

**SUPPLEMENT FOR 6 CYLINDER
ENGINE MODEL**

This service manual has been prepared to provide SUBARU service personnel with the necessary information and data for the correct maintenance and repair of SUBARU vehicles.

This manual includes the procedures for maintenance, disassembling, reassembling, inspection and adjustment of components and diagnostics for guidance of experienced mechanics.

Please peruse and utilize this manual fully to ensure complete repair work for satisfying our customers by keeping their vehicle in optimum condition. When replacement of parts during repair work is needed, be sure to use SUBARU genuine parts.

All information, illustration and specifications contained in this manual are based on the latest product information available at the time of publication approval.

FOREWORD**FW****HOW TO USE THIS MANUAL****HU****SPECIFICATIONS****SPC****PRECAUTION****PC****NOTE****NT****IDENTIFICATION****ID****RECOMMENDED MATERIALS****RM****PRE-DELIVERY INSPECTION****PI****PERIODICAL MAINTENANCE****PM**

**SUPPLEMENT FOR 6 CYLINDER
ENGINE MODEL****FUEL INJECTION (FUEL SYSTEMS) FU(H6)****EMISSION CONTROL
(AUX. EMISSION CONTROL DEVICES) EC(H6)****INTAKE (INDUCTION) IN(H6)****MECHANICAL ME(H6)****EXHAUST EX(H6)****COOLING CO(H6)****LUBRICATION LU(H6)****SPEED CONTROL SYSTEMS SP(H6)****IGNITION IG(H6)****START/CHARGING SYSTEMS SC(H6)****ENGINE (DIAGNOSTICS) EN(H6)****REAR SUSPENSION RS****WIRING SYSTEM WI**

WIRING SYSTEM



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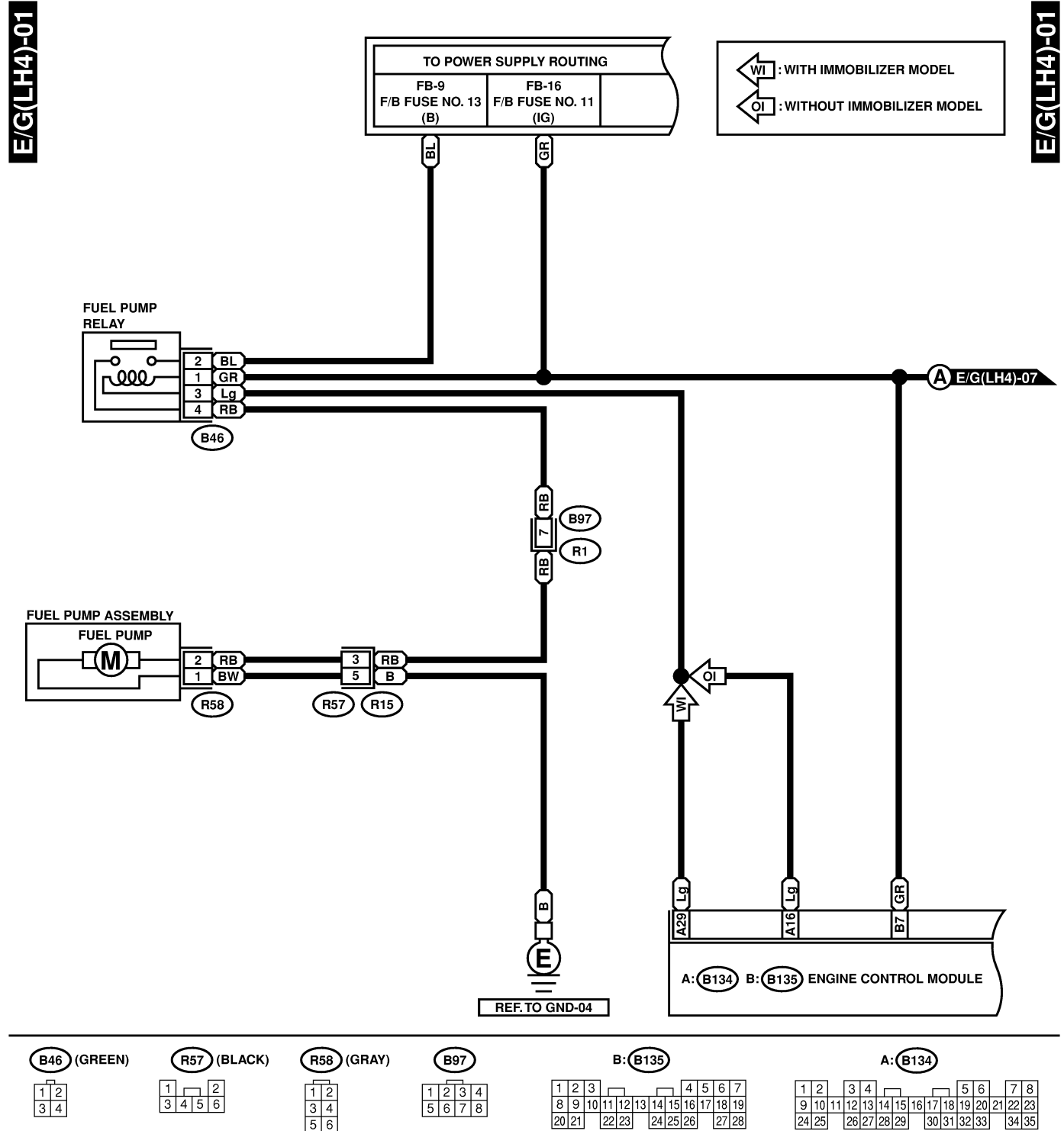
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16. Engine Electrical System S903482

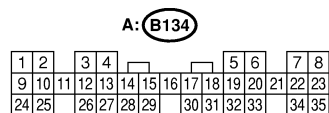
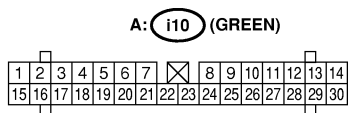
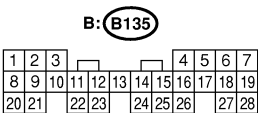
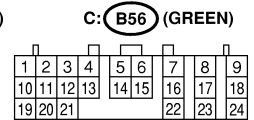
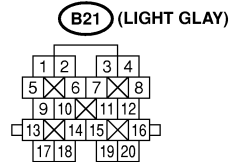
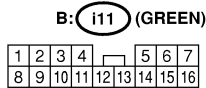
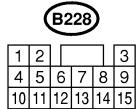
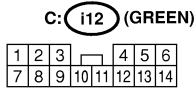
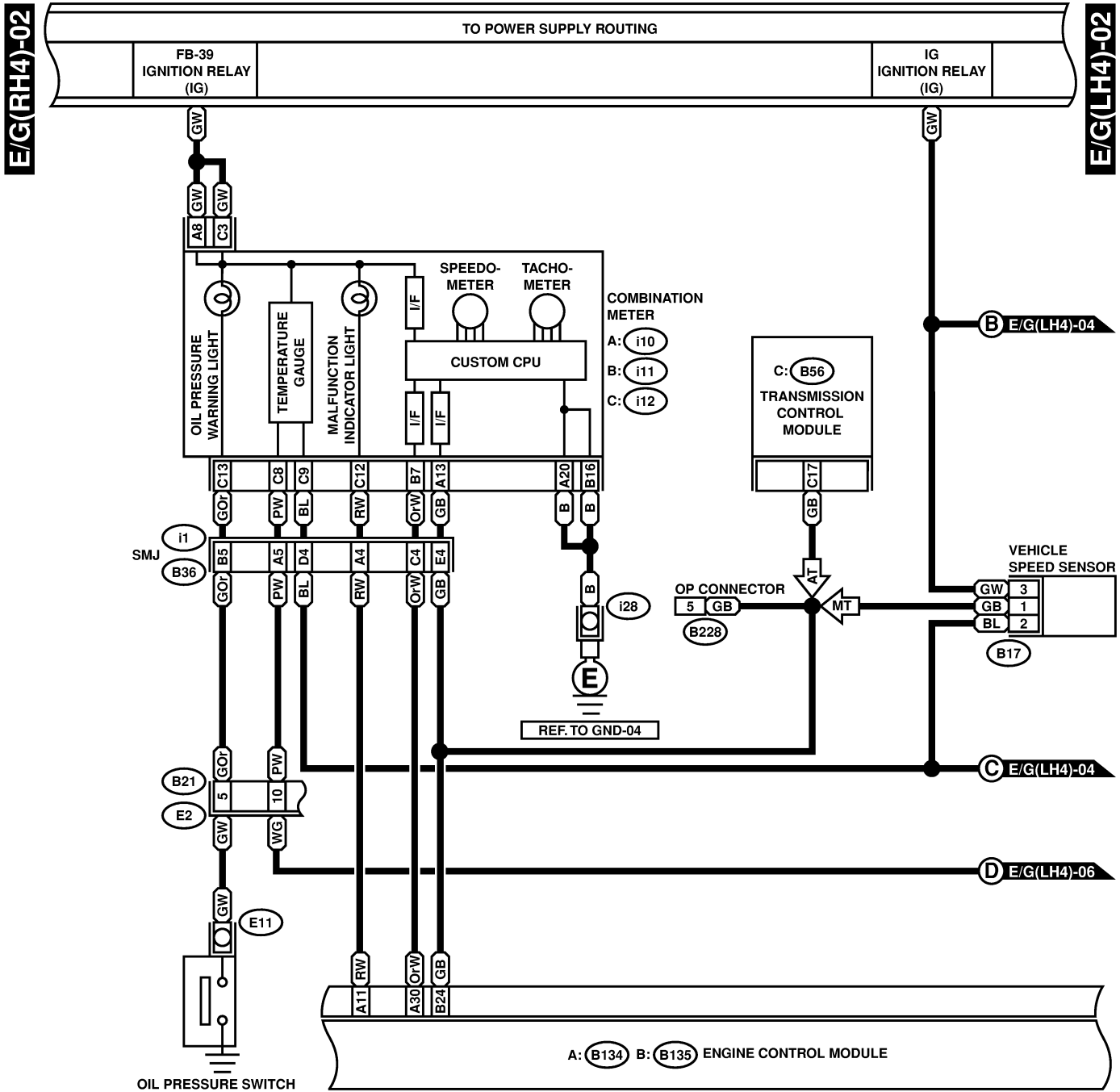
A: SCHEMATIC S903482A21

1. LHD-H4 WITHOUT OBD MODEL S903482A2108



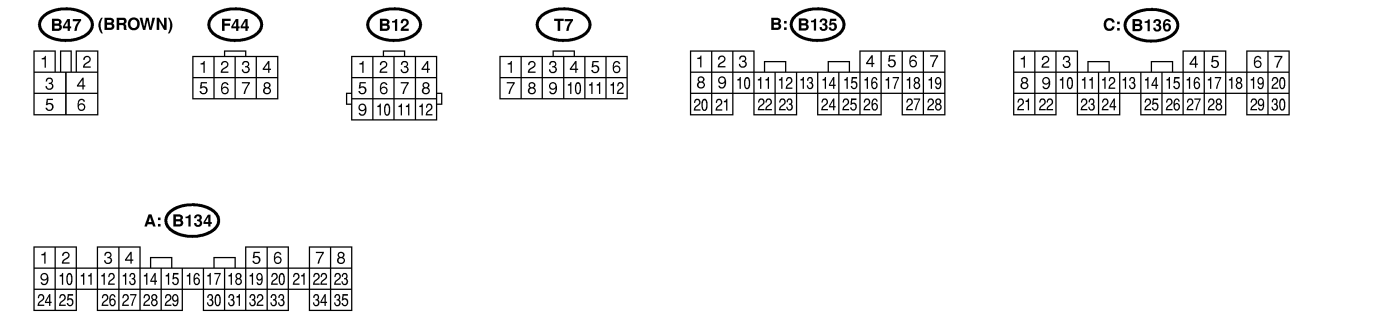
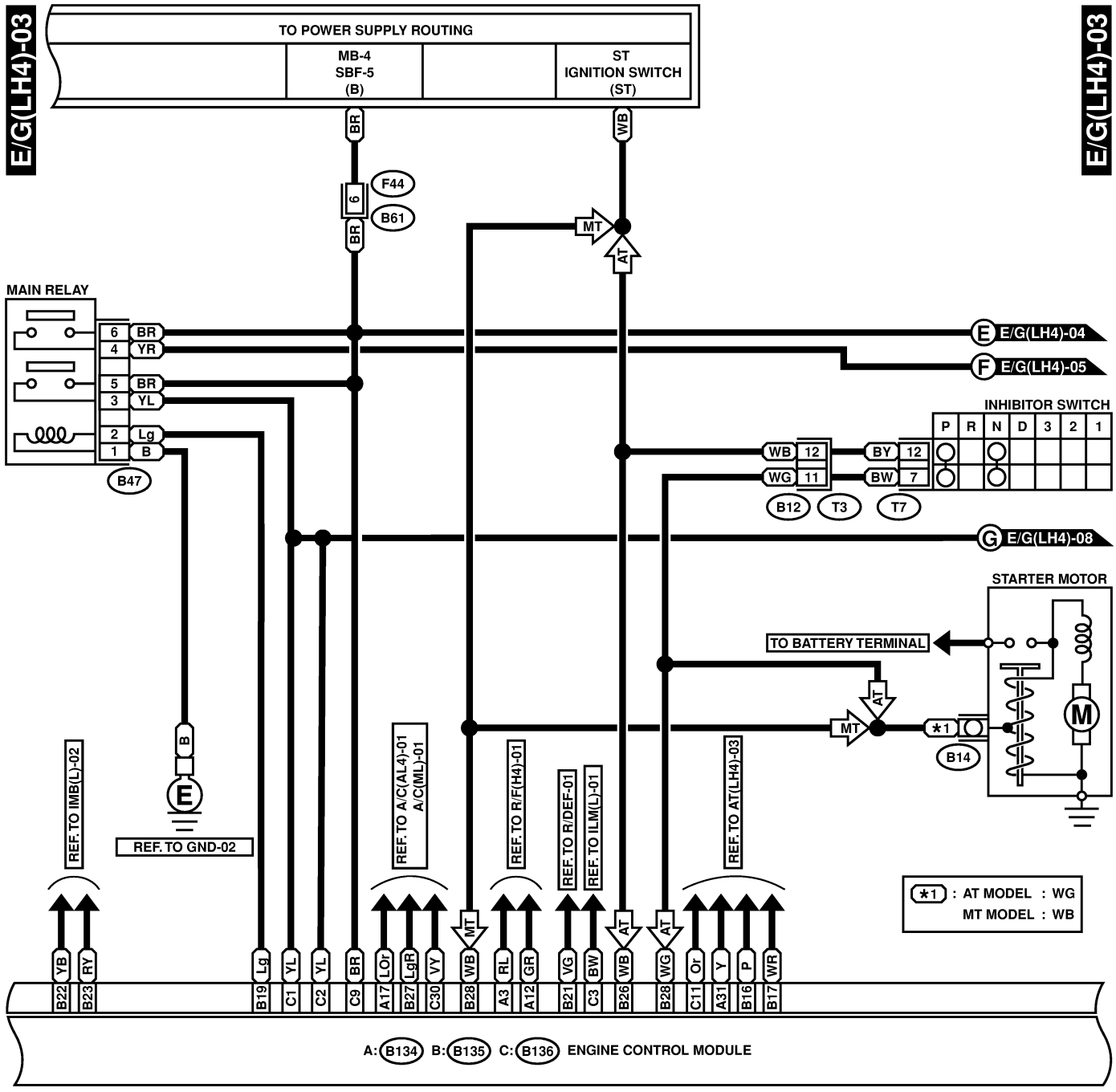
ENGINE ELECTRICAL SYSTEM

Wiring System



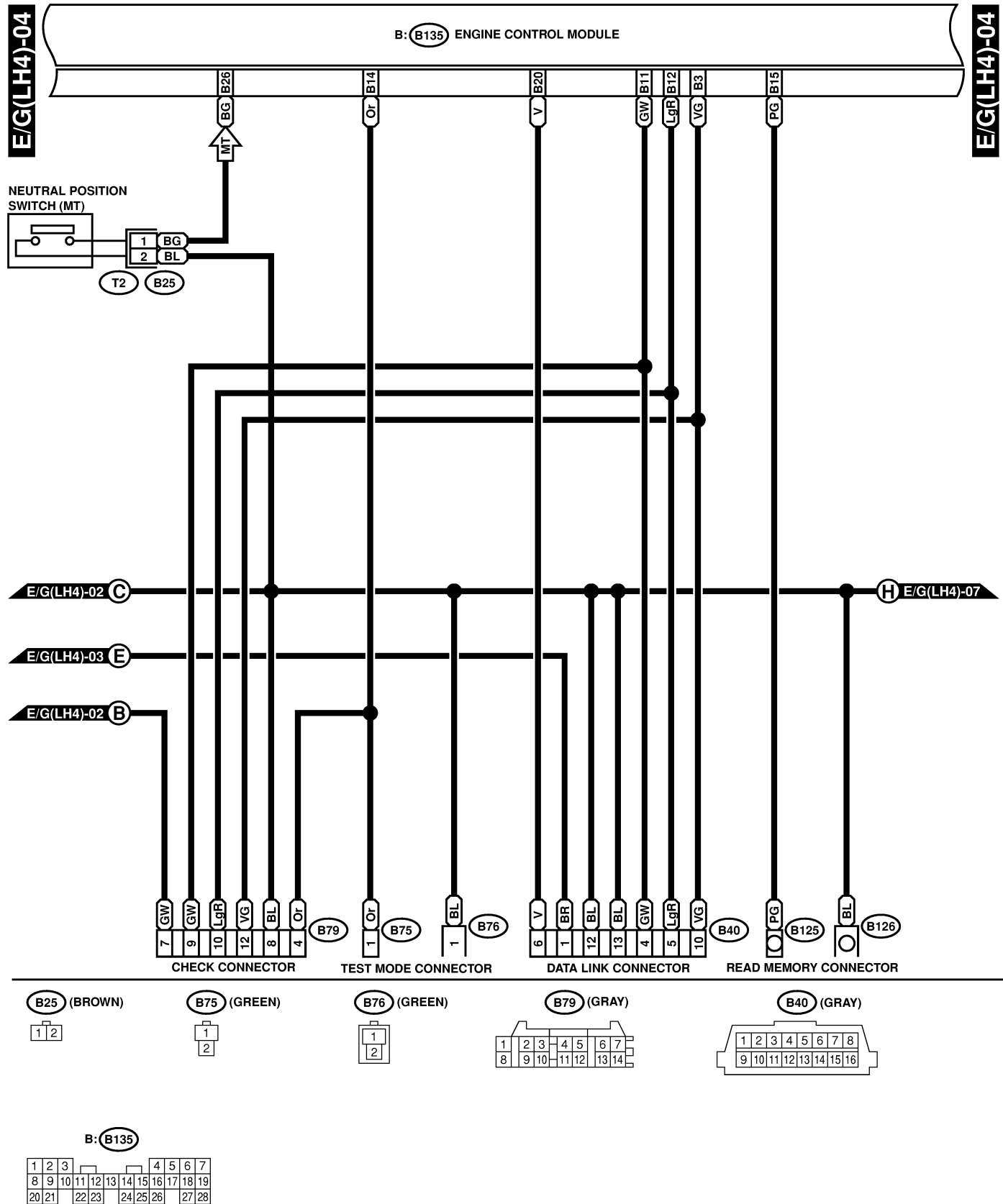
ENGINE ELECTRICAL SYSTEM

Wiring System



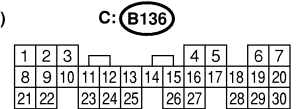
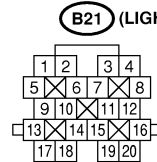
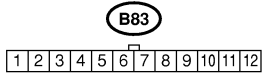
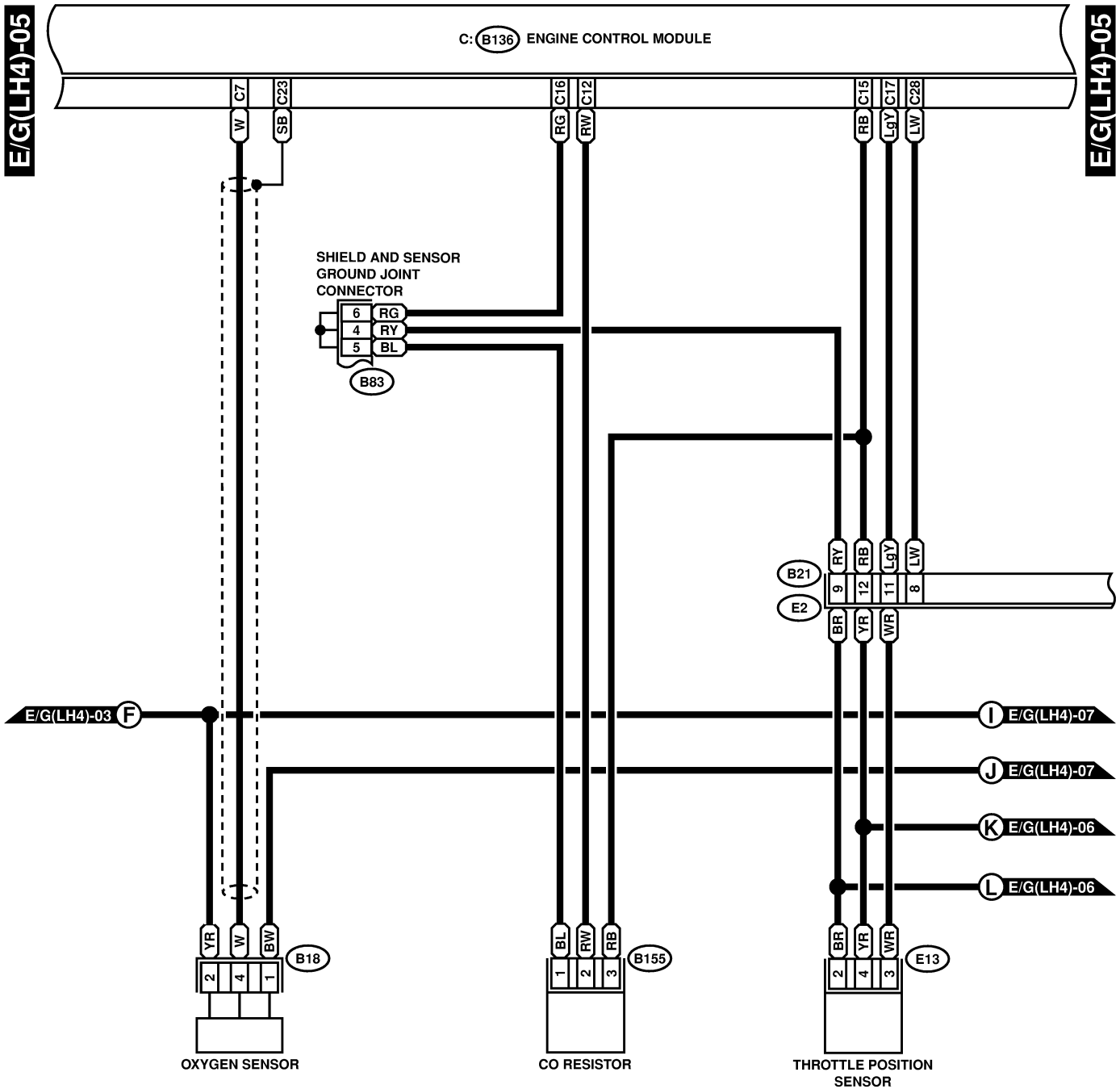
ENGINE ELECTRICAL SYSTEM

Wiring System



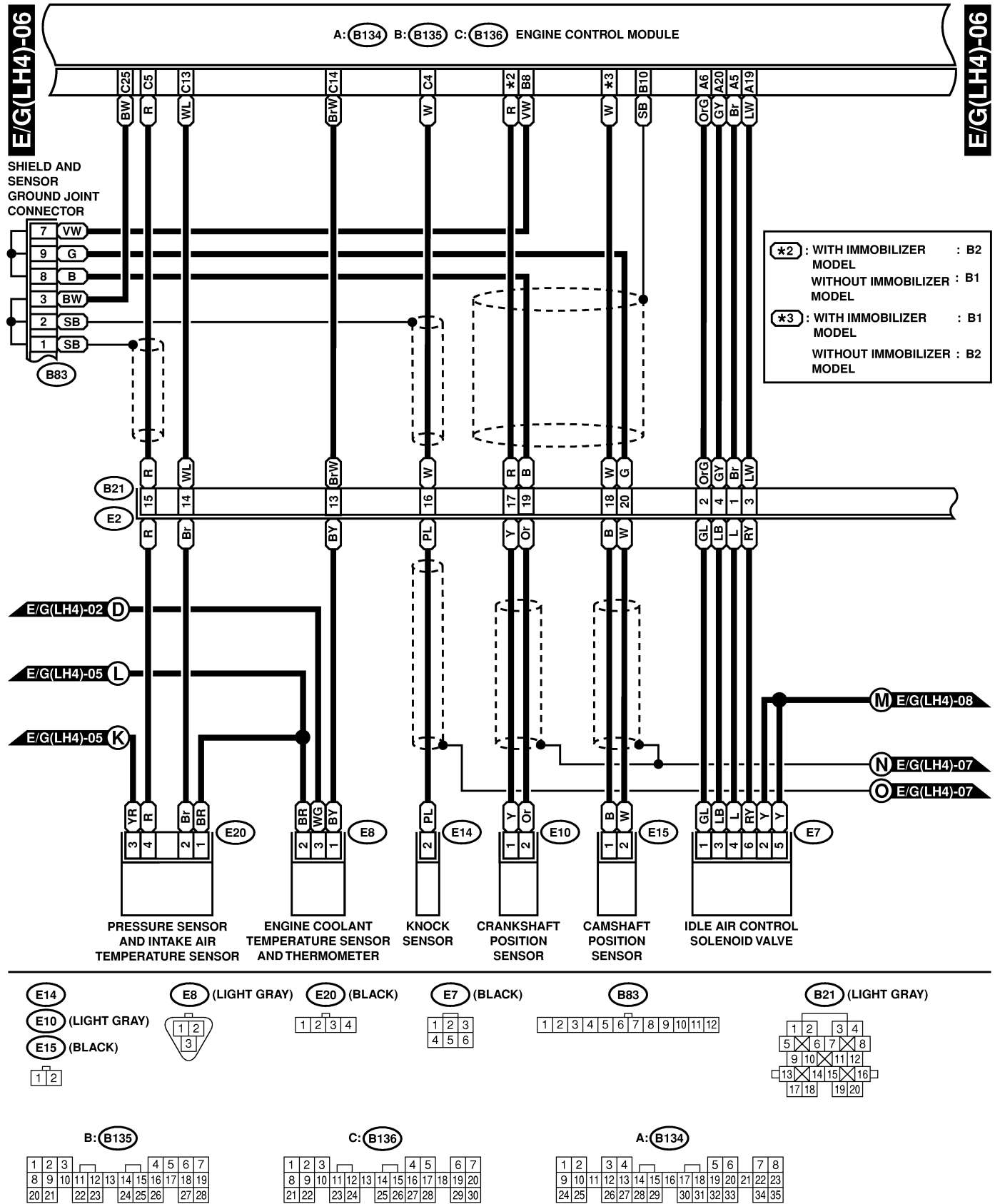
ENGINE ELECTRICAL SYSTEM

Wiring System



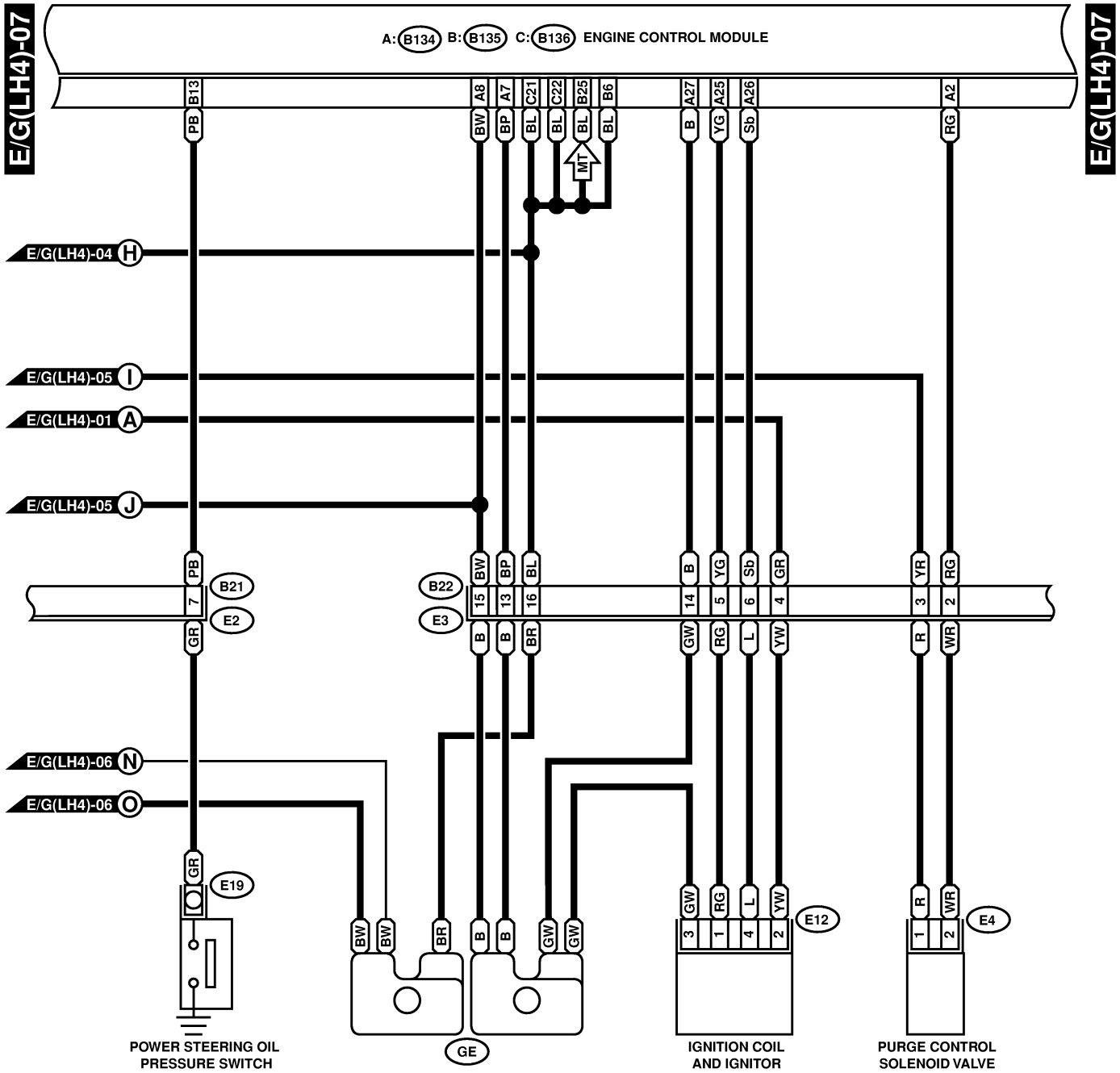
ENGINE ELECTRICAL SYSTEM

Wiring System



ENGINE ELECTRICAL SYSTEM

Wiring System



E4 (BLUE)



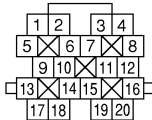
E12 (DARK GRAY)



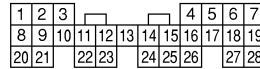
B22 (BROWN)



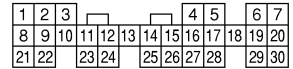
B21 (LIGHT GRAY)



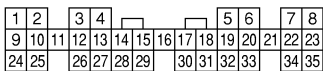
B: B135



C: B136

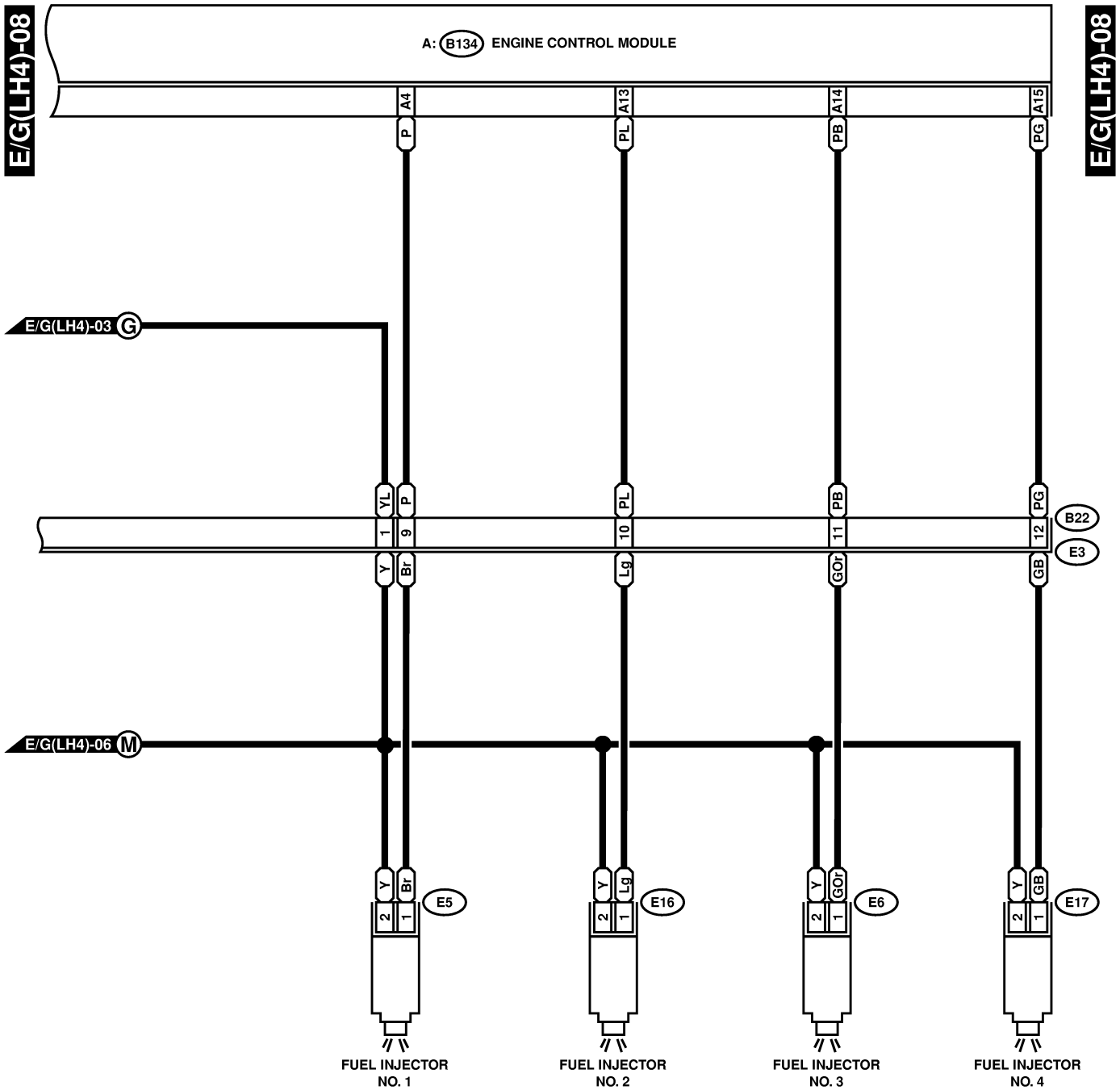


A: B134



ENGINE ELECTRICAL SYSTEM

Wiring System



E5 (LIGHT GRAY)

E6 (LIGHT GRAY)

E16 (LIGHT GRAY)

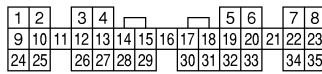
E17 (LIGHT GRAY)



B22 (BROWN)



A: (B134)



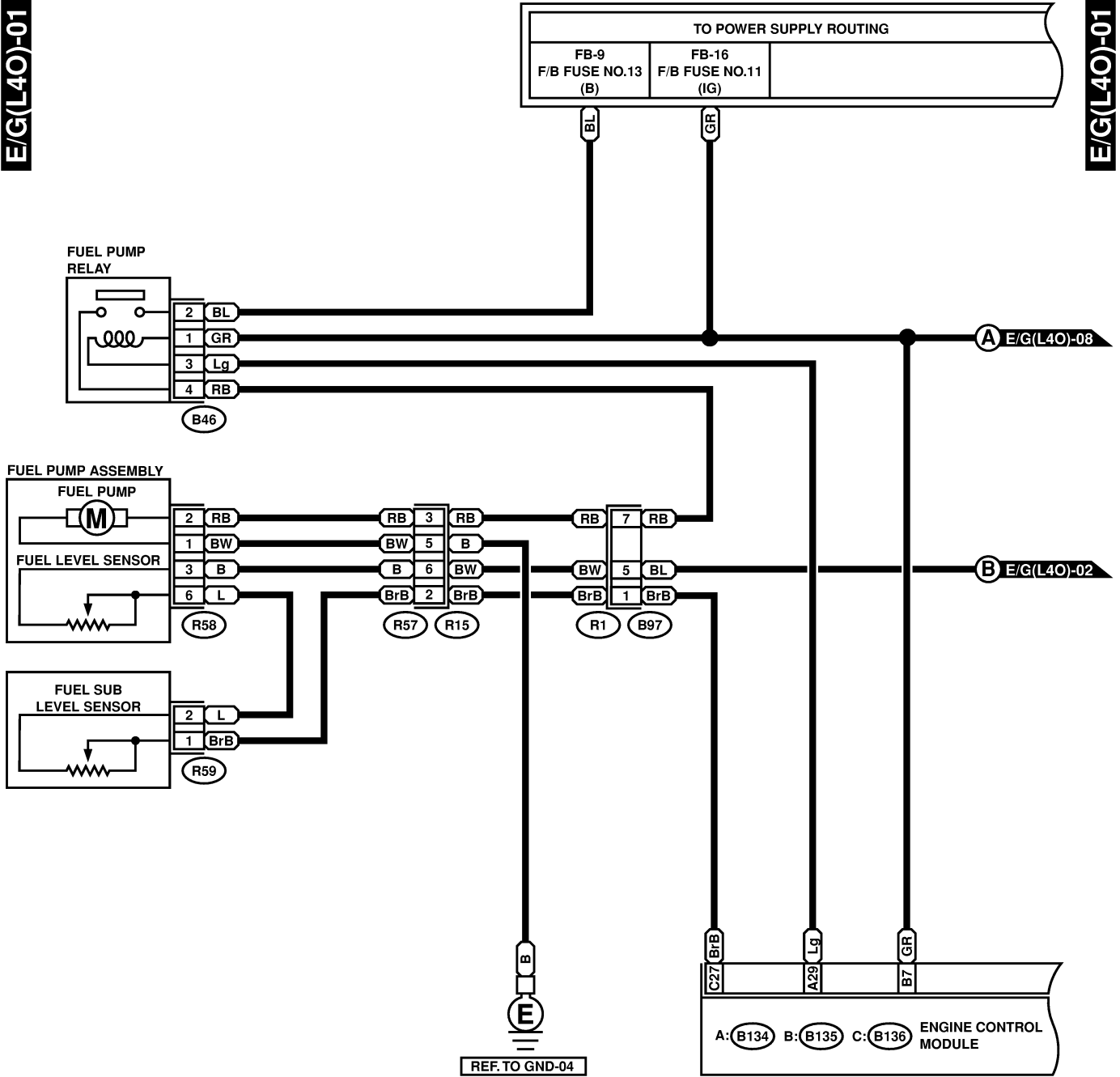
ENGINE ELECTRICAL SYSTEM

Wiring System

2. LHD-H4 WITH OBD MODEL S903482A2109

E/G(L40)-01

E/G(L40)-01



R59

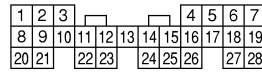
B46 (GREEN)

R57 (BLACK)

R58 (GRAY)

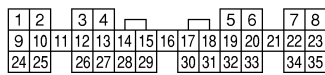
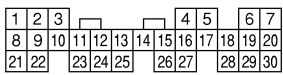
B97

B: B135



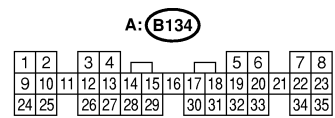
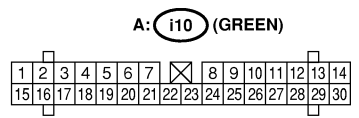
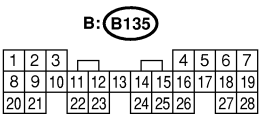
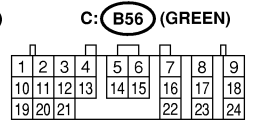
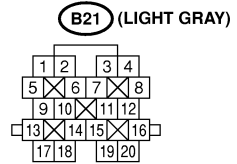
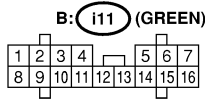
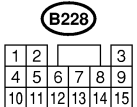
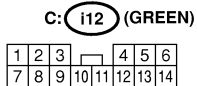
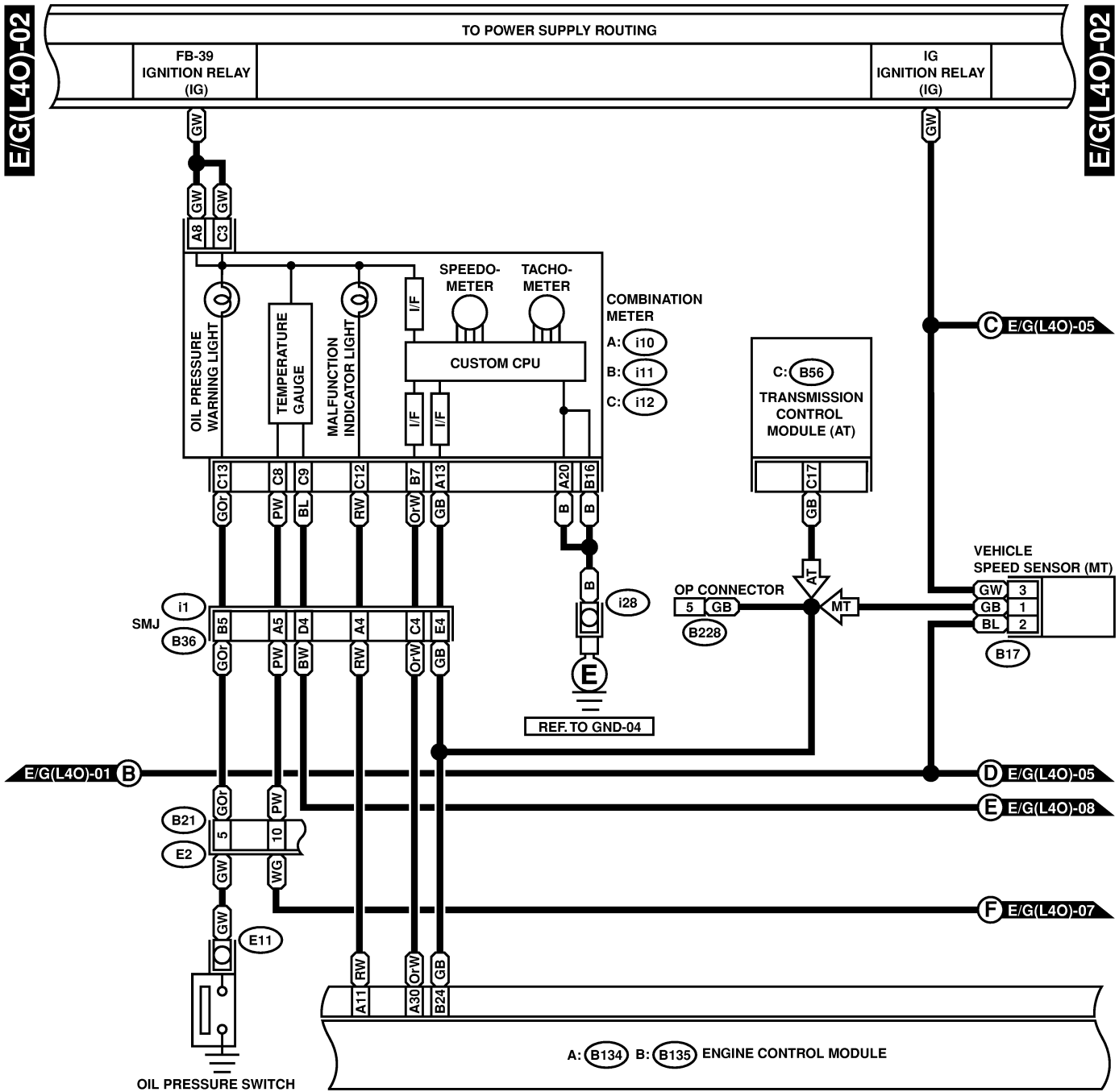
C: B136

A: B134



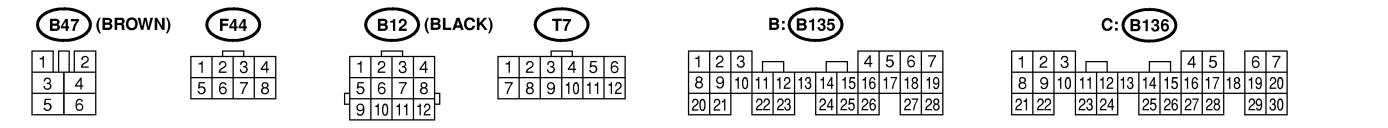
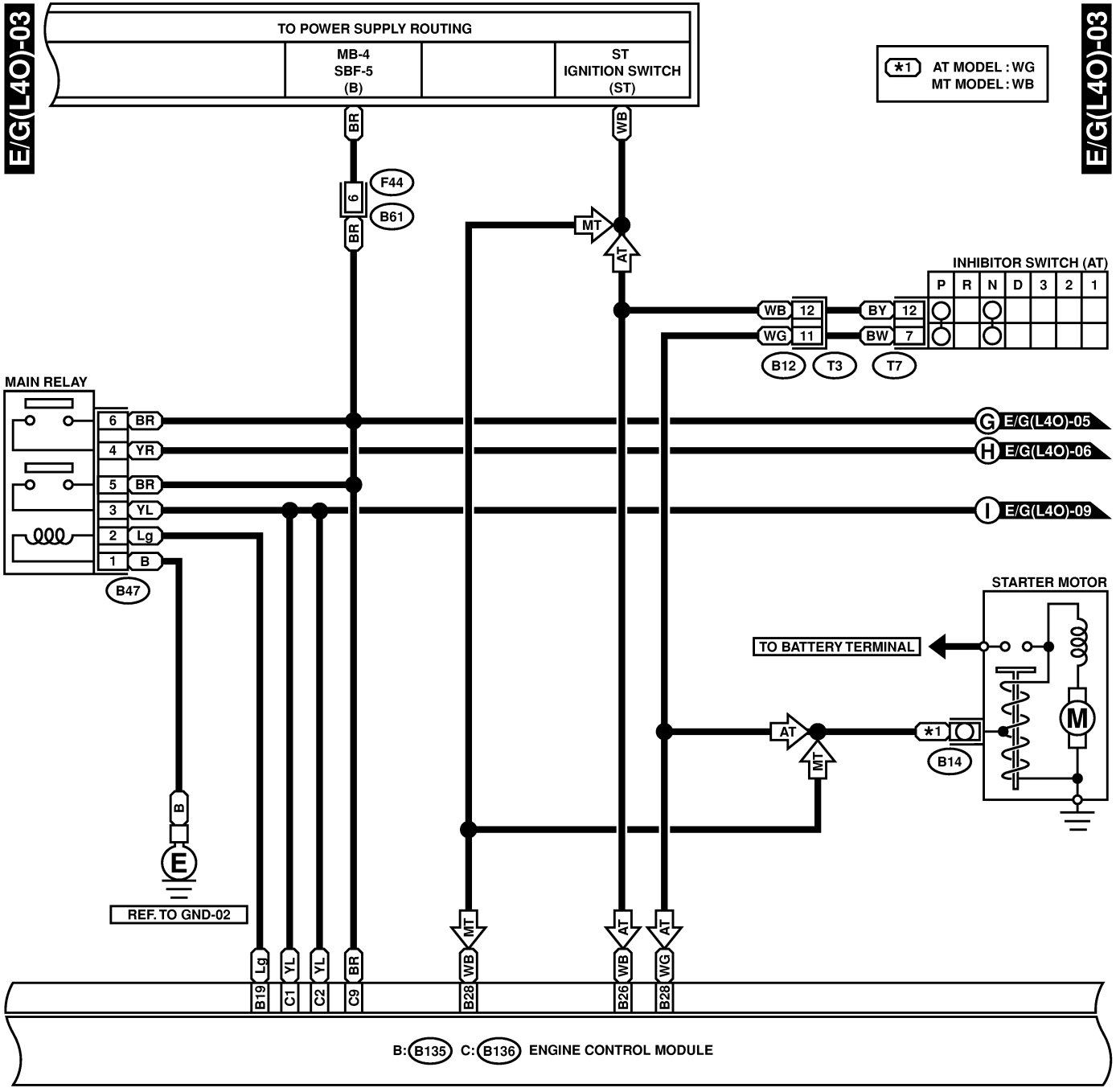
ENGINE ELECTRICAL SYSTEM

Wiring System



ENGINE ELECTRICAL SYSTEM

Wiring System

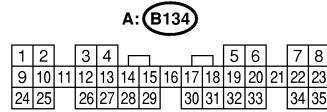
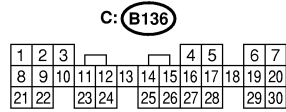
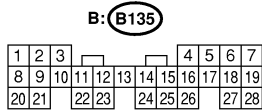
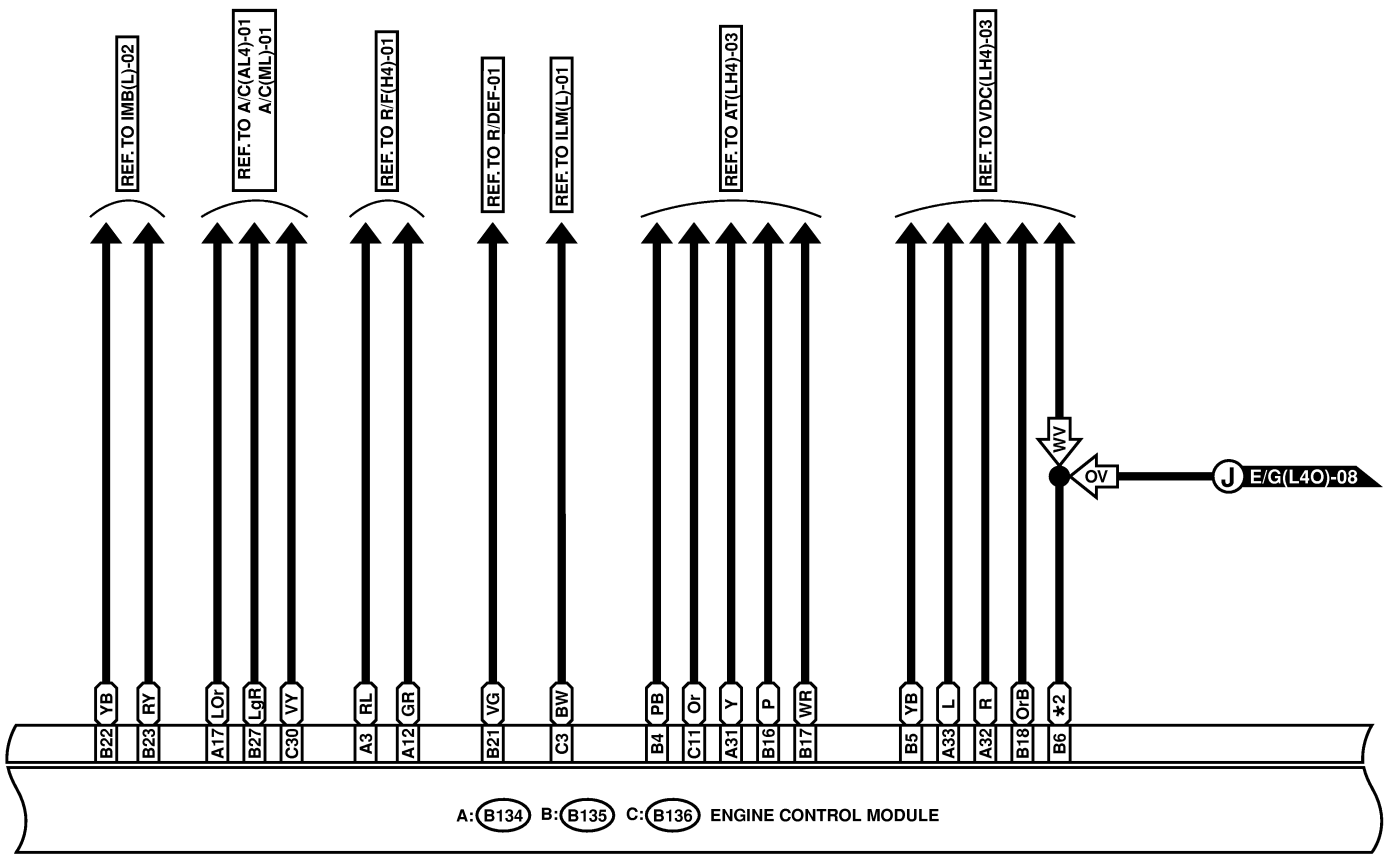
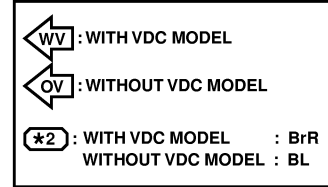


ENGINE ELECTRICAL SYSTEM

Wiring System

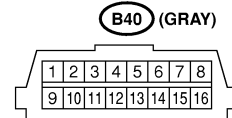
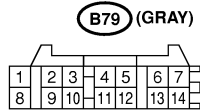
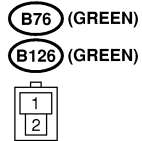
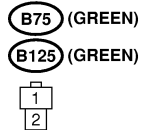
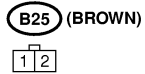
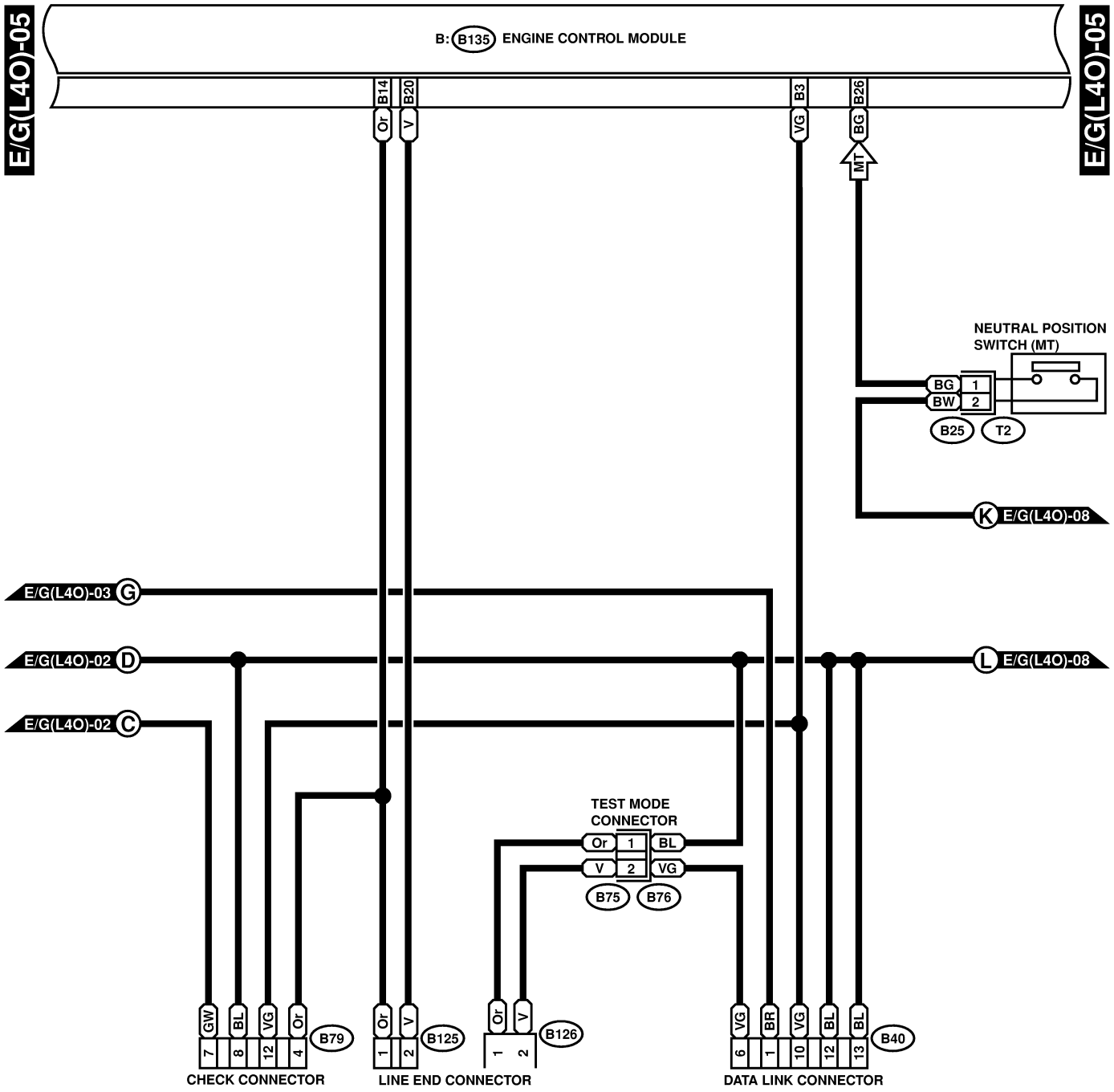
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E/G(L40)-04



ENGINE ELECTRICAL SYSTEM

Wiring System

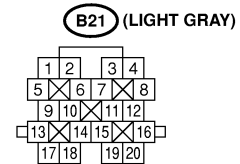
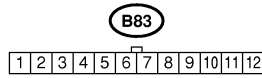
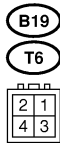
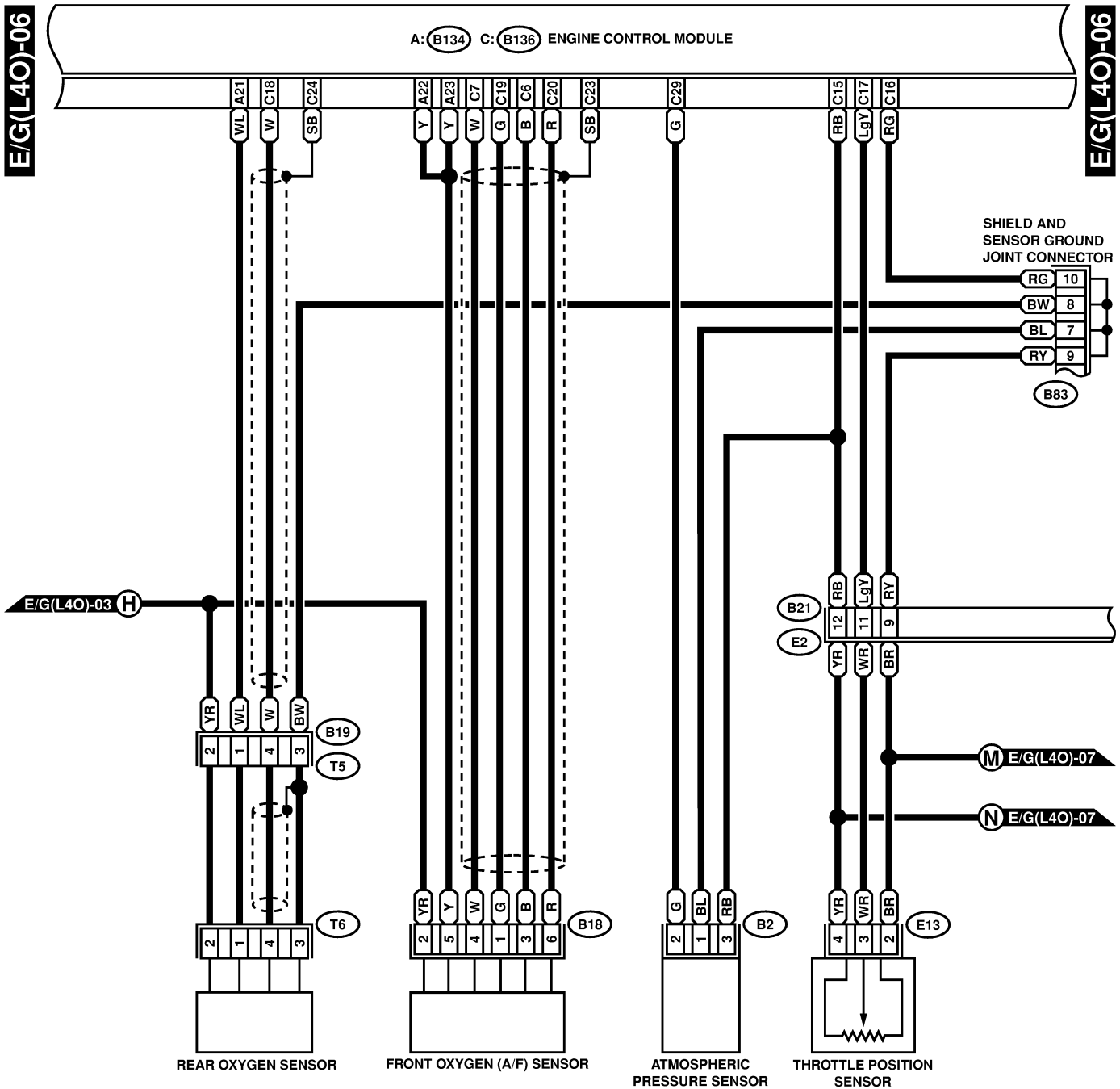


B: (B135)



ENGINE ELECTRICAL SYSTEM

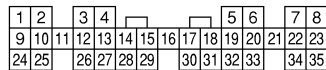
Wiring System



C: B136

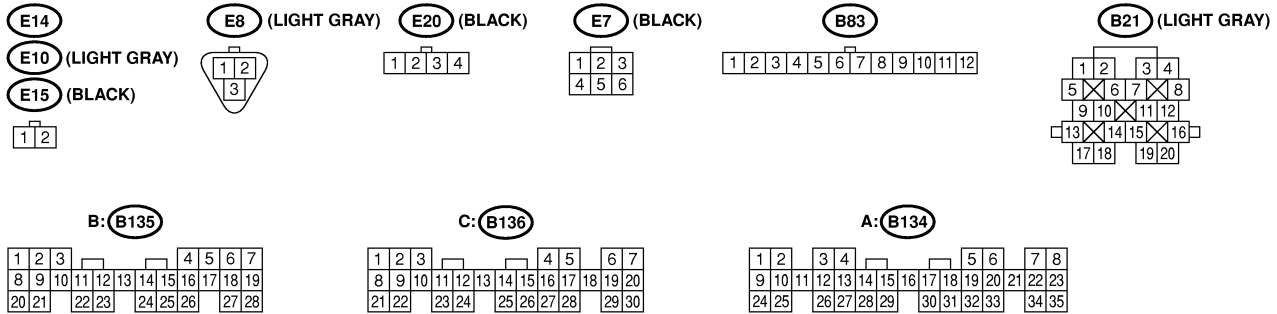
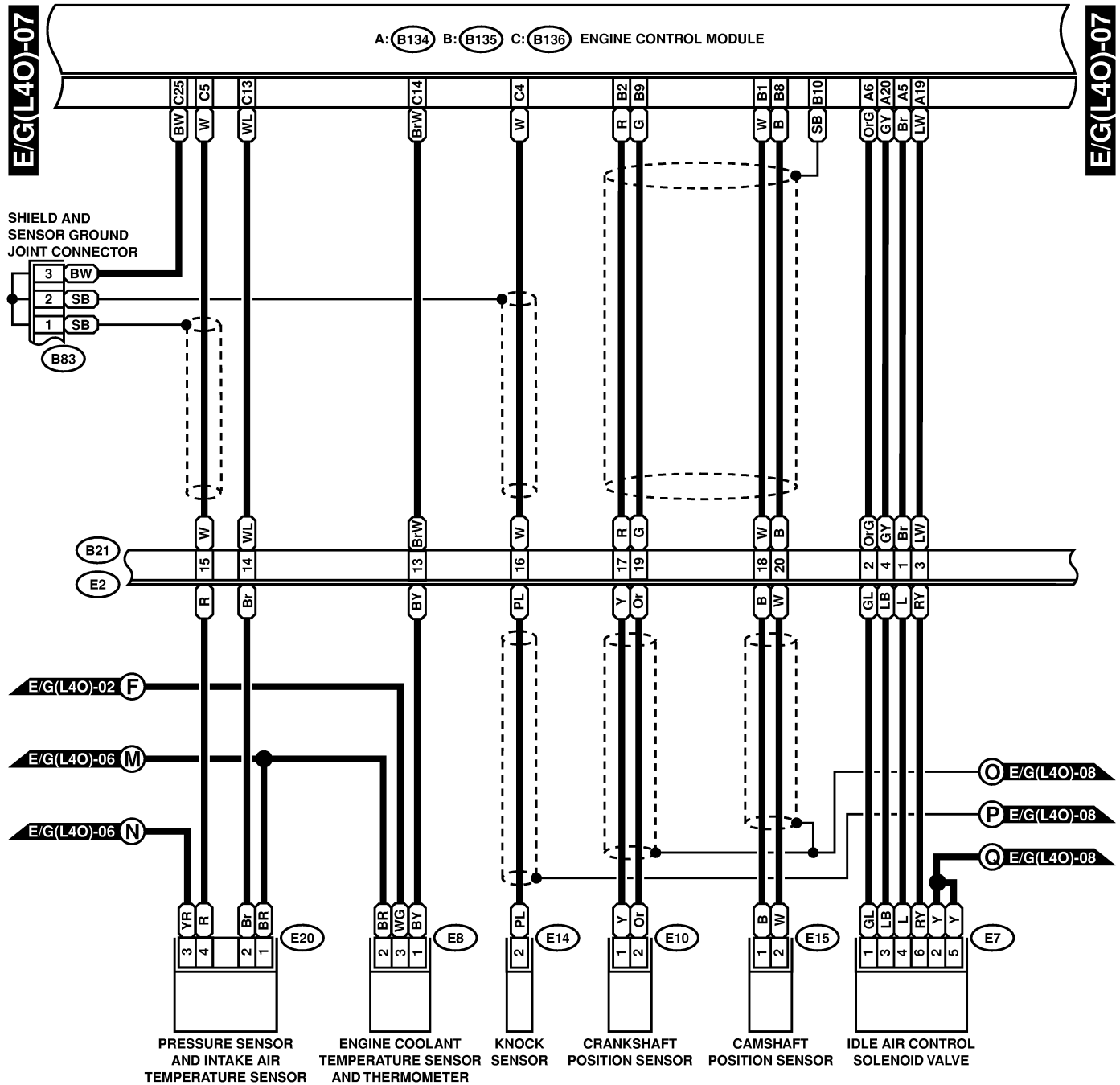


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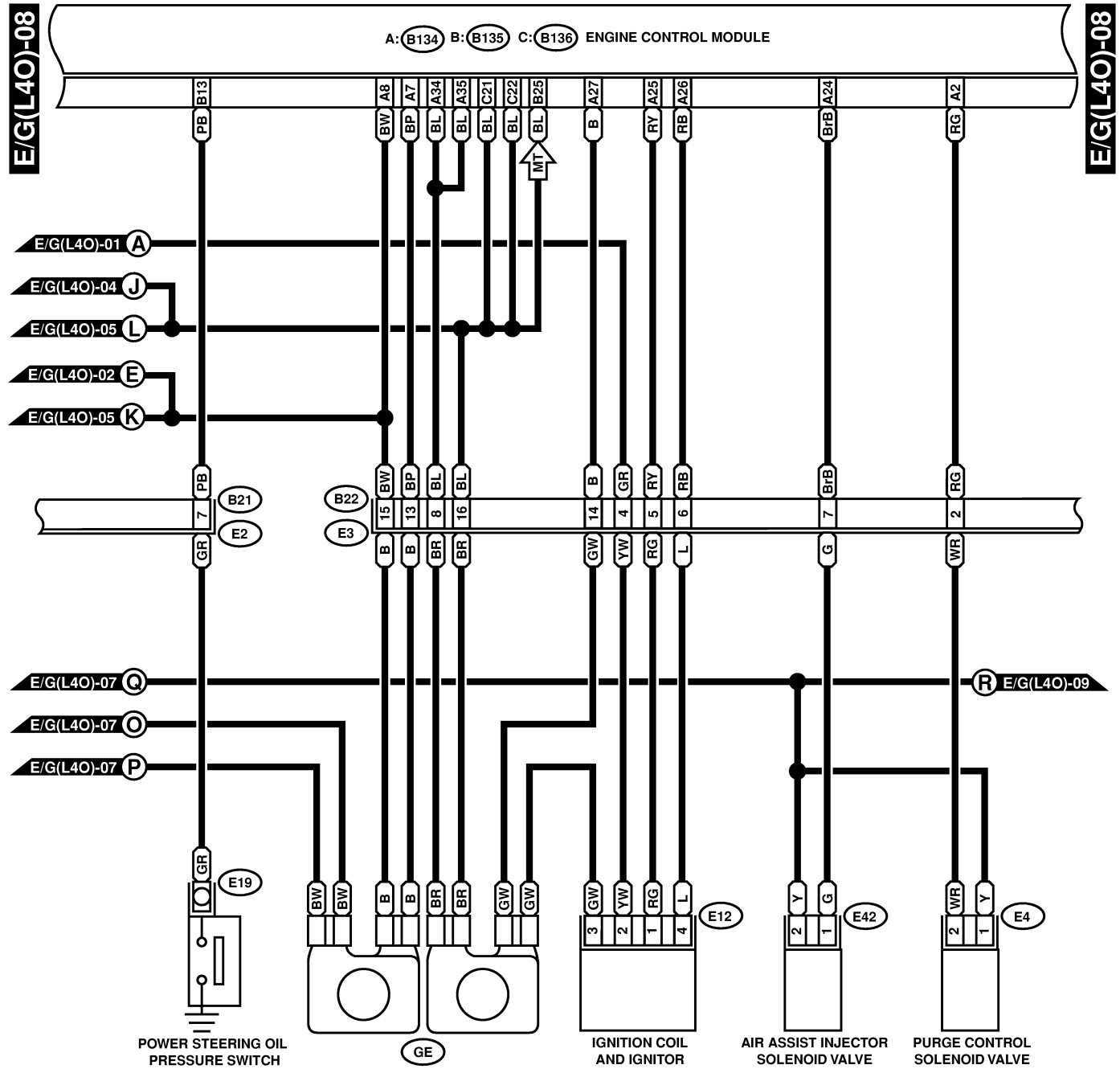
ENGINE ELECTRICAL SYSTEM

Wiring System



ENGINE ELECTRICAL SYSTEM

Wiring System



E4 (BLACK)

E42 (PURPLE)



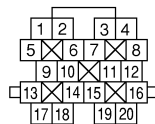
E12 (DARK GRAY)



B22 (BROWN)



B21 (LIGHT GRAY)



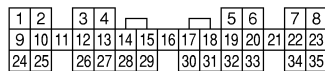
B: B135



C: B136

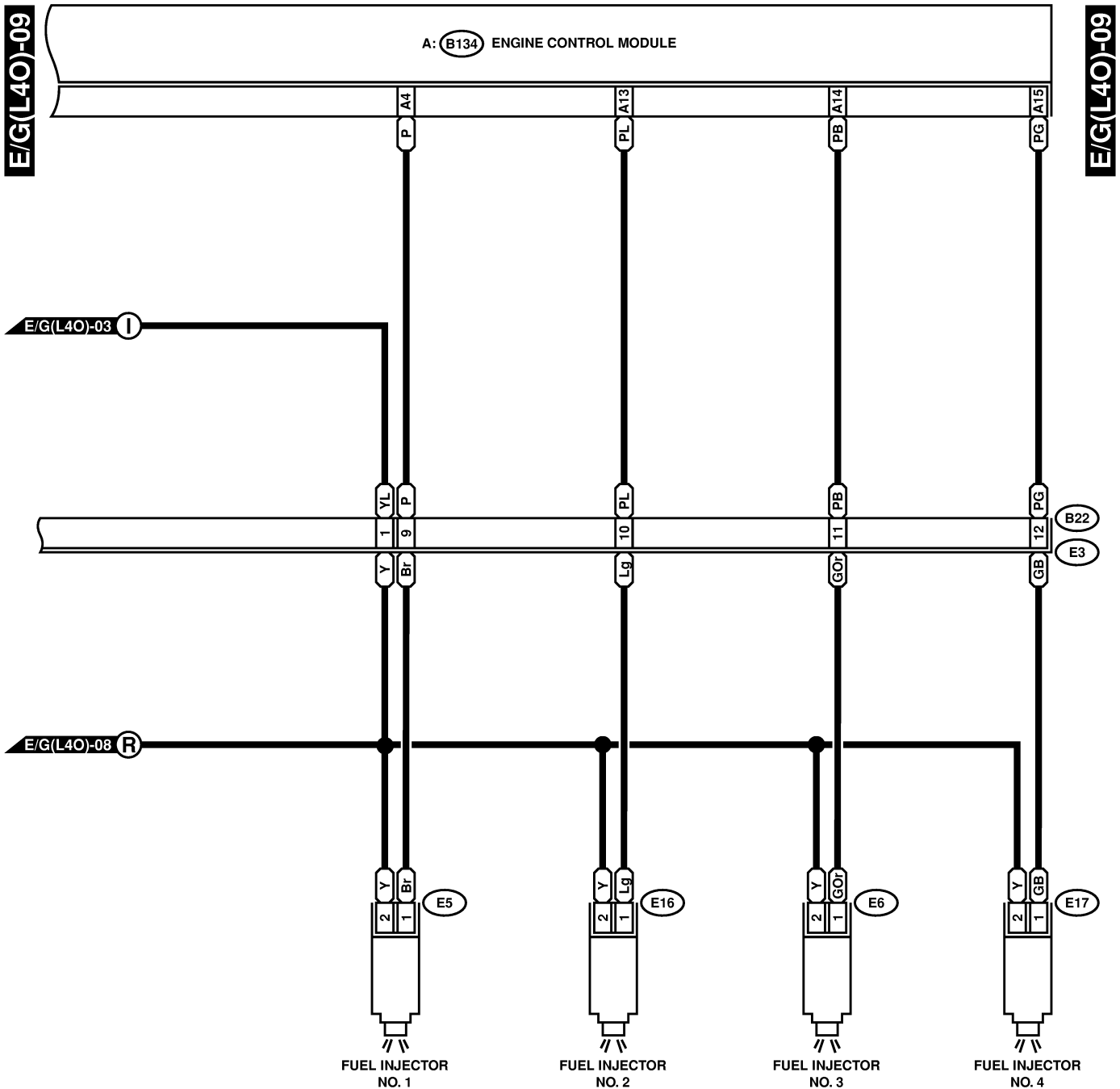


A: B134



ENGINE ELECTRICAL SYSTEM

Wiring System



E5 (LIGHT GRAY)

E6 (LIGHT GRAY)

E16 (LIGHT GRAY)

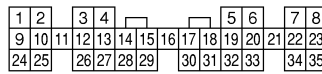
E17 (LIGHT GRAY)



B22 (BROWN)



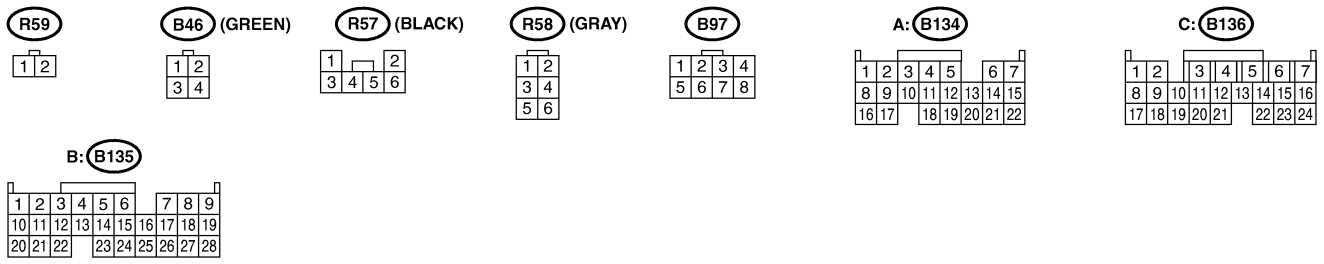
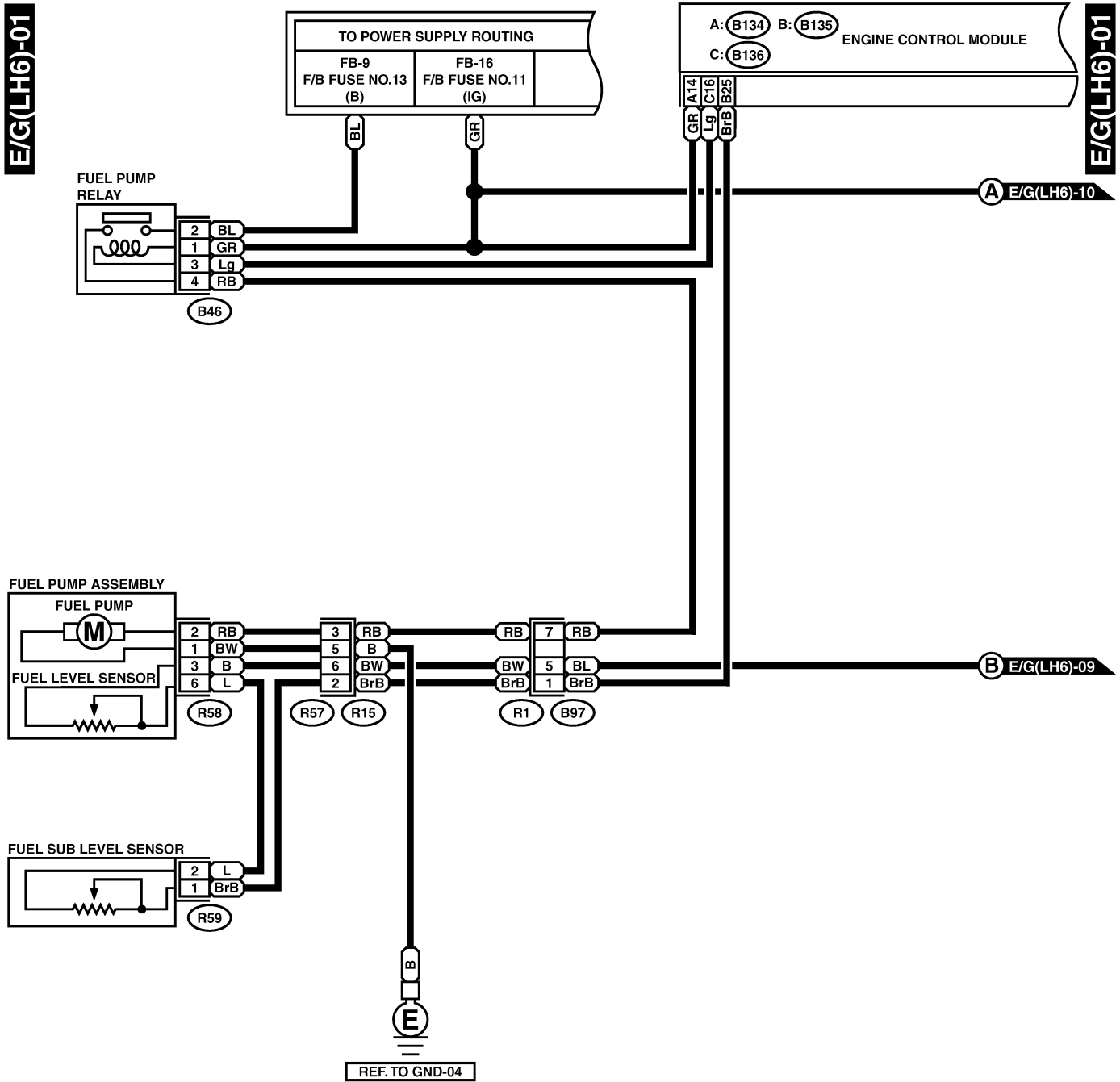
A: (B134)



ENGINE ELECTRICAL SYSTEM

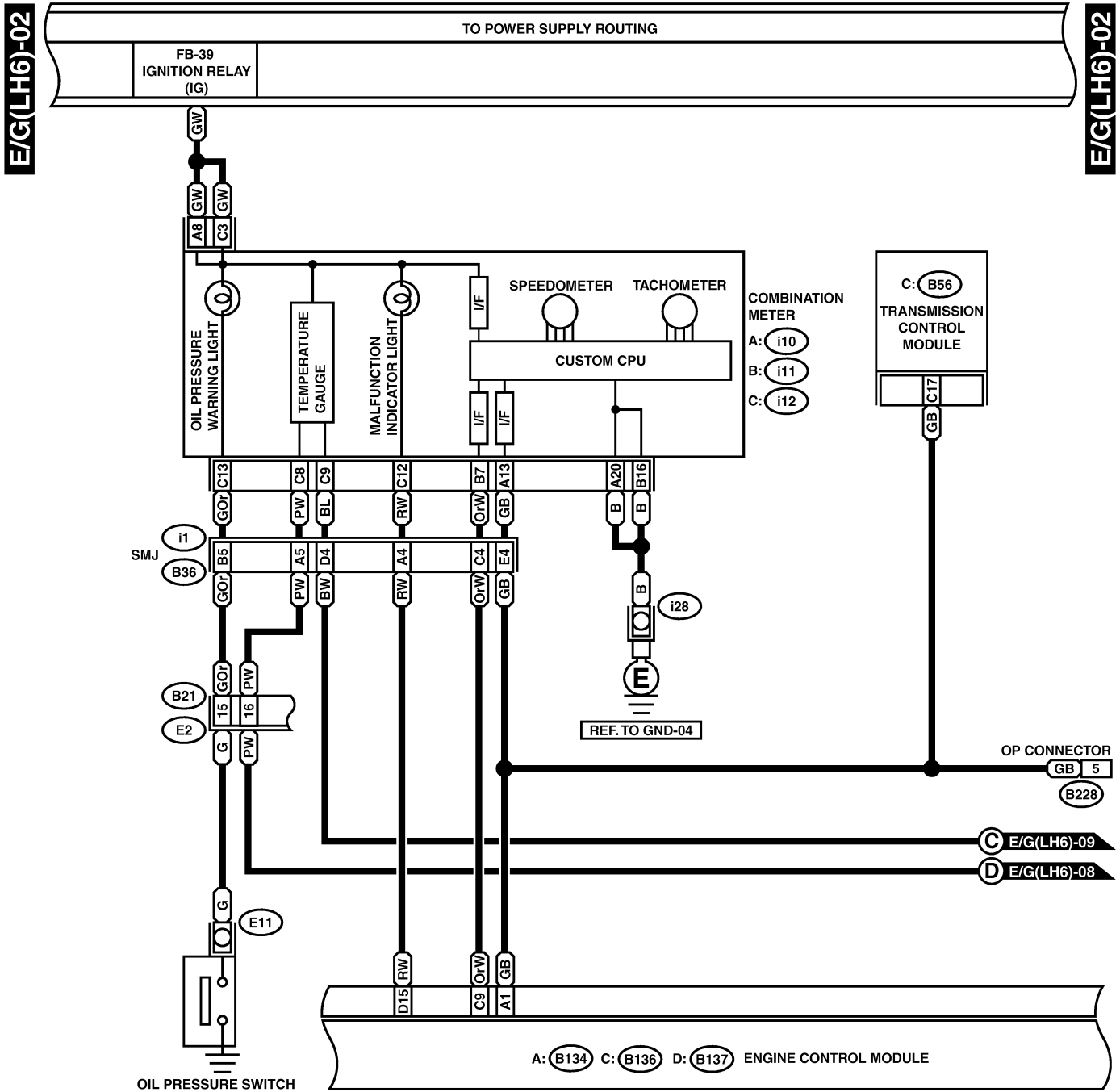
Wiring System

3. LHD-H6 MODEL S903482A2110



ENGINE ELECTRICAL SYSTEM

Wiring System



C: i12 (GREEN)

1	2	3	4	5	6
7	8	9	10	11	12
13	14				

B228

1	2	3
4	5	6
7	8	9
10	11	12
13	14	15

B: i11 (GREEN)

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16					

B21 (LIGHT GRAY)

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20

C: B56 (GREEN)

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21				22	23	24

A: B134

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24				

C: B136

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24				

A: i10 (GREEN)

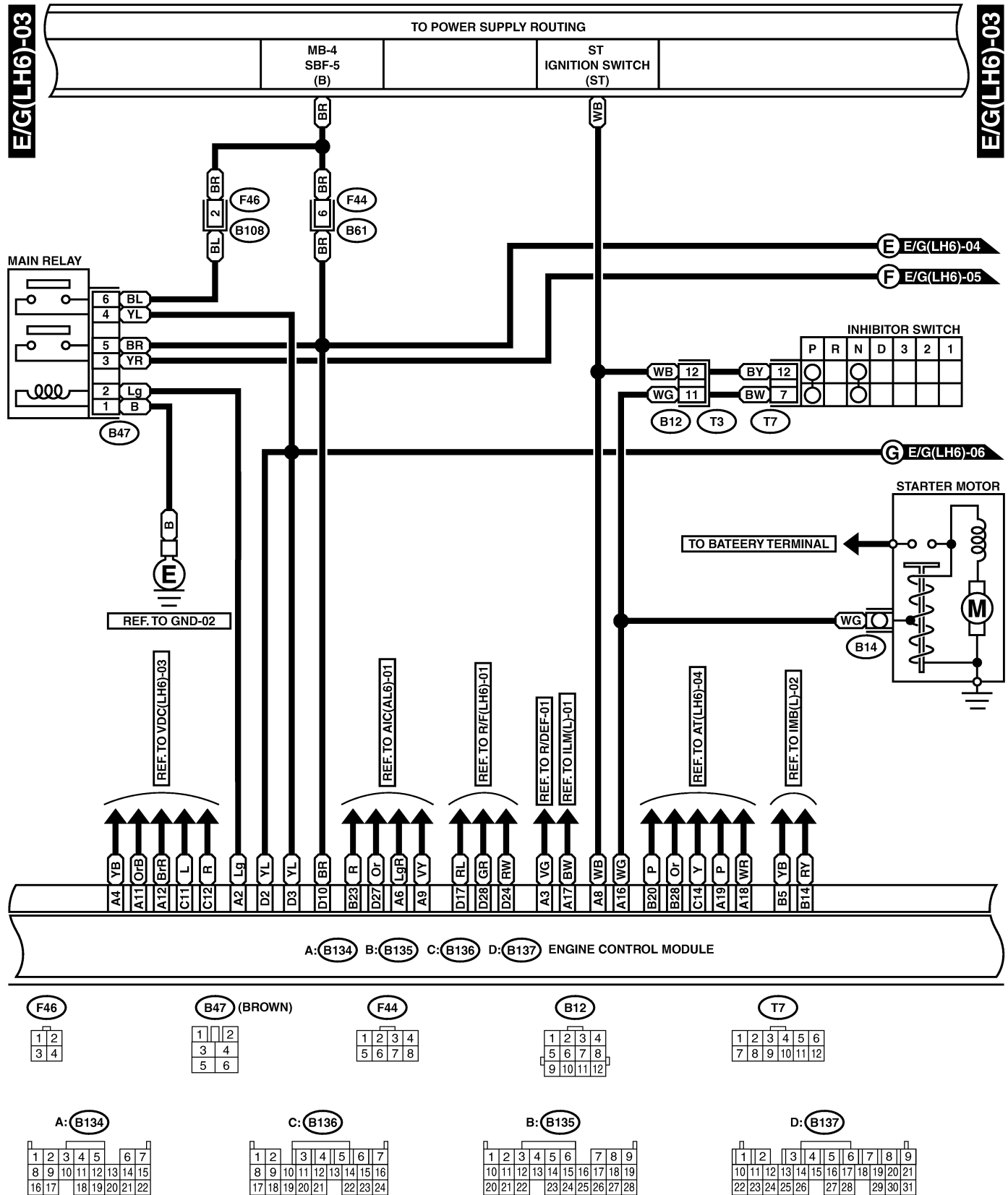
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15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30												

D: B137

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21				27	28	29
30	31							

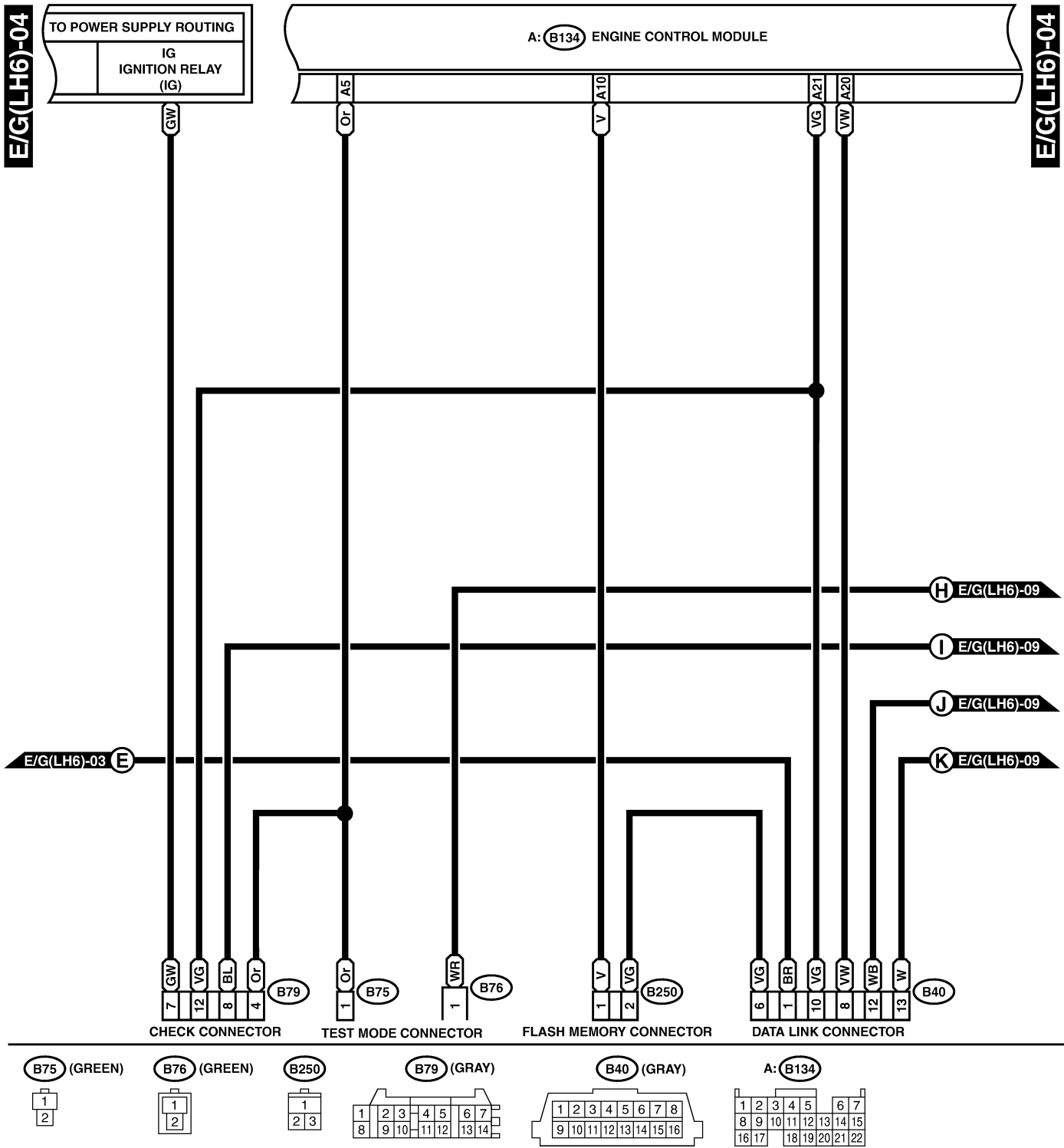
ENGINE ELECTRICAL SYSTEM

Wiring System



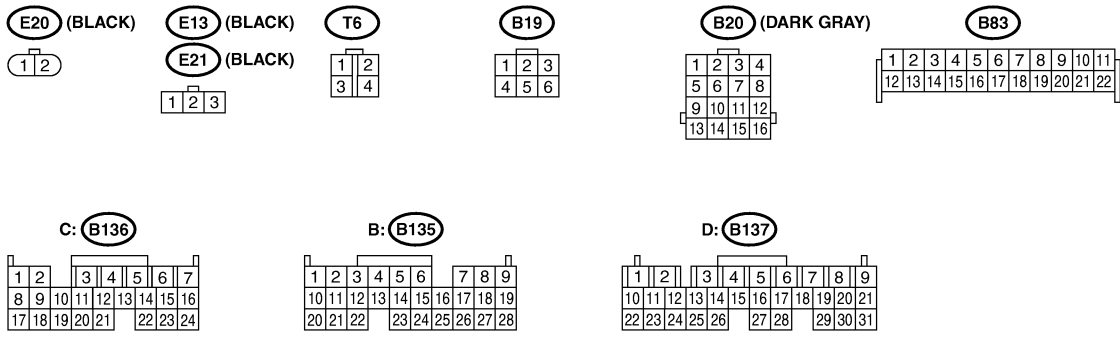
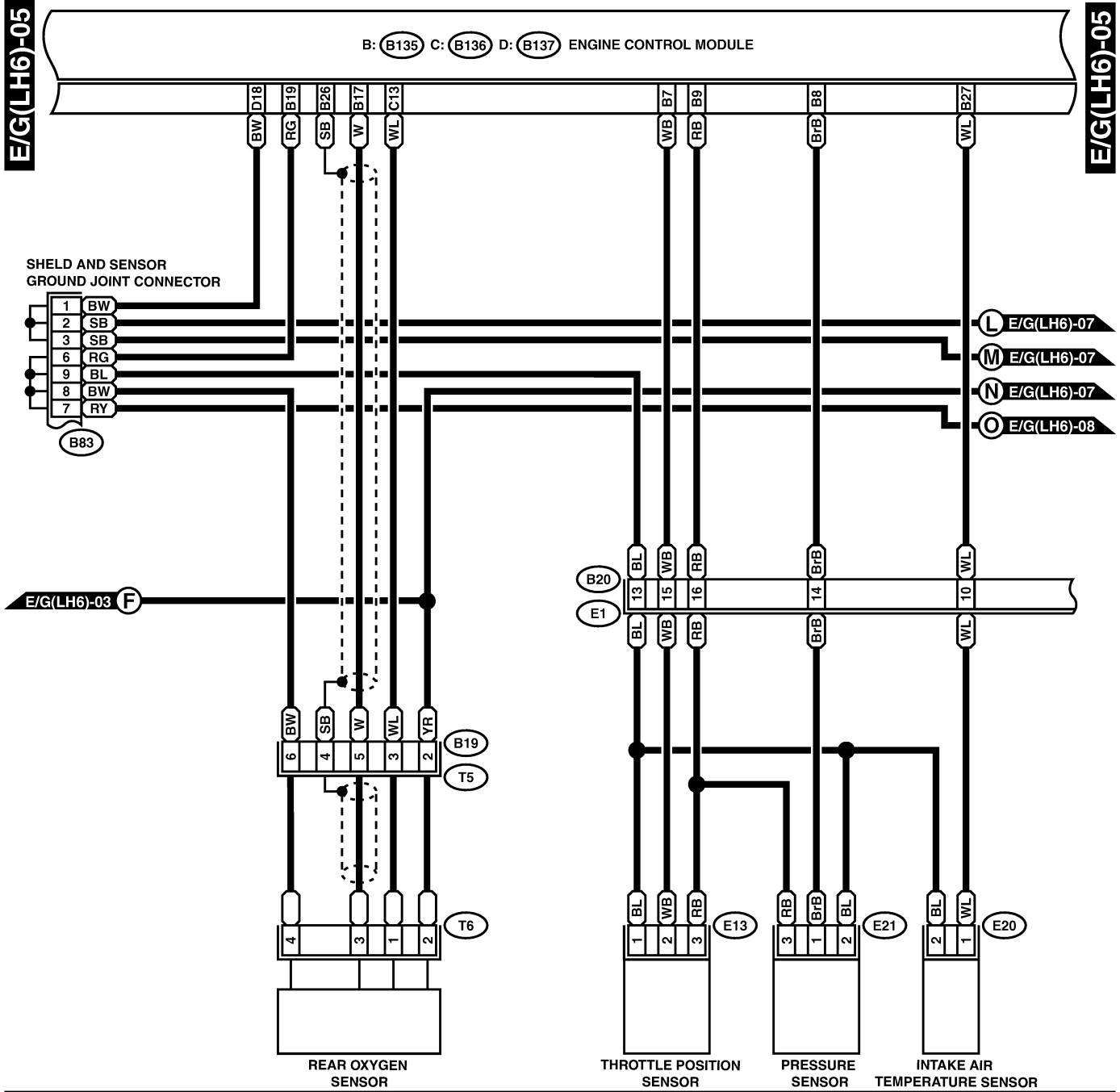
ENGINE ELECTRICAL SYSTEM

Wiring System



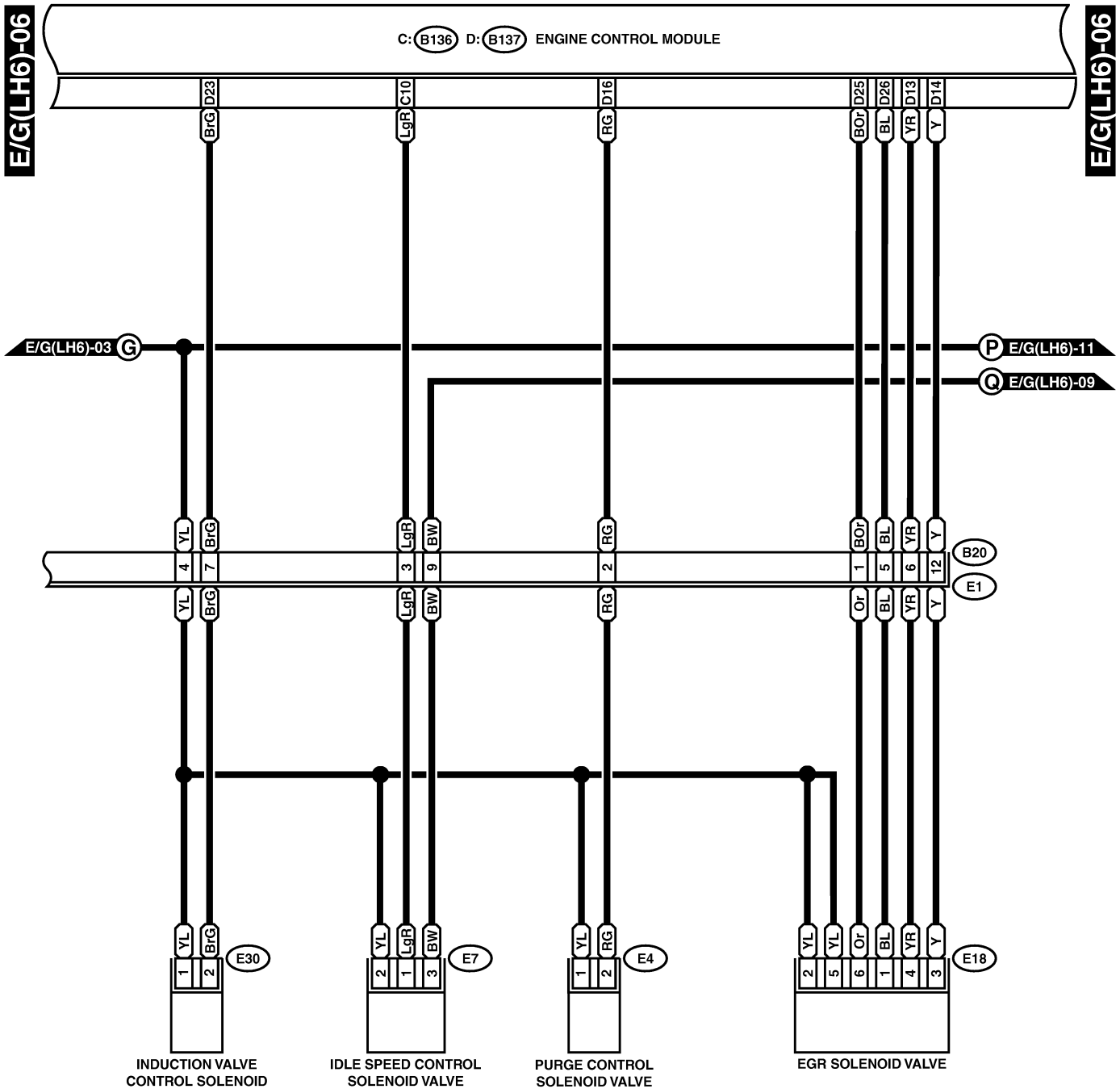
ENGINE ELECTRICAL SYSTEM

Wiring System



ENGINE ELECTRICAL SYSTEM

Wiring System



E30 (BROWN)



E4 (BLACK)



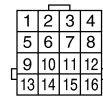
E7 (GRAY)



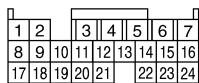
E18 (GRAY)



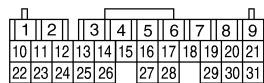
B20 (DARK GRAY)



C: B136

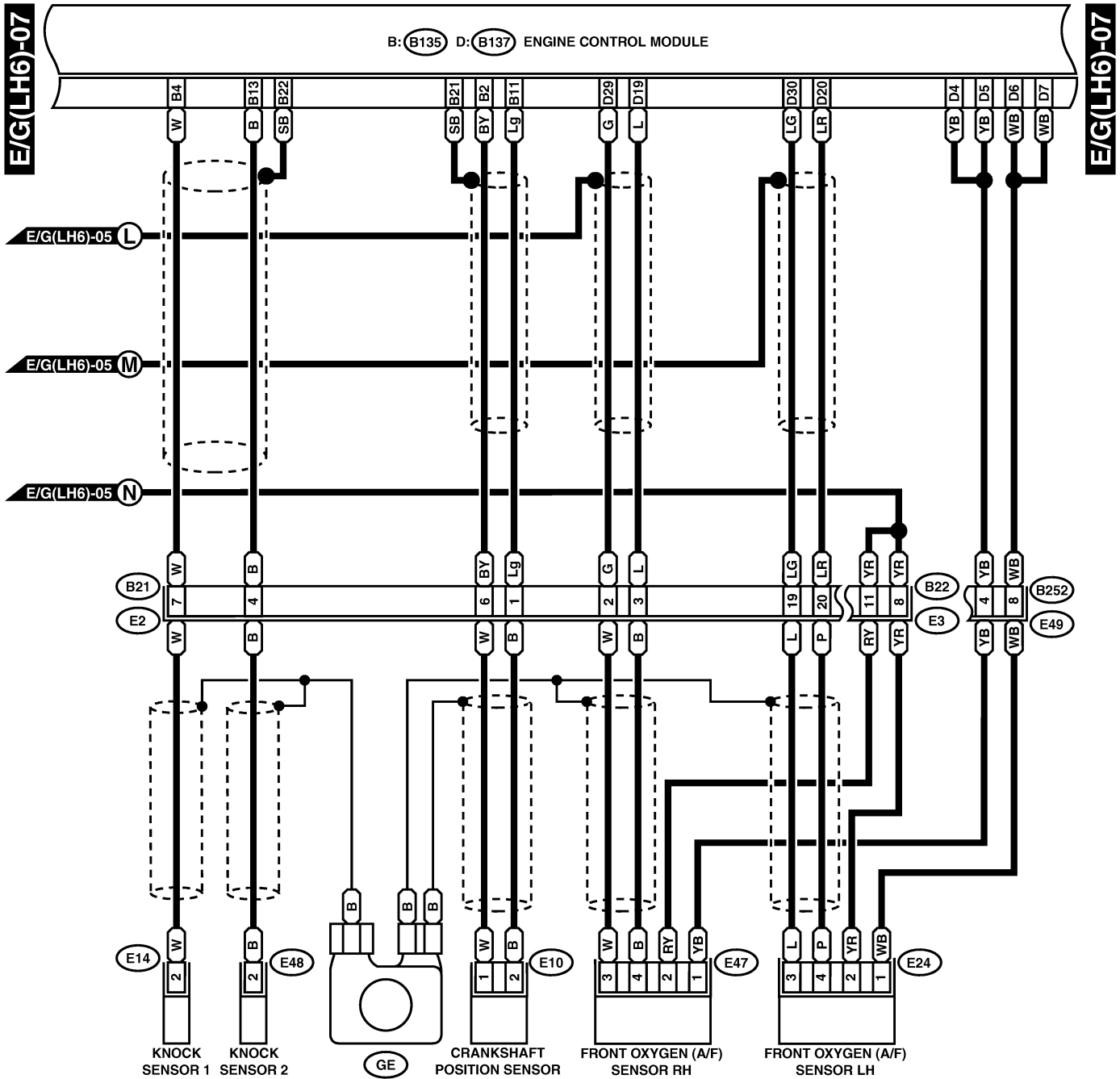


D: B137



ENGINE ELECTRICAL SYSTEM

Wiring System



- E14 (BLUE)
- E10 (GRAY)
- E24 (DARK GRAY)
- B252 (DARK GRAY)
- B22 (BROWN)
- B21 (LIGHT GRAY)
- E48 (BLUE)
- 1 2
- E47 (DARK GRAY)
- 1 2 3 4
5 6 7 8
- 1 2 3 4
5 6 7 8
9 10 11 12
13 14 15 16
- 1 2 3 4
5 6 7 8
9 10 11 12
13 14 15 16
17 18 19 20

B: B135

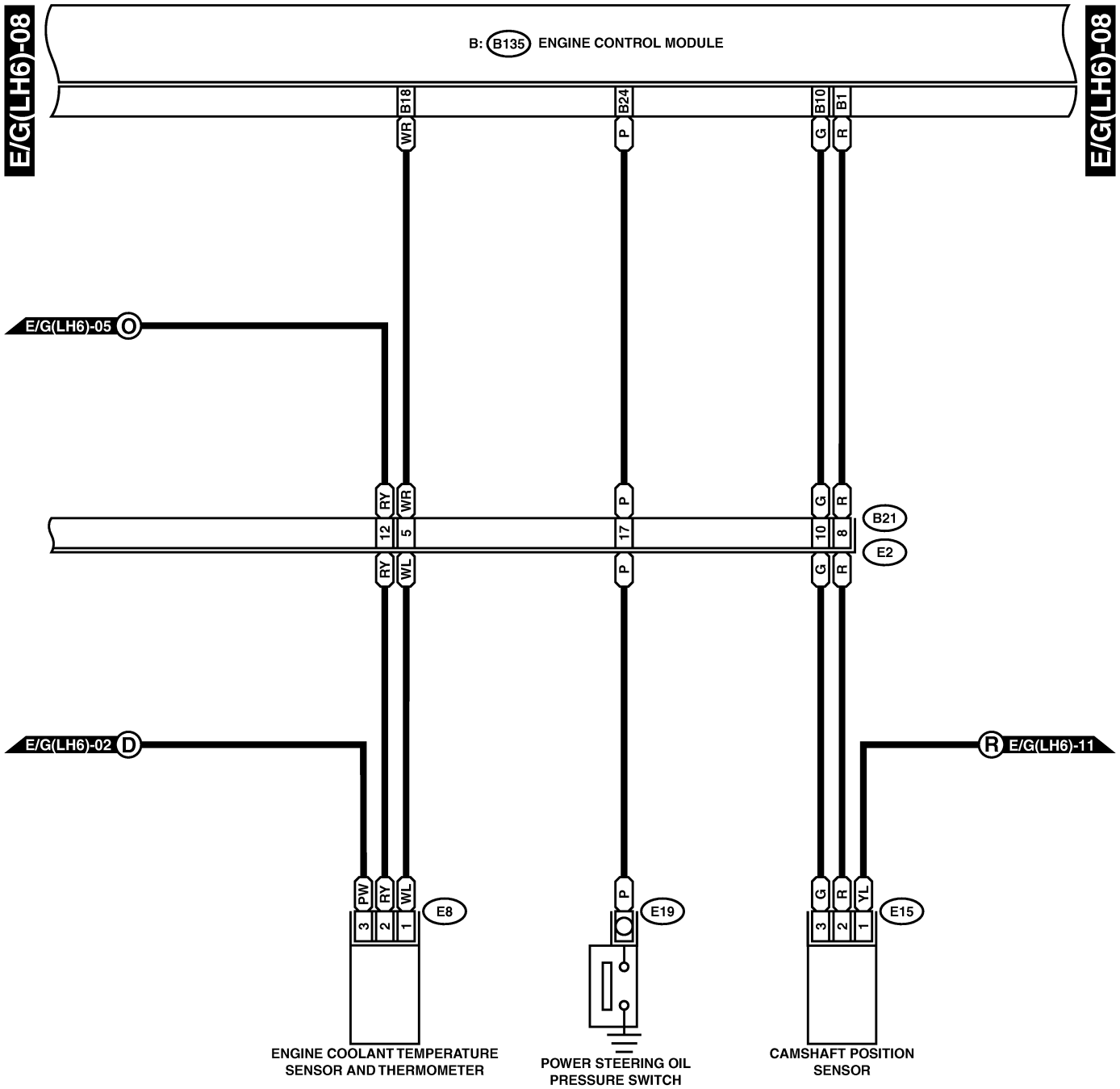
1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28								

D: B137

1	2	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					

ENGINE ELECTRICAL SYSTEM

Wiring System



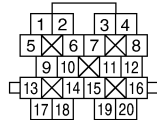
(E15) (GRAY)



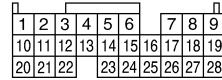
(E8) (LIGHT GRAY)



(B21) (LIGHT GRAY)

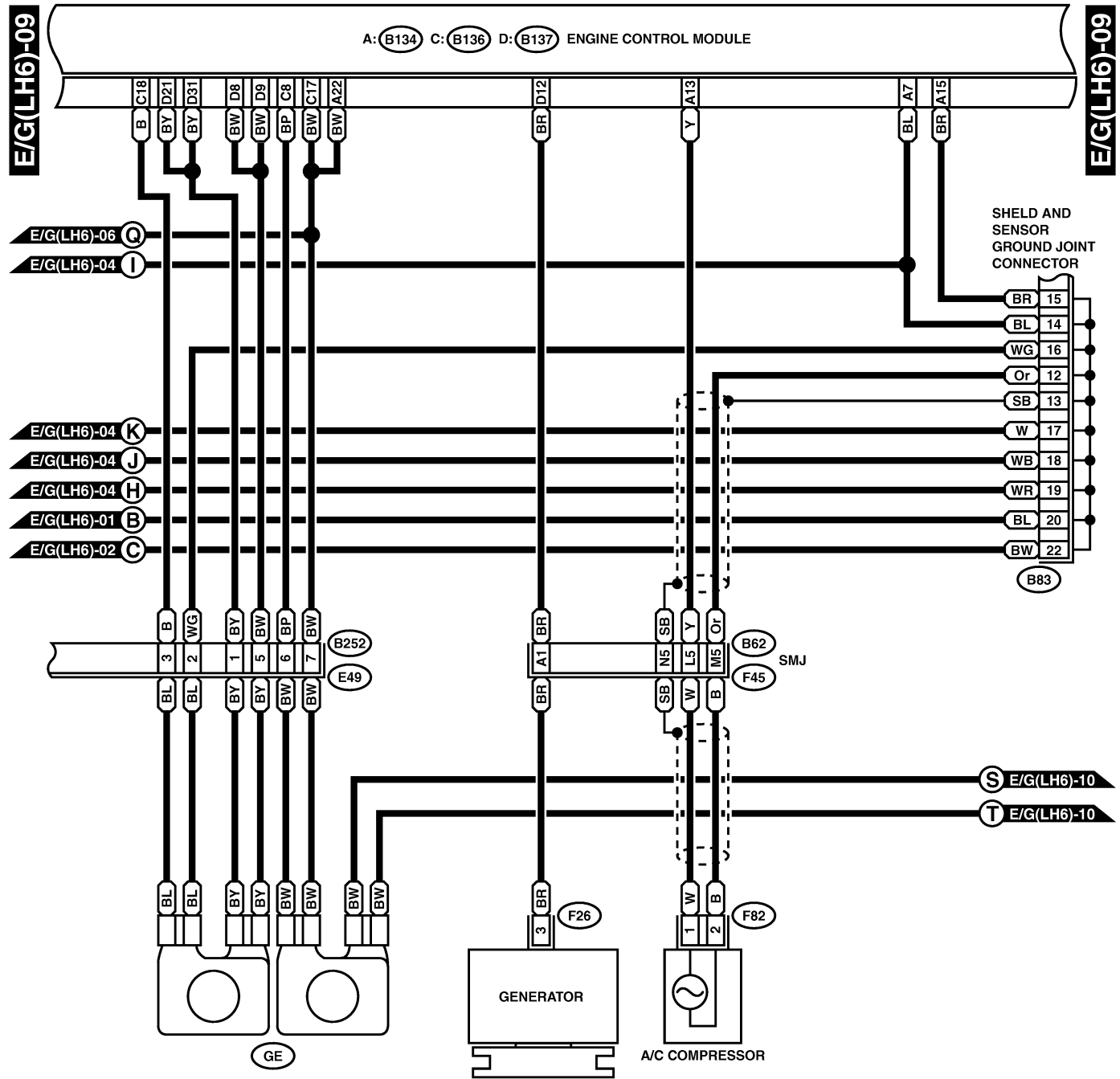


B: (B135)



ENGINE ELECTRICAL SYSTEM

Wiring System



(F26) (GREEN)

(B252) (DARK GRAY)

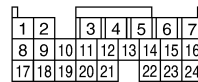
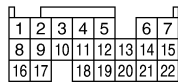
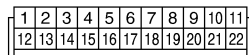
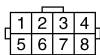
(B83)

A: (B134)

C: (B136)

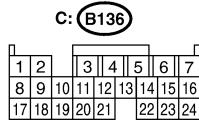
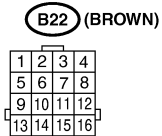
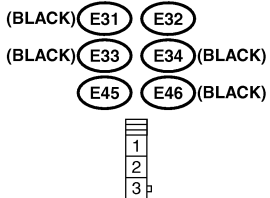
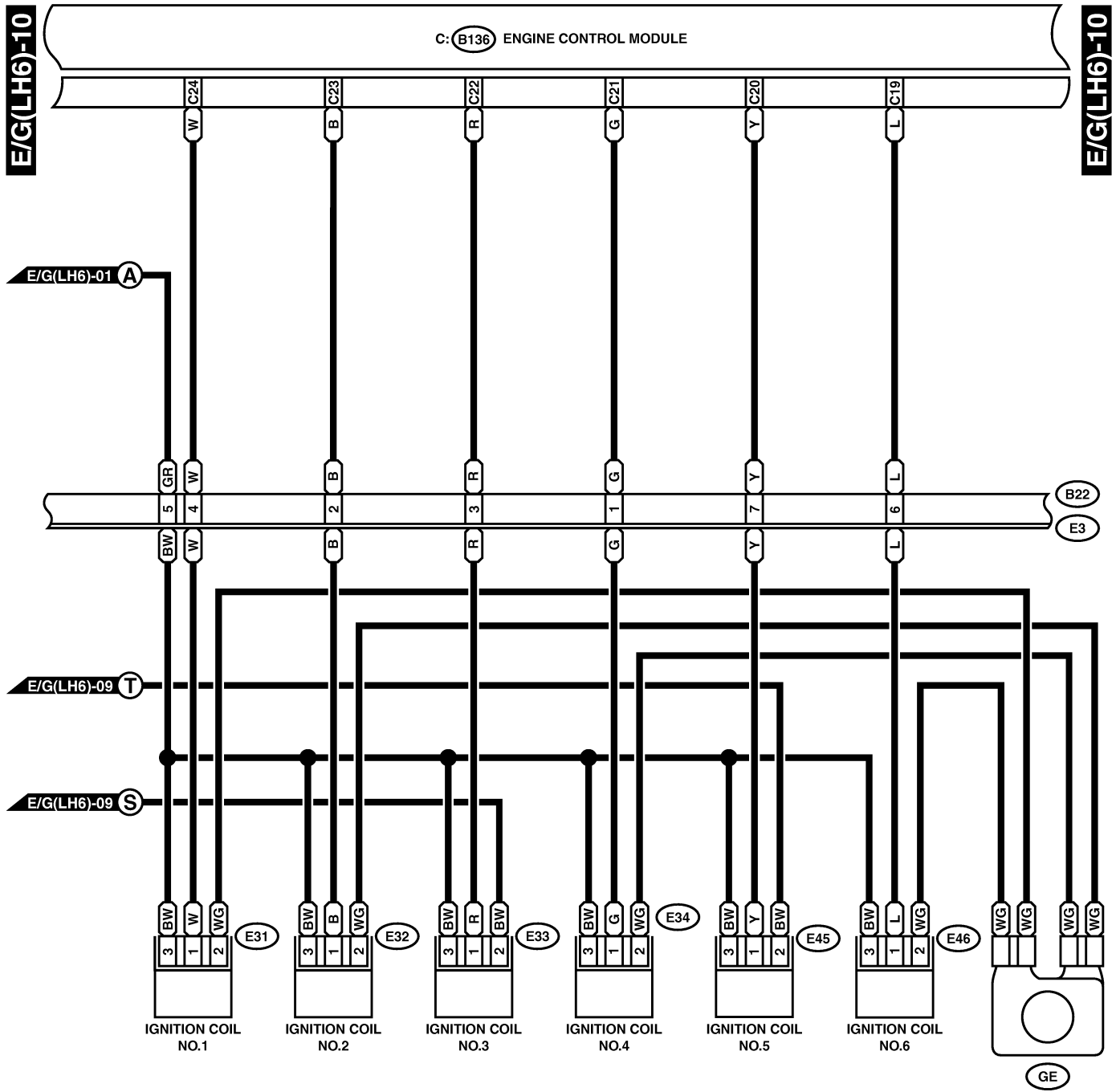
D: (B137)

(F82) (BLACK)



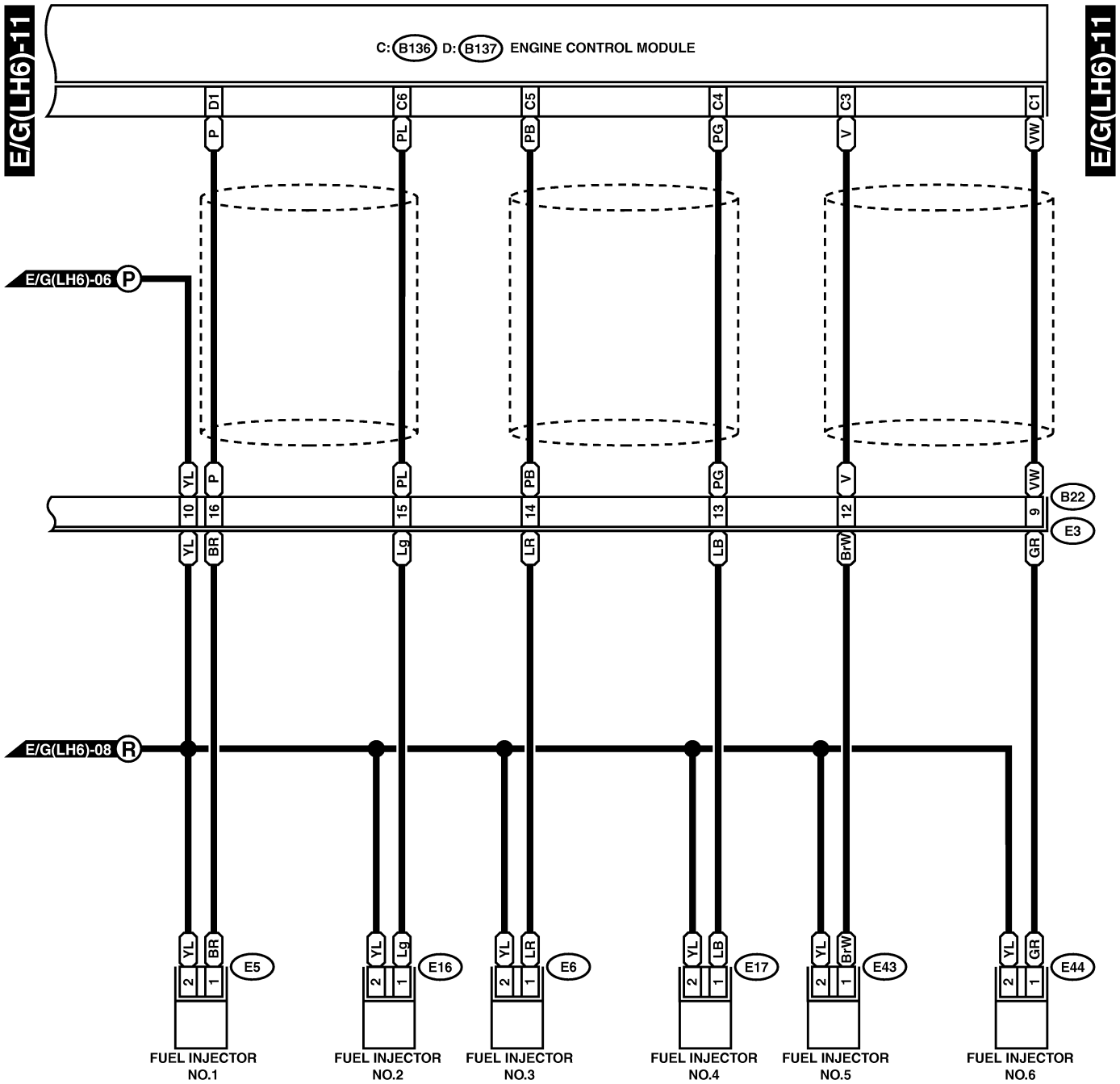
ENGINE ELECTRICAL SYSTEM

Wiring System



ENGINE ELECTRICAL SYSTEM

Wiring System



(GRAY) E5 (GRAY) E6 (GRAY)

(GRAY) E16 (GRAY) E17 (GRAY)

(GRAY) E43 (GRAY) E44 (GRAY)

1 2

B22 (BROWN)

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

C: B136

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24				

D: B137

1	2	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					

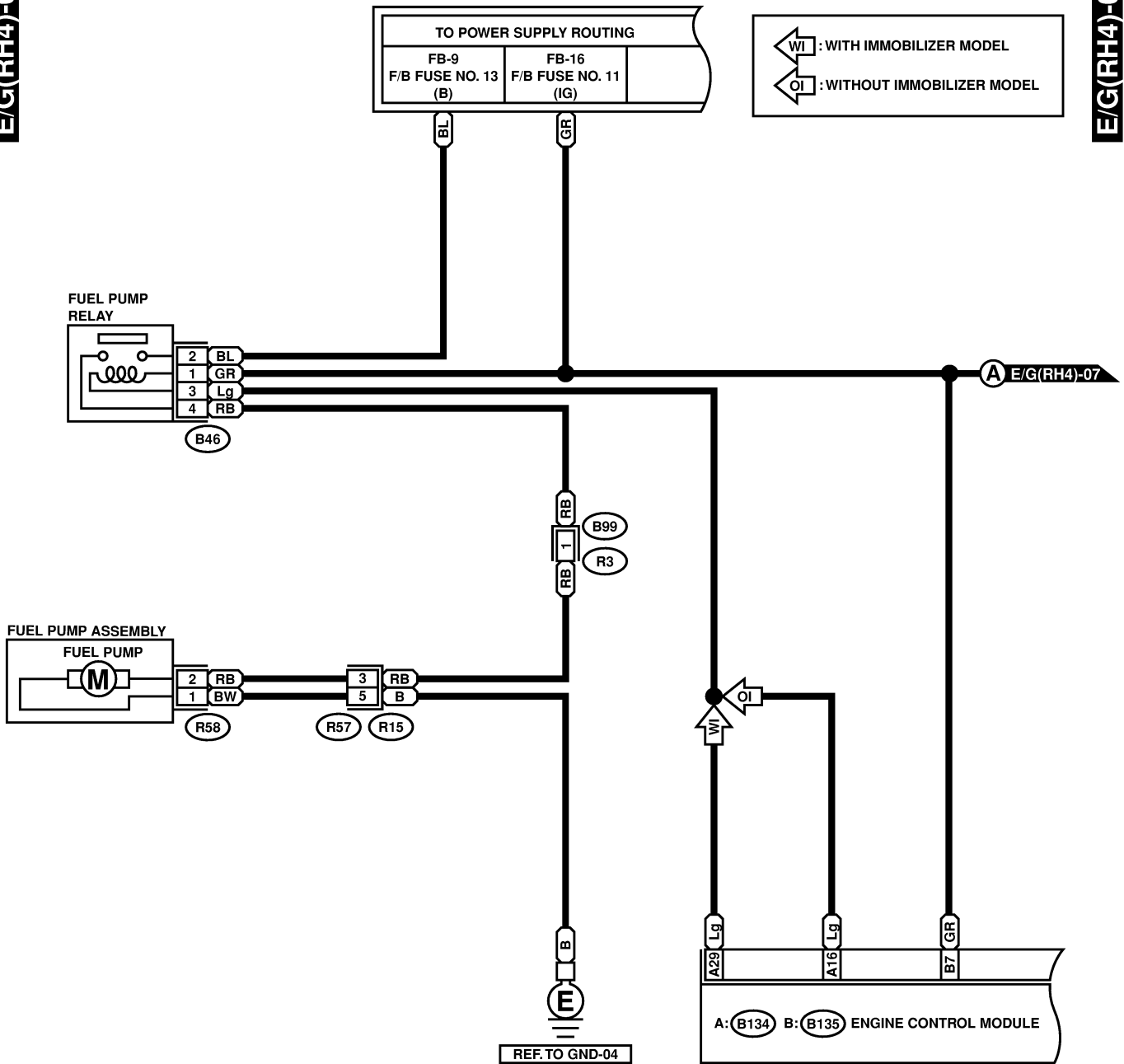
ENGINE ELECTRICAL SYSTEM

Wiring System

4. RHD-H4 WITHOUT OBD MODEL S903482A2111

E/G(RH4)-01

E/G(RH4)-01



B46 (GREEN)



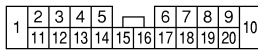
R57 (BLACK)



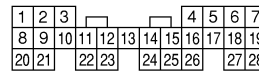
R58 (GRAY)



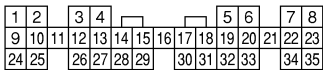
R3



B: B135

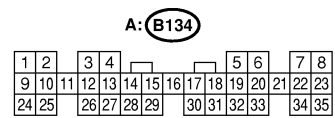
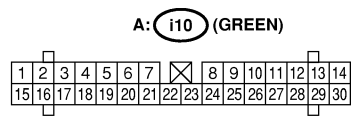
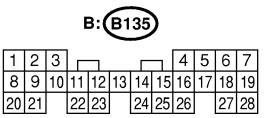
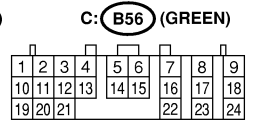
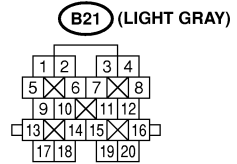
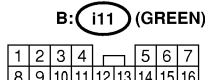
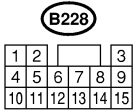
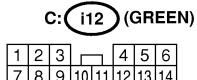
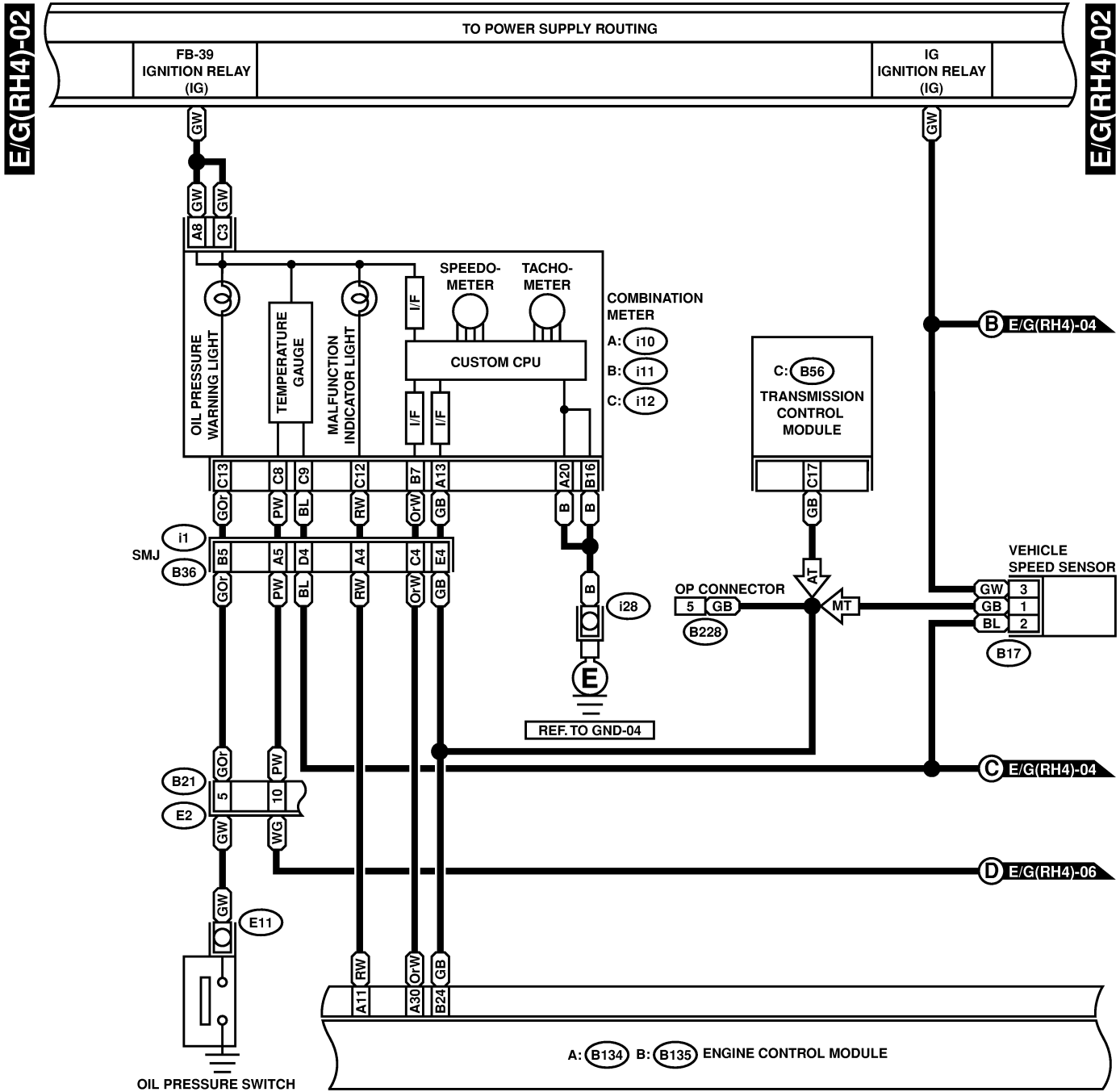


A: B134



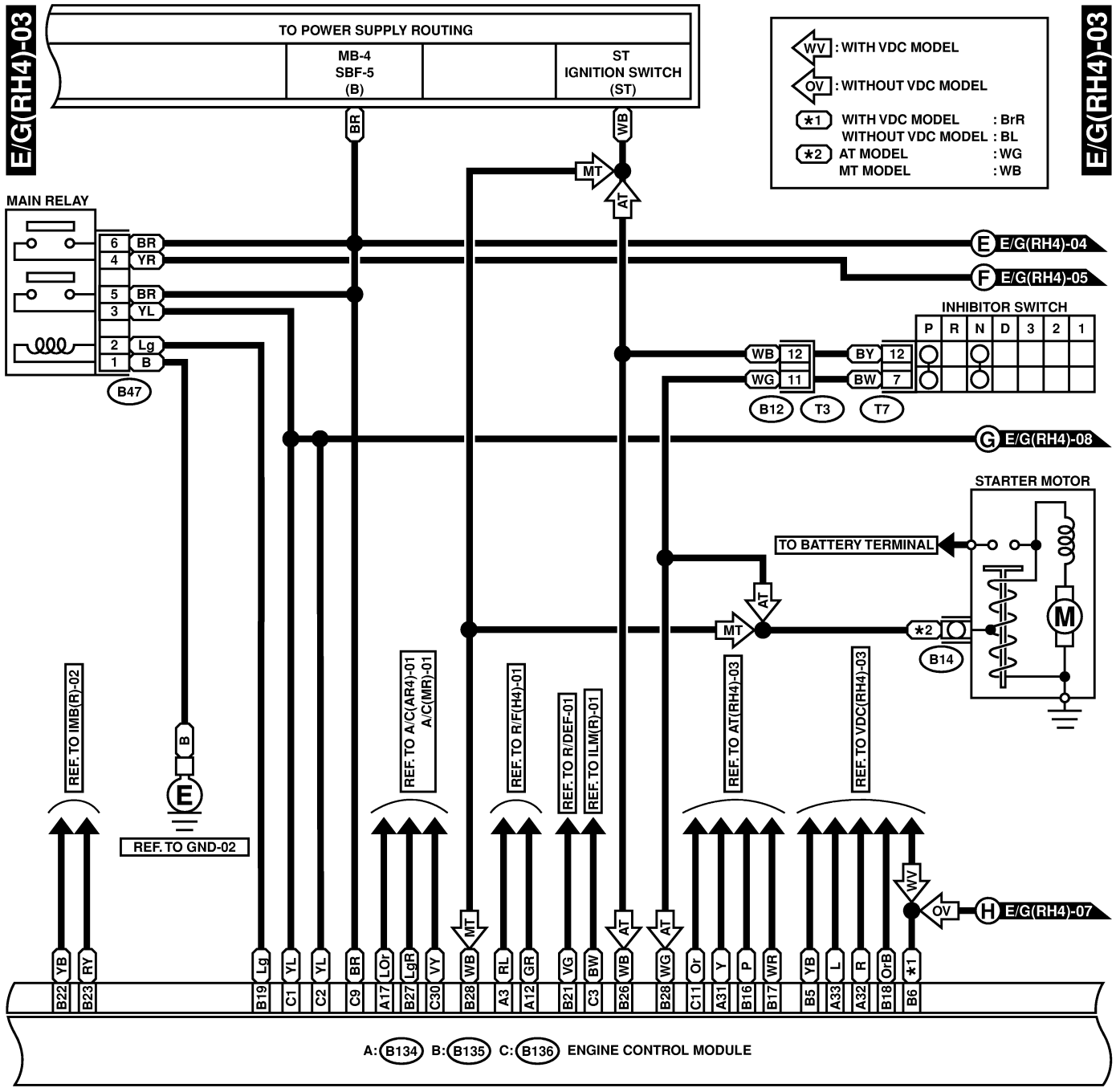
ENGINE ELECTRICAL SYSTEM

Wiring System



ENGINE ELECTRICAL SYSTEM

Wiring System

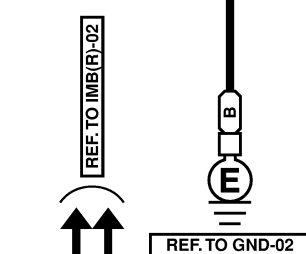
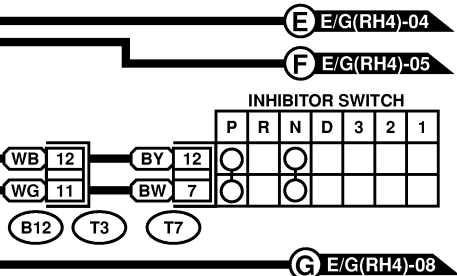
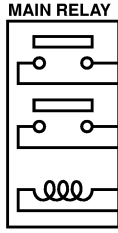


Legend:

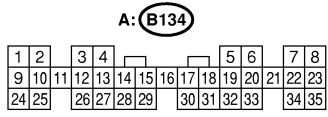
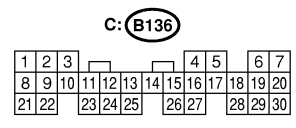
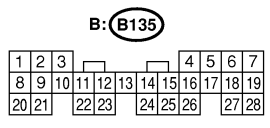
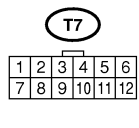
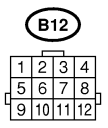
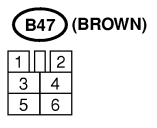
- ◀ WV : WITH VDC MODEL
- ◀ OV : WITHOUT VDC MODEL
- *1 WITH VDC MODEL : BrR
- WITHOUT VDC MODEL : BL
- *2 AT MODEL : WG
- MT MODEL : WB

E/G(RH4)-03

E/G(RH4)-03

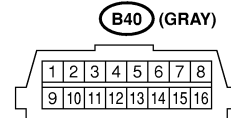
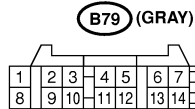
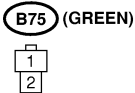
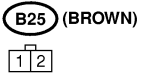
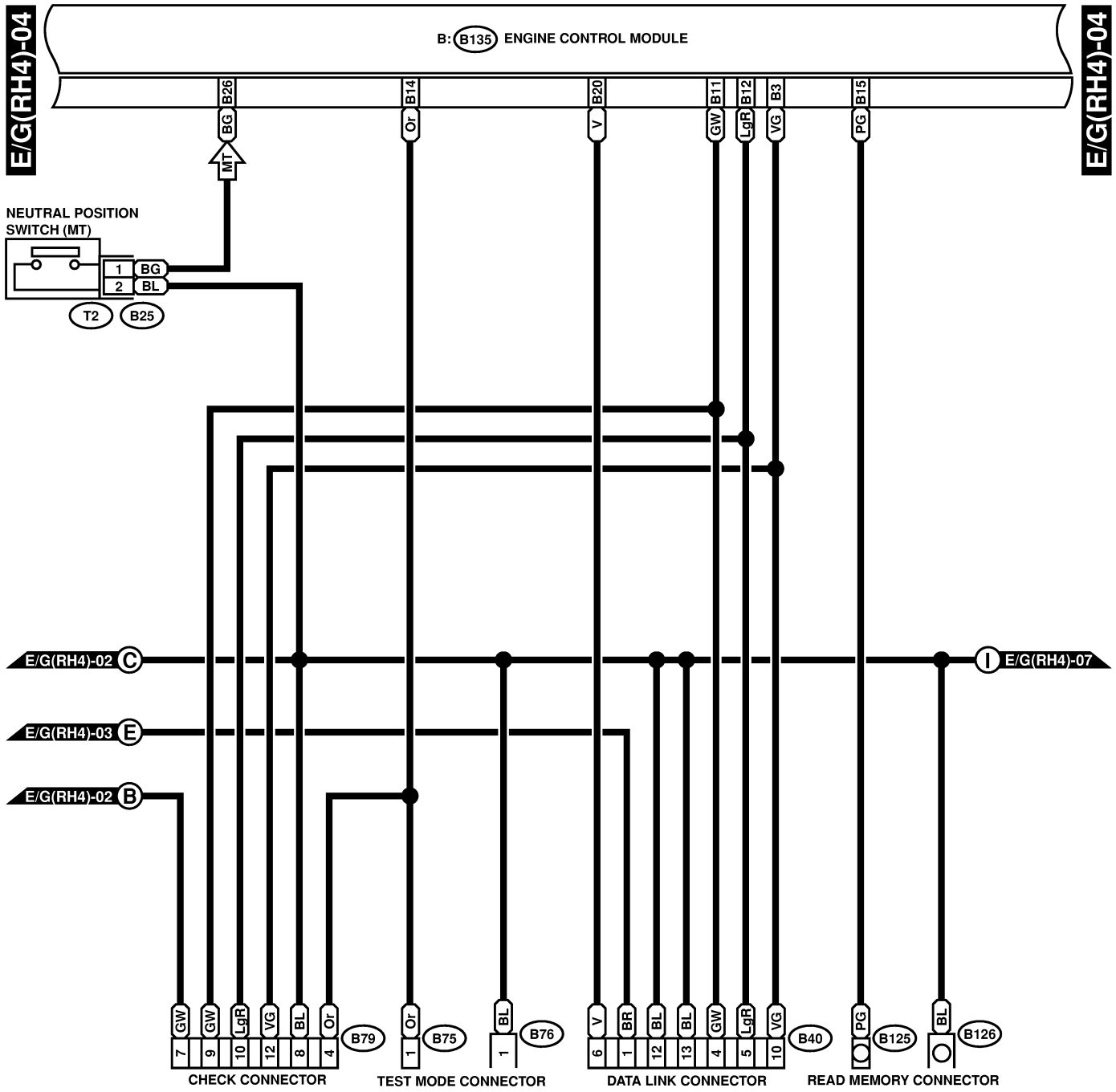


A: (B134) B: (B135) C: (B136) ENGINE CONTROL MODULE



ENGINE ELECTRICAL SYSTEM

Wiring System

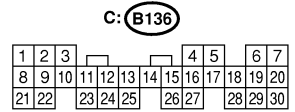
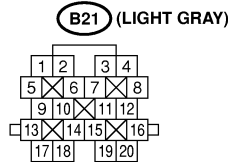
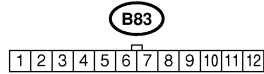
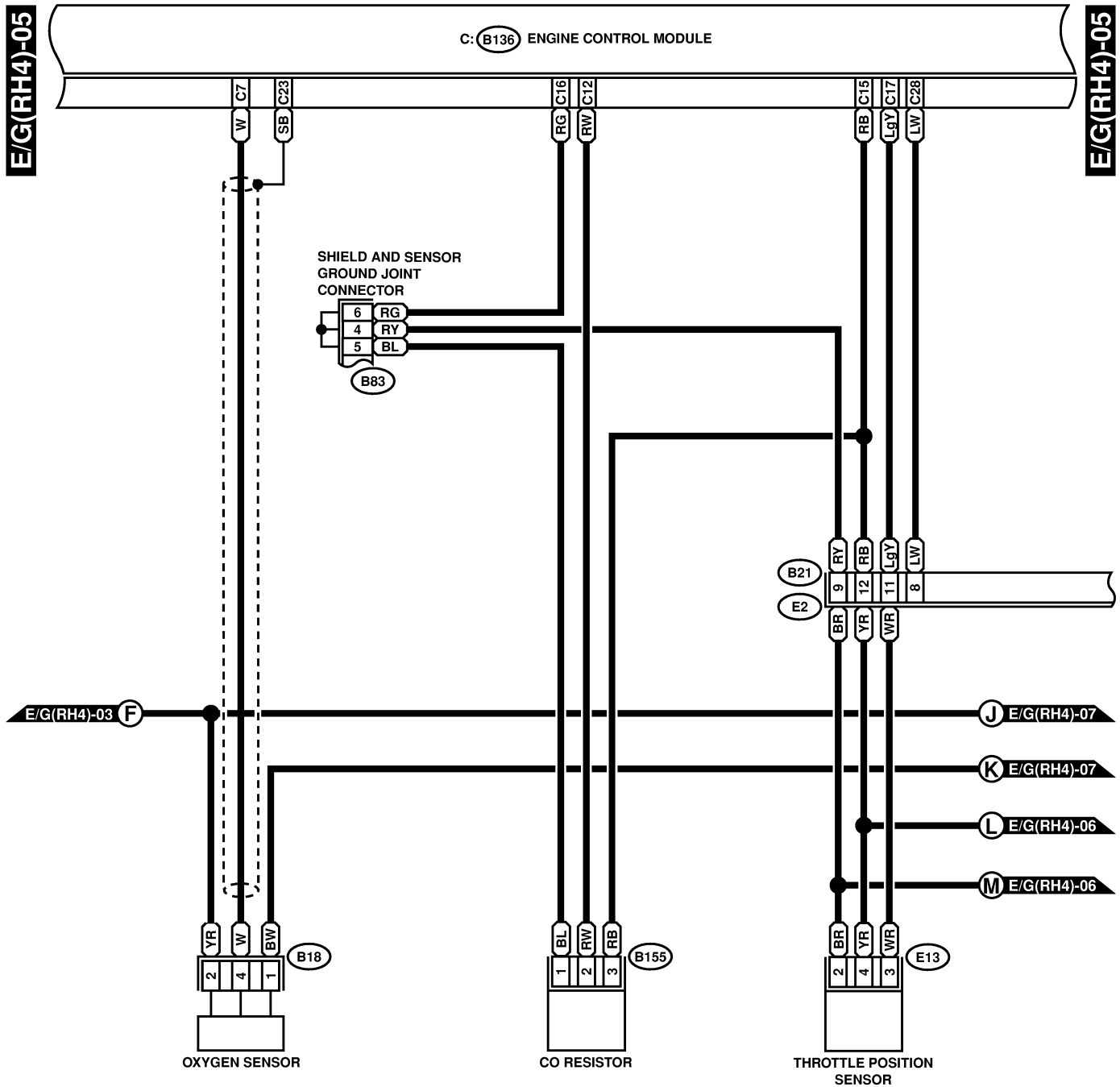


B: (B135)



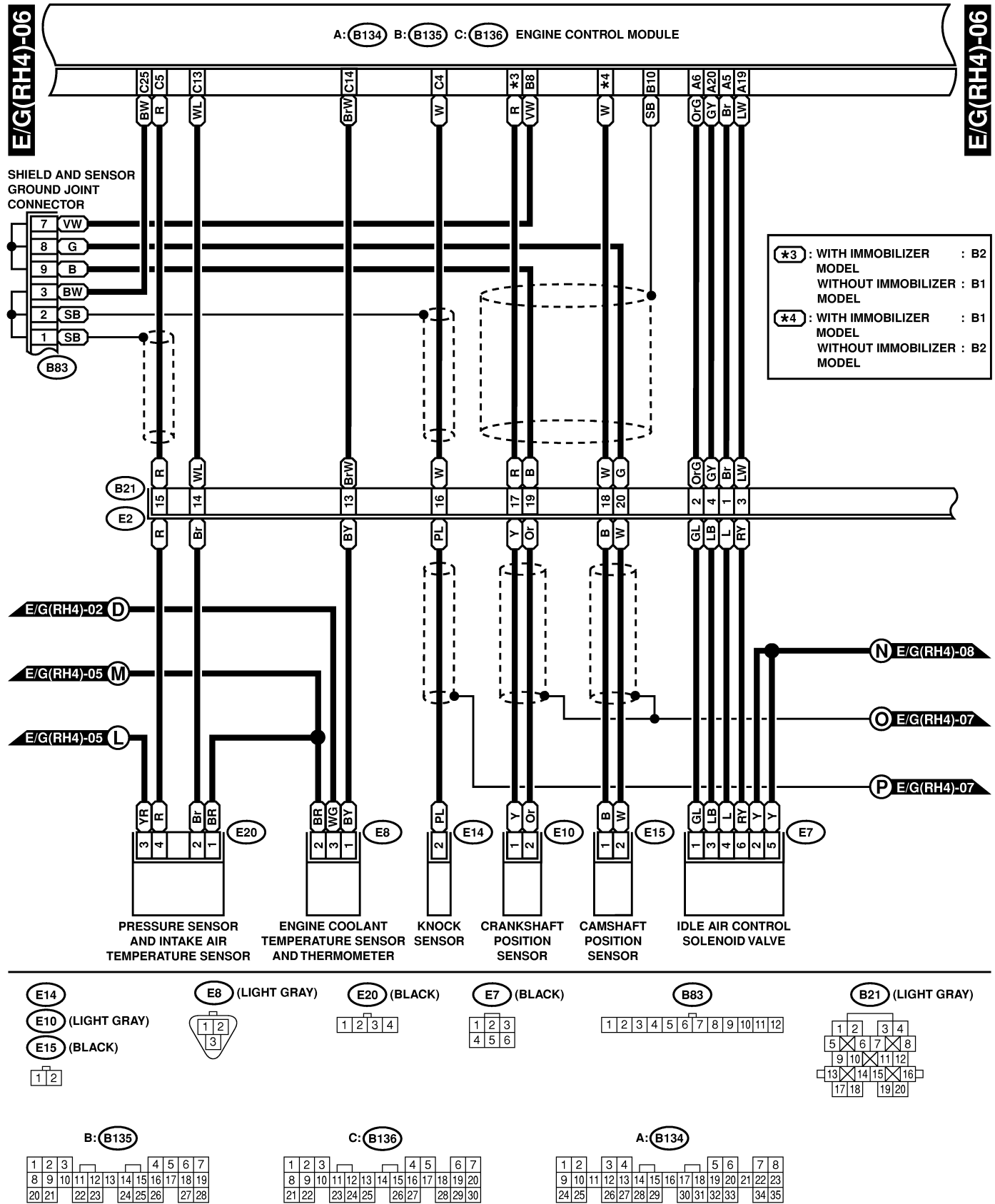
ENGINE ELECTRICAL SYSTEM

Wiring System



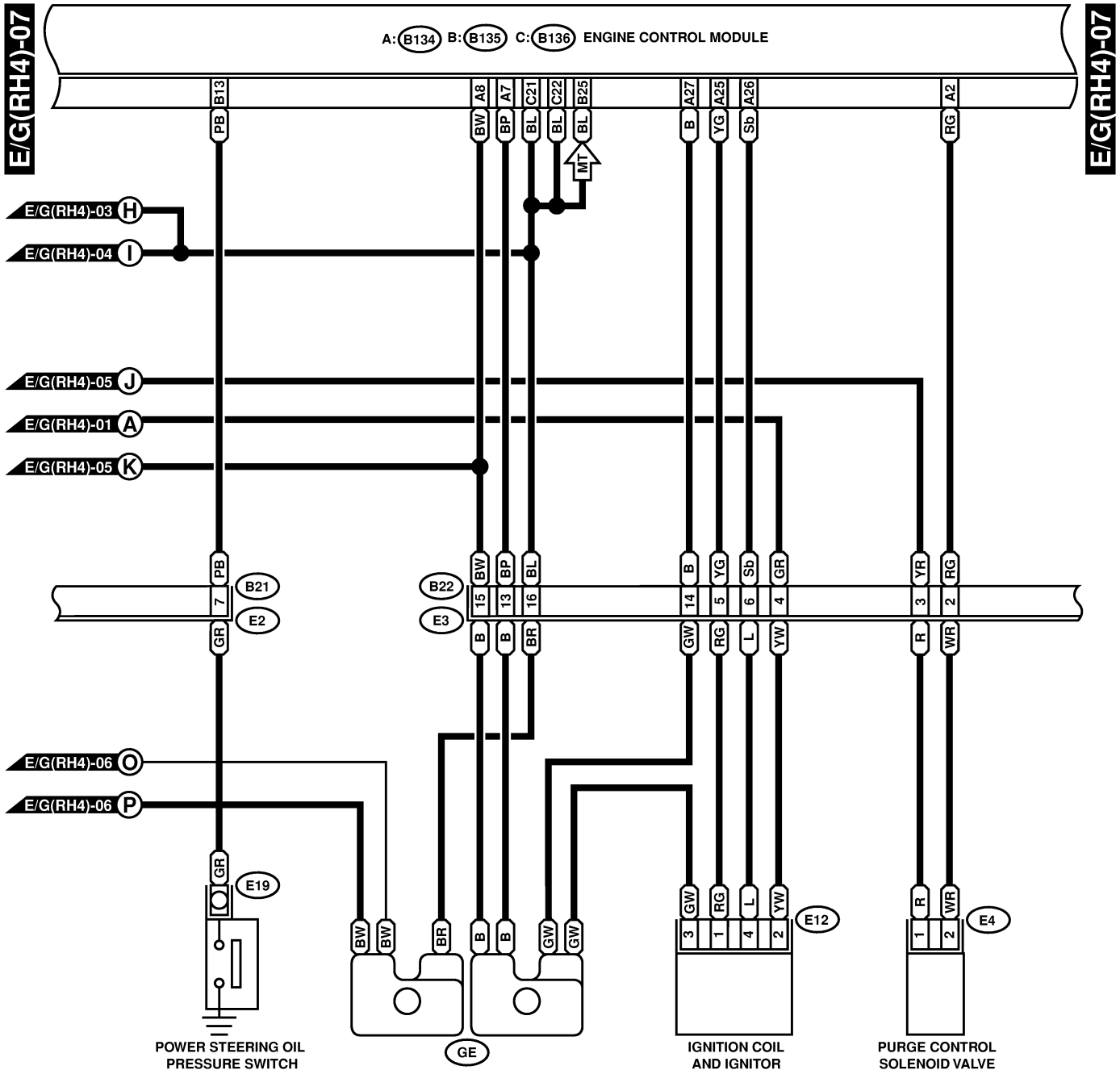
ENGINE ELECTRICAL SYSTEM

Wiring System



ENGINE ELECTRICAL SYSTEM

Wiring System



E4 (BLUE)



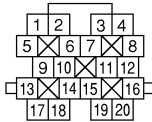
E12 (DARK GRAY)



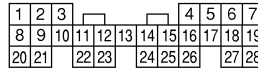
B22 (BROWN)



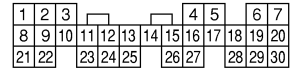
B21 (LIGHT GRAY)



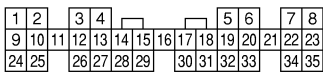
B: B135



C: B136

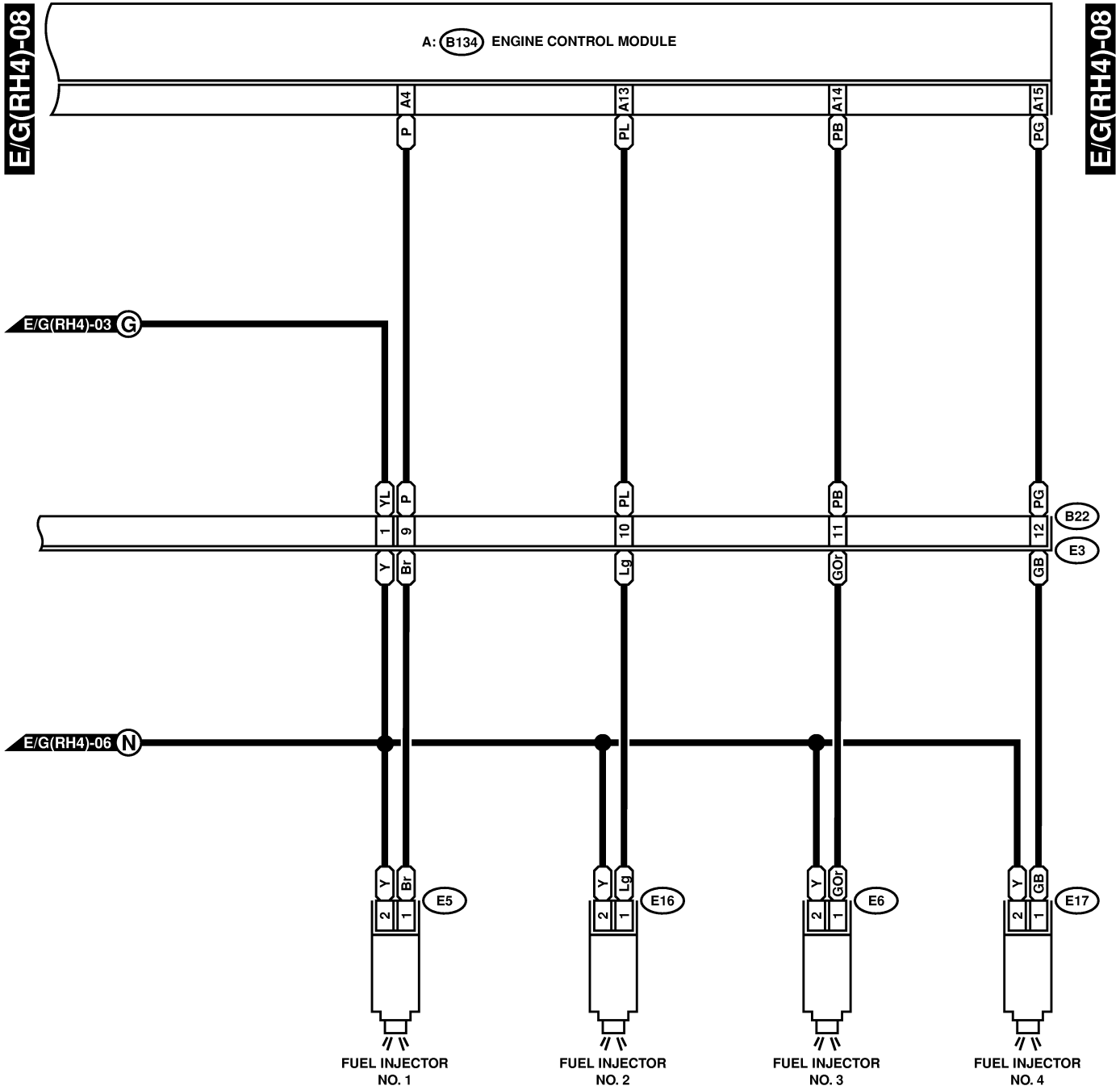


A: B134



ENGINE ELECTRICAL SYSTEM

Wiring System



(E5) (LIGHT GRAY)

(E6) (LIGHT GRAY)

(E16) (LIGHT GRAY)

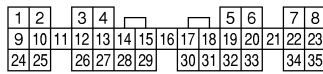
(E17) (LIGHT GRAY)



(B22) (BROWN)



A: (B134)



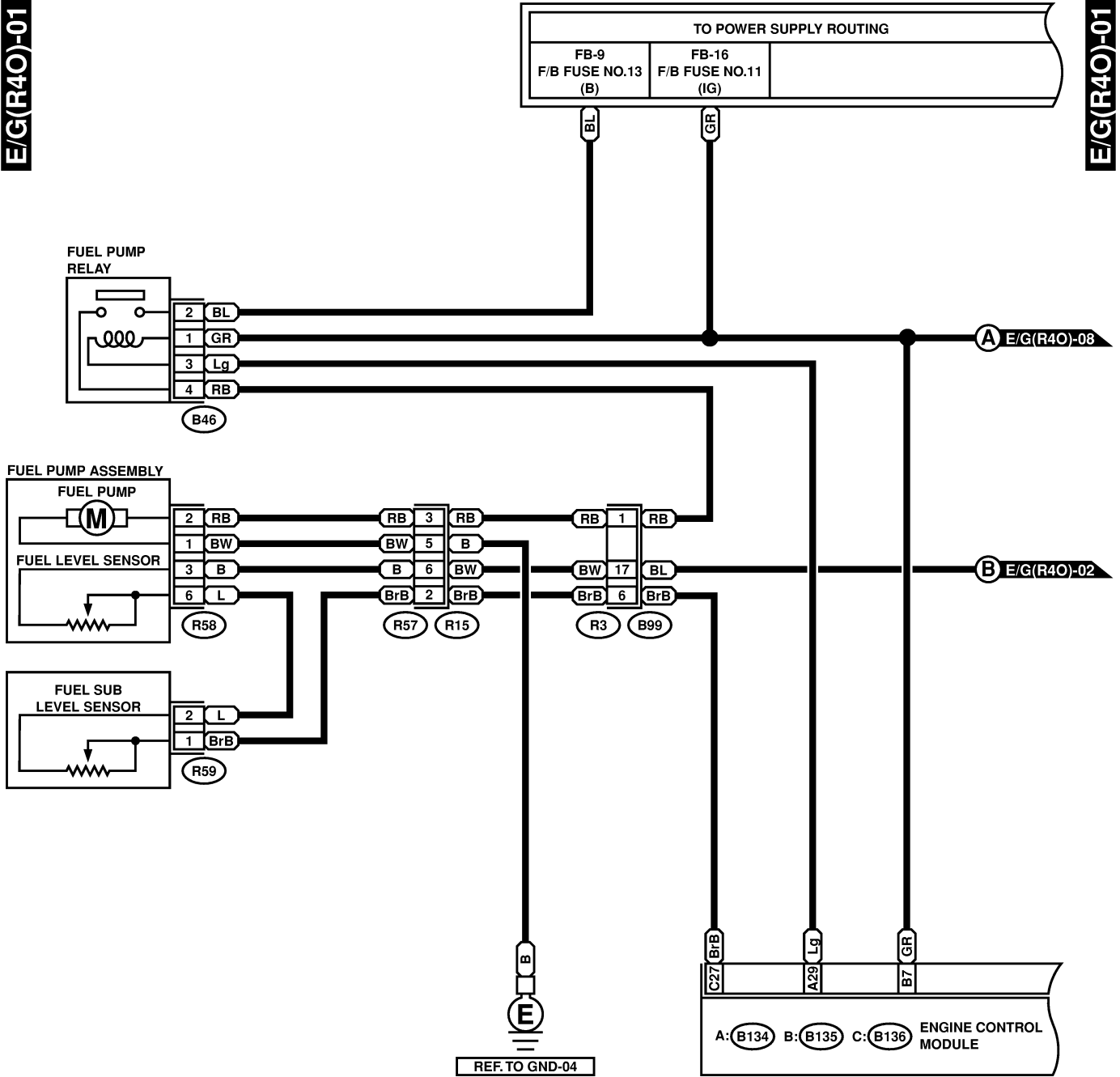
ENGINE ELECTRICAL SYSTEM

Wiring System

5. RHD-H4 WITH OBD MODEL S903482A2112

E/G(R40)-01

E/G(R40)-01



R59



B46 (GREEN)



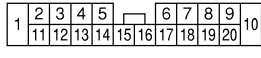
R57 (BLACK)



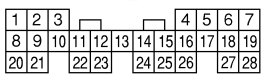
R58 (GRAY)



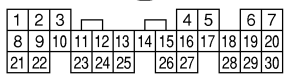
R3



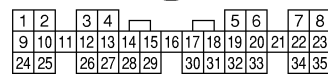
B: B135



C: B136

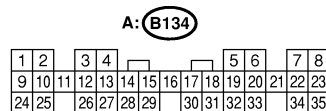
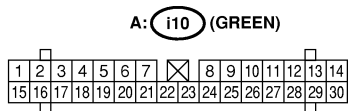
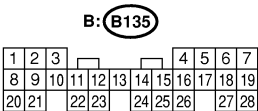
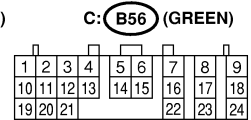
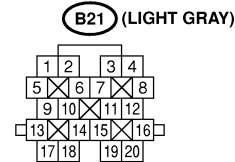
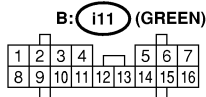
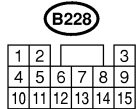
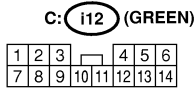
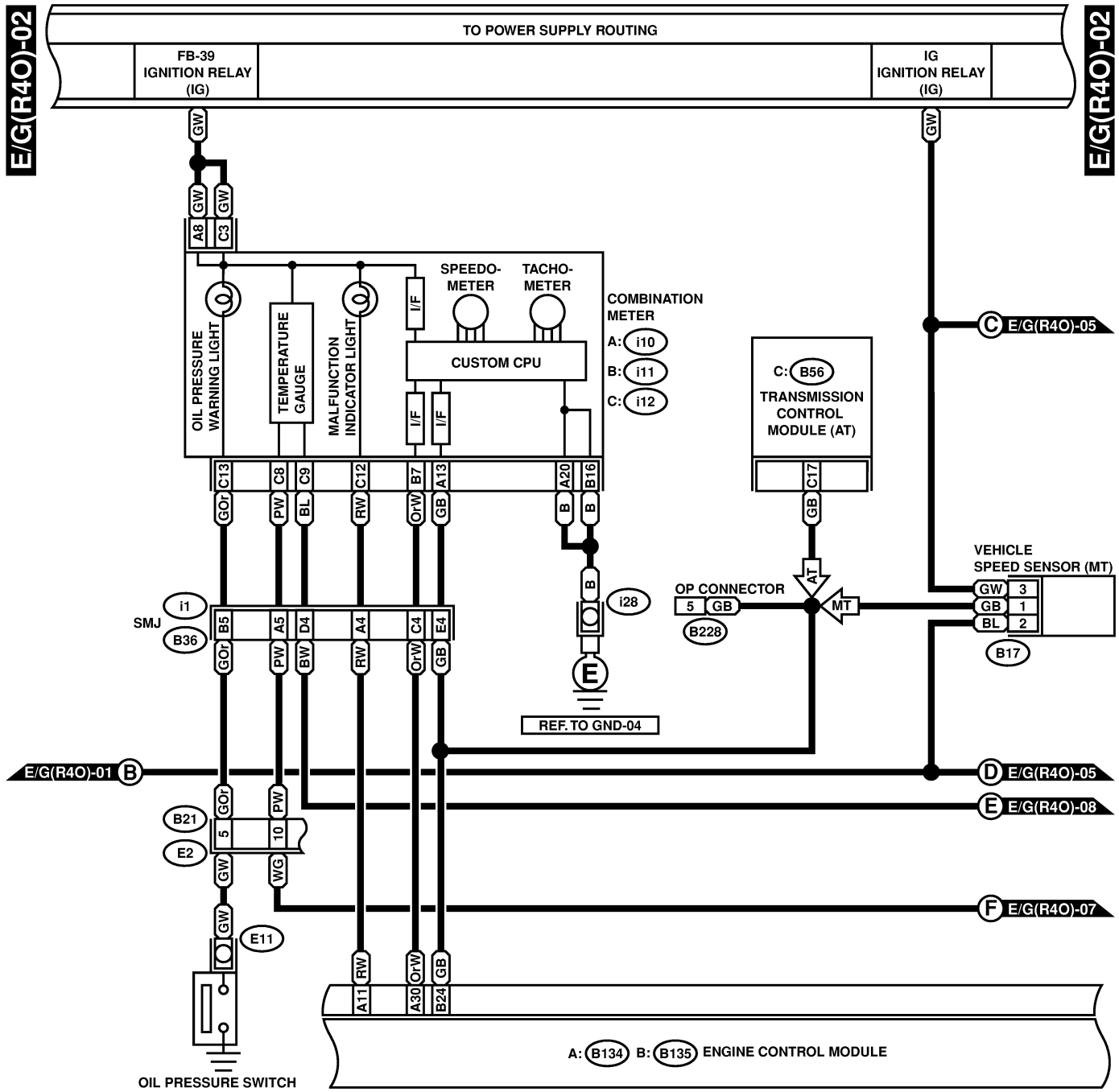


A: B134



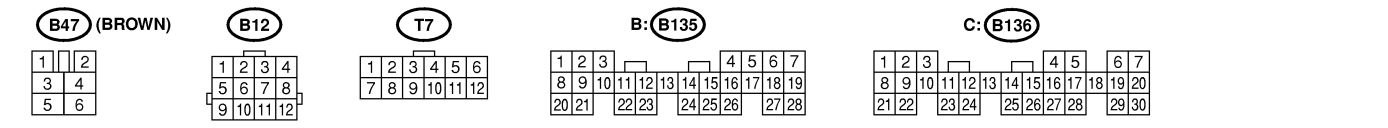
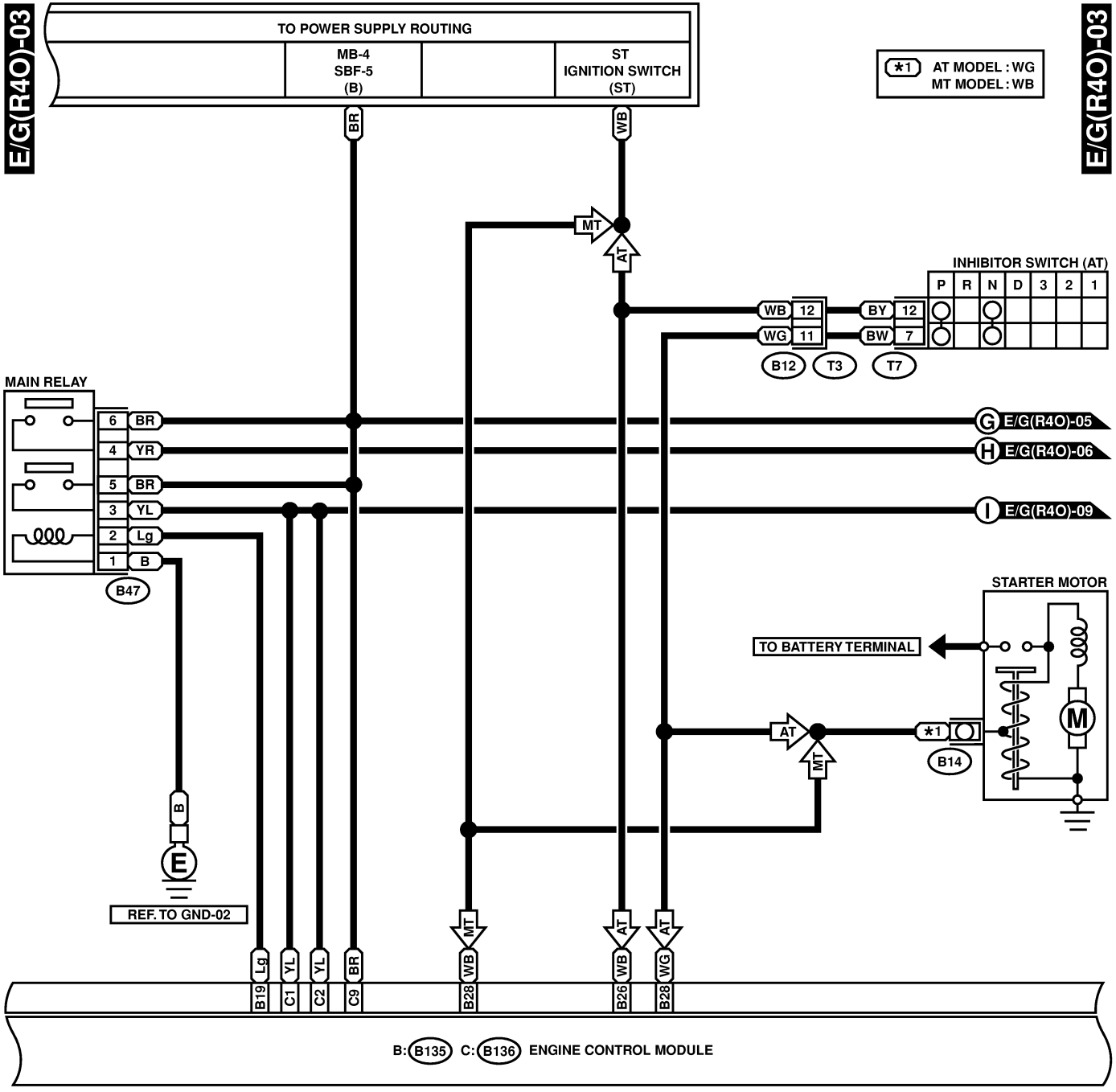
ENGINE ELECTRICAL SYSTEM

Wiring System



ENGINE ELECTRICAL SYSTEM

Wiring System

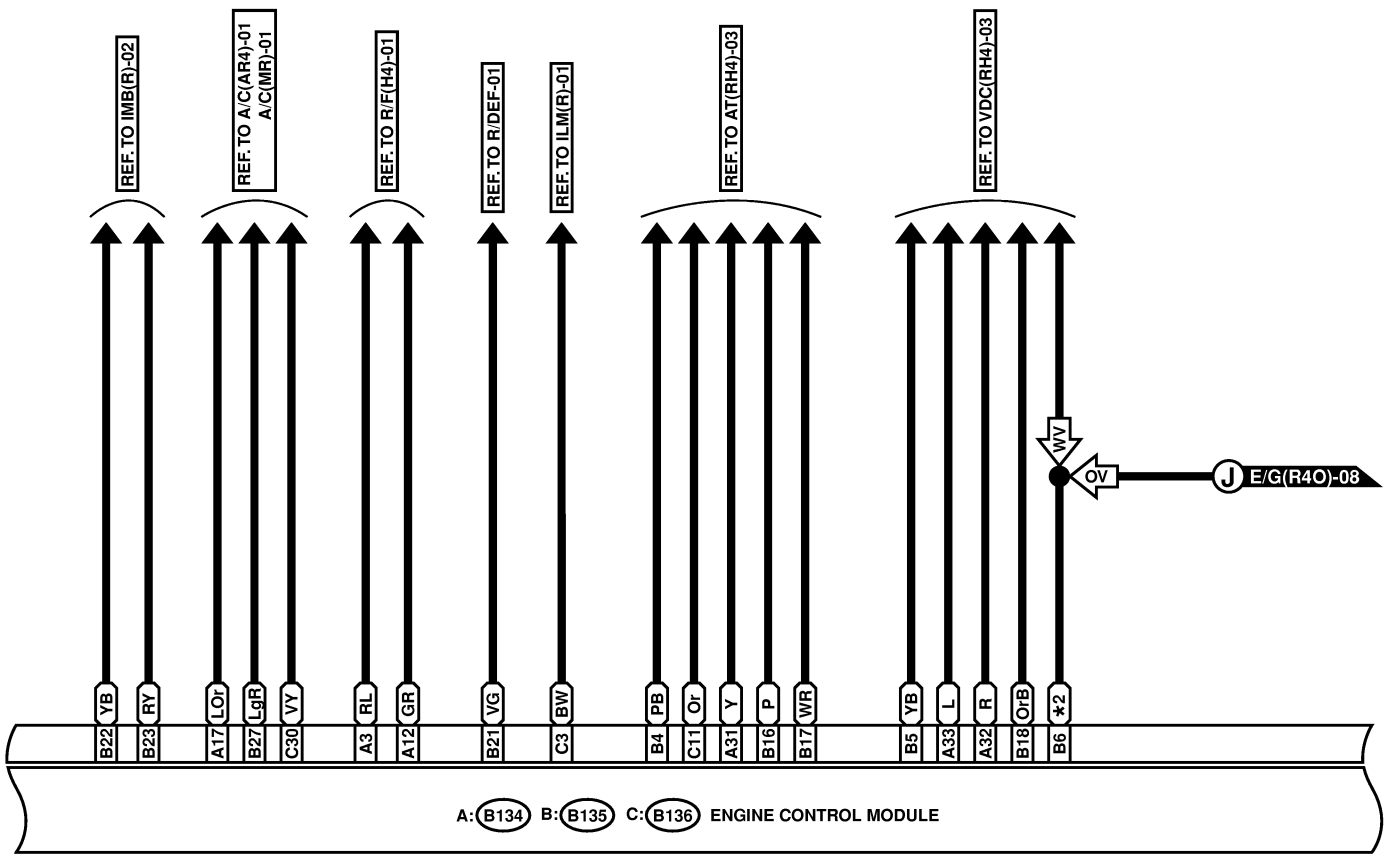
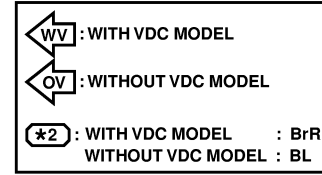


ENGINE ELECTRICAL SYSTEM

Wiring System

E/G(R40)-04

E/G(R40)-04



A: **B134** B: **B135** C: **B136** ENGINE CONTROL MODULE

B: **B135**

1	2	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			

C: **B136**

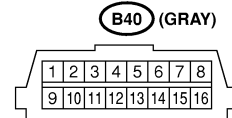
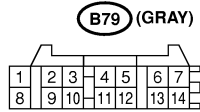
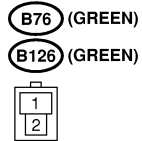
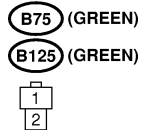
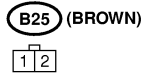
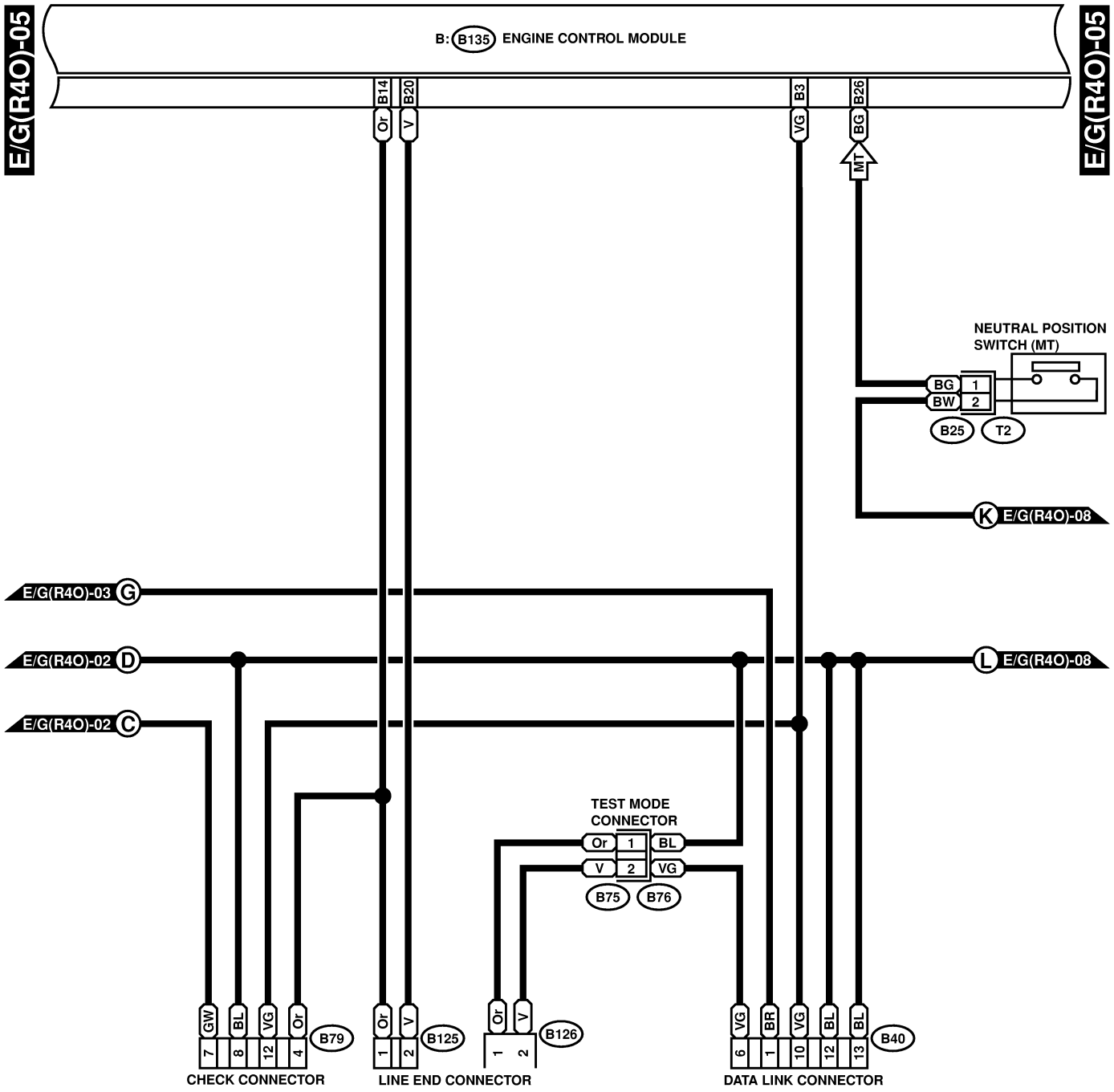
1	2	3		4	5	6	7					
8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30			

A: **B134**

1	2		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			

ENGINE ELECTRICAL SYSTEM

Wiring System

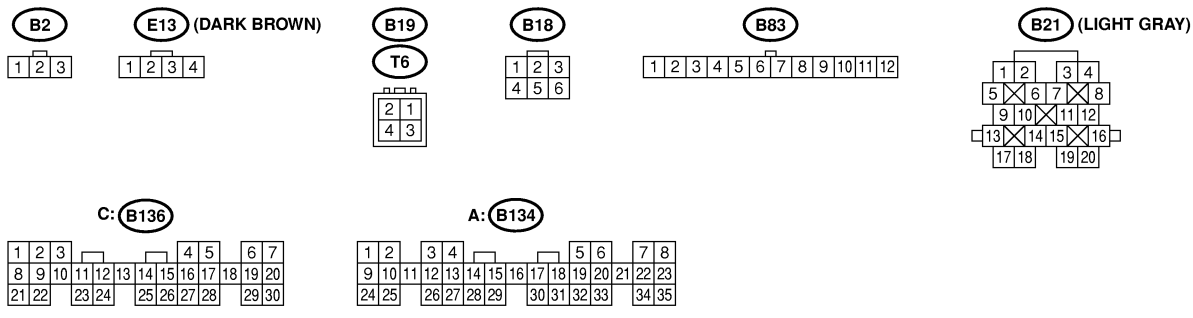
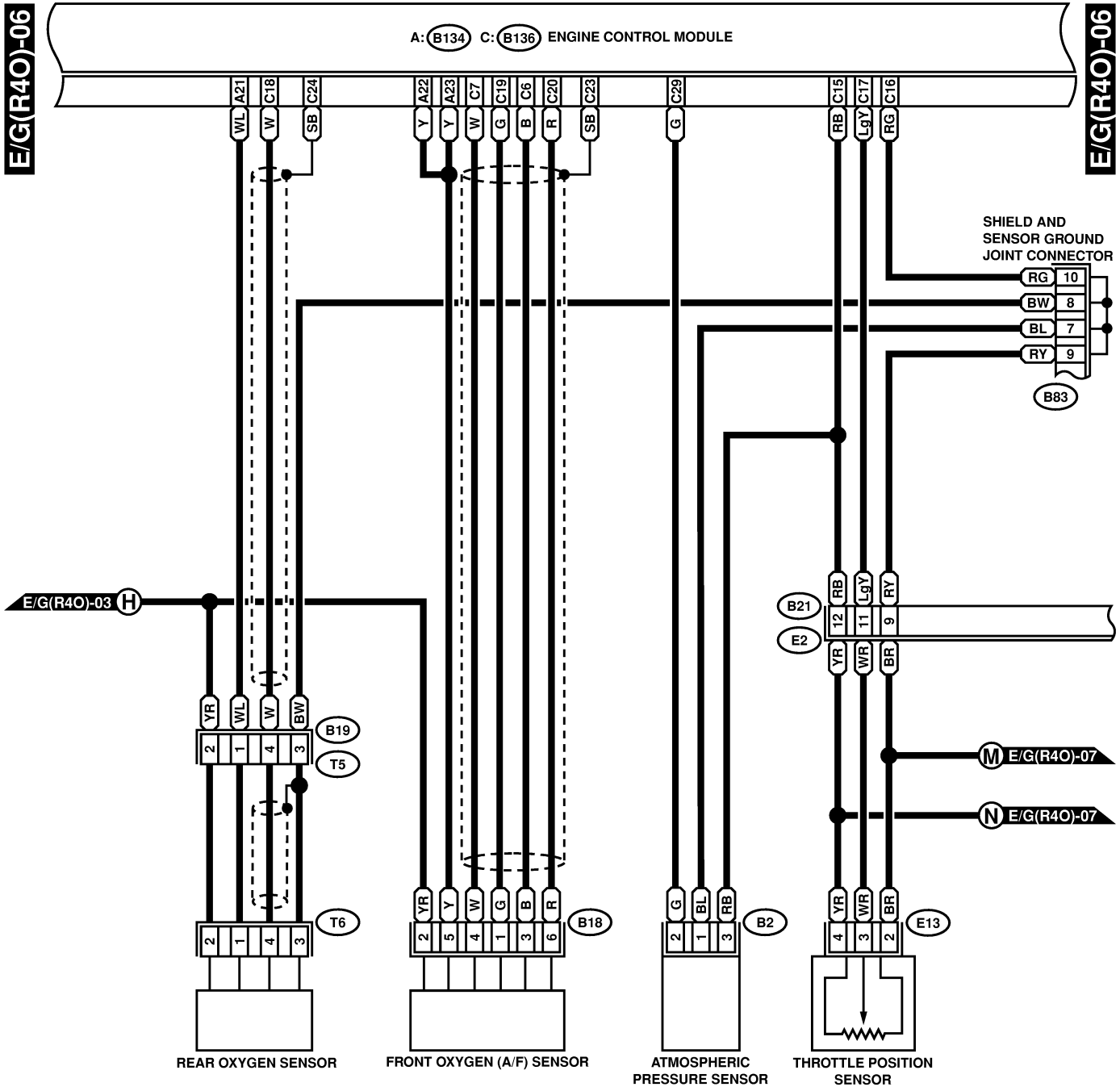


B: (B135)



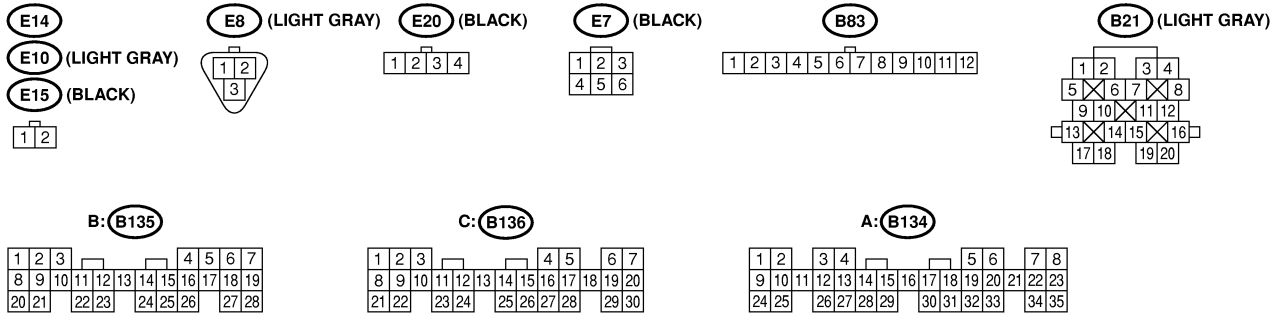
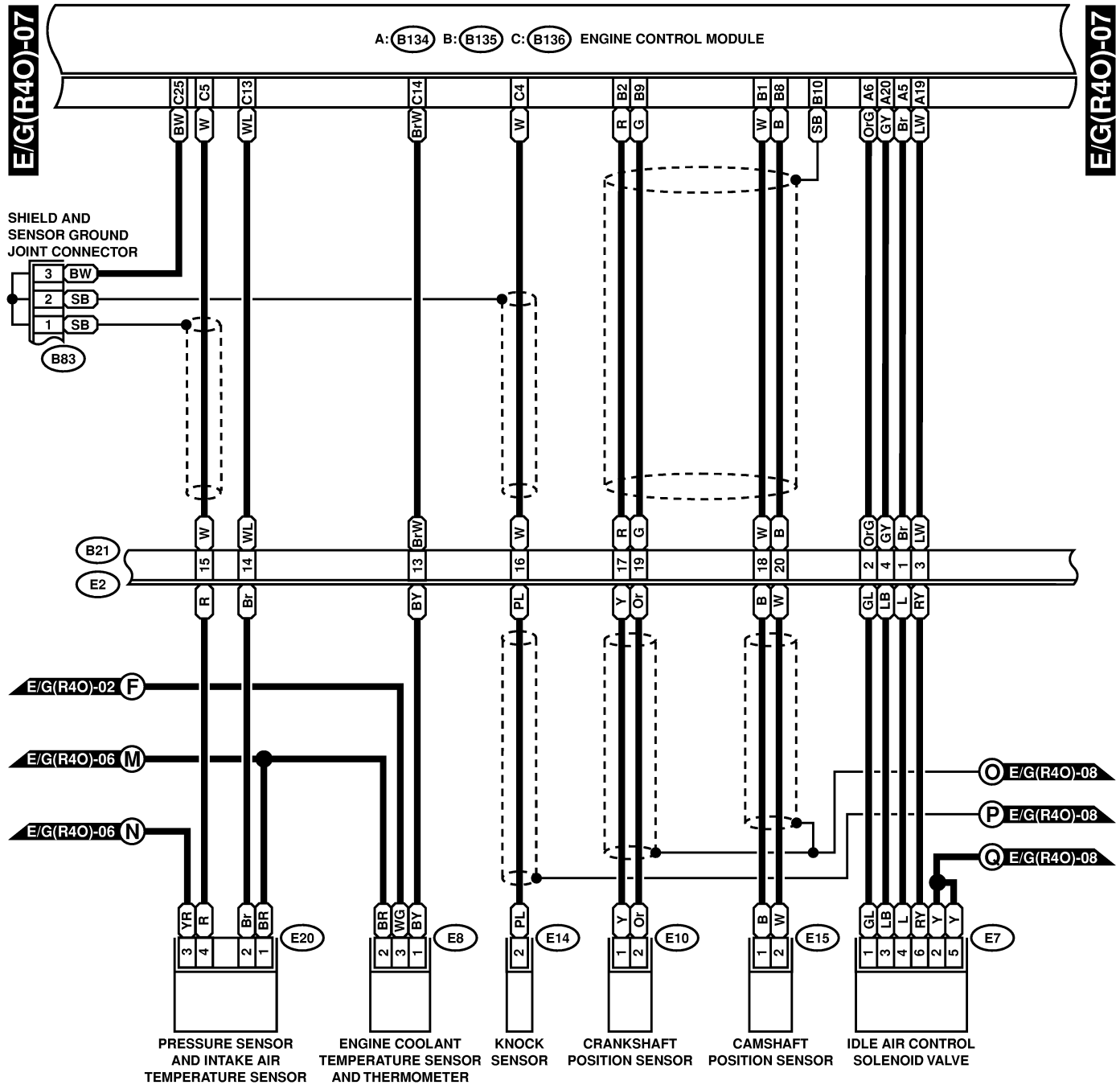
ENGINE ELECTRICAL SYSTEM

Wiring System



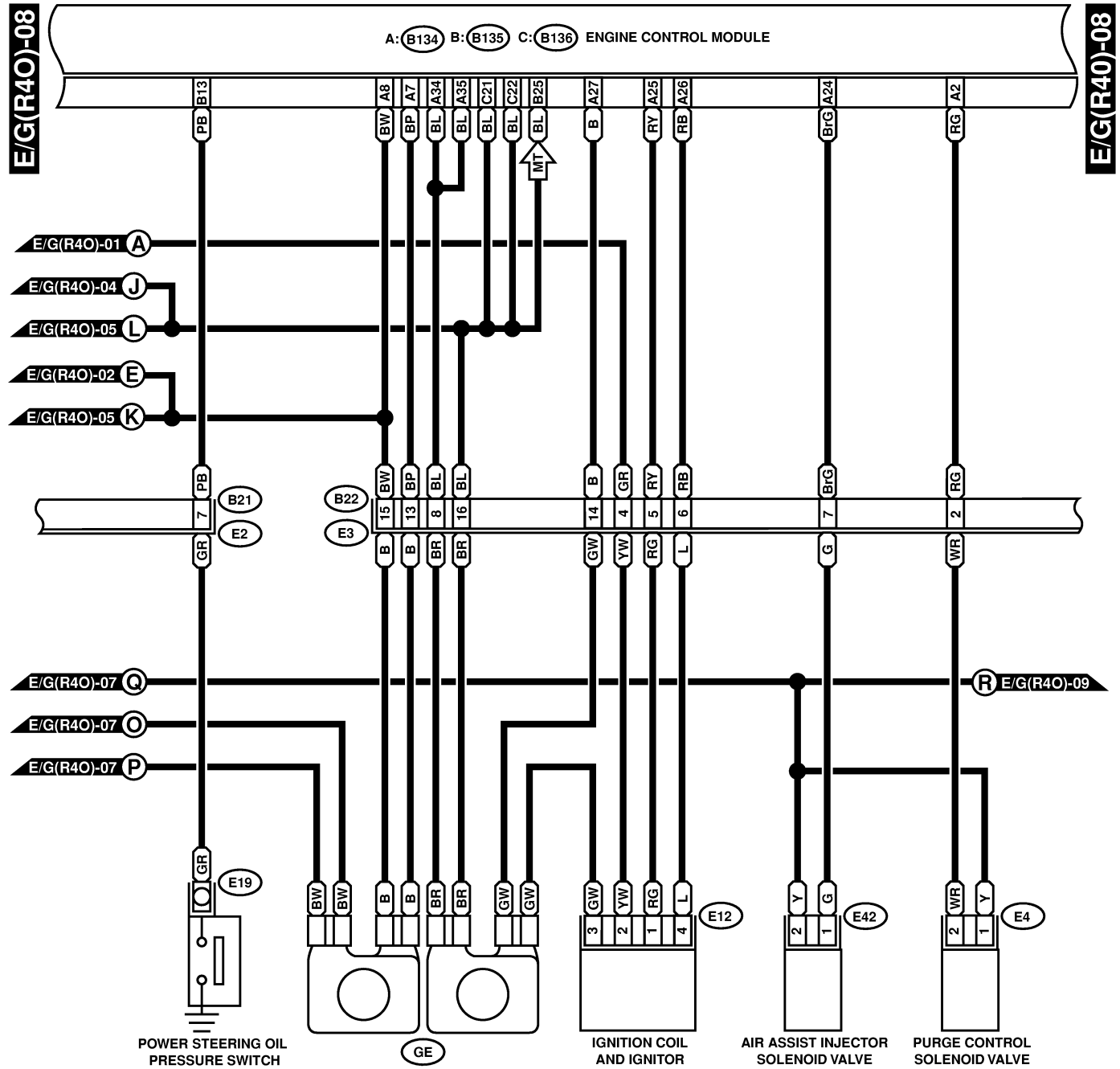
ENGINE ELECTRICAL SYSTEM

Wiring System



ENGINE ELECTRICAL SYSTEM

Wiring System



E4 (BLACK)

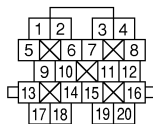
E12 (DARK GRAY)

B22 (BROWN)

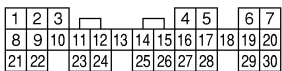
B21 (LIGHT GRAY)

B: B135

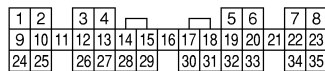
E42 (PURPLE)



C: B136

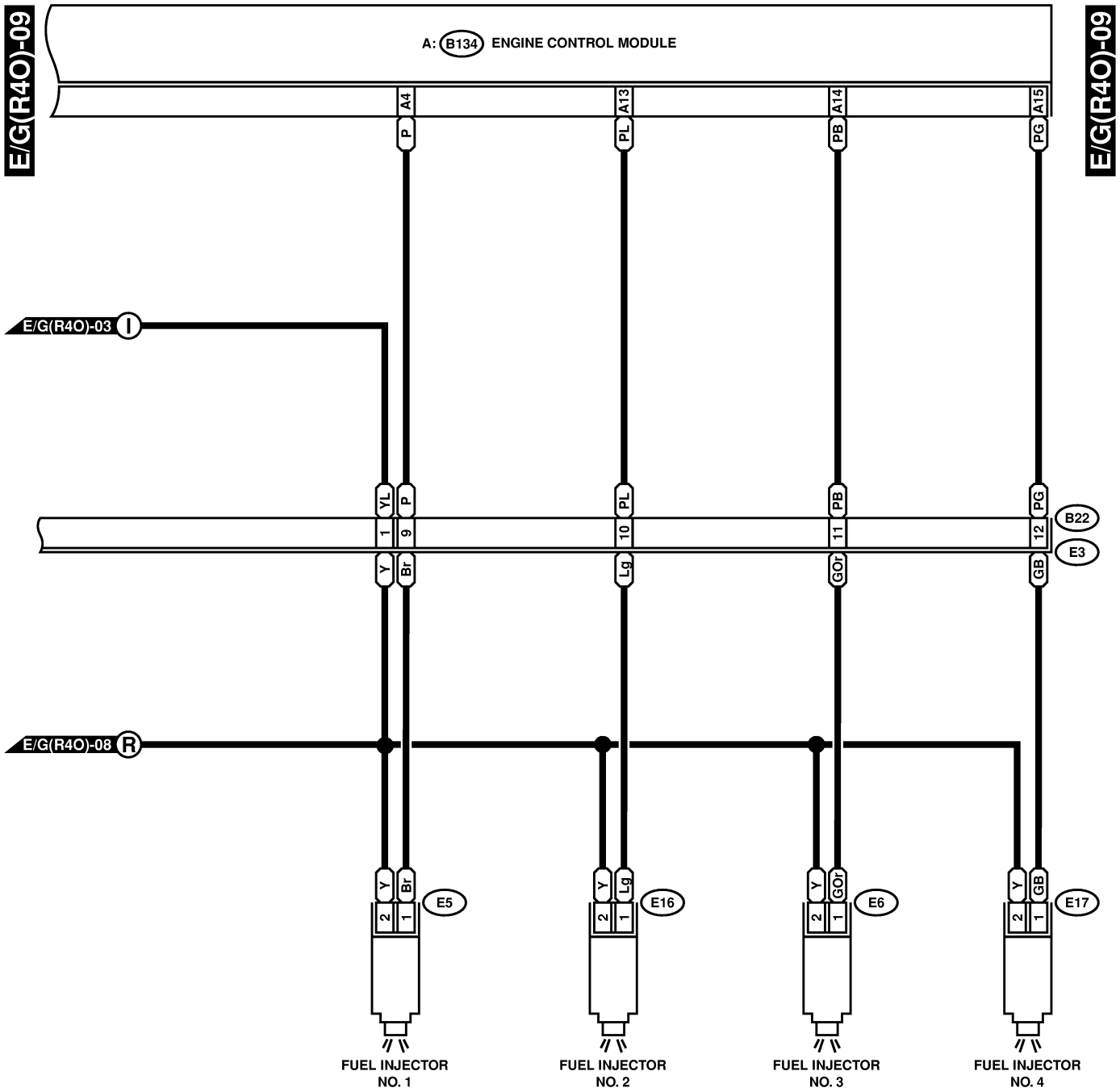


A: B134



ENGINE ELECTRICAL SYSTEM

Wiring System



E5 (LIGHT GRAY)

E6 (LIGHT GRAY)

E16 (LIGHT GRAY)

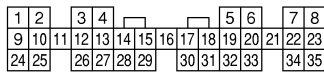
E17 (LIGHT GRAY)



B22 (BROWN)



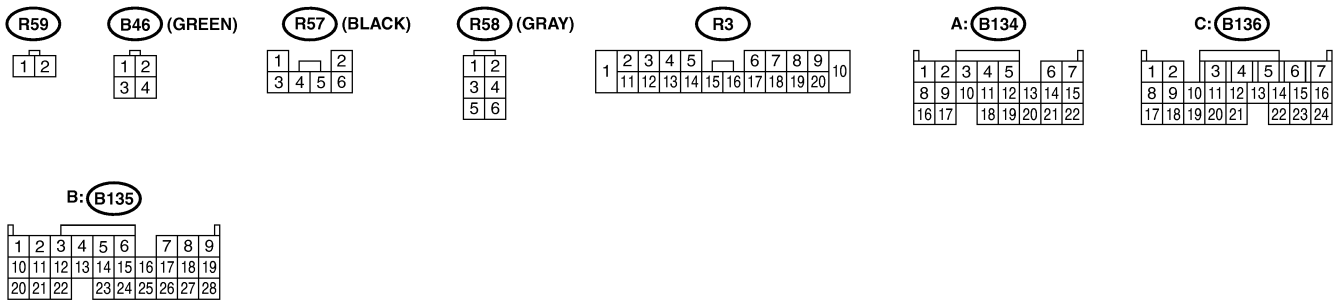
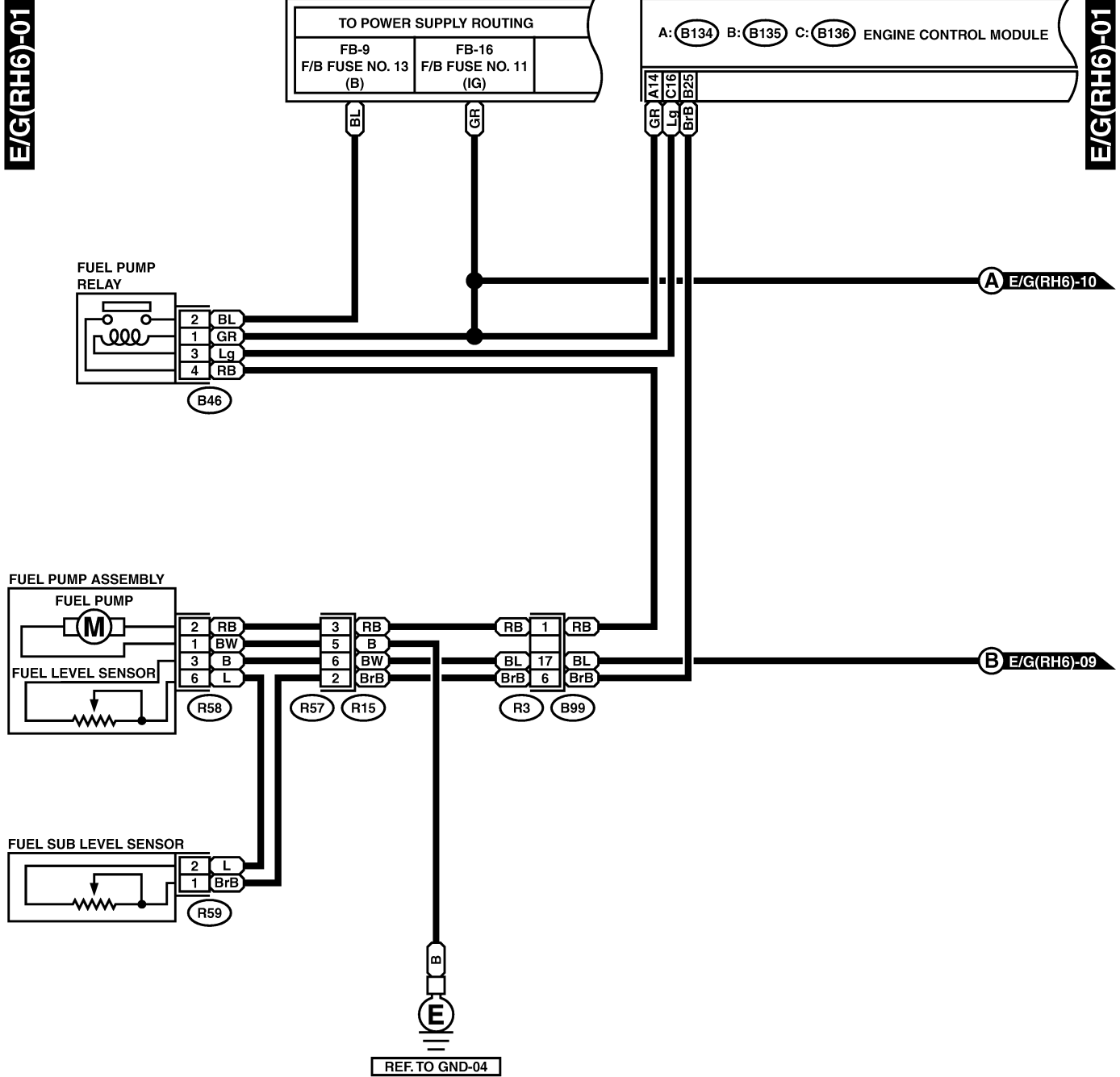
A: (B134)



ENGINE ELECTRICAL SYSTEM

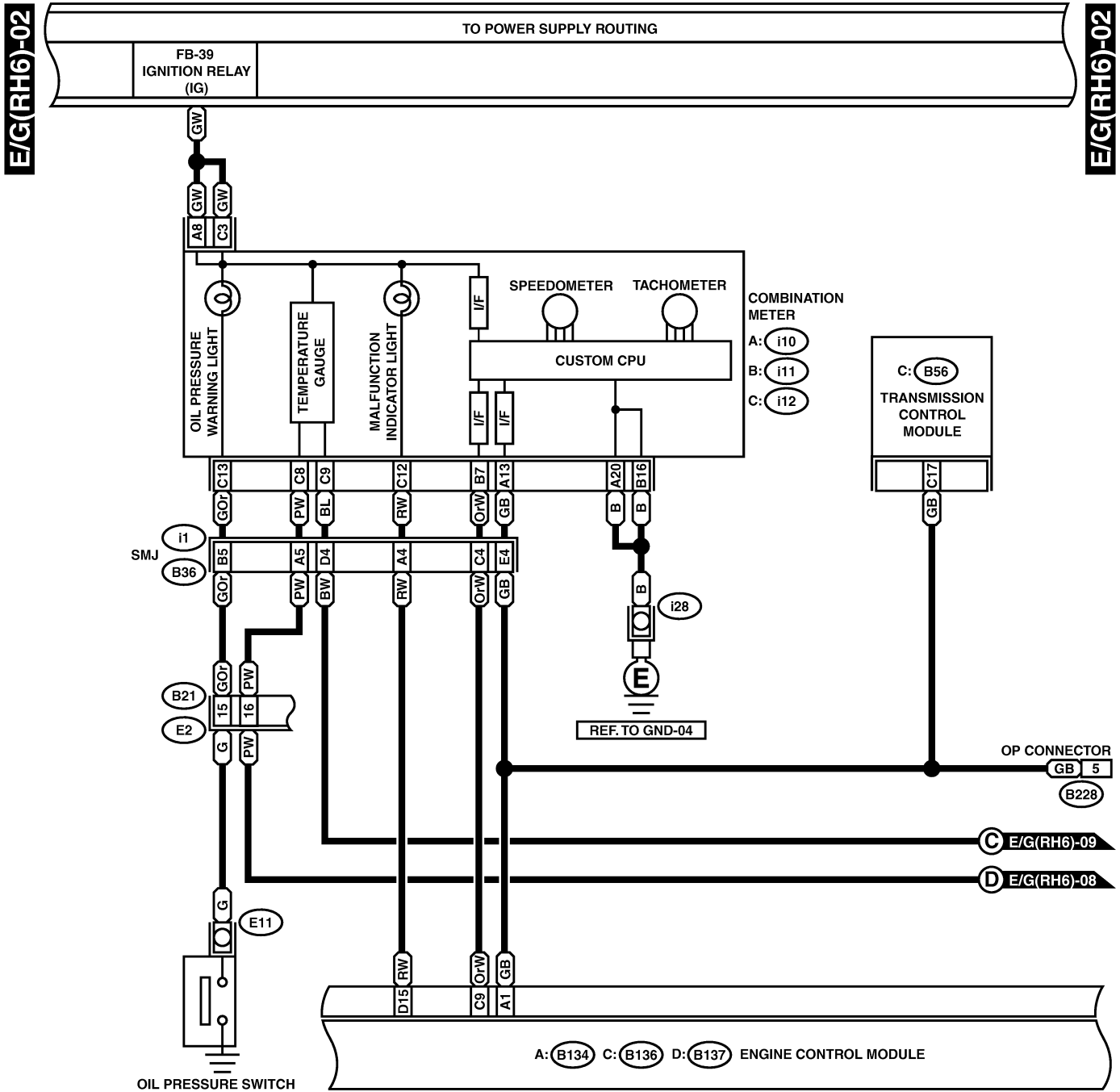
Wiring System

6. RHD-H6 MODEL S903482A2113



ENGINE ELECTRICAL SYSTEM

Wiring System



C: i12 (GREEN)

1	2	3	4	5	6
7	8	9	10	11	12
13	14				

B228

1	2	3
4	5	6
7	8	9
10	11	12
13	14	15

B: i11 (GREEN)

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16					

B21 (LIGHT GRAY)

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20

C: B56 (GREEN)

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21				22	23	24

A: B134

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24				

C: B136

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24				

A: i10 (GREEN)

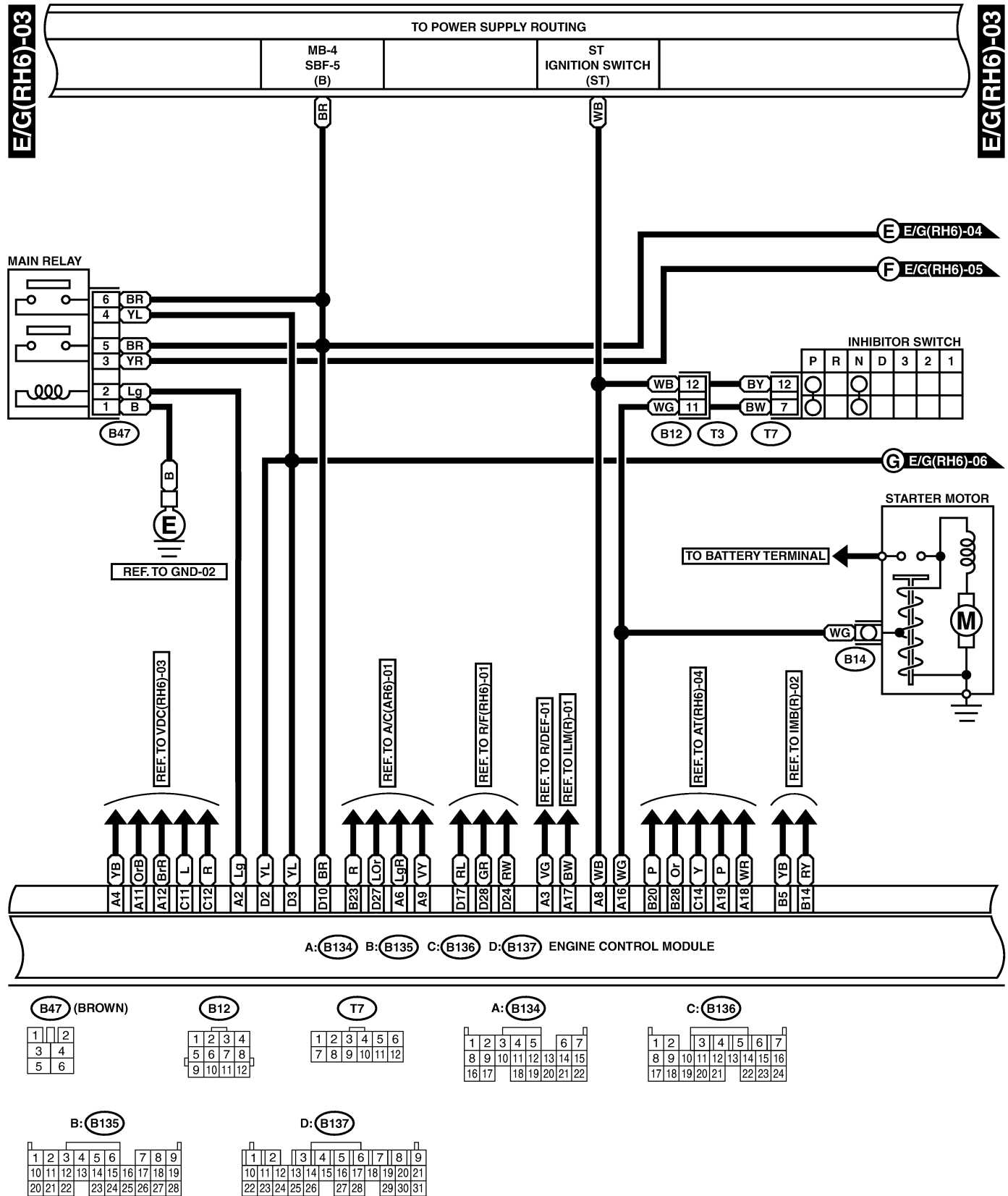
1	2	3	4	5	6	7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30												

D: B137

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21				27	28	29
30	31							

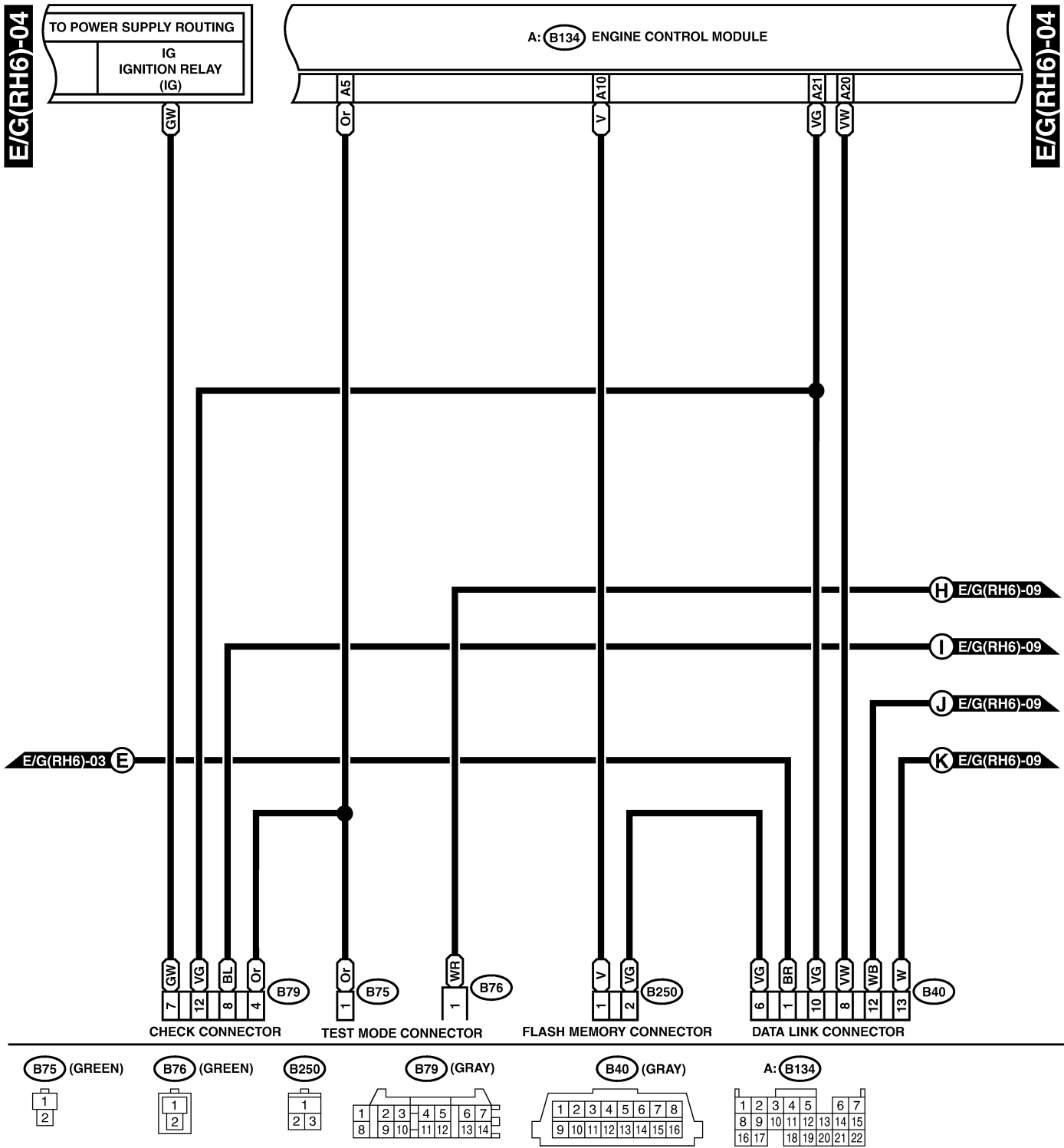
ENGINE ELECTRICAL SYSTEM

Wiring System



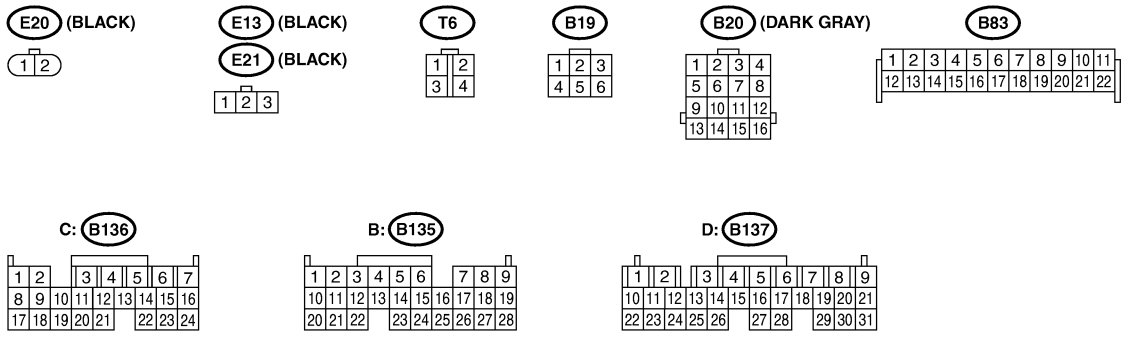
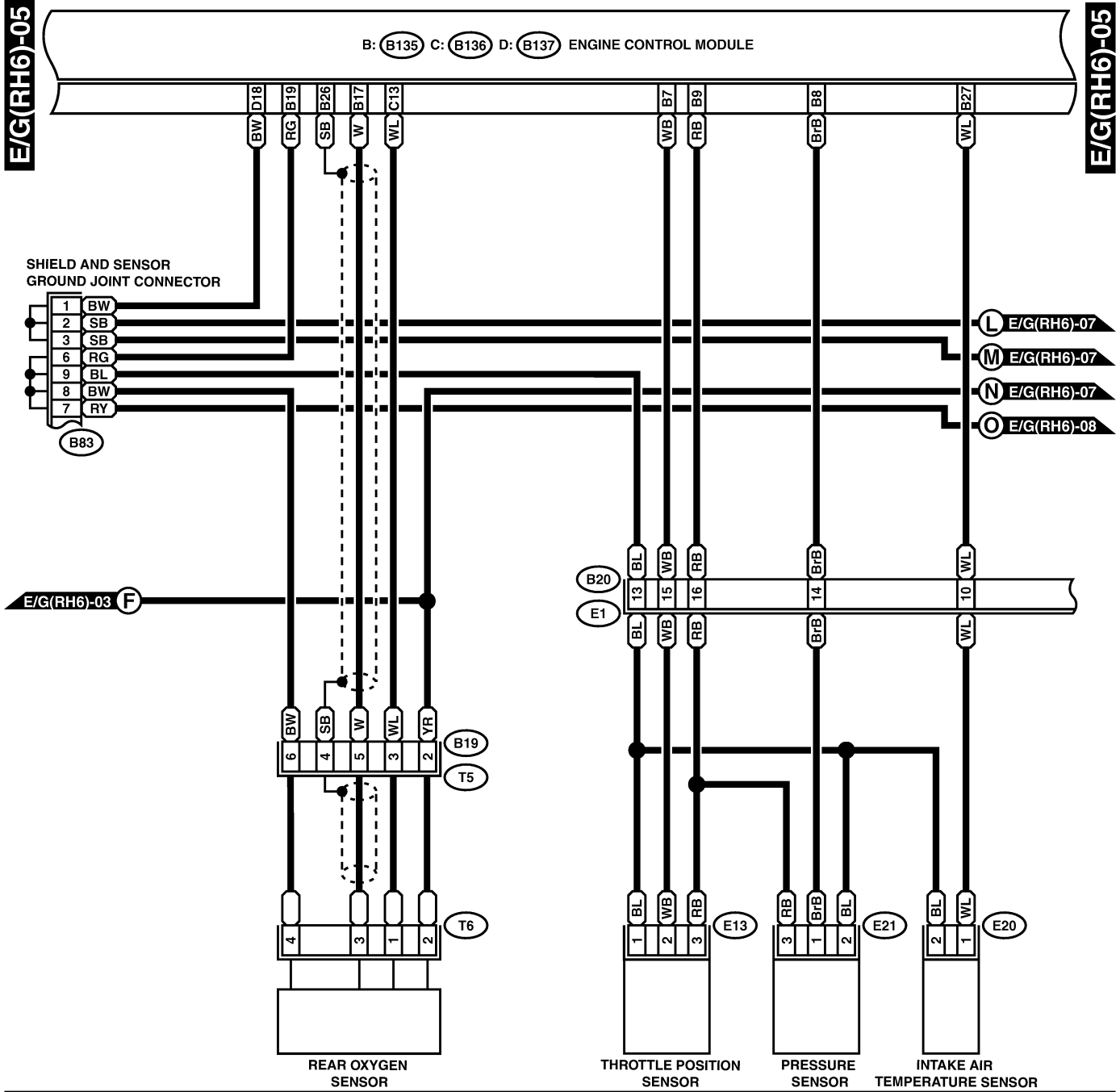
ENGINE ELECTRICAL SYSTEM

Wiring System



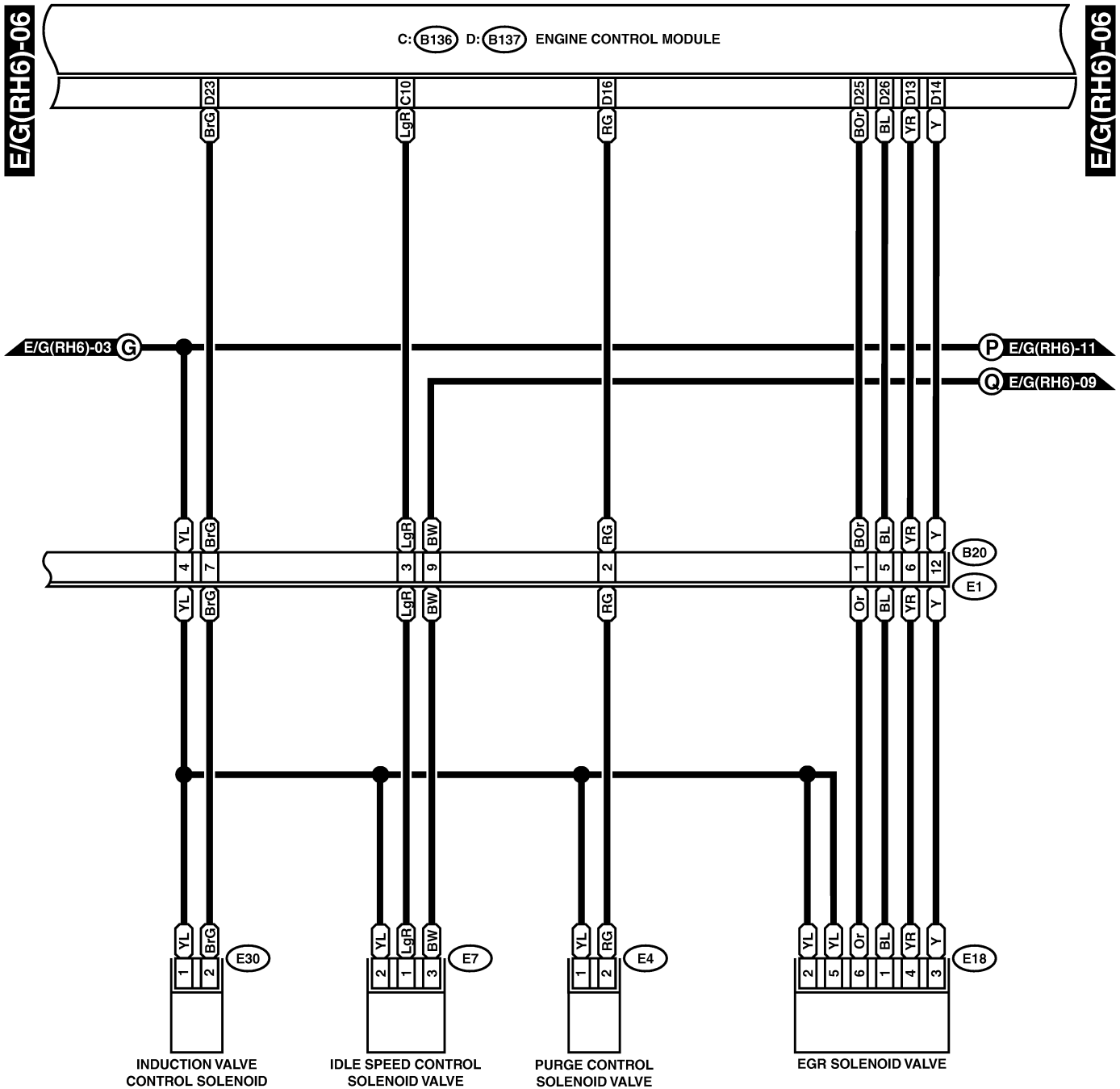
ENGINE ELECTRICAL SYSTEM

Wiring System

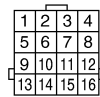


ENGINE ELECTRICAL SYSTEM

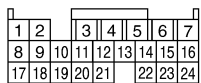
Wiring System



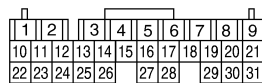
E30 (BROWN) E4 (BLACK) E7 (GRAY) E18 (GRAY) B20 (DARK GRAY)



C: B136

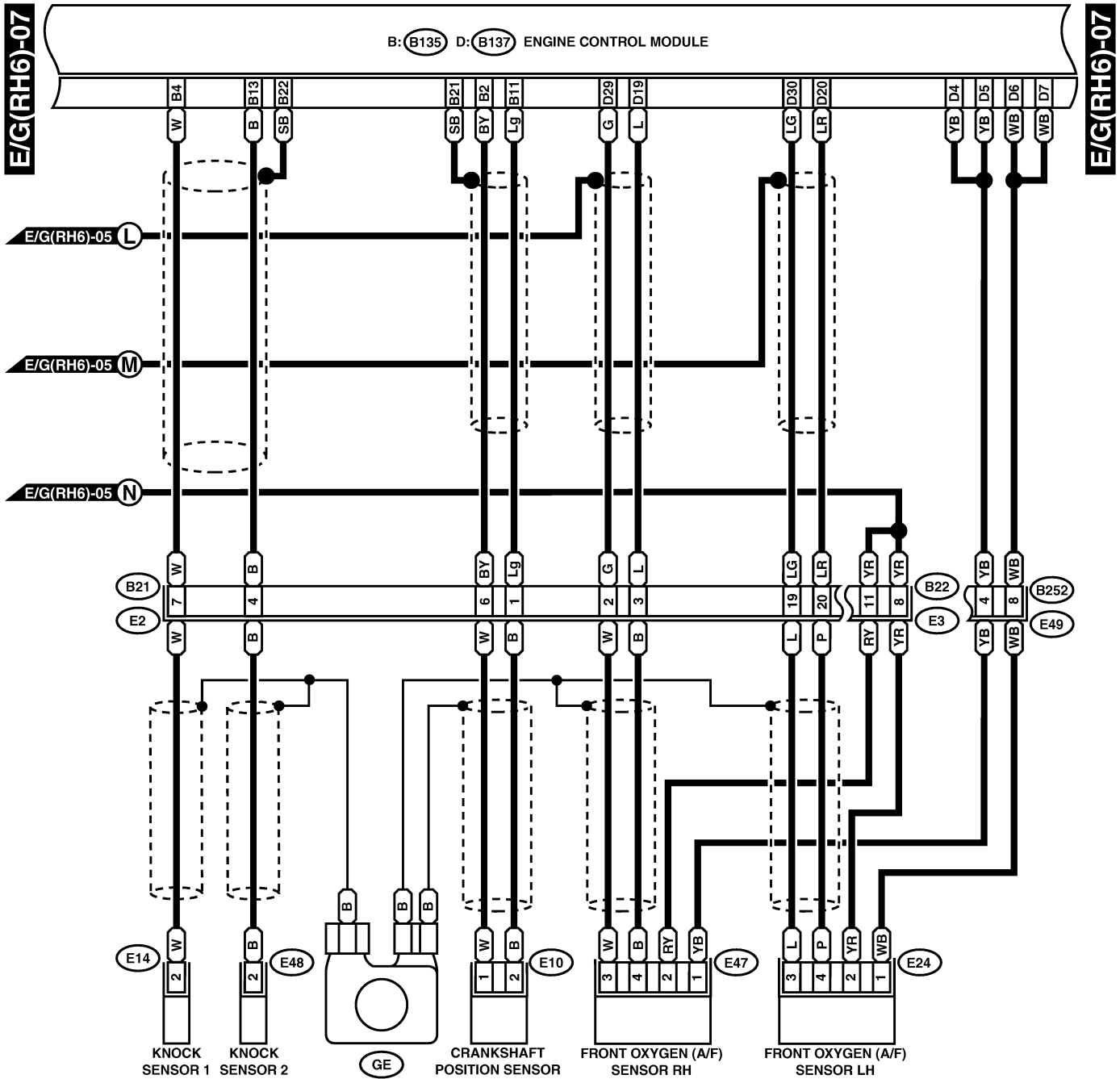


D: B137



ENGINE ELECTRICAL SYSTEM

Wiring System



E14 (BLUE)

E48 (BLUE)



E10 (GRAY)

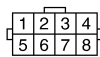


E24 (DARK GRAY)

E47 (DARK GRAY)



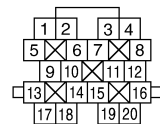
B252 (DARK GRAY)



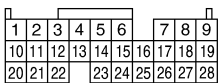
B22 (BROWN)



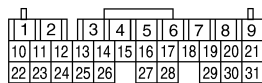
B21 (LIGHT GRAY)



B: B135

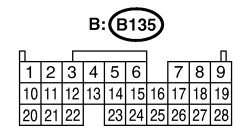
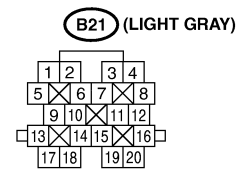
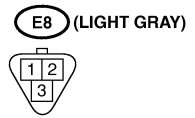
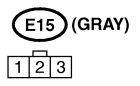
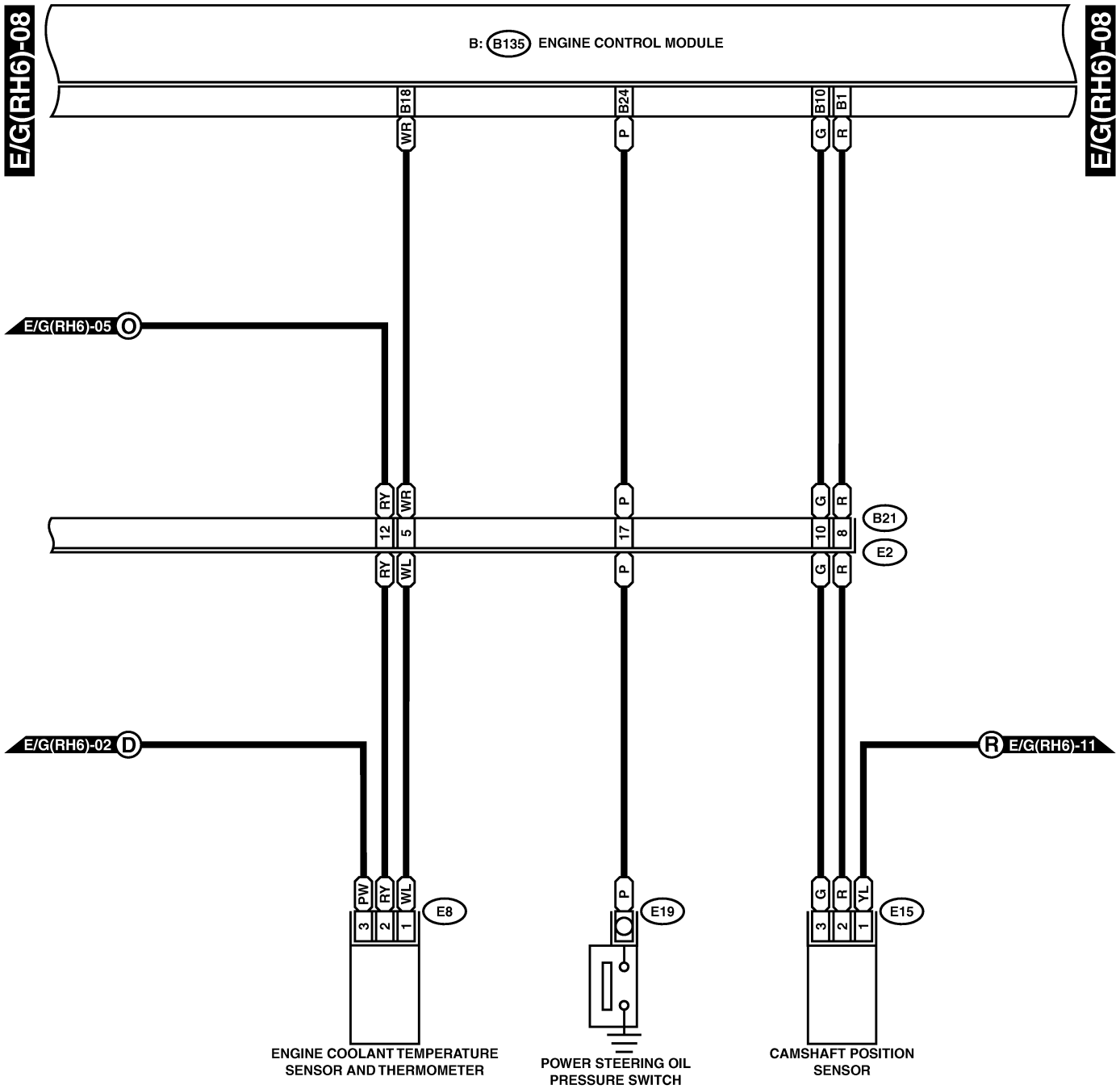


D: B137



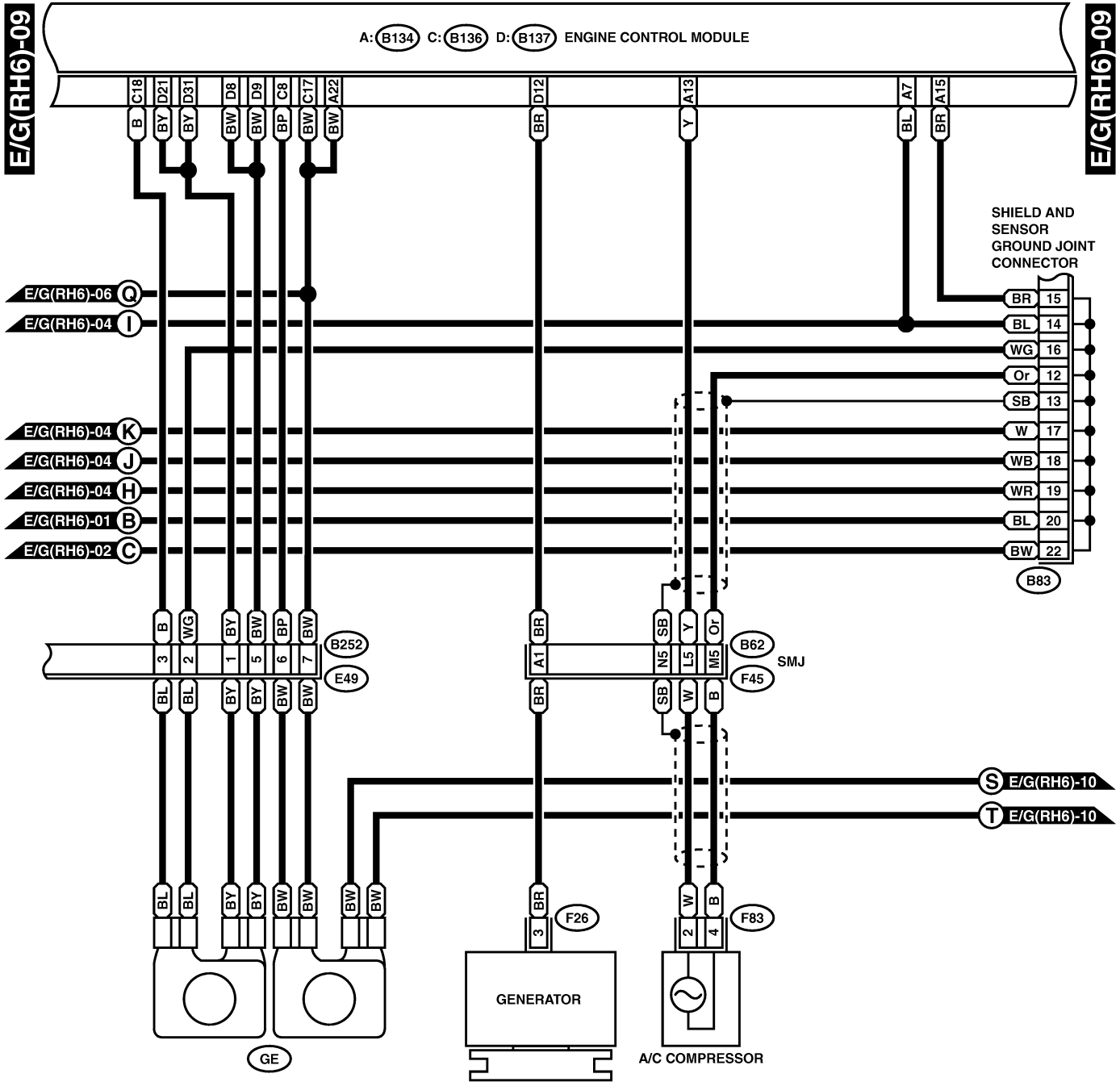
ENGINE ELECTRICAL SYSTEM

Wiring System



ENGINE ELECTRICAL SYSTEM

Wiring System



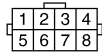
F26 (GREEN)



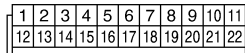
F83 (GRAY)



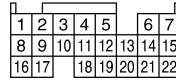
B252 (DARK GRAY)



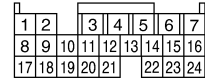
B83



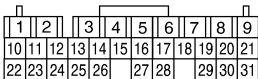
A: B134



C: B136

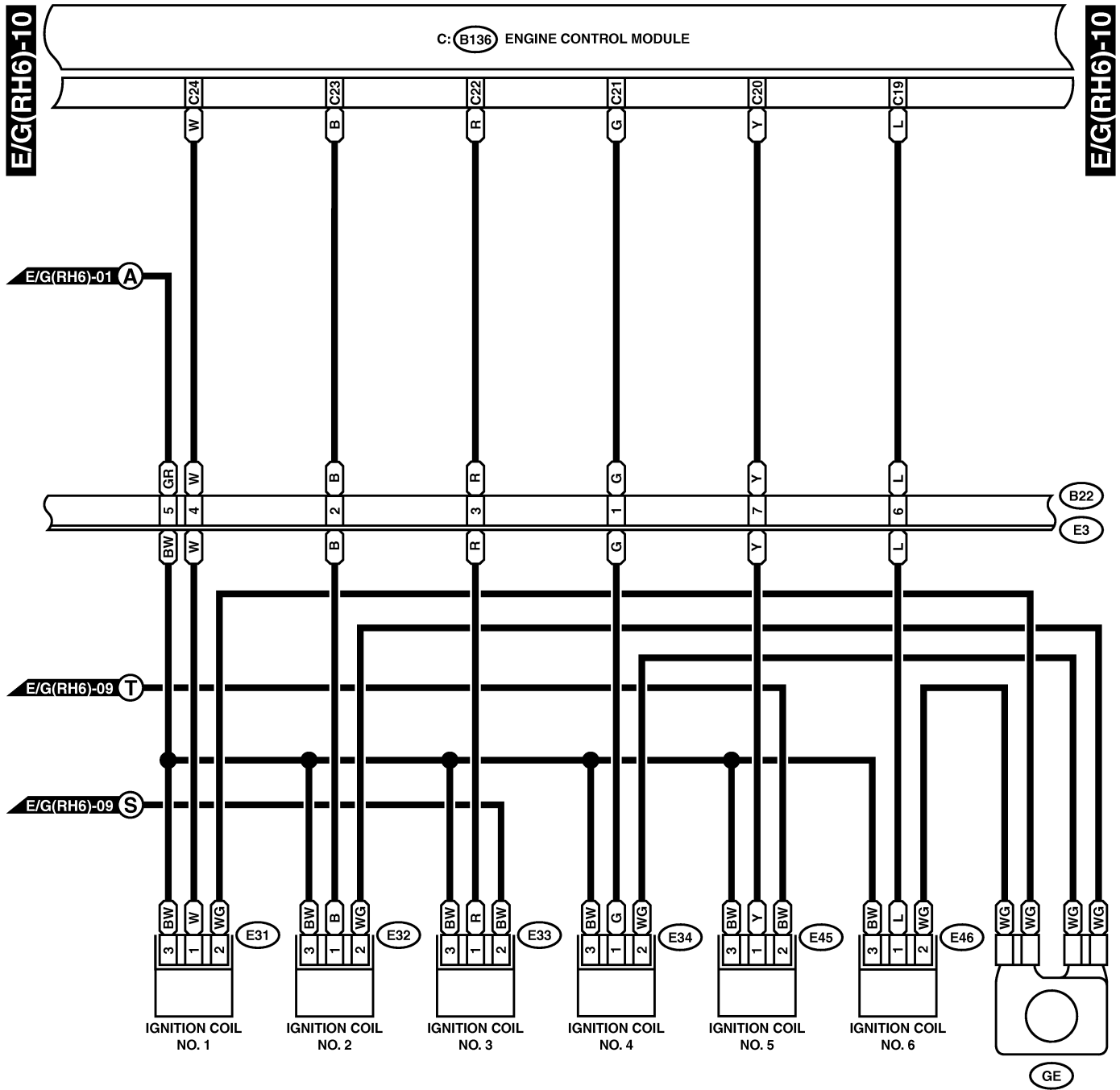


D: B137

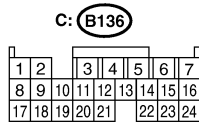
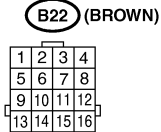


ENGINE ELECTRICAL SYSTEM

Wiring System

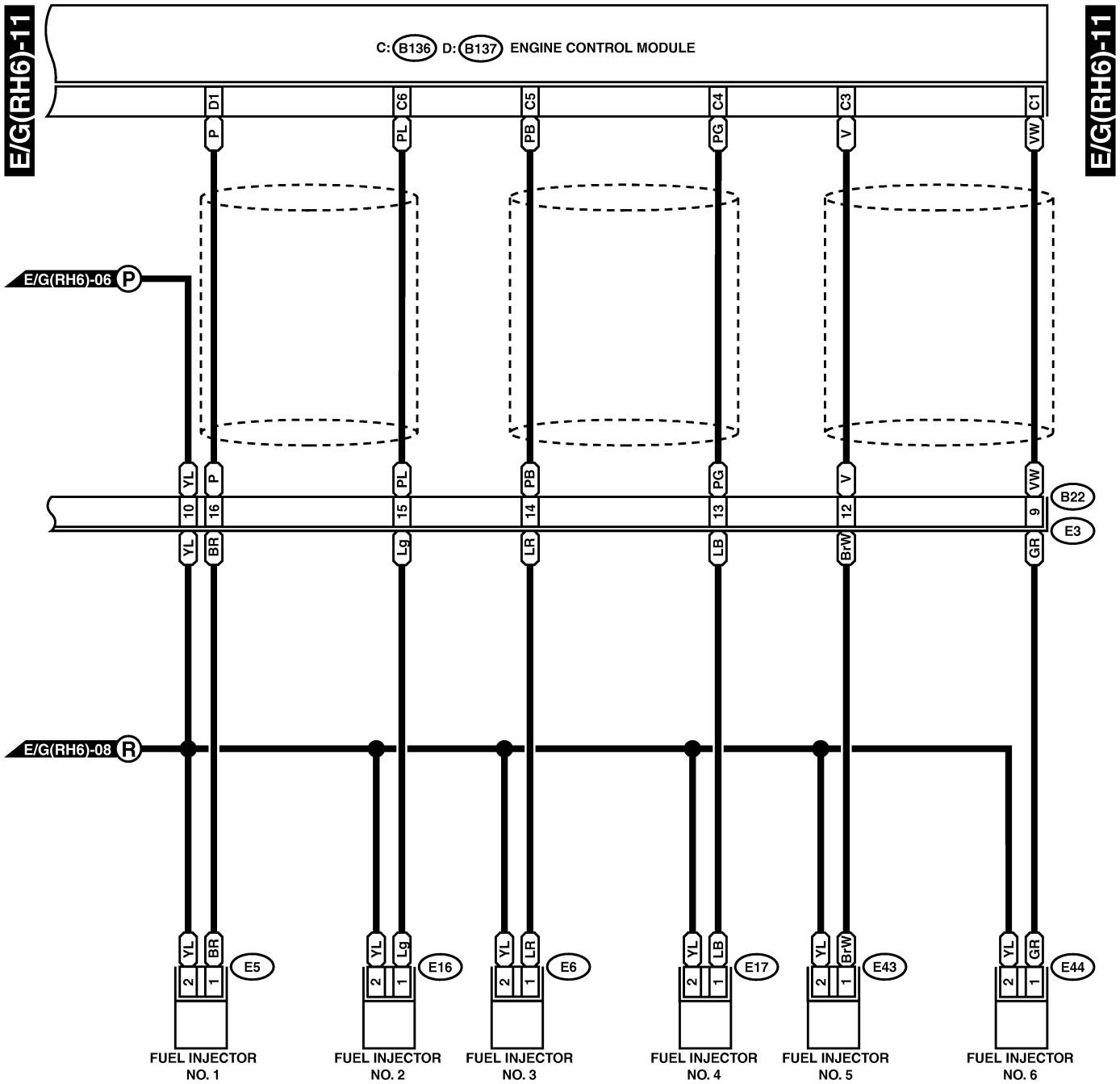


(BLACK) **E31** **E32**
 (BLACK) **E33** **E34** (BLACK)
E45 **E46** (BLACK)



ENGINE ELECTRICAL SYSTEM

Wiring System



(GRAY) (E5) (E6) (GRAY)

(GRAY) (E16) (E17) (GRAY)

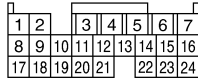
(GRAY) (E43) (E44) (GRAY)



(B22) (BROWN)



C: (B136)



D: (B137)

