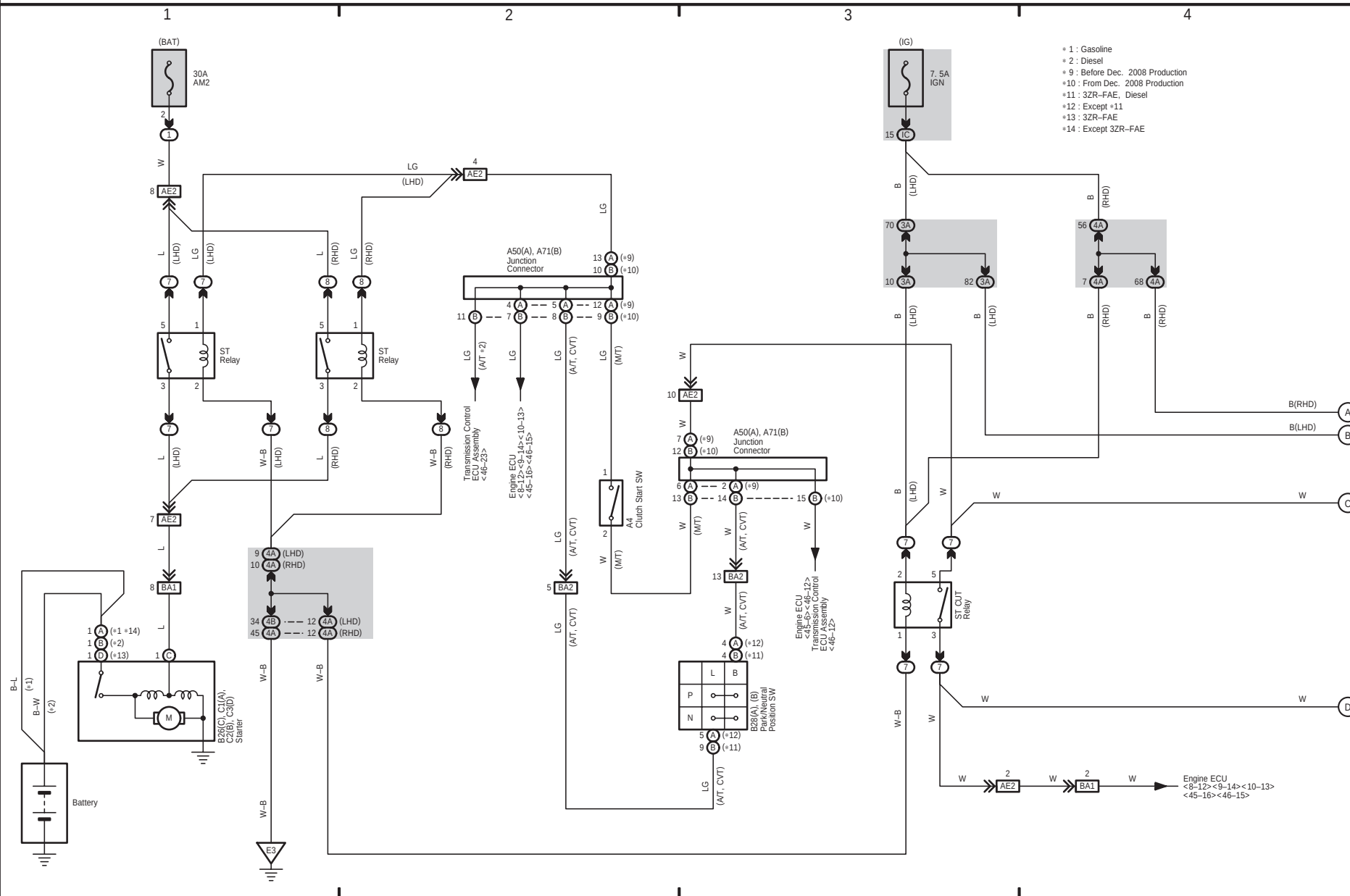
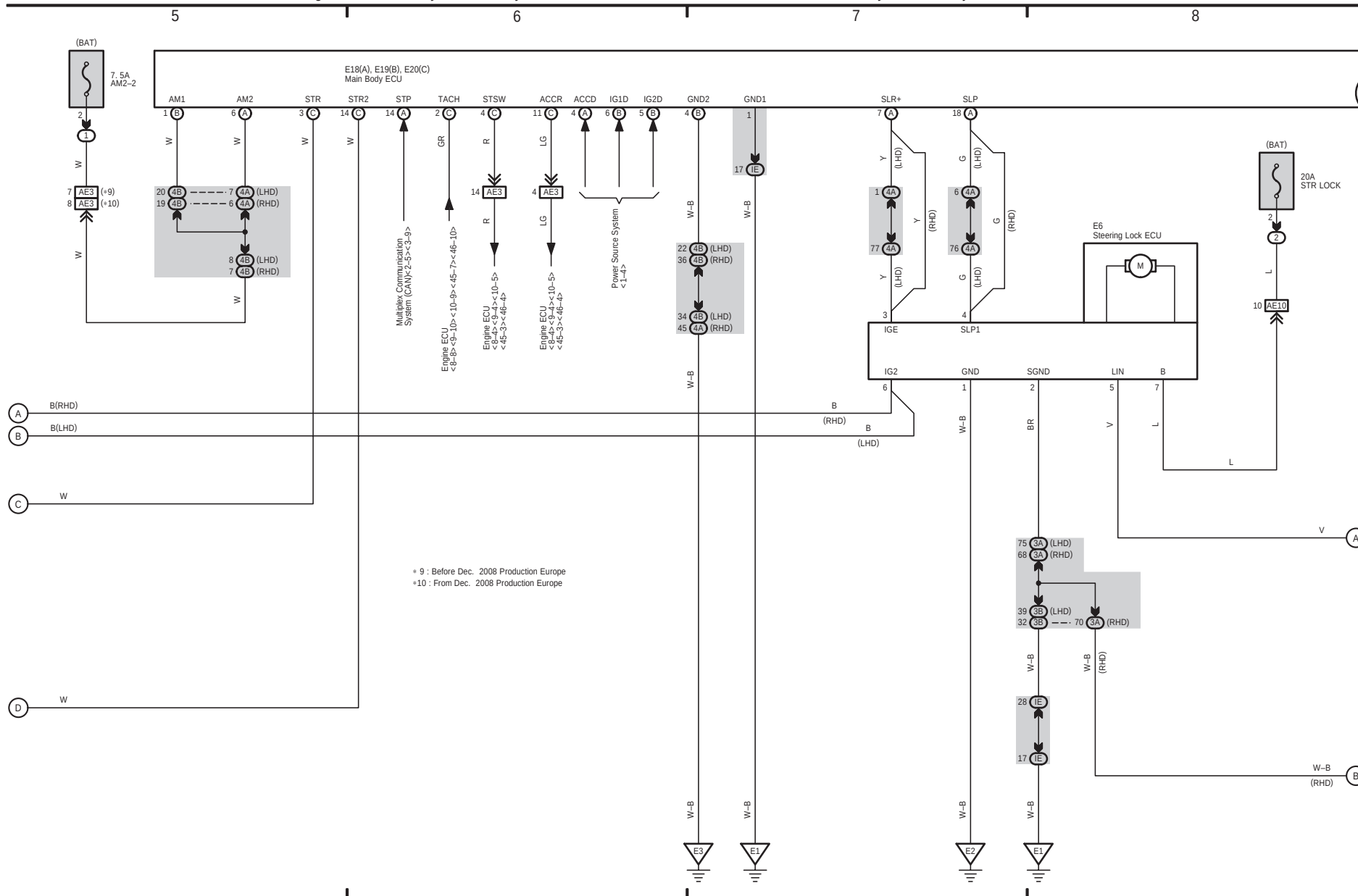


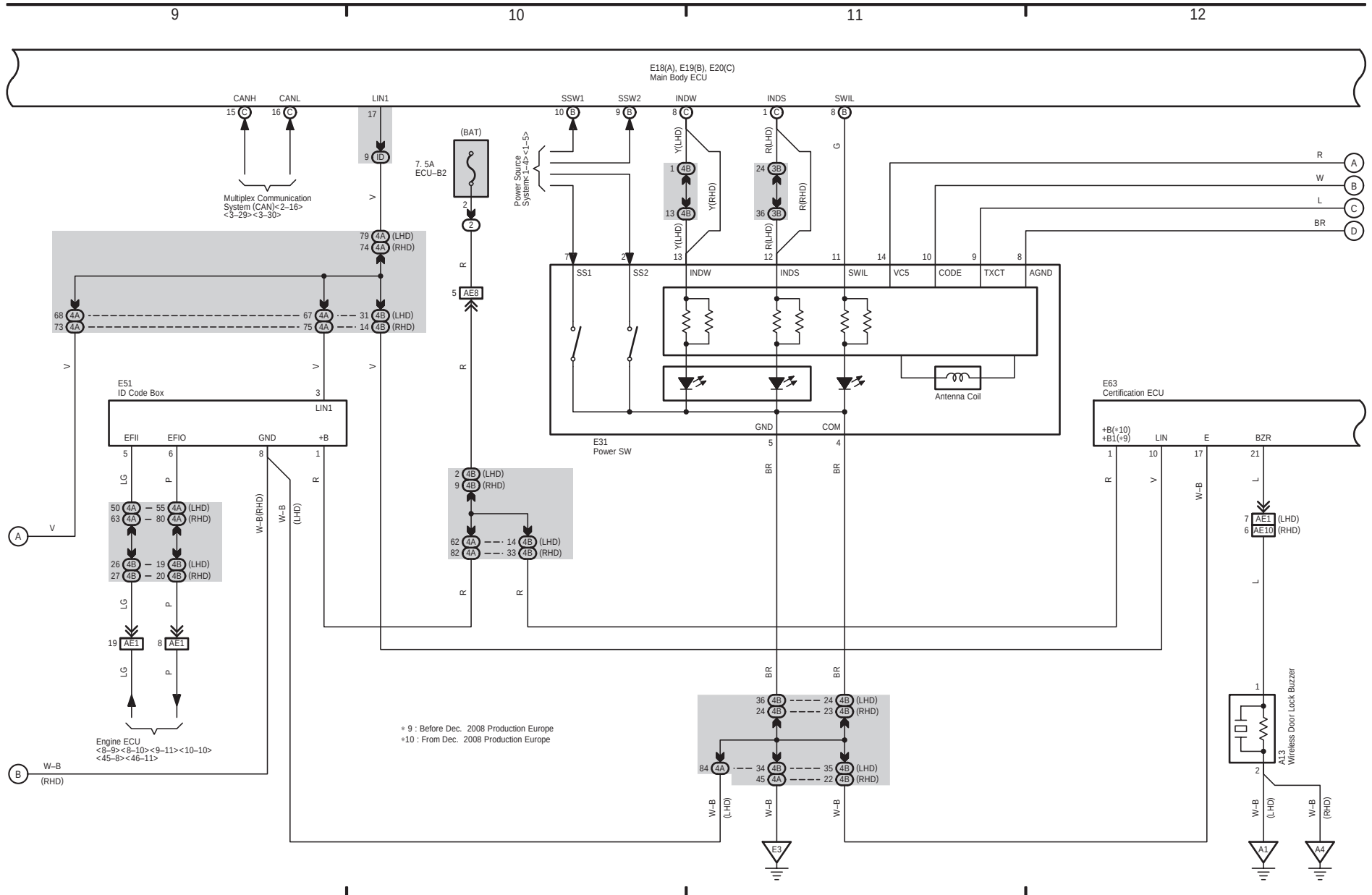
Engine Immobiliser System (w/ Entry & Start System), Entry & Start System, Starting (w/ Entry & Start System)
Steering Lock (w/ Entry & Start System) and Wireless Door Lock Control (w/ Entry & Start System)



Engine Immobiliser System (w/ Entry & Start System), Entry & Start System, Starting (w/ Entry & Start System)
Steering Lock (w/ Entry & Start System) and Wireless Door Lock Control (w/ Entry & Start System)



Engine Immobiliser System (w/ Entry & Start System), Entry & Start System, Starting (w/ Entry & Start System)
Steering Lock (w/ Entry & Start System) and Wireless Door Lock Control (w/ Entry & Start System)



Engine Immobiliser System (w/ Entry & Start System), Entry & Start System, Starting (w/ Entry & Start System)
Steering Lock (w/ Entry & Start System) and Wireless Door Lock Control (w/ Entry & Start System)

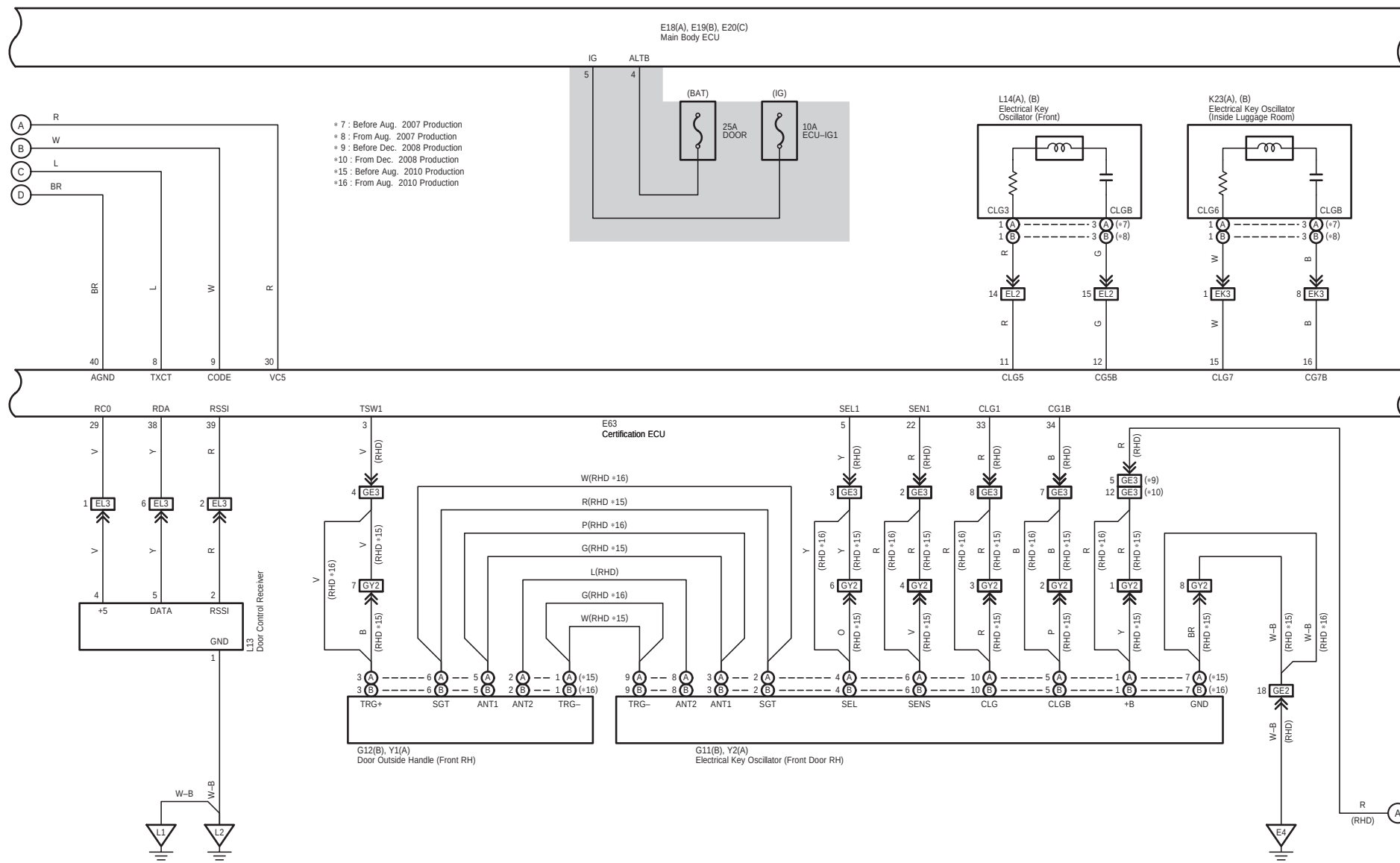
13

14

15

16

TOYOTA RAV4 (EM01NAE)



The diagram illustrates the electrical connections for the ECU system, organized into three main sections: Main Body ECU, E63 Certification ECU, and various components.

Main Body ECU:

- IG (Ignition):** Connected to 7.5A IG and 7.5A ACC. Pins 34 (3B), 70 (3A), 32 (4B), and 56 (4A) are shown. Pins 15 (IC) and 16 (4B) are also indicated.
- ACC (Accessory):** Connected to 7.5A ACC. Pins 65 (4B), 61 (4B), 16 (4B), and 13 (4B) are shown.
- GR (Ground):** Connected to pins 4 (IS) and 19.
- IND (Indicator):** Connected to pin 2 (Y).
- SECI (Security ECU):** Connected to pin 24 (W).
- SECO (Security ECU):** Connected to pin 25 (B).

E63 Certification ECU:

- Intergration Control and Panel Assembly (+5):** Connected to pins 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
- Thief Warning ECU:** Connected to pins 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

Multiplex Communication System (CAN):

- DCTY (Driver Control Tachometer):** Connected to pins 21 (1A), 6 (1C), 14 (1C), 24 (1A), 7 (1C).
- PCTY (Passenger Control Tachometer):** Connected to pins 14 (1C), 24 (1A), 7 (1C).
- RRCY (Rear Control Tachometer):** Connected to pins 14 (1C), 24 (1A), 7 (1C).
- LCTY (Left Control Tachometer):** Connected to pins 14 (1C), 24 (1A), 7 (1C).
- BCTY (Right Control Tachometer):** Connected to pins 14 (1C), 24 (1A), 7 (1C).
- HAZ (Hazard):** Connected to pins 14 (1C), 24 (1A), 7 (1C).

Legend:

- * 5 : Automatic A/C
- * 6 : Manual A/C
- * 9 : Before Dec. 2008 Production
- * 10 : From Dec. 2008 Production
- * 15 : Before Aug. 2010 Production
- * 16 : From Aug. 2010 Production

TSW2 (Tachometer Switch 2):

- Connected to pins 4 (R), 7 (R), 15 (R), 16 (R), 17 (R), 18 (R), 19 (R), 20 (R), 21 (R), 22 (R), 23 (R), 24 (R), 25 (R), 26 (R), 27 (R), 28 (R), 29 (R), 30 (R), 31 (R), 32 (R), 33 (R), 34 (R), 35 (R), 36 (R), 37 (R), 38 (R), 39 (R), 40 (R), 41 (R), 42 (R), 43 (R), 44 (R), 45 (R), 46 (R), 47 (R), 48 (R), 49 (R), 50 (R), 51 (R), 52 (R), 53 (R), 54 (R), 55 (R), 56 (R), 57 (R), 58 (R), 59 (R), 60 (R), 61 (R), 62 (R), 63 (R), 64 (R), 65 (R), 66 (R), 67 (R), 68 (R), 69 (R), 70 (R), 71 (R), 72 (R), 73 (R), 74 (R), 75 (R), 76 (R), 77 (R), 78 (R), 79 (R), 80 (R), 81 (R), 82 (R), 83 (R), 84 (R), 85 (R), 86 (R), 87 (R), 88 (R), 89 (R), 90 (R), 91 (R), 92 (R), 93 (R), 94 (R), 95 (R), 96 (R), 97 (R), 98 (R), 99 (R), 100 (R).

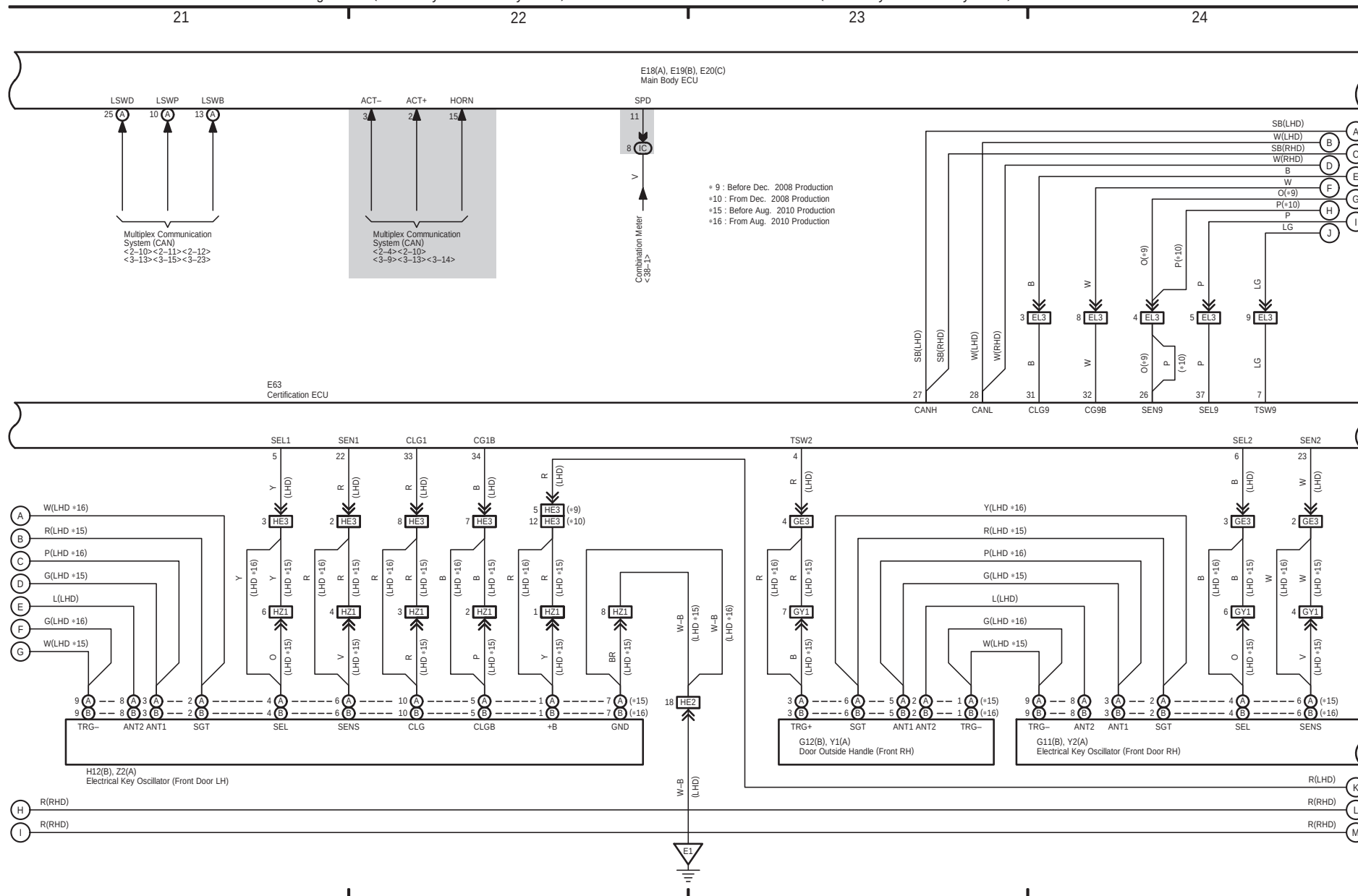
TSW1 (Tachometer Switch 1):

- Connected to pins 3 (V), 4 (V), 7 (V), 15 (V), 16 (V), 17 (V), 18 (V), 19 (V), 20 (V), 21 (V), 22 (V), 23 (V), 24 (V), 25 (V), 26 (V), 27 (V), 28 (V), 29 (V), 30 (V), 31 (V), 32 (V), 33 (V), 34 (V), 35 (V), 36 (V), 37 (V), 38 (V), 39 (V), 40 (V), 41 (V), 42 (V), 43 (V), 44 (V), 45 (V), 46 (V), 47 (V), 48 (V), 49 (V), 50 (V), 51 (V), 52 (V), 53 (V), 54 (V), 55 (V), 56 (V), 57 (V), 58 (V), 59 (V), 60 (V), 61 (V), 62 (V), 63 (V), 64 (V), 65 (V), 66 (V), 67 (V), 68 (V), 69 (V), 70 (V), 71 (V), 72 (V), 73 (V), 74 (V), 75 (V), 76 (V), 77 (V), 78 (V), 79 (V), 80 (V), 81 (V), 82 (V), 83 (V), 84 (V), 85 (V), 86 (V), 87 (V), 88 (V), 89 (V), 90 (V), 91 (V), 92 (V), 93 (V), 94 (V), 95 (V), 96 (V), 97 (V), 98 (V), 99 (V), 100 (V).

Components:

- H13(B), Z1(A) Door Outside Handle (Front LH):** Connected to pins 3 (A), 6 (A), 5 (A), 2 (A), 1 (A), 15 (A), 16 (A), 17 (A), 18 (A), 19 (A), 20 (A), 21 (A), 22 (A), 23 (A), 24 (A), 25 (A), 26 (A), 27 (A), 28 (A), 29 (A), 30 (A), 31 (A), 32 (A), 33 (A), 34 (A), 35 (A), 36 (A), 37 (A), 38 (A), 39 (A), 40 (A), 41 (A), 42 (A), 43 (A), 44 (A), 45 (A), 46 (A), 47 (A), 48 (A), 49 (A), 50 (A), 51 (A), 52 (A), 53 (A), 54 (A), 55 (A), 56 (A), 57 (A), 58 (A), 59 (A), 60 (A), 61 (A), 62 (A), 63 (A), 64 (A), 65 (A), 66 (A), 67 (A), 68 (A), 69 (A), 70 (A), 71 (A), 72 (A), 73 (A), 74 (A), 75 (A), 76 (A), 77 (A), 78 (A), 79 (A), 80 (A), 81 (A), 82 (A), 83 (A), 84 (A), 85 (A), 86 (A), 87 (A), 88 (A), 89 (A), 90 (A), 91 (A), 92 (A), 93 (A), 94 (A), 95 (A), 96 (A), 97 (A), 98 (A), 99 (A), 100 (A).
- H12(B), Z2(A) Electrical Key Oscillator (Front Door LH):** Connected to pins 3 (A), 6 (A), 5 (A), 2 (A), 1 (A), 15 (A), 16 (A), 17 (A), 18 (A), 19 (A), 20 (A), 21 (A), 22 (A), 23 (A), 24 (A), 25 (A), 26 (A), 27 (A), 28 (A), 29 (A), 30 (A), 31 (A), 32 (A), 33 (A), 34 (A), 35 (A), 36 (A), 37 (A), 38 (A), 39 (A), 40 (A), 41 (A), 42 (A), 43 (A), 44 (A), 45 (A), 46 (A), 47 (A), 48 (A), 49 (A), 50 (A), 51 (A), 52 (A), 53 (A), 54 (A), 55 (A), 56 (A), 57 (A), 58 (A), 59 (A), 60 (A), 61 (A), 62 (A), 63 (A), 64 (A), 65 (A), 66 (A), 67 (A), 68 (A), 69 (A), 70 (A), 71 (A), 72 (A), 73 (A), 74 (A), 75 (A), 76 (A), 77 (A), 78 (A), 79 (A), 80 (A), 81 (A), 82 (A), 83 (A), 84 (A), 85 (A), 86 (A), 87 (A), 88 (A), 89 (A), 90 (A), 91 (A), 92 (A), 93 (A), 94 (A), 95 (A), 96 (A), 97 (A), 98 (A), 99 (A), 100 (A).
- H13(B), Z1(A) Door Outside Handle (Front LH):** Connected to pins 3 (A), 6 (A), 5 (A), 2 (A), 1 (A), 15 (A), 16 (A), 17 (A), 18 (A), 19 (A), 20 (A), 21 (A), 22 (A), 23 (A), 24 (A), 25 (A), 26 (A), 27 (A), 28 (A), 29 (A), 30 (A), 31 (A), 32 (A), 33 (A), 34 (A), 35 (A), 36 (A), 37 (A), 38 (A), 39 (A), 40 (A), 41 (A), 42 (A), 43 (A), 44 (A), 45 (A), 46 (A),

Engine Immobiliser System (w/ Entry & Start System), Entry & Start System, Starting (w/ Entry & Start System)
Steering Lock (w/ Entry & Start System) and Wireless Door Lock Control (w/ Entry & Start System)



TOYOTA RAV4 (EM01NAE)

OVERALL ELECTRICAL WIRING DIAGRAM

Engine Immobiliser System (w/ Entry & Start System), Entry & Start System, Starting (w/ Entry & Start System)
Steering Lock (w/ Entry & Start System) and Wireless Door Lock Control (w/ Entry & Start System)

