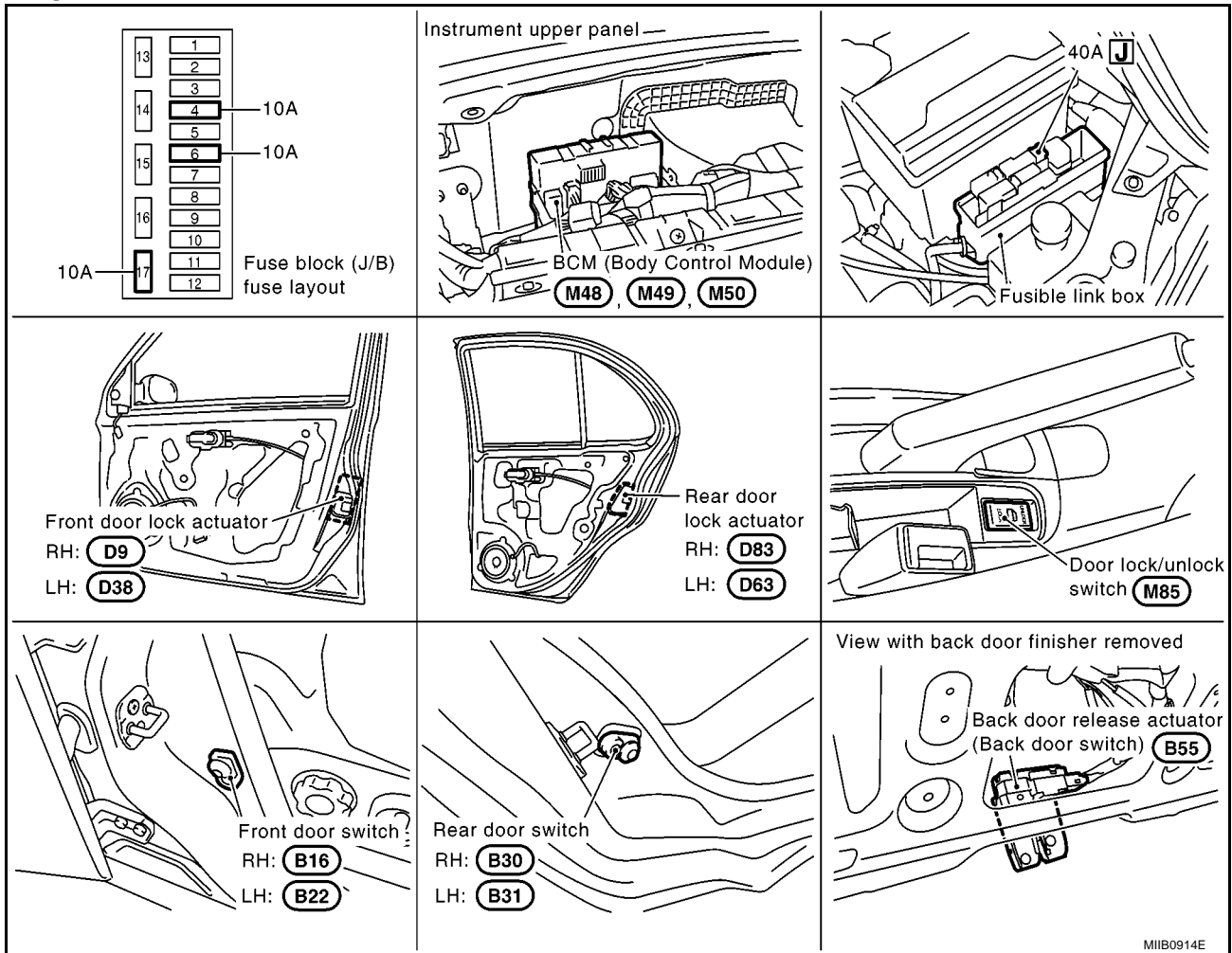


POWER DOOR LOCK SYSTEM

POWER DOOR LOCK SYSTEM

Component Parts and Harness Connector Location

To ESM



POWER DOOR LOCK SYSTEM

System Description

To ESM

OPERATION

Power is supplied at all times

- to BCM terminals 74 and 79
- through 40A fusible link (letter J, located in the fusible link box).
- to key switch terminal 1 (Without Intelligent Key system)
- through 10A fuse [No. 6, located in the fuse block (J/B)] (Without Intelligent Key system)
- to key switch and ignition knob switch terminal 3 (With Intelligent Key system)
- through 10A fuse [No. 17, located in the fuse block (J/B)] (With Intelligent Key system).

When the key switch is ON (Ignition key is inserted in ignition key cylinder), power is supplied

- to BCM terminal 3.
- through key switch terminal 2

When the ignition switch is ON or START, power is supplied

- to BCM terminal 24
- through 10A fuse [No. 4, located in the fuse block (J/B)].

Ground is supplied

- to BCM terminals 2 and 70
- through body ground M19 and M20.

When the front door switch LH (LHD Models) or RH (RHD Models) is ON (door is open), ground supplied

- to BCM terminal 29
- through front door switch LH (LHD Models) or RH (RHD Models) terminal 1
- through front door switch LH (LHD Models) or RH (RHD Models) case ground.

When the front door switch RH (LHD Models) or LH (RHD Models) is ON (door is open), ground supplied

- to BCM terminal 30
- through front door switch RH (LHD Models) or LH (RHD Models) terminal 1
- through front door switch RH (LHD Models) or LH (RHD Models) case ground.

When the rear door switch LH is ON (door is open), ground is supplied

- to BCM terminal 59 (5 door models)
- through rear door switch LH terminal 1
- through rear door switch LH case ground.

When the rear door switch RH is ON (door is open), ground is supplied

- to BCM terminal 60 (5 door models)
- through rear door switch RH terminal 1
- through rear door switch RH case ground.

When the back door switch is ON (back door is open), ground is supplied

- to BCM terminal 10
- through back door switch terminals 1 and 2
- through body grounds M19 and M20.

DOOR LOCK AND UNLOCK SWITCH OPERATION

When door lock/unlock switch is in LOCK position, ground is supplied

- through body grounds M19 and M20.
- through door lock/unlock switch terminal 4 and 6
- to BCM (Body Control Module) terminal 6.

With power and ground supplied, doors are locked.

When door lock/unlock switch is in UNLOCK position, ground is supplied

- through body grounds M19 and M20
- through door lock/unlock switch terminal 4 and 5
- to BCM (Body Control Module) terminal 25

POWER DOOR LOCK SYSTEM

With power and ground supplied, all doors are unlocked.

Lock/unlock switch indicated by LED when key in switch is on or on with timer.

KEY REMINDER SYSTEM

- If the ignition key is in the ignition key cylinder and driver door is open, setting door lock/unlock switch, key or remote controller to "LOCK" locks the door once but then immediately unlocks all doors.

UNLOCK LINK FUNCTION

When this function is activated, if the car is door lock/unlock switch locked, opening the drivers repossessing door from the inside handle override will cause the whole car to unlock.

Selectable Function

	Door Lock/unlock switch
How to change setting	Unlock press for more than 4 seconds
contents	Unlock link activate/deactivate
How to confirm	All should have buzzer sound for 0.2 seconds

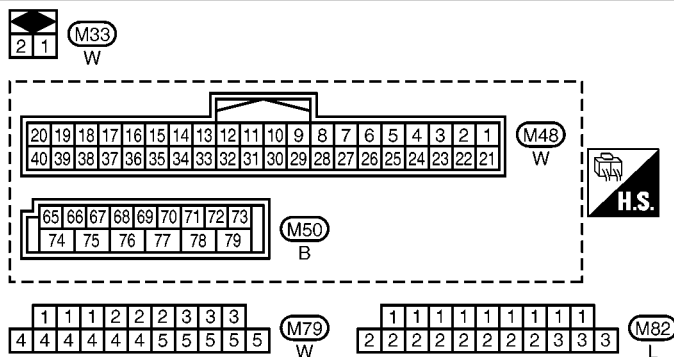
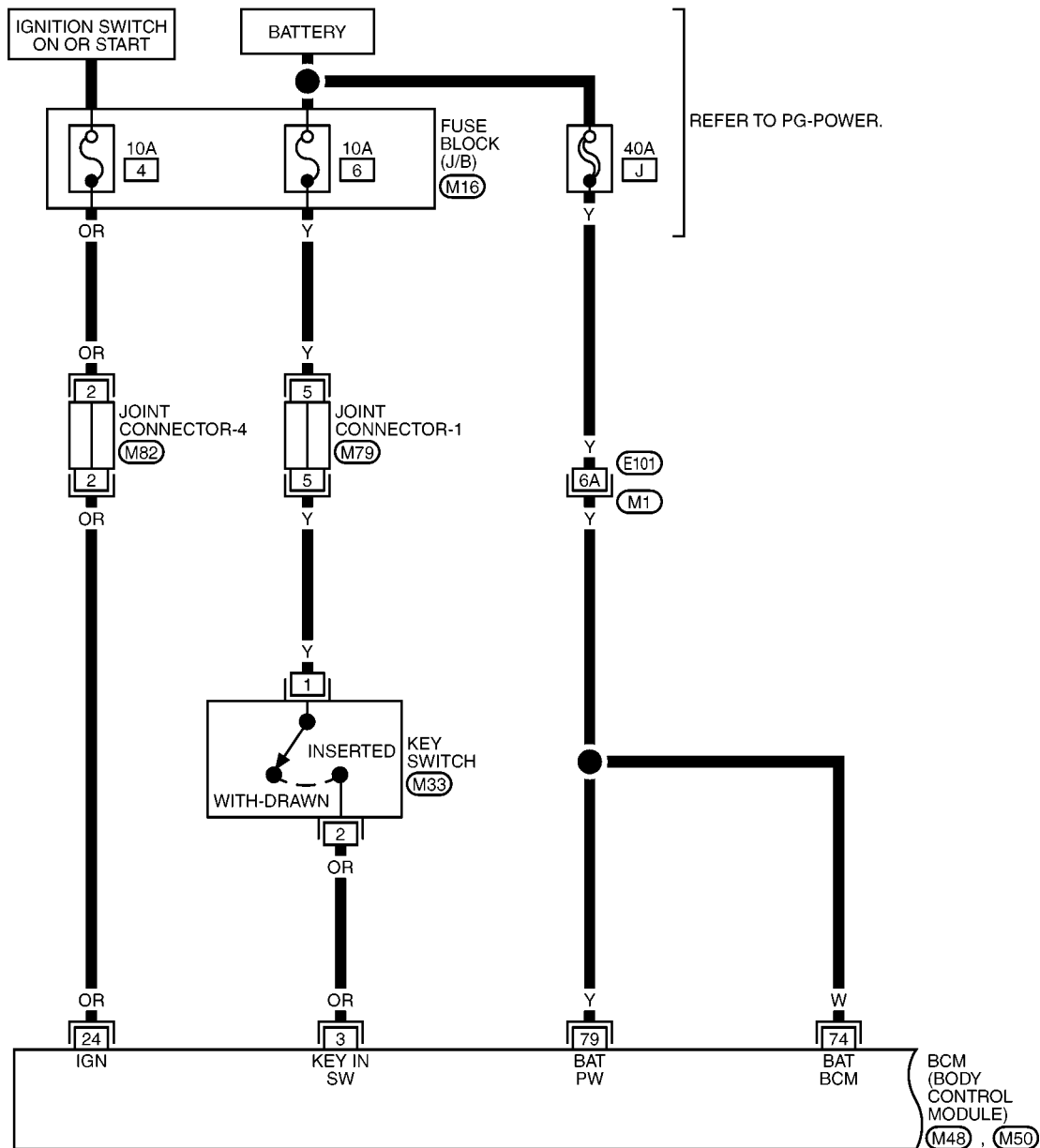
BACK DOOR OPENER OPERATION

Back door can be opened with back door switch: When all door are unlocked, or When back door request switch pushed (With Intelligent Key system).

Wiring Diagram — D/LOCK — (Without Intelligent Key System)

To ESM

BL-D/LOCK-01



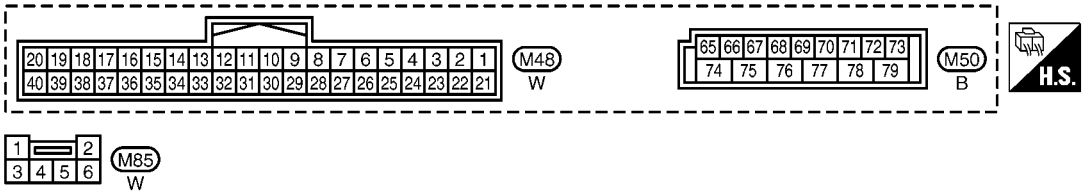
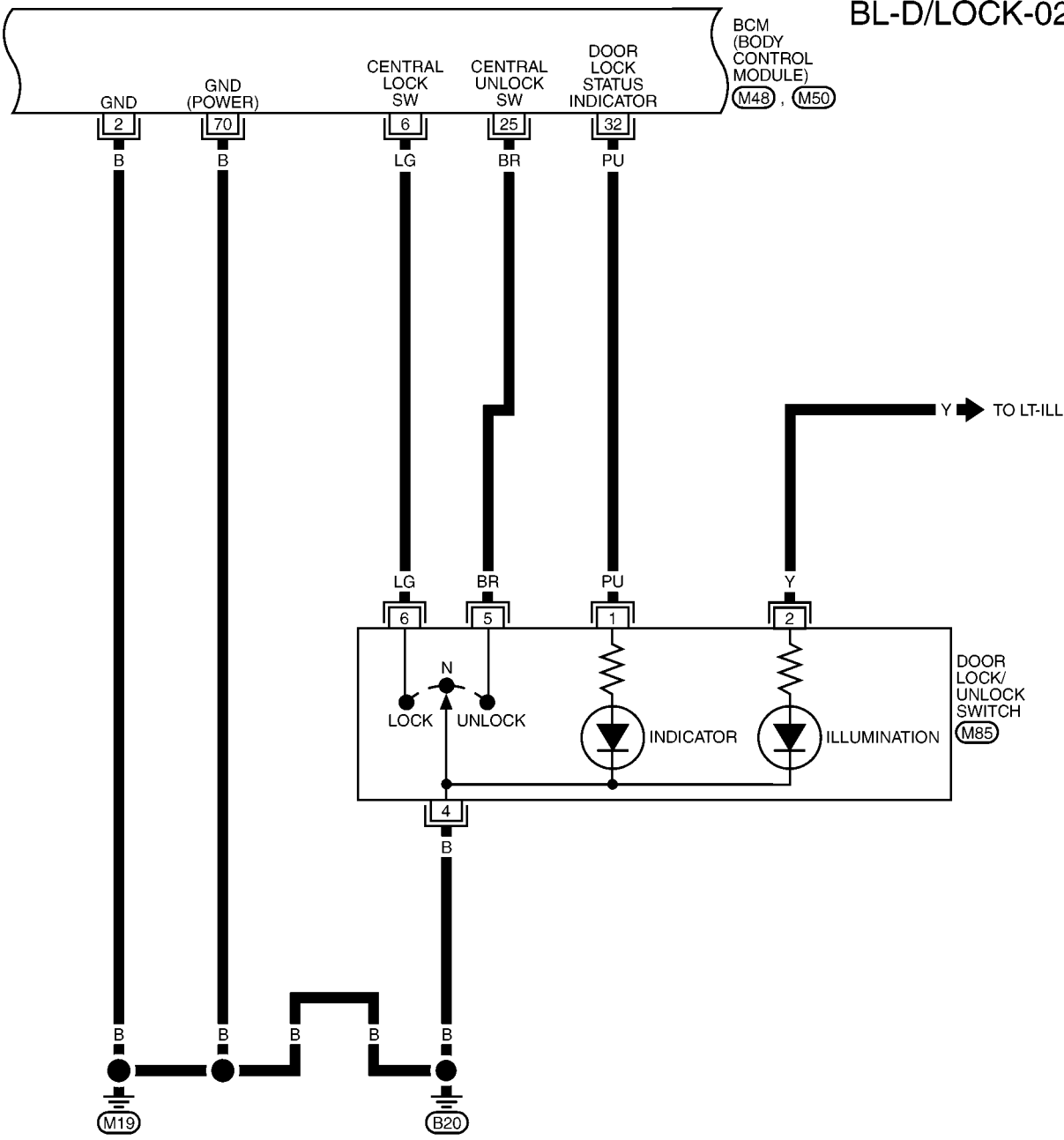
REFER TO THE FOLLOWING.

(M1) -SUPER MULTIPLE JUNCTION (SMJ)

**(M16) -FUSE BLOCK-
JUNCTION BOX (J/B)**

POWER DOOR LOCK SYSTEM

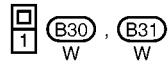
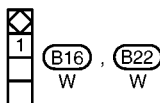
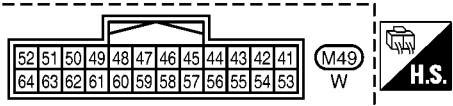
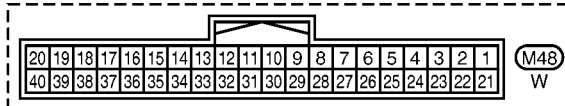
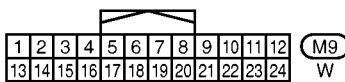
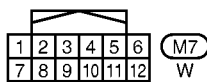
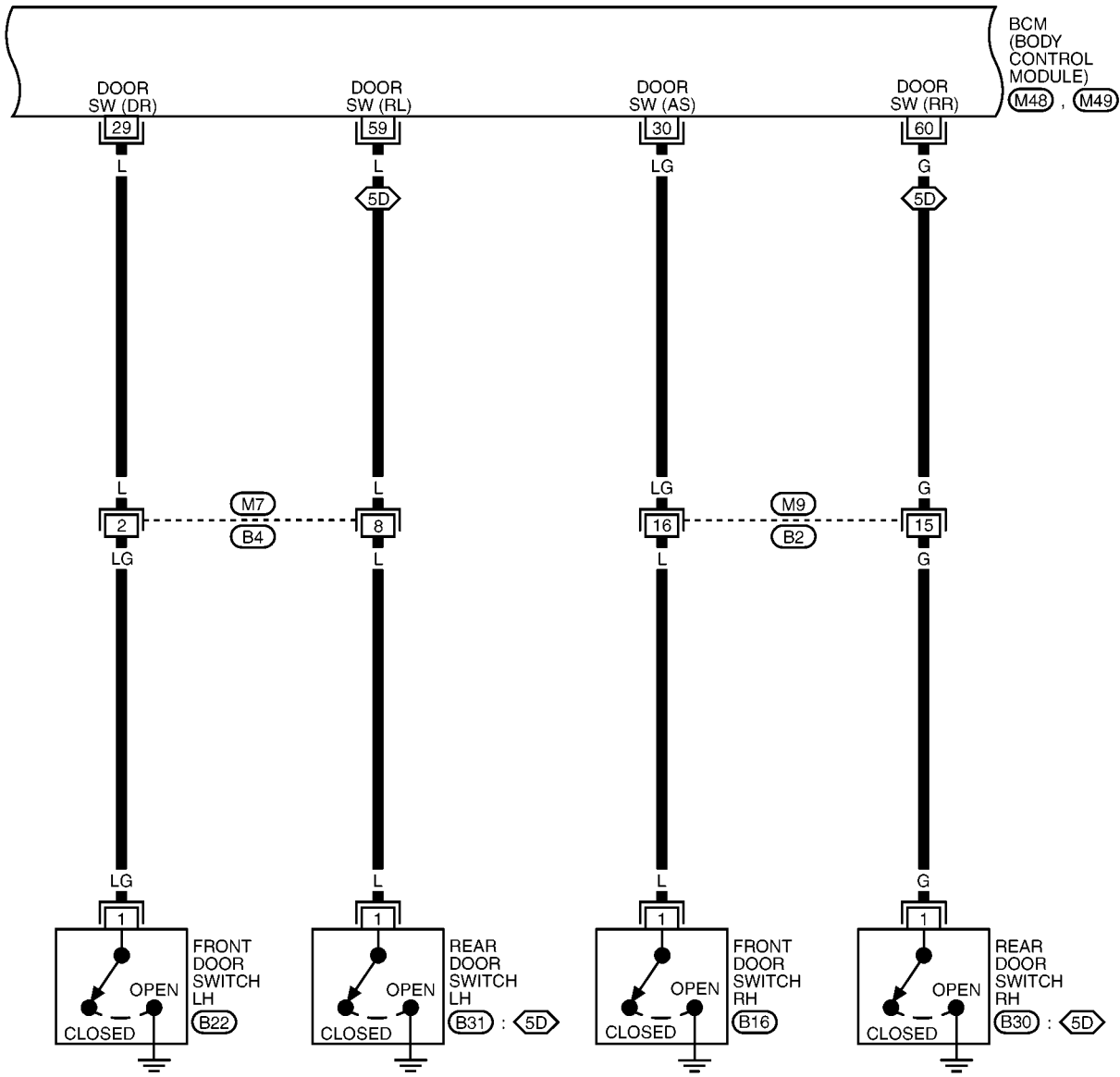
BL-D/LOCK-02



POWER DOOR LOCK SYSTEM

BL-D/LOCK-03

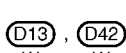
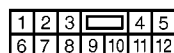
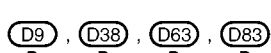
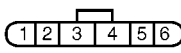
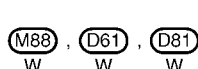
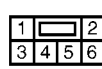
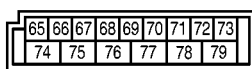
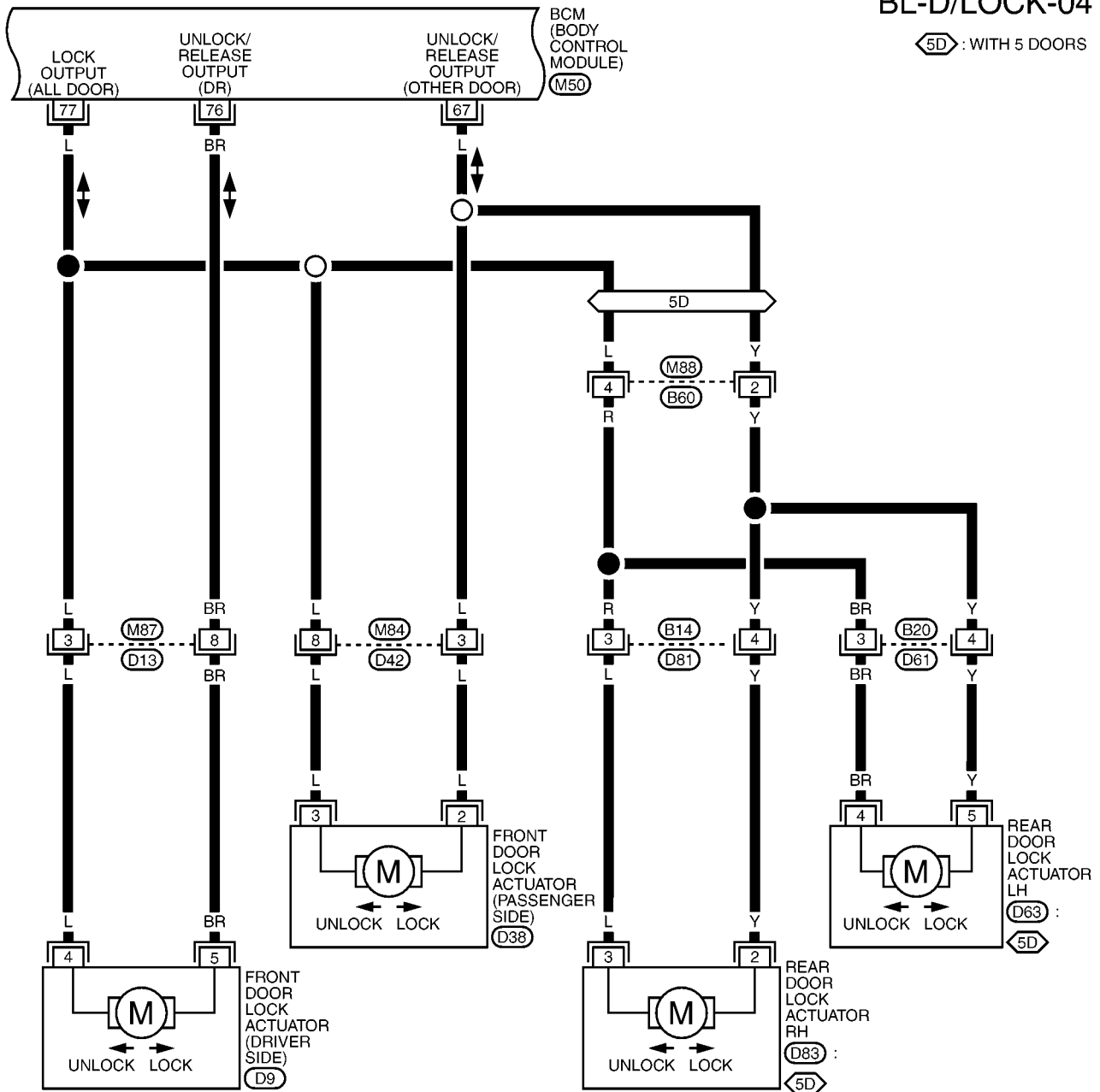
5D : WITH 5 DOORS



POWER DOOR LOCK SYSTEM

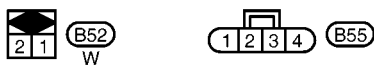
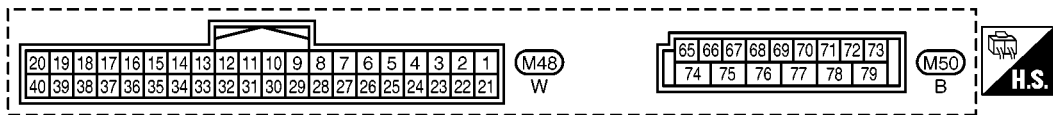
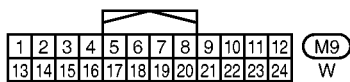
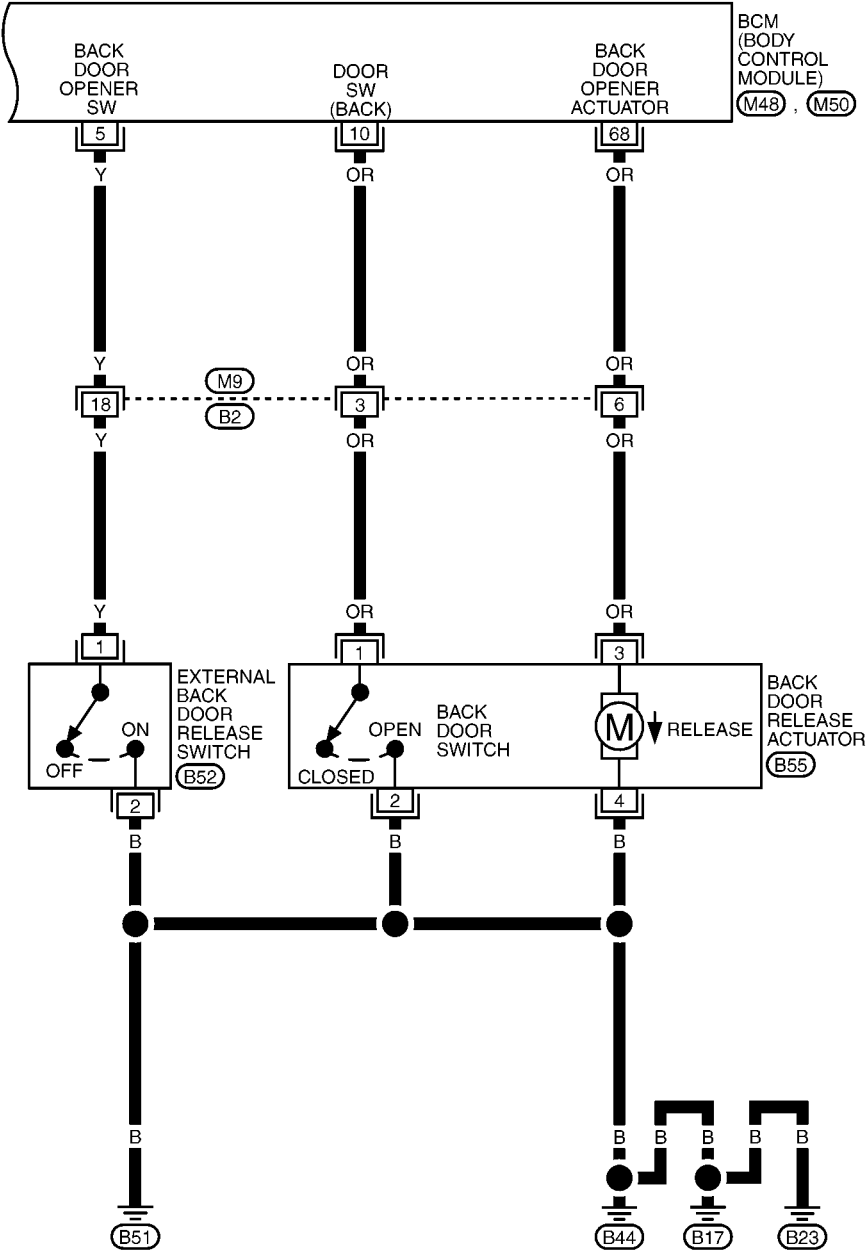
BL-D/LOCK-04

5D : WITH 5 DOORS



POWER DOOR LOCK SYSTEM

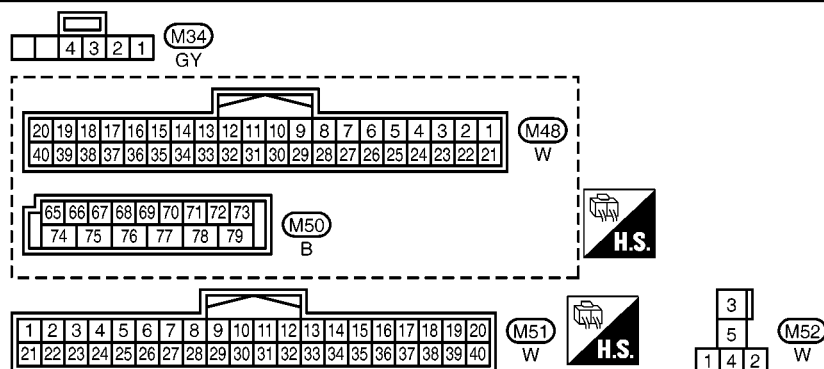
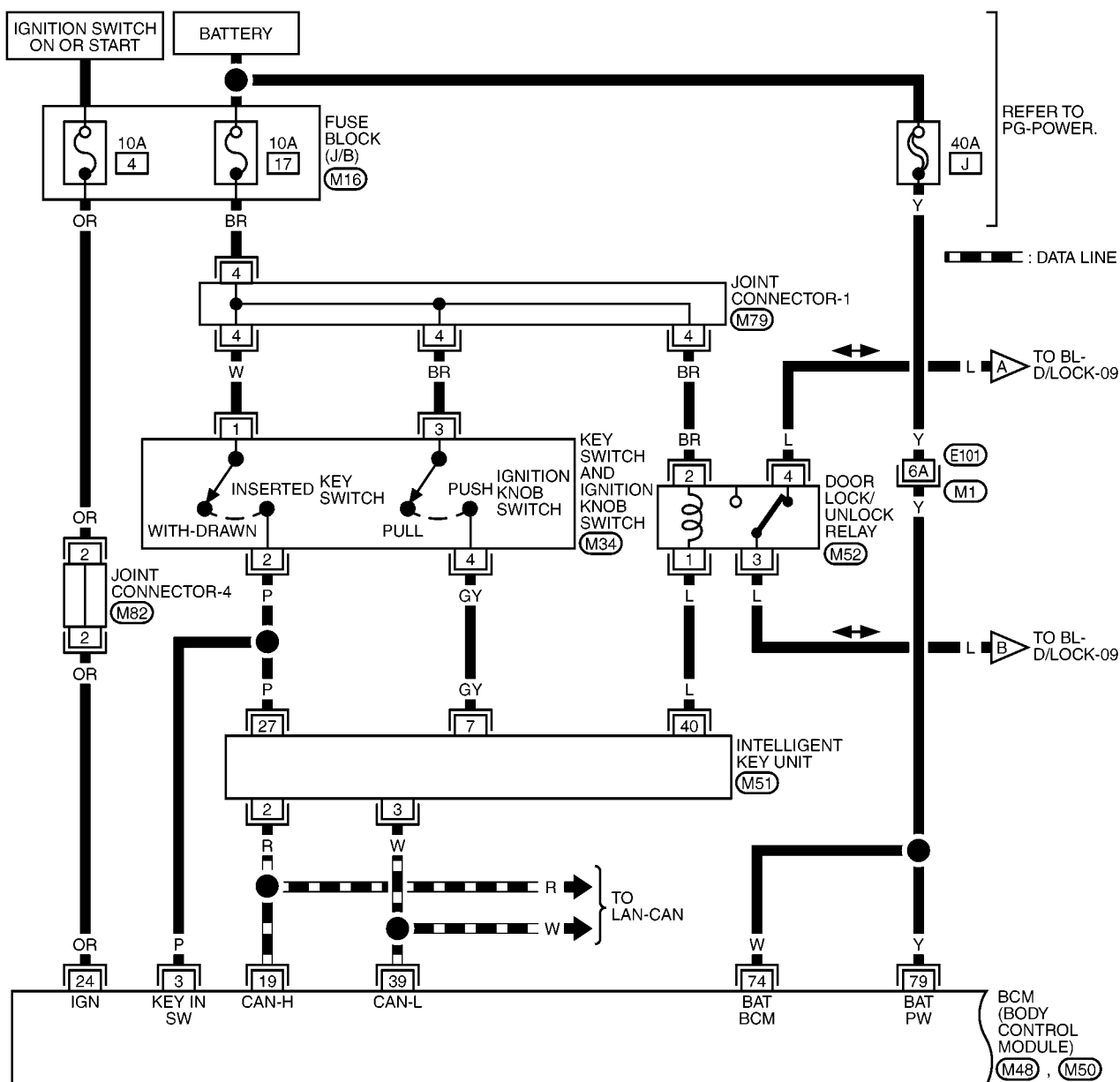
BL-D/LOCK-05



Wiring Diagram — D/LOCK — (With Intelligent Key System)

To ESM

BL-D/LOCK-06



REFER TO THE FOLLOWING.

(M1) -SUPER MULTIPLE

JUNCTION (SMJ)

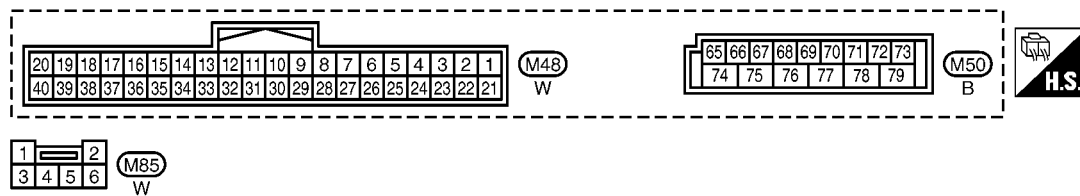
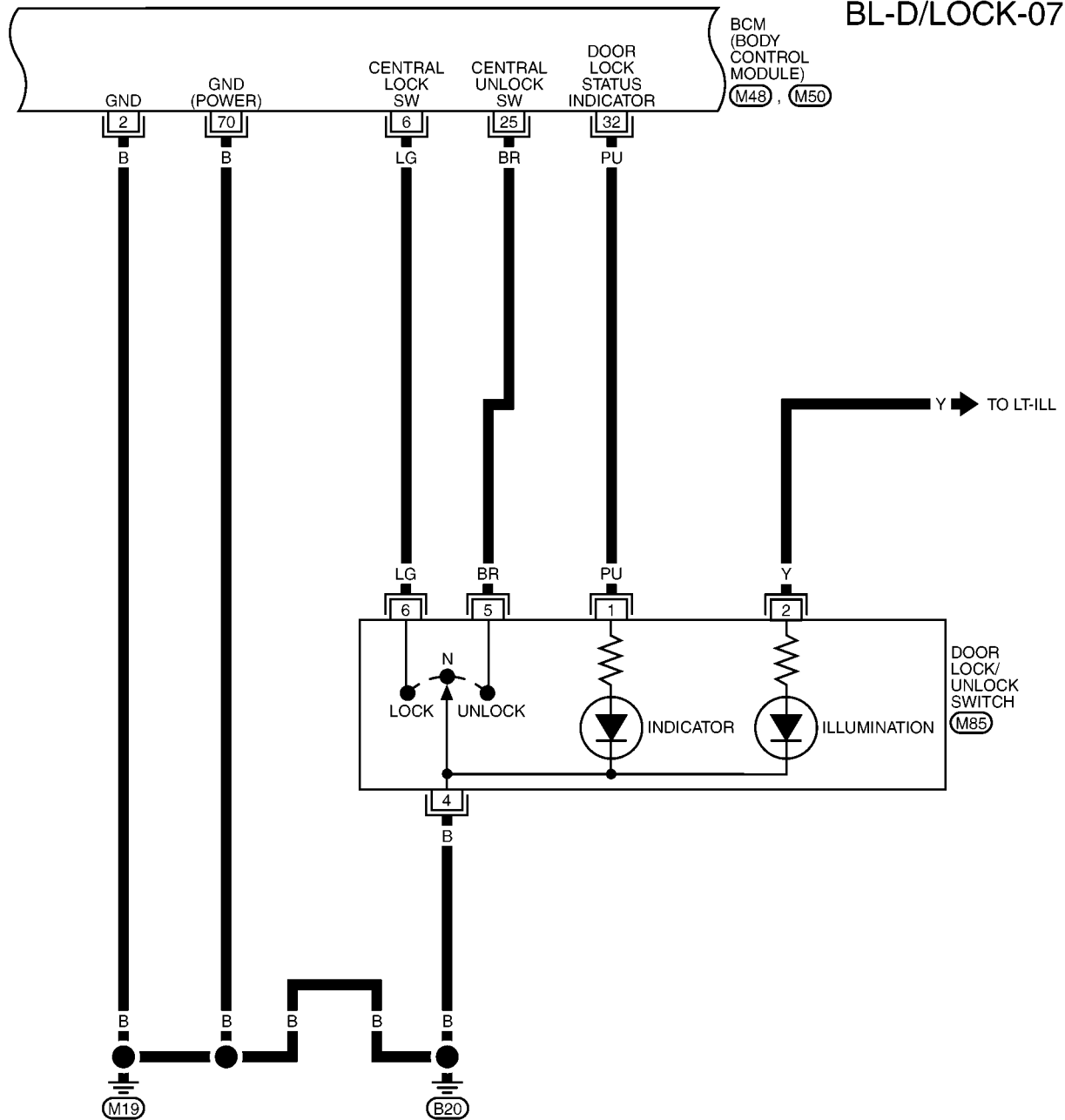
(M16) -FUSE BLOCK-

JUNCTION BOX (J/B)

(M79) , (M82)

-JOINT CONNECTOR (J/C)

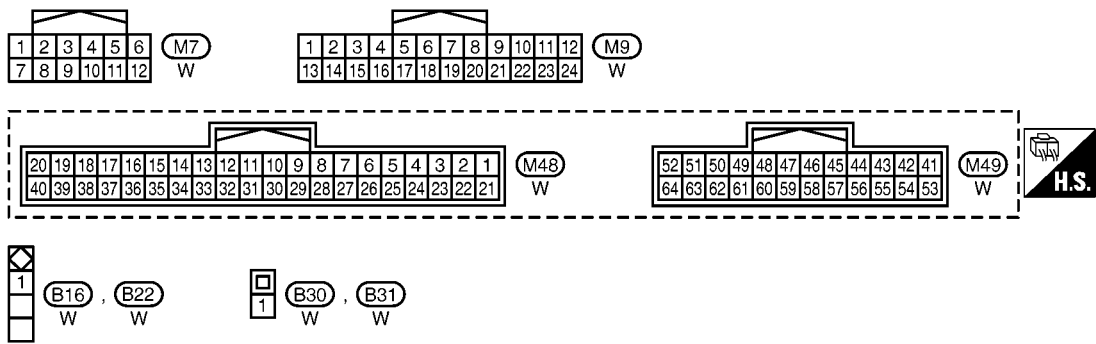
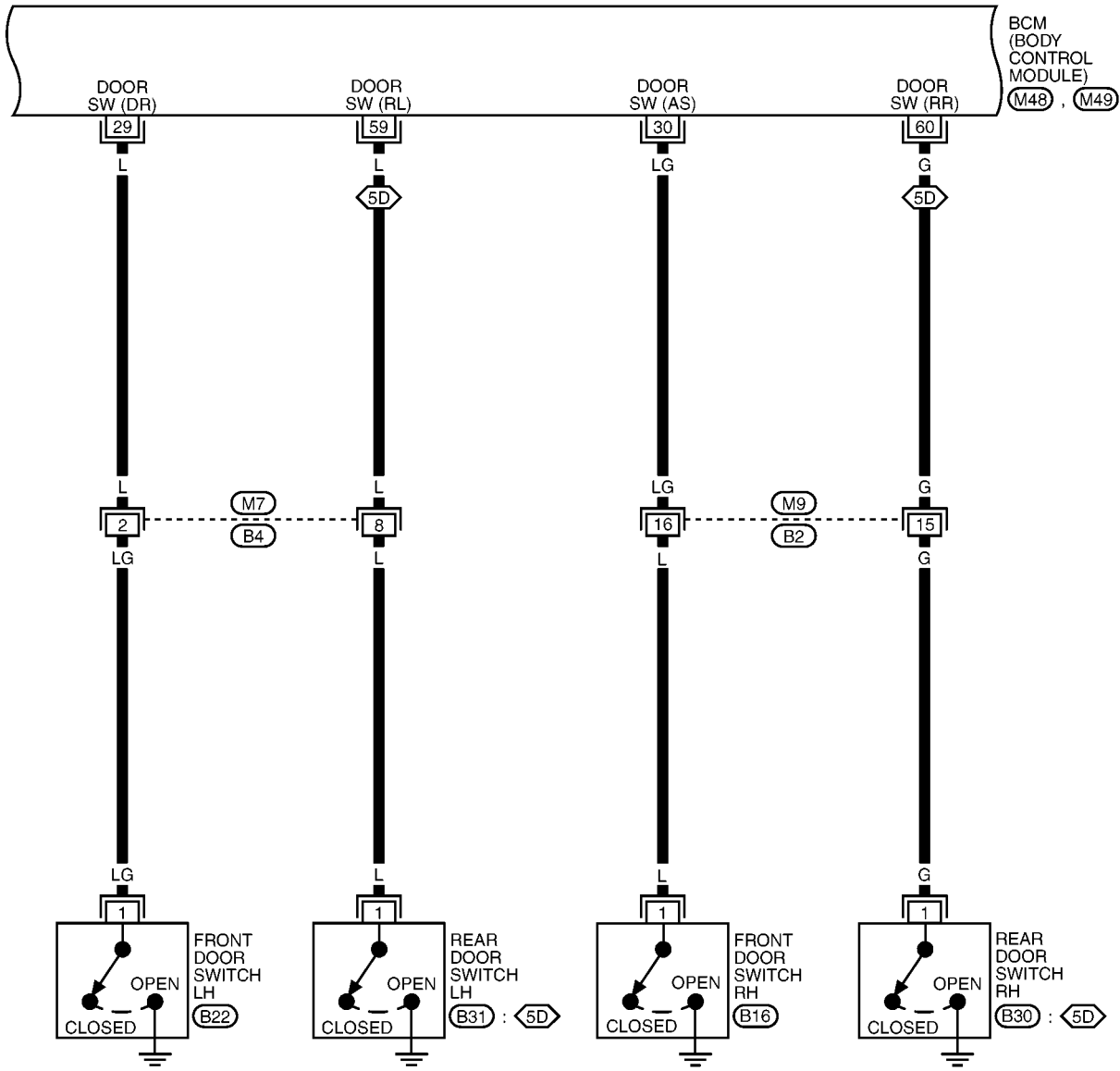
BL-D/LOCK-07



POWER DOOR LOCK SYSTEM

BL-D/LOCK-08

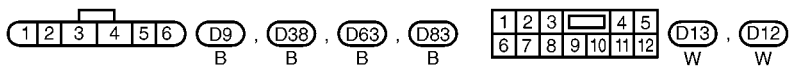
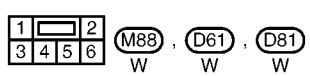
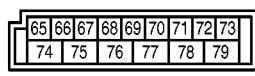
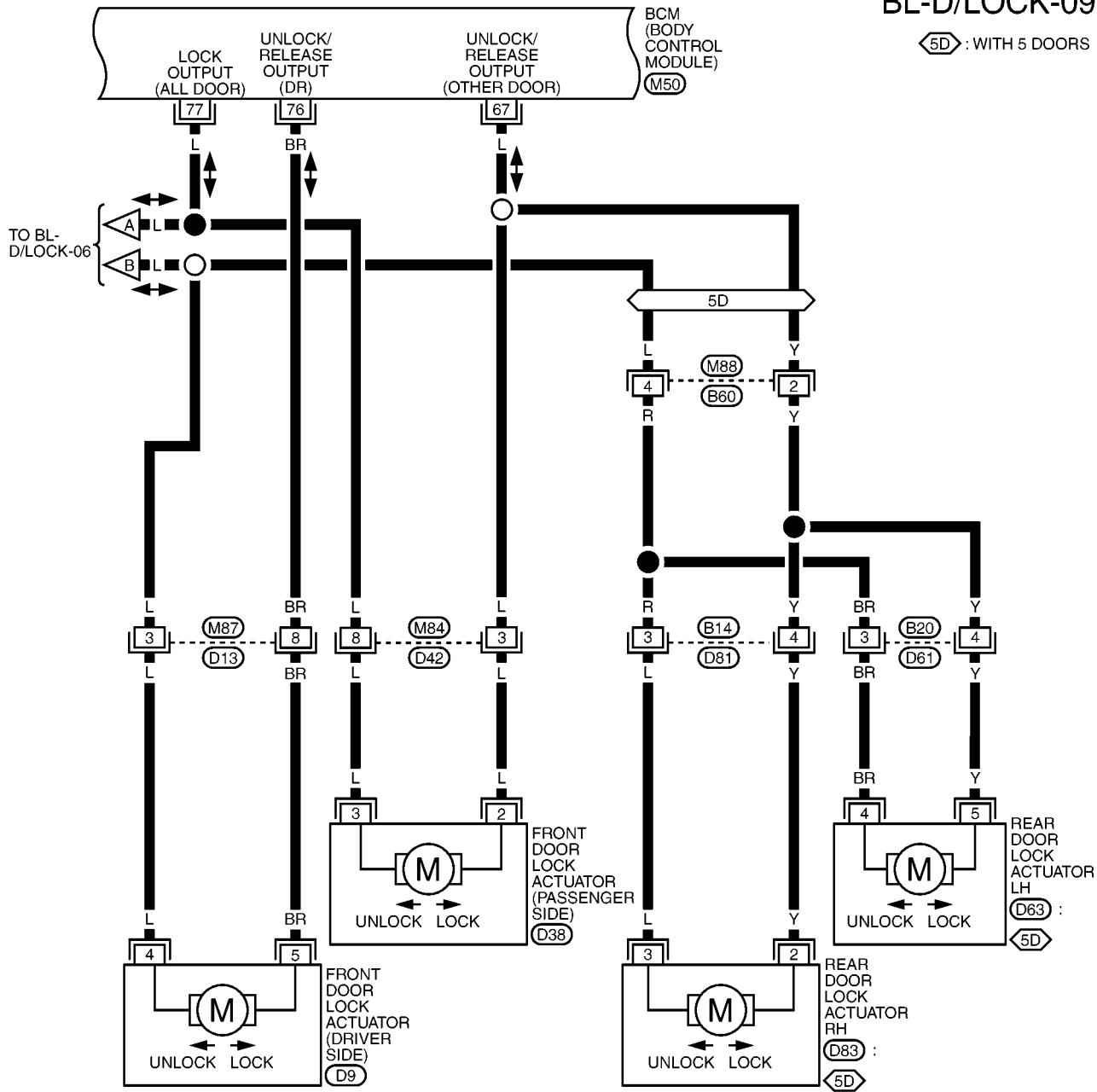
5D : WITH 5 DOORS



POWER DOOR LOCK SYSTEM

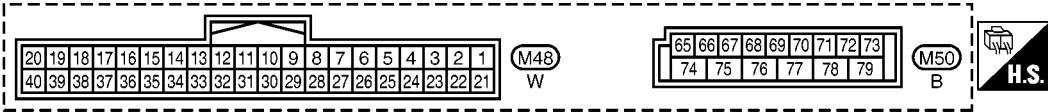
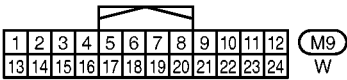
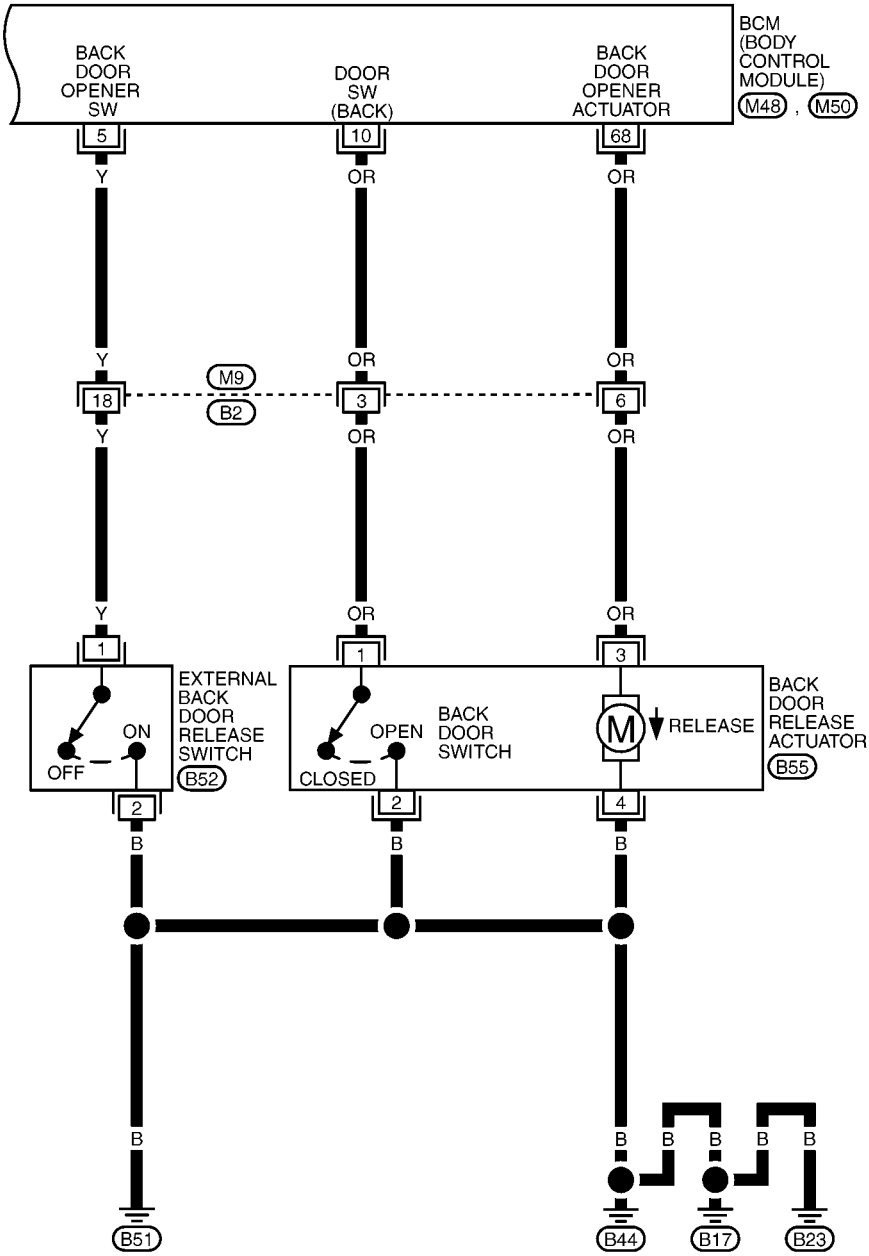
BL-D/LOCK-09

5D : WITH 5 DOORS



POWER DOOR LOCK SYSTEM

BL-D/LOCK-10

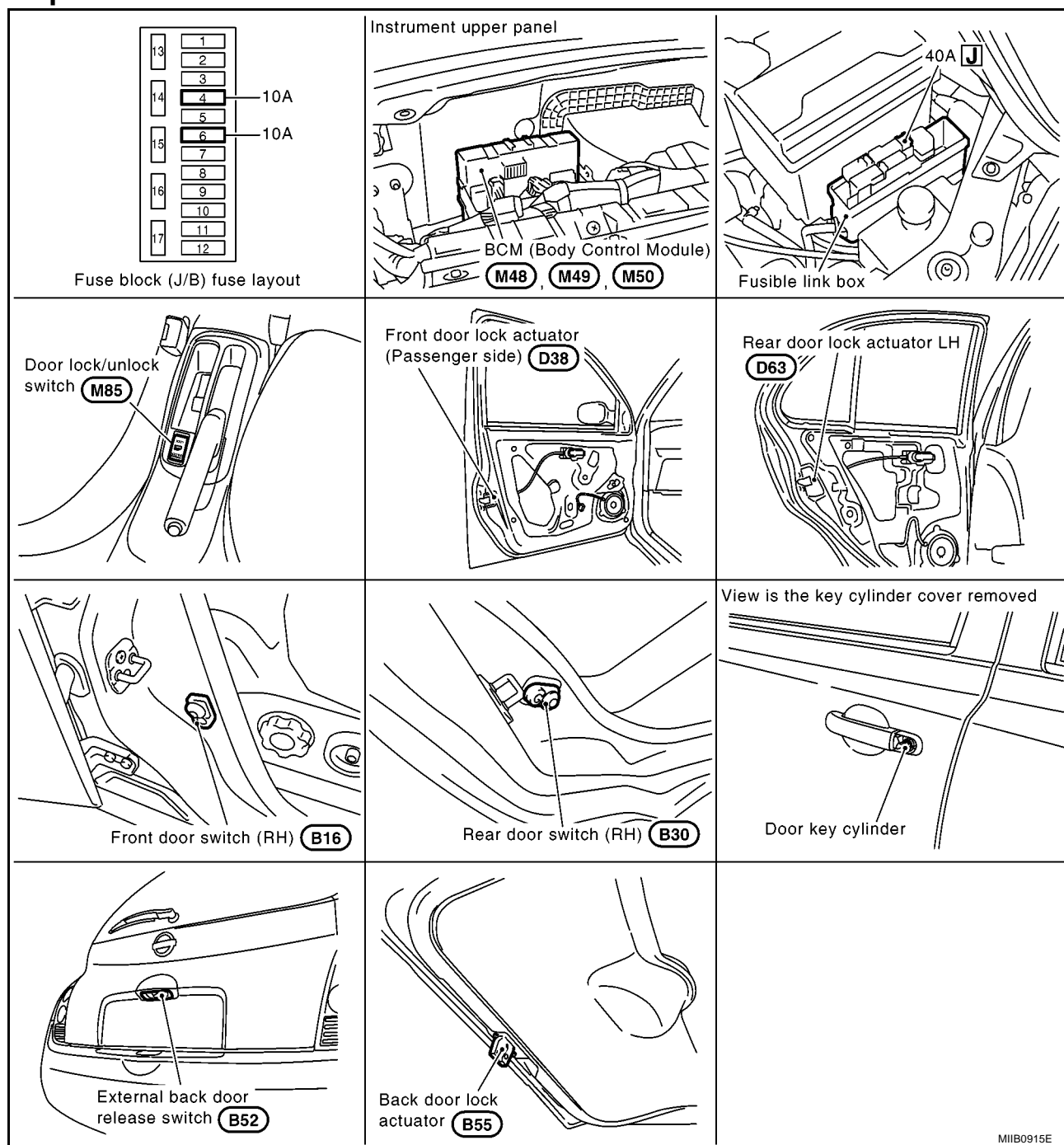


POWER DOOR LOCK — SUPER LOCK —

POWER DOOR LOCK — SUPER LOCK —

Component Parts and Harness Connector Location

To ESM

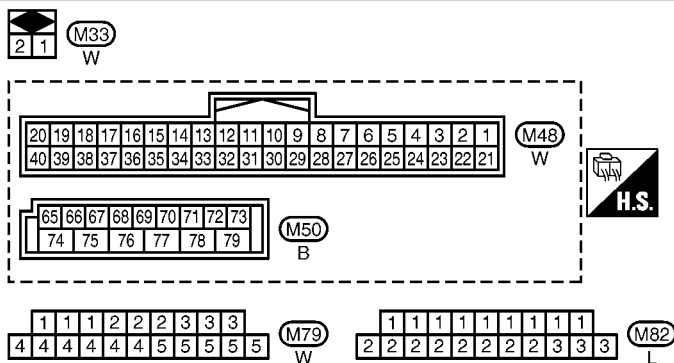
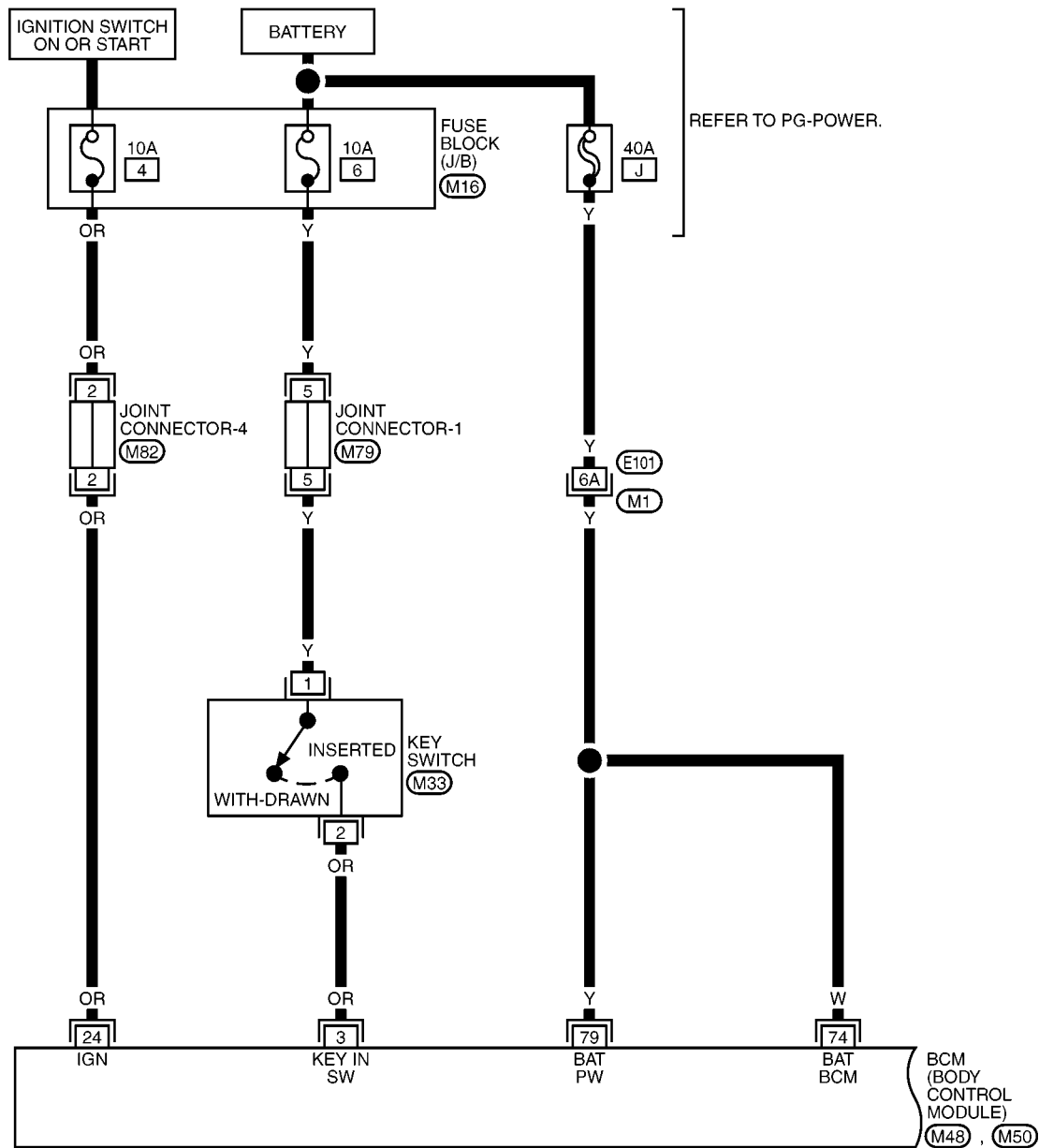


M11B0915E

Wiring Diagram — S/LOCK — (Without Intelligent Key System)

To ESM

BL-S/LOCK-01

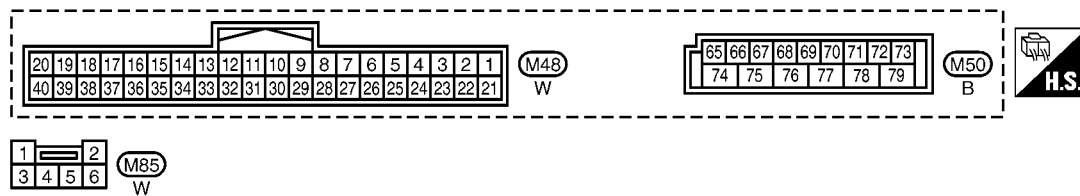
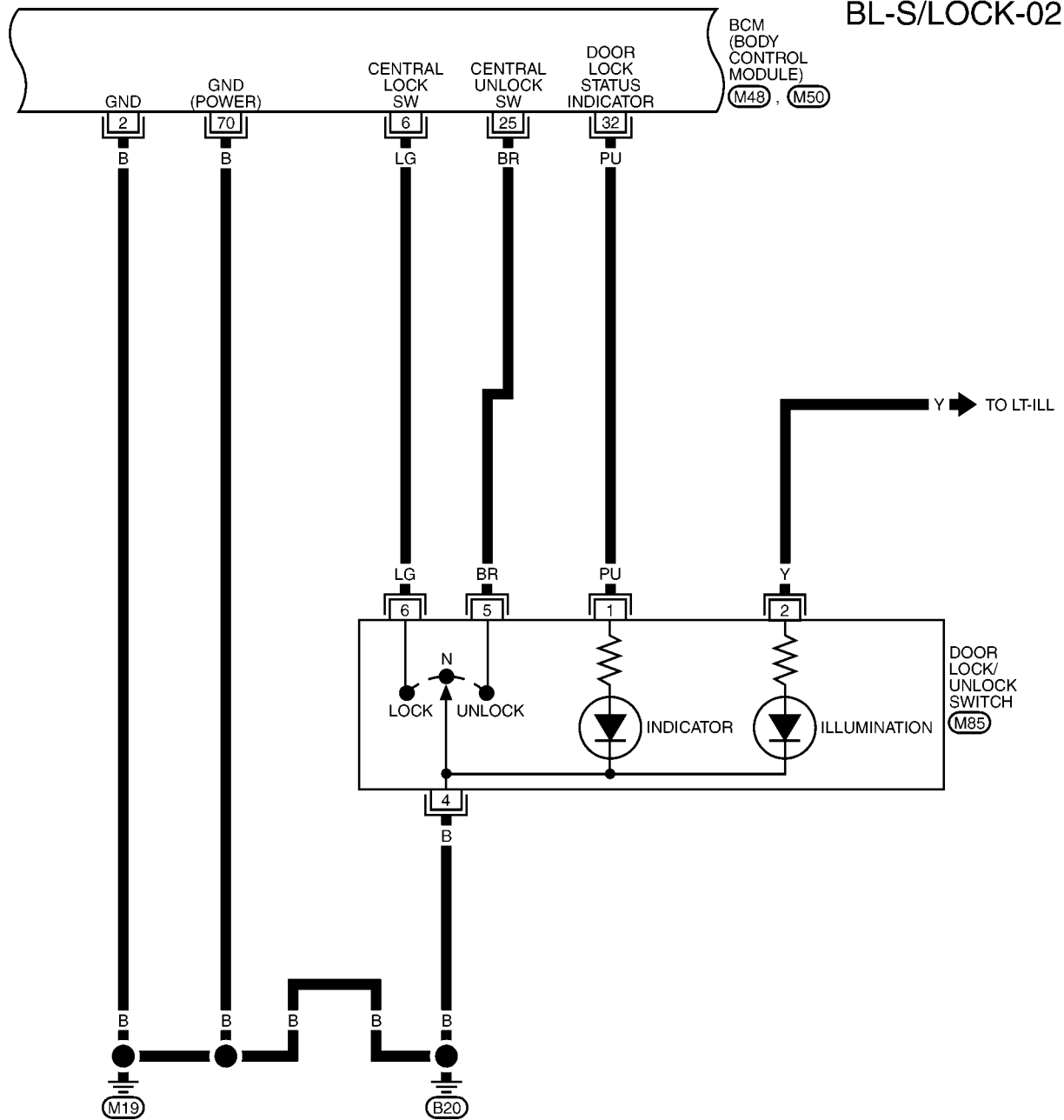


REFER TO THE FOLLOWING.

(M1) -SUPER MULTIPLE JUNCTION (SMJ)

**(M16) - FUSE BLOCK-
JUNCTION BOX (J/B)**

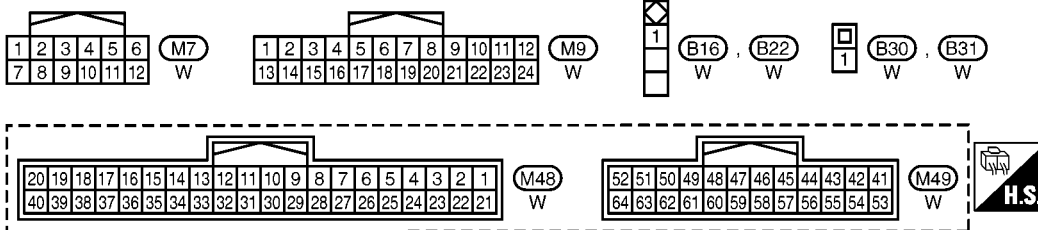
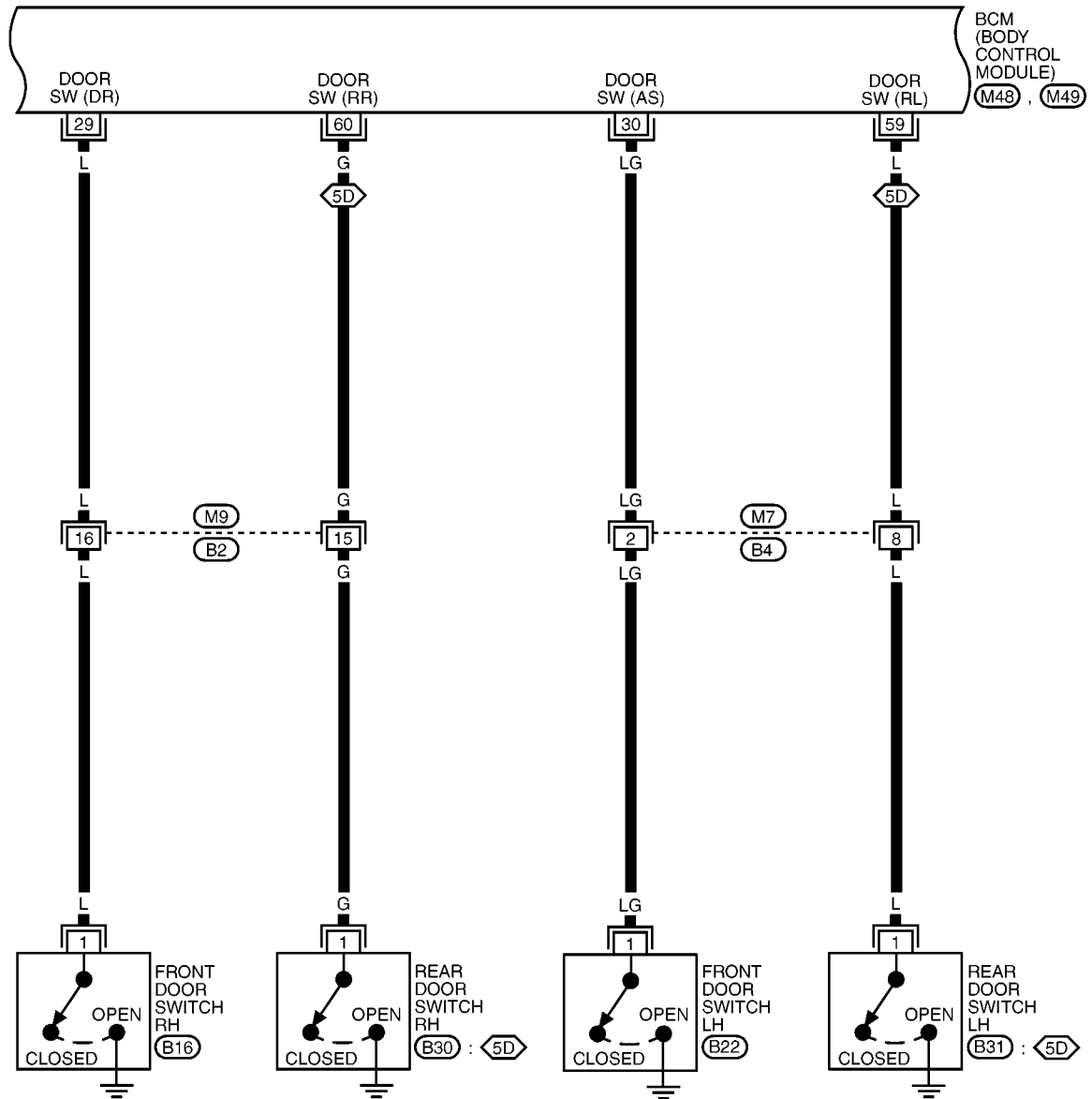
BL-S/LOCK-02



POWER DOOR LOCK — SUPER LOCK —

BL-S/LOCK-03

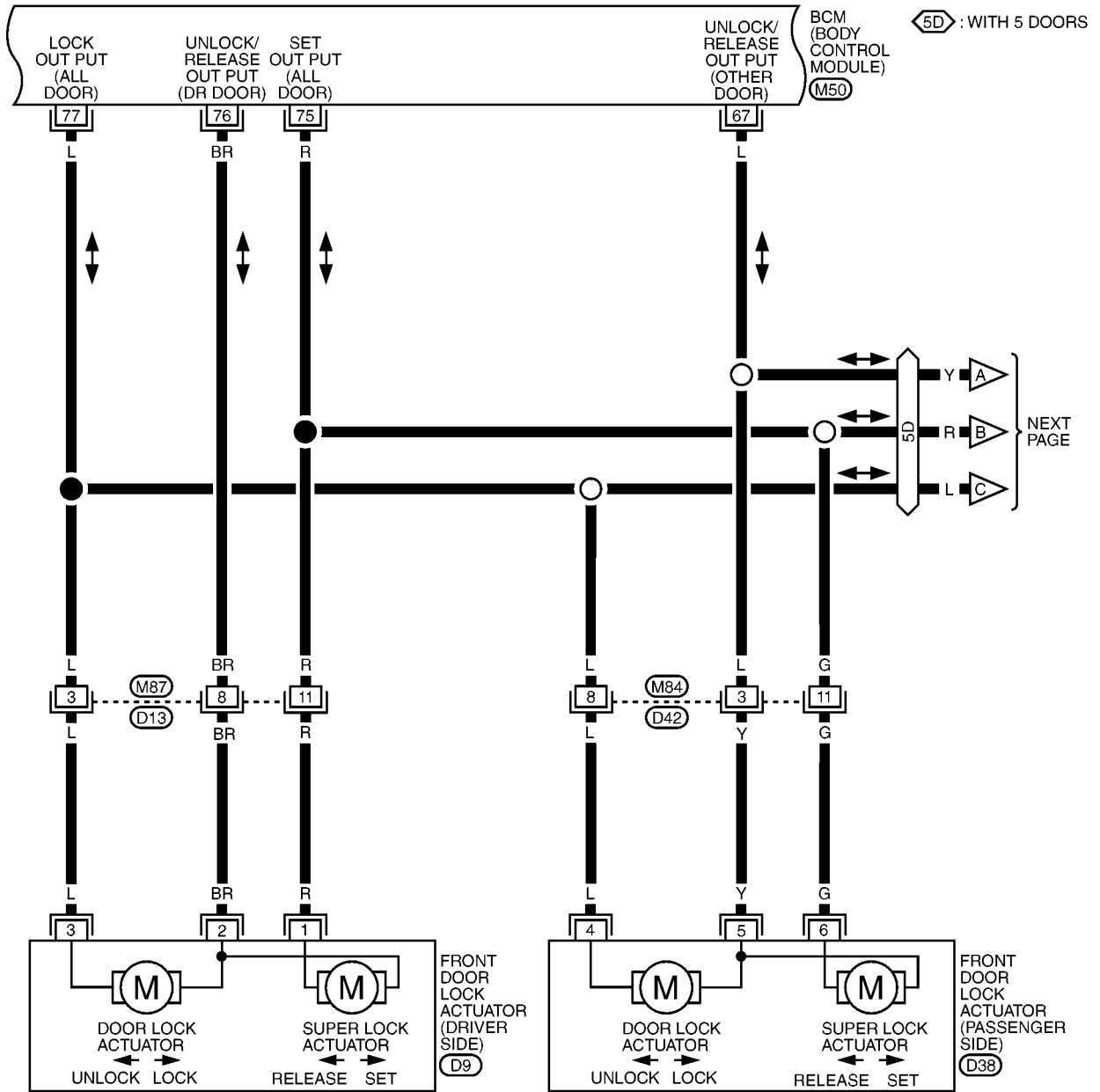
◀5D▶ : WITH 5 DOORS



MKWA0877E

POWER DOOR LOCK — SUPER LOCK —

BL-S/LOCK-04



65	66	67	68	69	70	71	72	73
74	75	76	77	78	79			

(M50)
B



1 2 3 4 5 6 (D9) , (D38)
B B

1	2	3		4	5
6	7	8	9	10	11

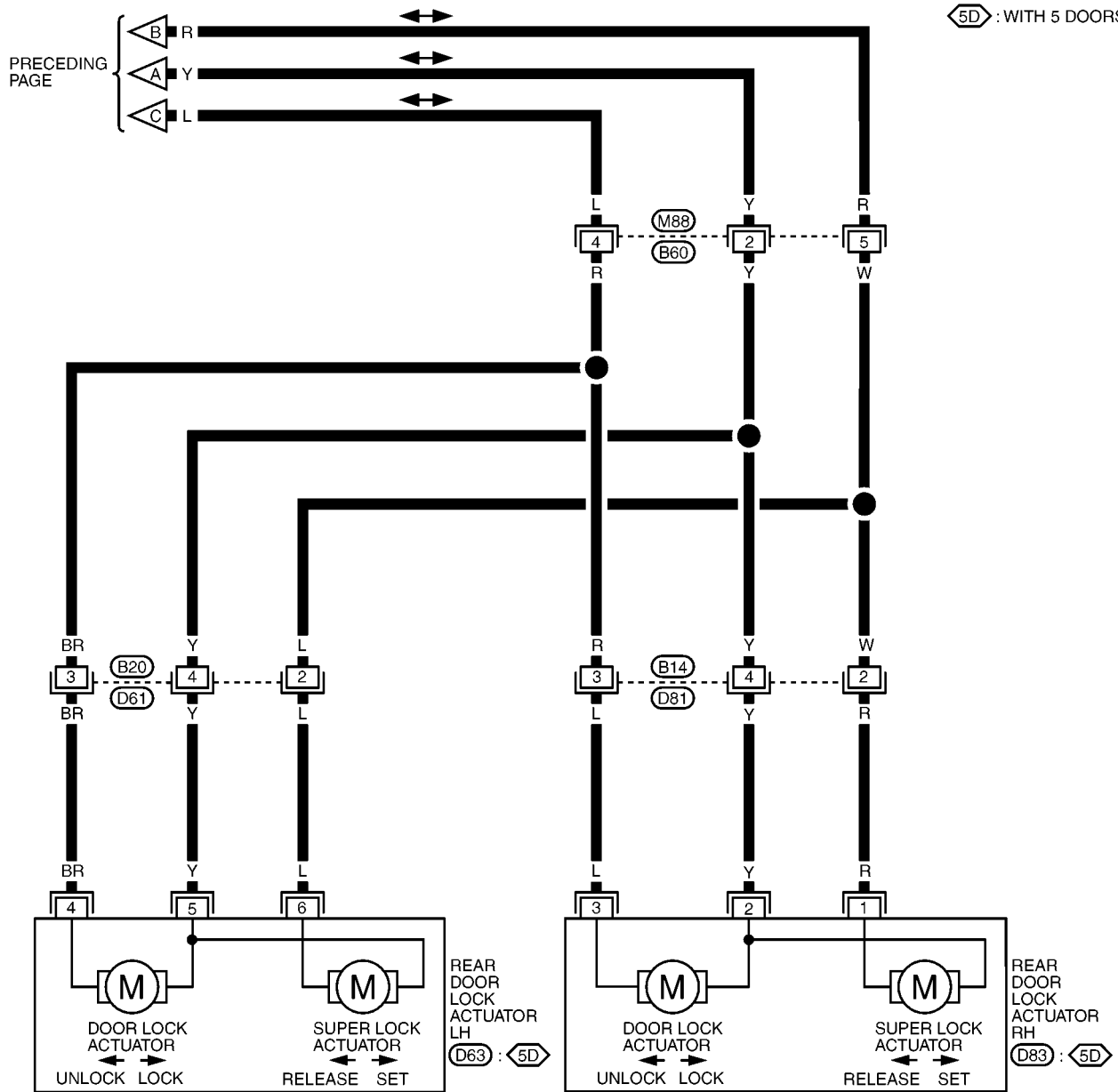
(D13) , (D42)
W W

MIWA0279E

POWER DOOR LOCK — SUPER LOCK —

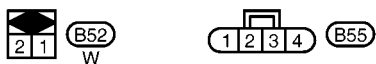
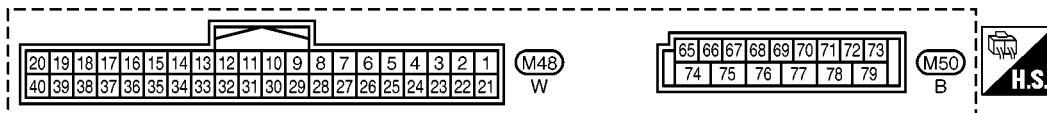
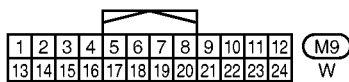
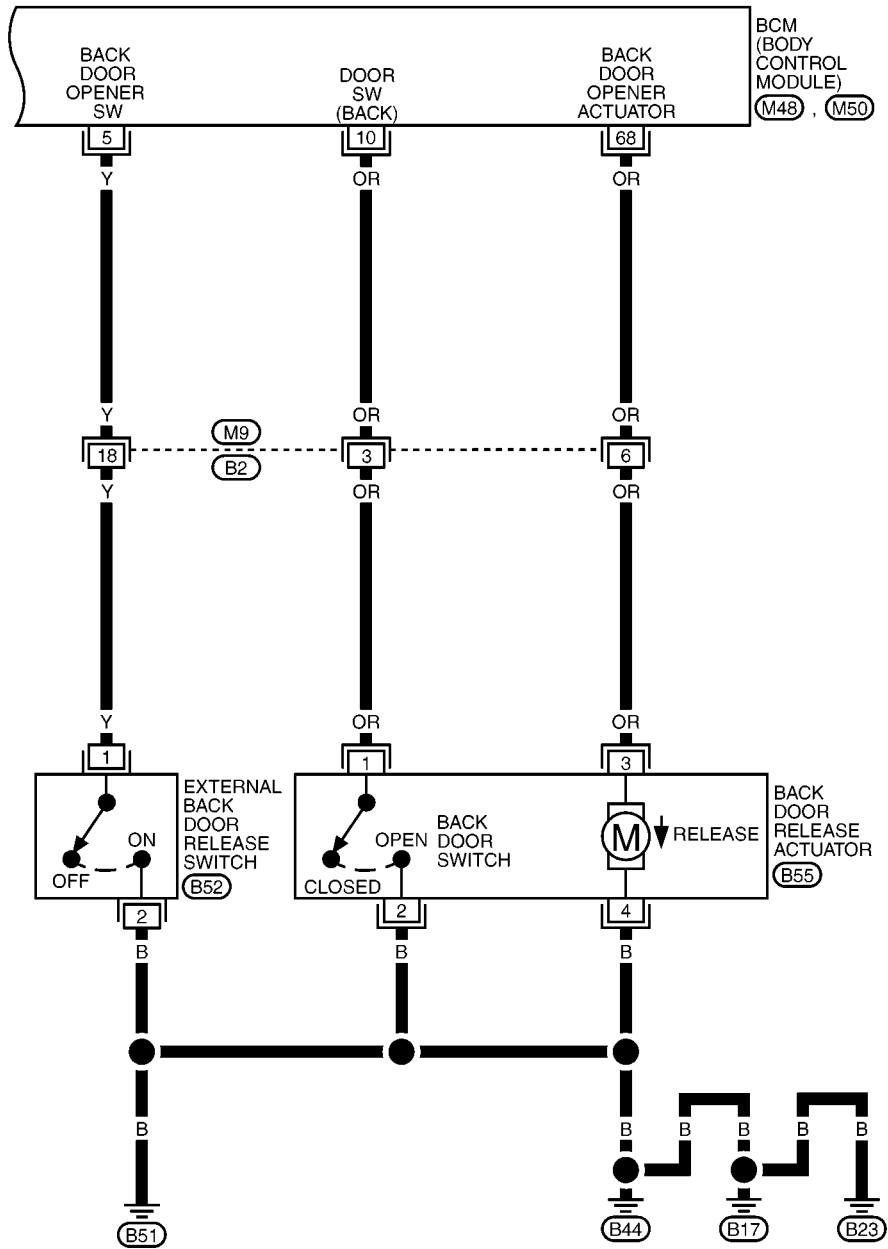
BL-S/LOCK-05

5D : WITH 5 DOORS



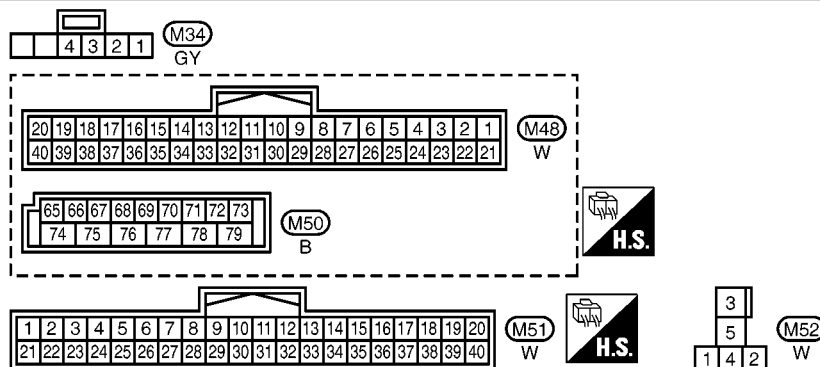
MIWA0280E

BL-S/LOCK-06



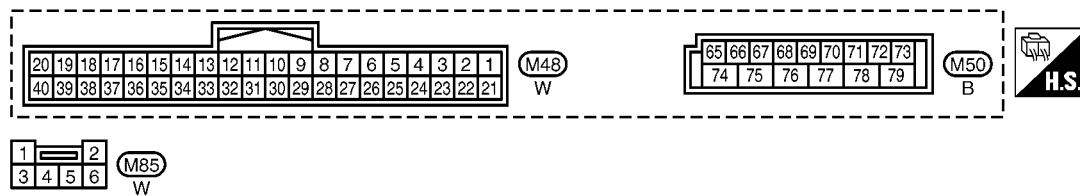
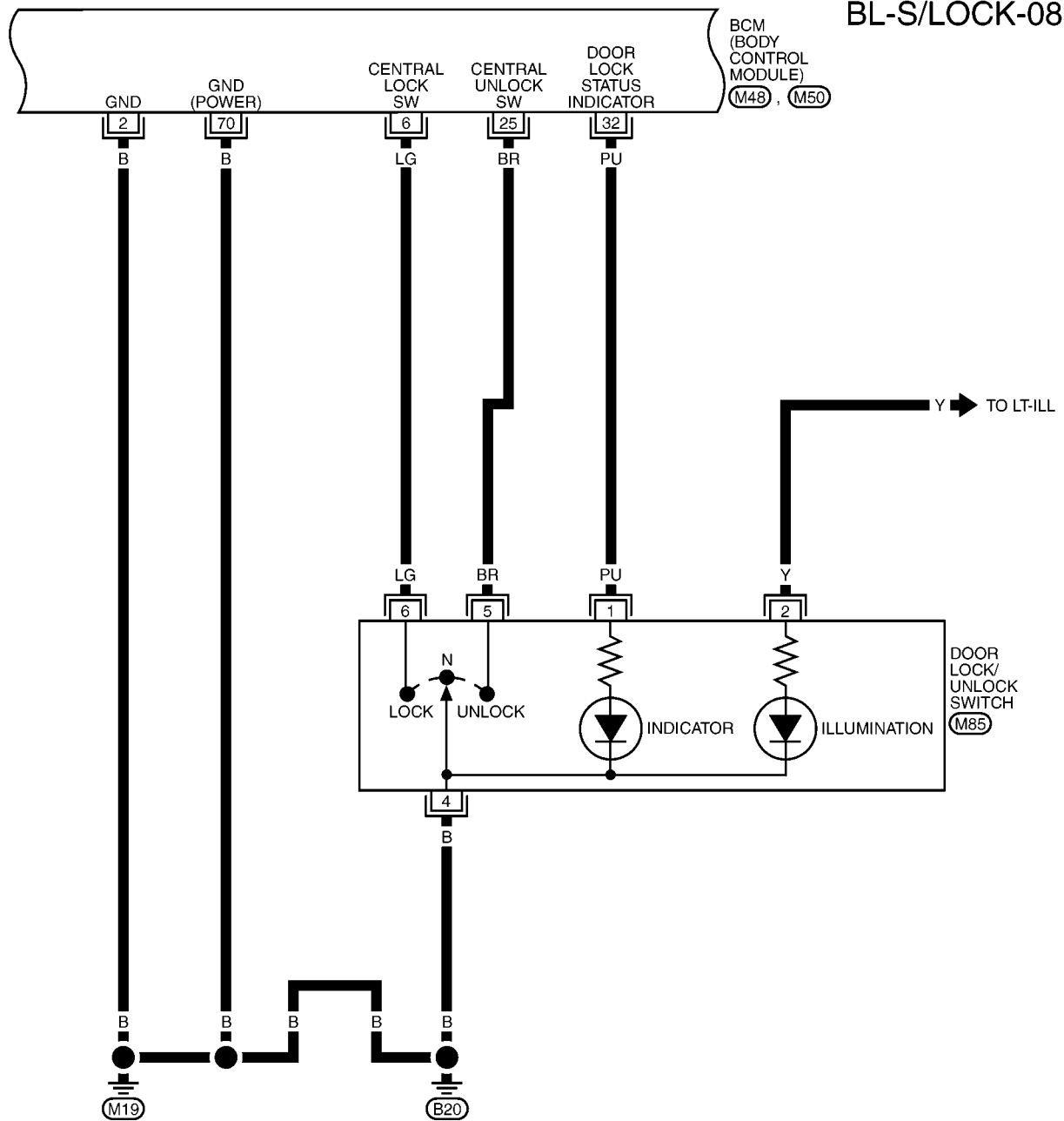
Wiring Diagram — S/LOCK — (With Intelligent Key System)

BL-S/LOCK-07



(M1) -SUPER MULTIPLE
JUNCTION (SMJ)
(M16) -FUSE BLOCK-
JUNCTION BOX (J/B)
(M79) , (M82)
-JOINT CONNECTOR (J/C)

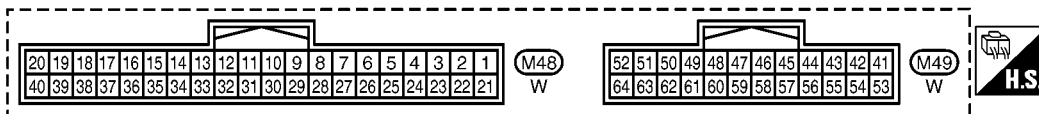
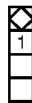
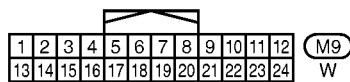
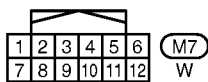
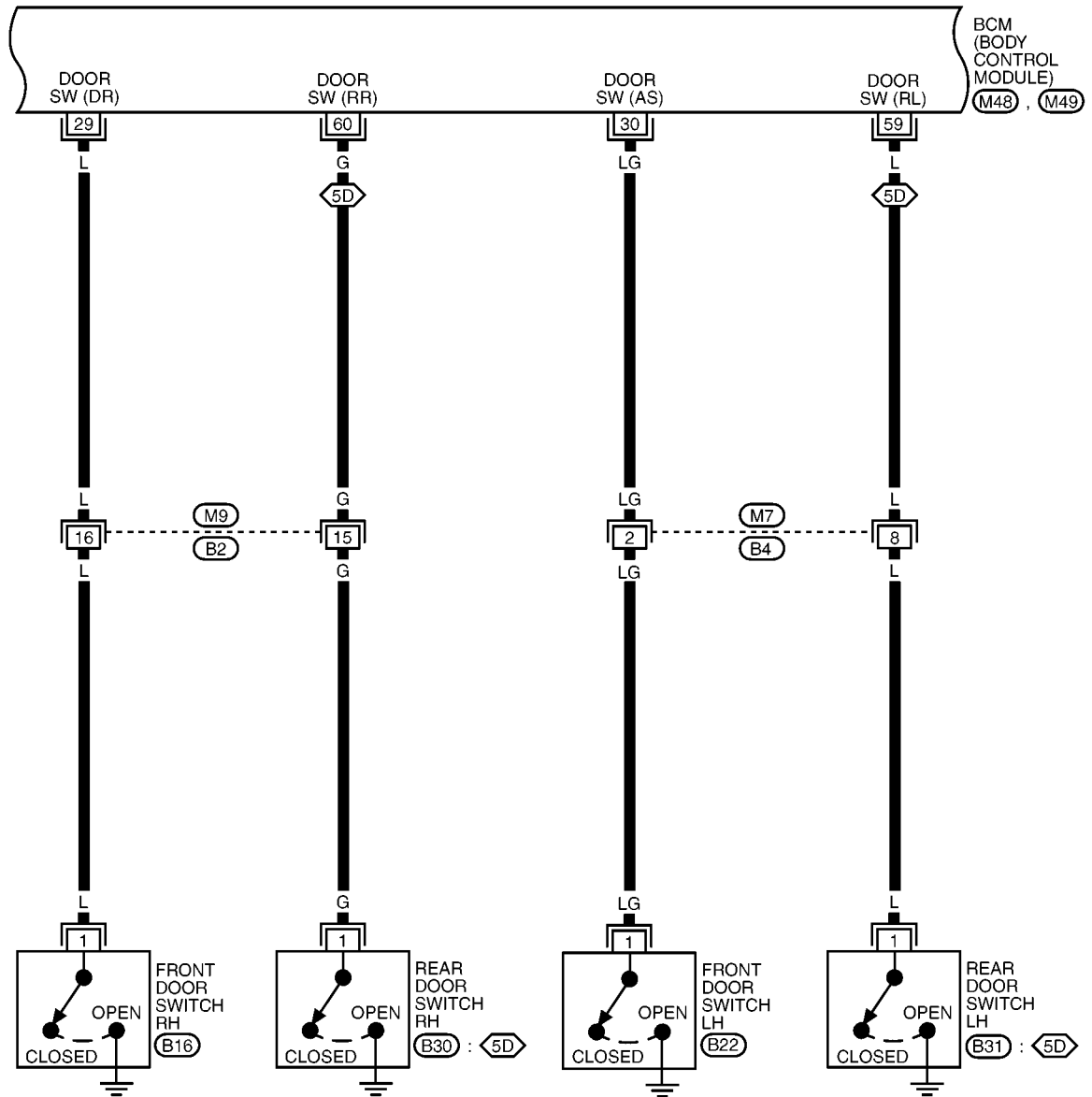
BL-S/LOCK-08



POWER DOOR LOCK — SUPER LOCK —

BL-S/LOCK-09

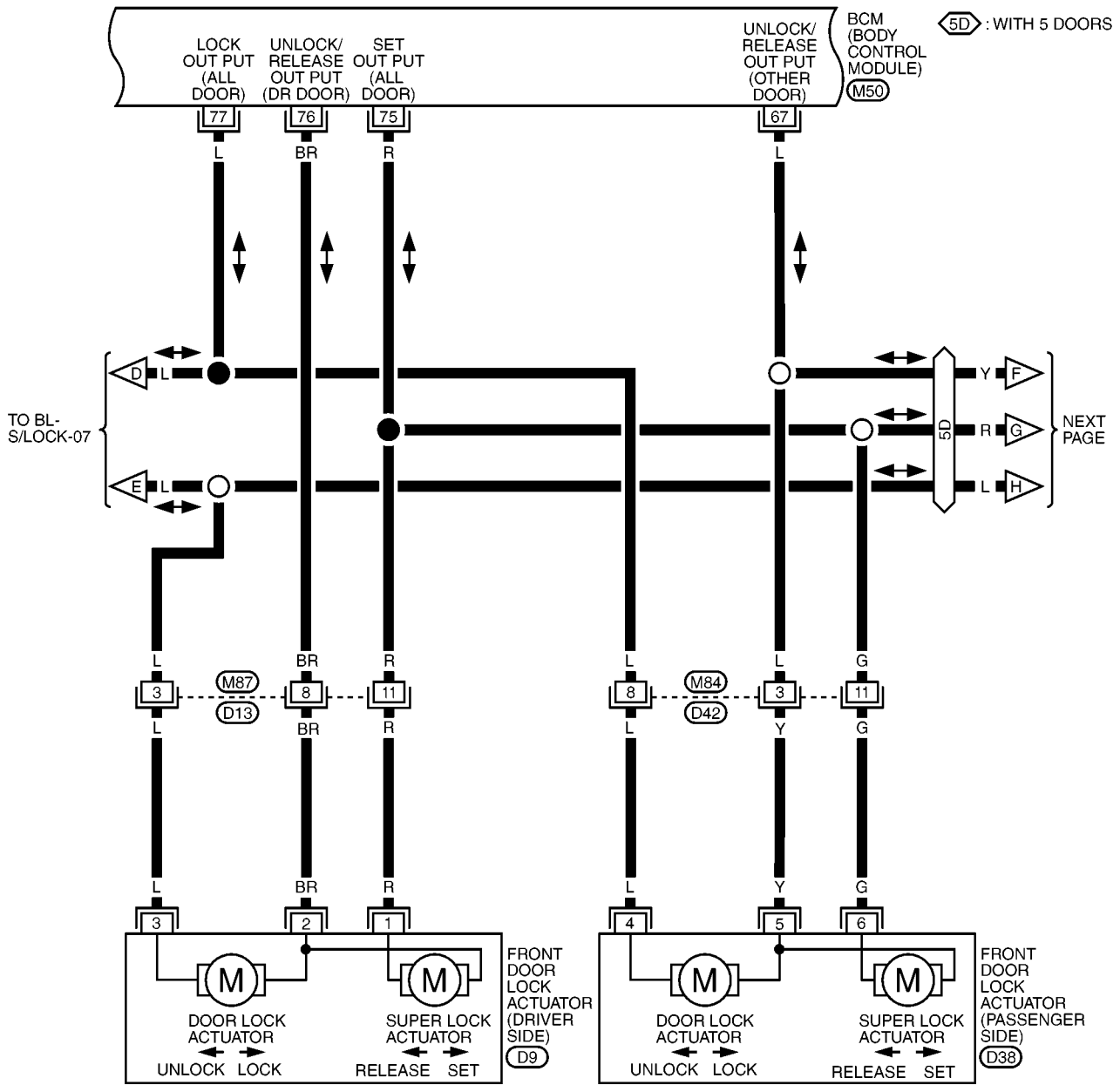
◀5D▶ : WITH 5 DOORS



MKWA0884E

POWER DOOR LOCK — SUPER LOCK —

BL-S/LOCK-10



65	66	67	68	69	70	71	72	73
74	75	76	77	78	79			

(M50)
B



1 2 3 4 5 6 (D9) (D38)
B B

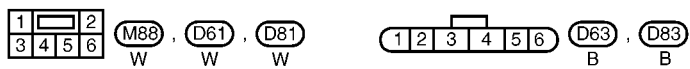
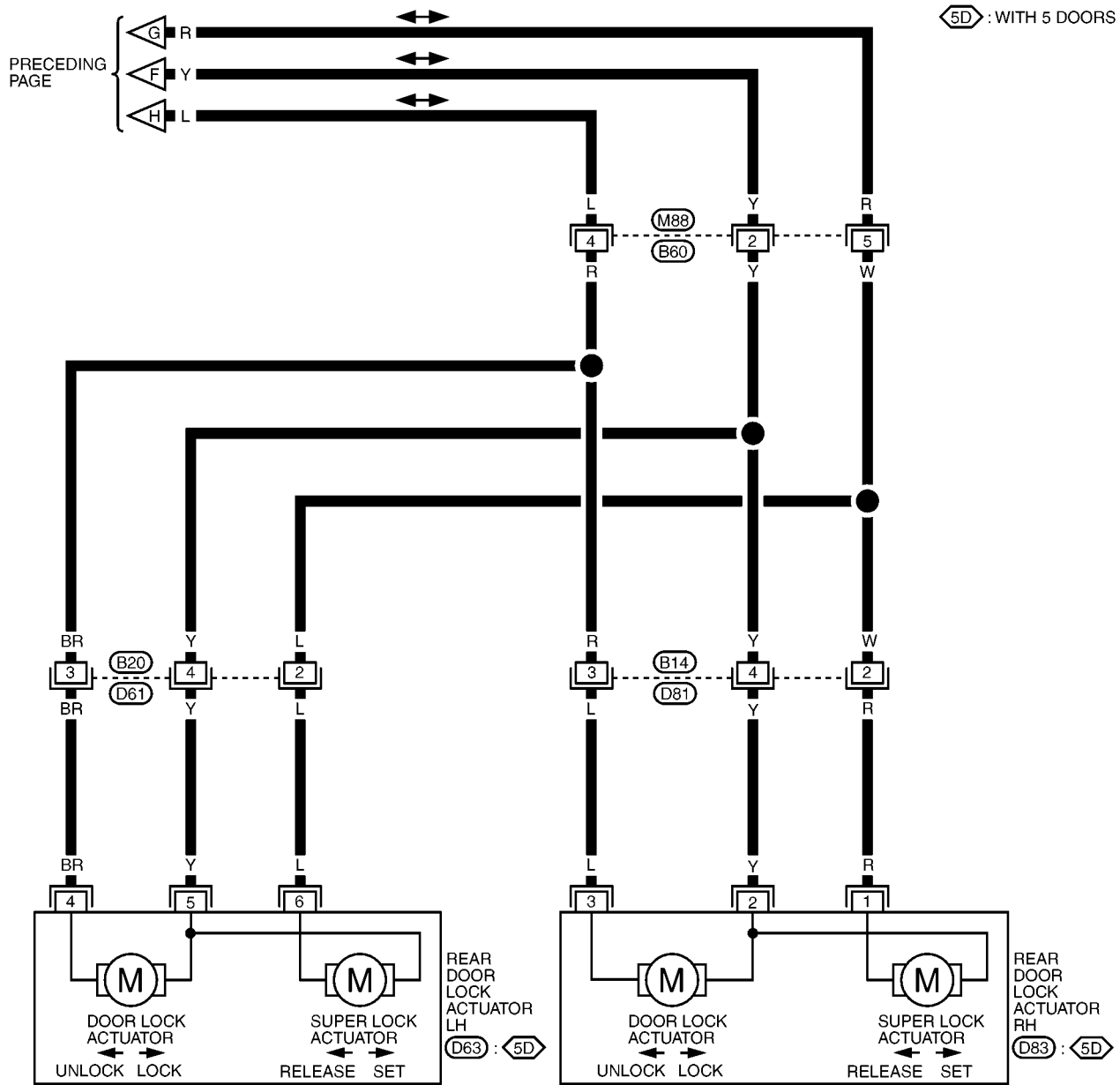
1	2	3	4	5
6	7	8	9	10

(D13) (D42)
W W

POWER DOOR LOCK — SUPER LOCK —

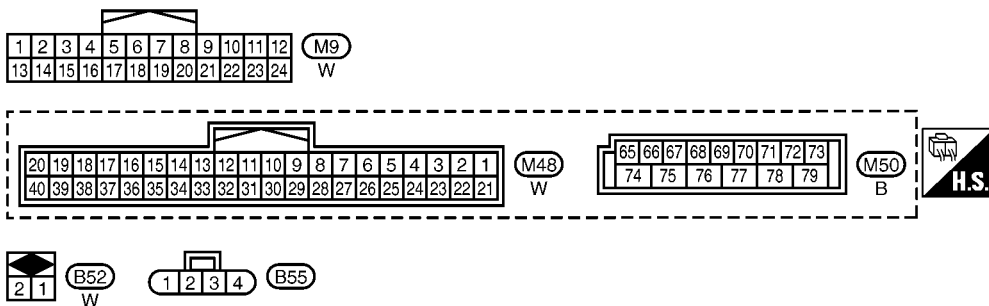
BL-S/LOCK-11

5D : WITH 5 DOORS



MIWA0283E

BL-S/LOCK-12



POWER DOOR LOCK — SUPER LOCK —

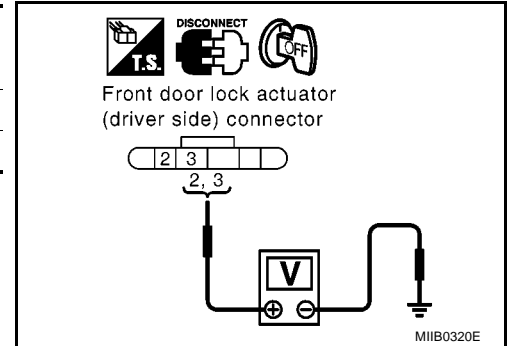
Door Lock Actuator Check

DRIVER SIDE To ESM

1. CHECK DOOR LOCK ACTUATOR

1. Turn ignition switch OFF.
2. Disconnect front door lock actuator (driver side) connector.
3. Door lock / unlock switch operate, check voltage between front door lock actuator (driver side) connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		
D9	2 (BR)	Ground	Unlock	0 → Battery voltage → 0
	3 (L)		Lock	0 → Battery voltage → 0



OK or NG

- OK >> Replace front door lock actuator (driver side).
 NG >> GO TO 2.

2. CHECK HARNESS CONTINUITY

1. Disconnect BCM connector.
2. Check continuity between BCM connector M50 terminal 76, 77 and front door lock actuator (driver side) connector D9 terminal 2, 3.

76 (BR) – 2 (BR) : Continuity should exist.

77 (L) – 3 (L) : Continuity should exist.

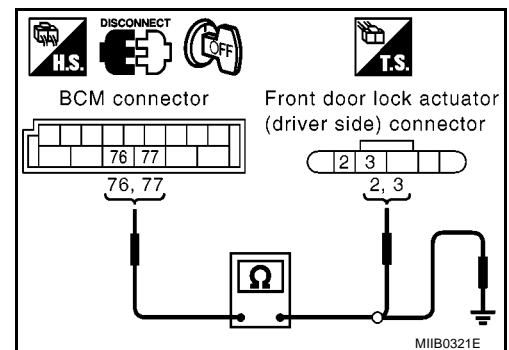
3. Check continuity between BCM connector M50 terminal 76, 77 and ground.

76 (BR) – Ground : Continuity should not exist.

77 (L) – Ground : Continuity should not exist.

OK or NG

- OK >> Check the condition of the harness and the connector.
 NG >> Repair or replace harness.



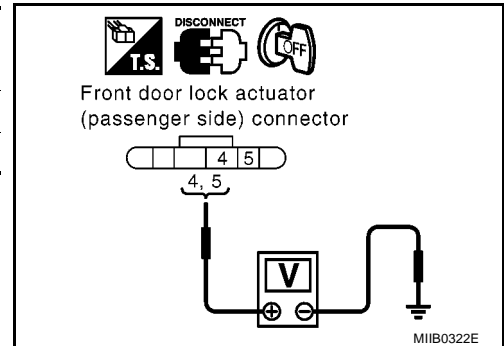
POWER DOOR LOCK — SUPER LOCK —

PASSENGER SIDE

1. CHECK DOOR LOCK ACTUATOR

1. Turn ignition switch OFF.
2. Disconnect front door lock actuator (passenger side) connector.
3. Door lock / unlock switch operate, check voltage between front door lock actuator (passenger side) connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		
D38	4 (L)	Ground	Lock	0 → Battery voltage → 0
	5 (Y)		Unlock	0 → Battery voltage → 0



OK or NG

- OK >> Replace front door lock actuator (passenger side).
 NG >> GO TO 2.

2. CHECK HARNESS CONTINUITY

1. Disconnect BCM connector.
2. Check continuity between BCM connector M50 terminal 67, 77 and front door lock actuator (passenger side) connector D38 terminal 4, 5.

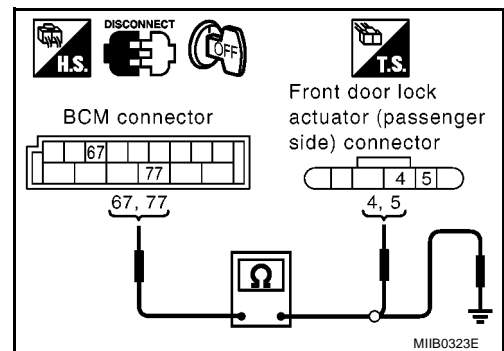
67 (L) – 5 (Y) : Continuity should exist.
77 (L) – 4 (L) : Continuity should exist.

3. Check continuity between BCM connector M50 terminal 67, 77 and ground.

67 (L) – Ground : Continuity should not exist.
77 (L) – Ground : Continuity should not exist.

OK or NG

- OK >> Check the condition of the harness and the connector.
 NG >> Repair or replace harness.



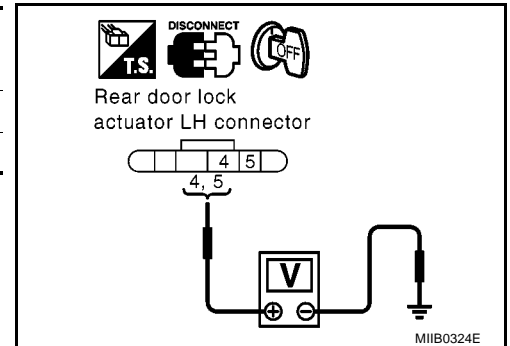
POWER DOOR LOCK — SUPER LOCK —

REAR LH SIDE

1. CHECK DOOR LOCK ACTUATOR

1. Turn ignition switch OFF.
2. Disconnect rear door lock actuator LH connector.
3. Door lock / unlock switch operate, check voltage between rear door lock actuator LH connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		
D63	4 (BR)	Ground	Lock	0 → Battery voltage → 0
	5 (Y)		Unlock	0 → Battery voltage → 0



OK or NG

- OK >> Replace rear door lock actuator LH.
 NG >> GO TO 2.

2. CHECK HARNESS CONTINUITY

1. Disconnect BCM connector.
2. Check continuity between BCM connector M50 terminal 67, 77 and rear door lock actuator LH connector D63 terminal 4, 5.

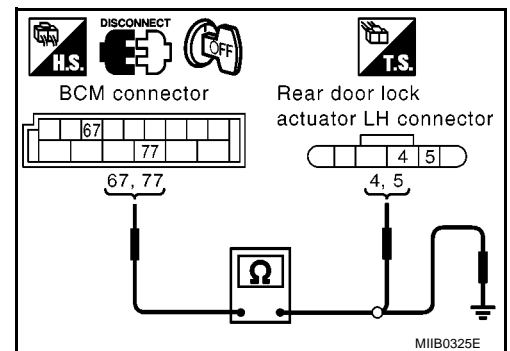
67 (L) – 5 (Y) : Continuity should exist.
77 (L) – 4 (BR) : Continuity should exist.

3. Check continuity between BCM connector M50 terminal 67, 77 and ground.

67 (L) – Ground : Continuity should not exist.
77 (L) – Ground : Continuity should not exist.

OK or NG

- OK >> Check the condition of the harness and the connector.
 NG >> Repair or replace harness.



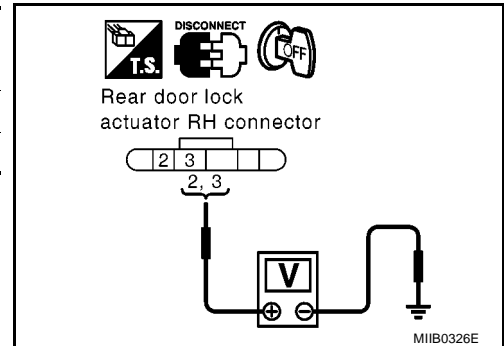
POWER DOOR LOCK — SUPER LOCK —

REAR RH SIDE

1. CHECK DOOR LOCK ACTUATOR

1. Turn ignition switch OFF.
2. Disconnect rear door lock actuator RH connector.
3. Door lock / unlock switch operate, check voltage between rear door lock actuator RH connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		
D83	2 (Y)	Ground	Unlock	0 → Battery voltage → 0
	3 (L)		Lock	0 → Battery voltage → 0



OK or NG

- OK >> Replace rear door lock actuator RH.
 NG >> GO TO 2.

2. CHECK HARNESS CONTINUITY

1. Disconnect BCM connector.
2. Check continuity between BCM connector M50 terminal 67, 77 and rear door lock actuator RH connector D83 terminal 2, 3.

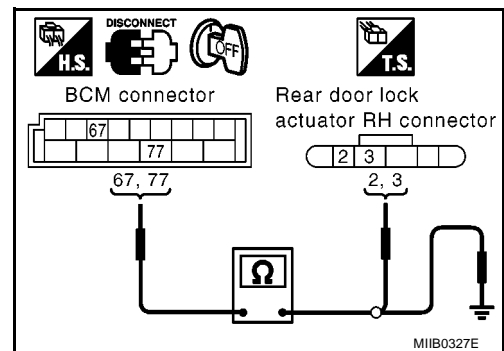
67 (L) – 2 (Y) : Continuity should exist.
77 (L) – 3 (L) : Continuity should exist.

3. Check continuity between BCM connector M50 terminal 67, 77 and ground.

67 (L) – Ground : Continuity should not exist.
77 (L) – Ground : Continuity should not exist.

OK or NG

- OK >> Check the condition of the harness and the connector.
 NG >> Repair or replace harness.



INTELLIGENT KEY SYSTEM

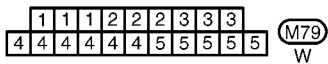
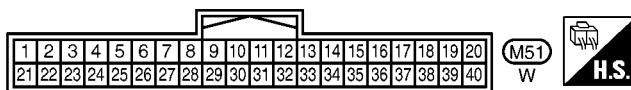
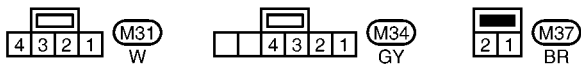
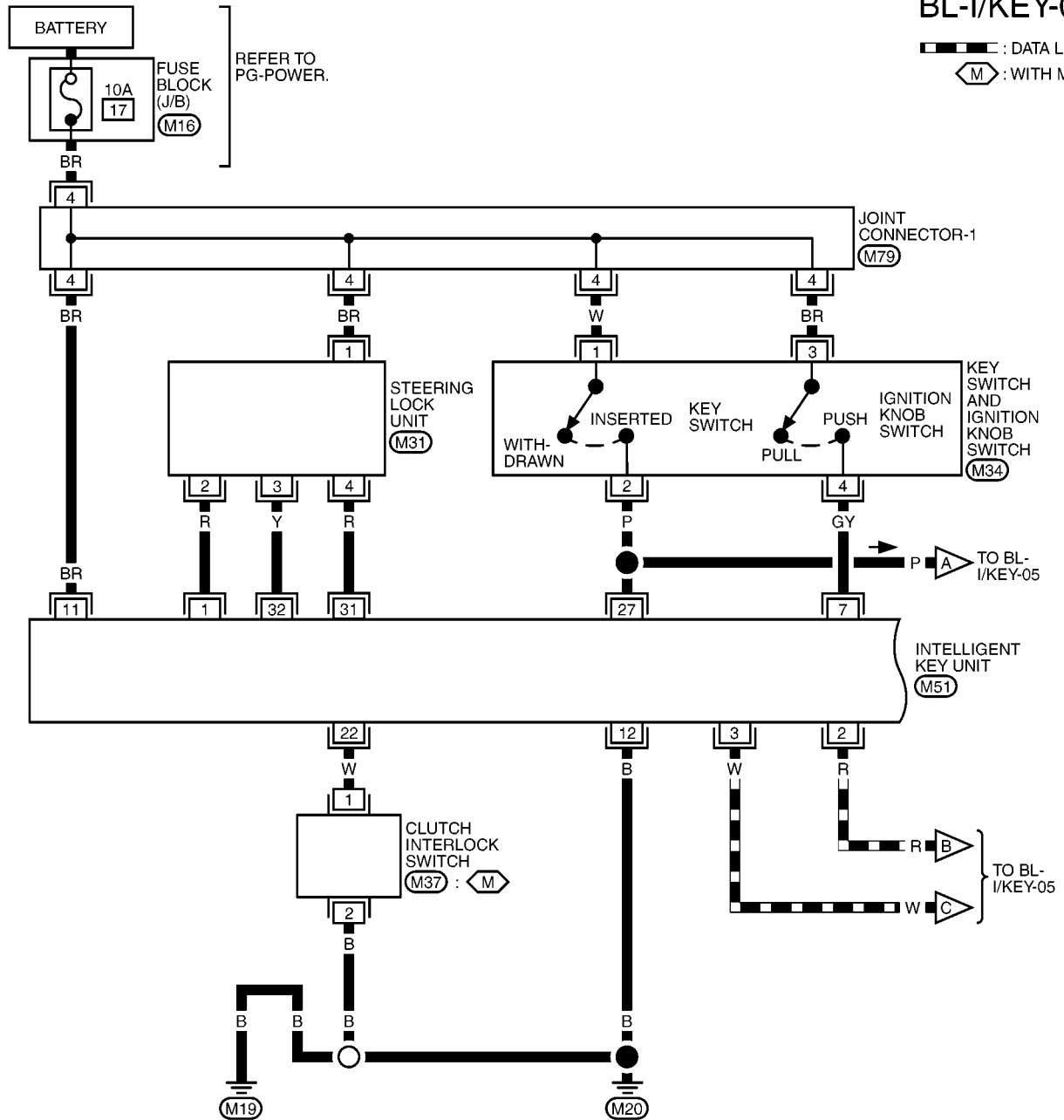
INTELLIGENT KEY SYSTEM

Wiring Diagram — I/KEY—

To ESM

BL-I/KEY-01

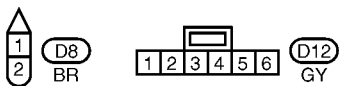
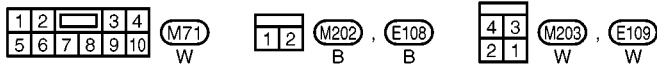
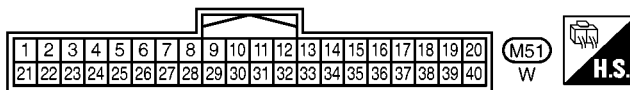
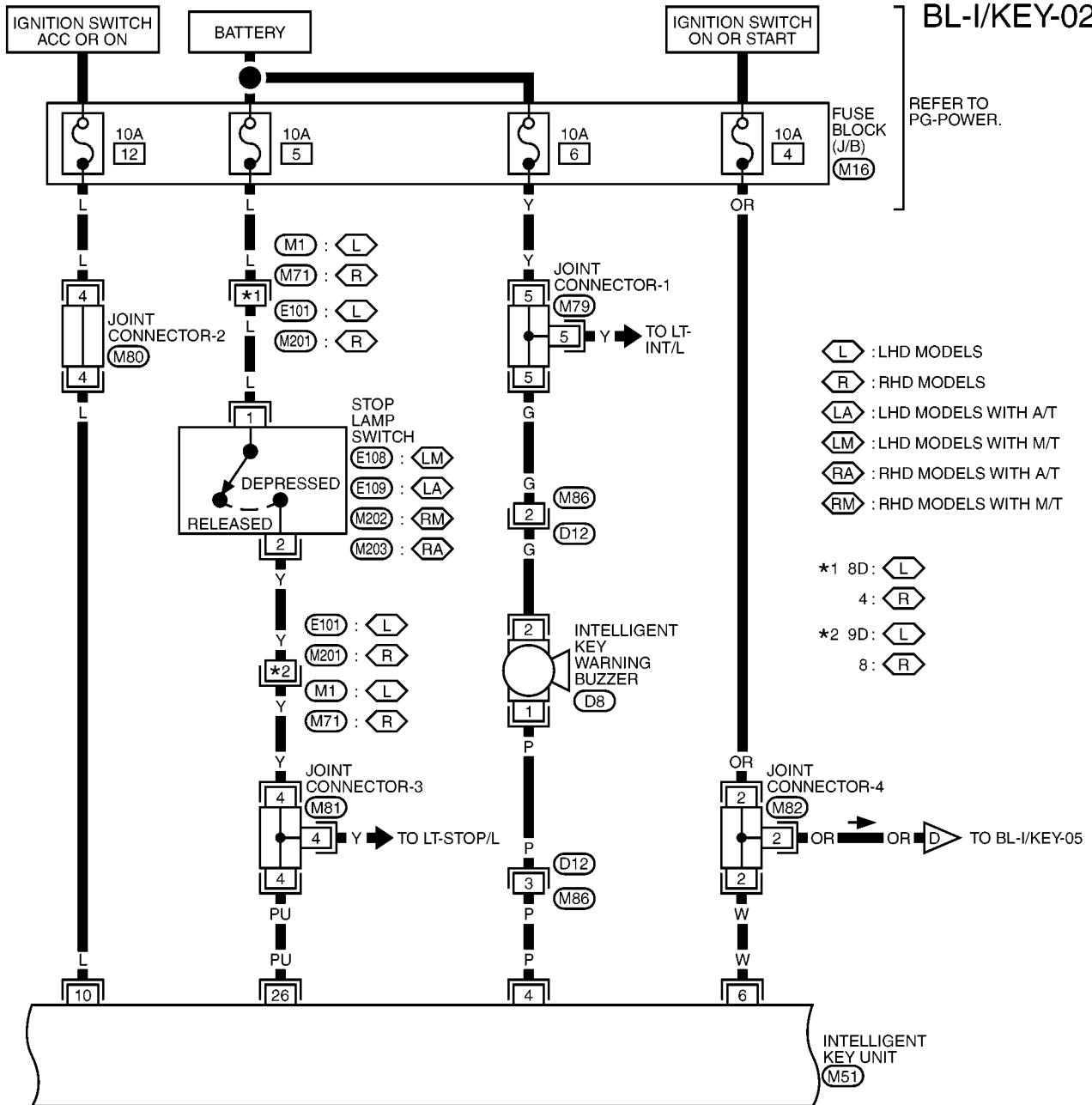
— : DATA LINE
 (M) : WITH M/T



REFER TO THE FOLLOWING.
 (M16) - FUSE BLOCK-
 JUNCTION BOX (J/B)

INTELLIGENT KEY SYSTEM

BL-I/KEY-02



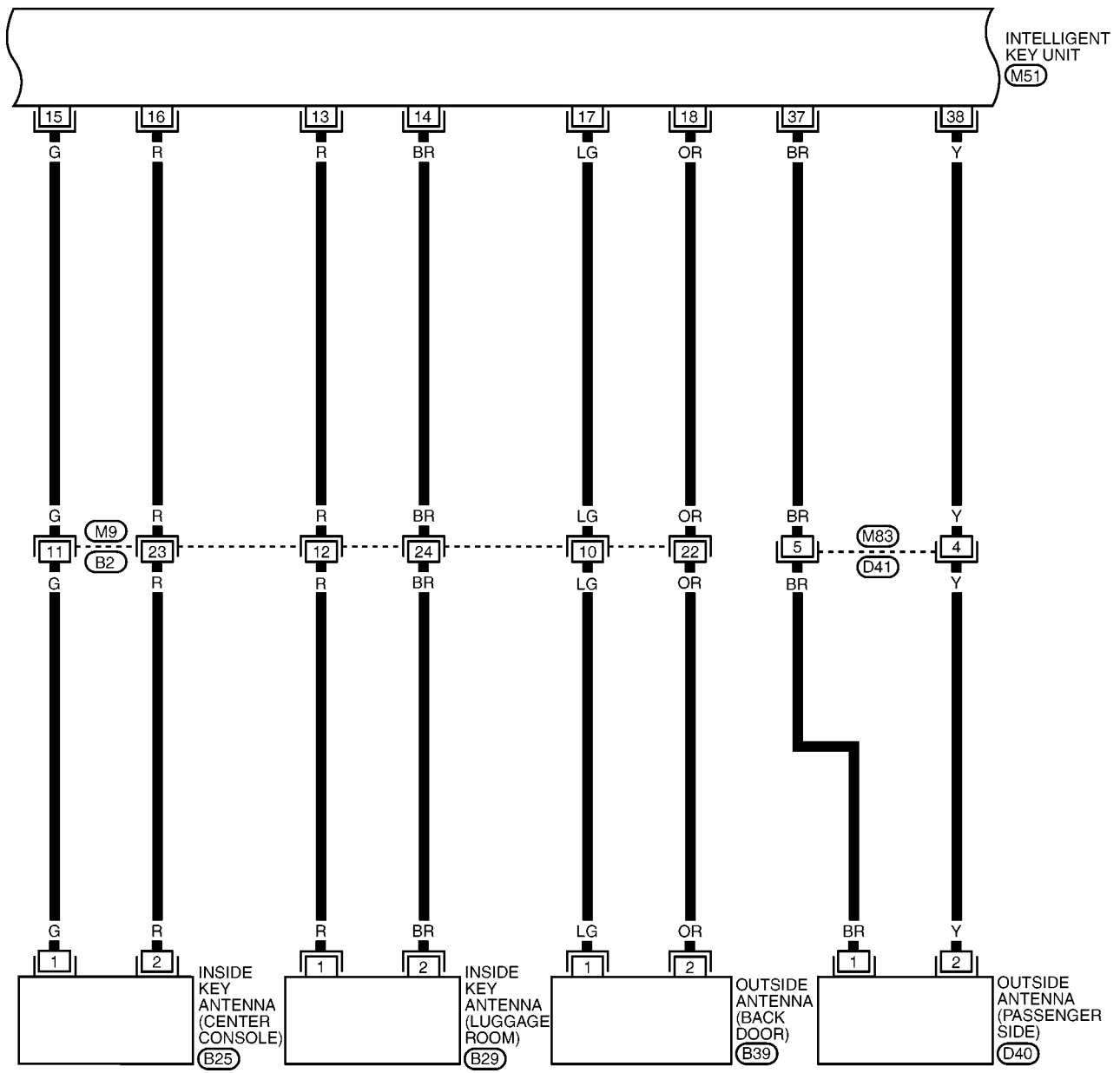
REFER TO THE FOLLOWING.

- (M1) -SUPER MULTIPLE JUNCTION (SMJ)
- (M16) -FUSE BLOCK-JUNCTION BOX (J/B)
- (M79), (M80), (M81), (M82) -JOINT CONNECTOR (J/C)

MIWA0284E

INTELLIGENT KEY SYSTEM

BL-I/KEY-03



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

(M9)
W

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	36	37	38	39	40

(M51)
W



B25
GY



B29
BR



B39
GY



D40
W



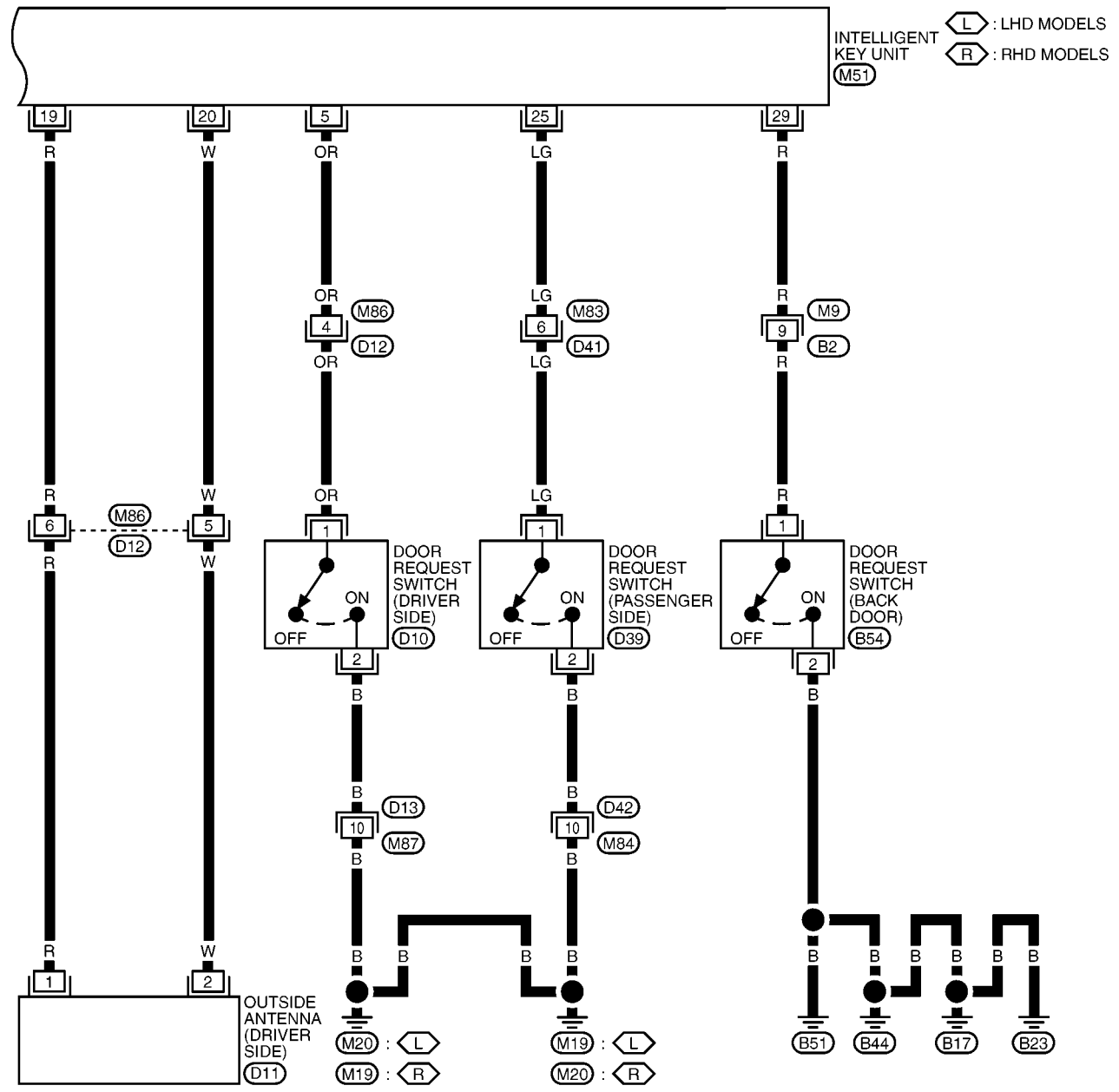
D41
GY



M51
W

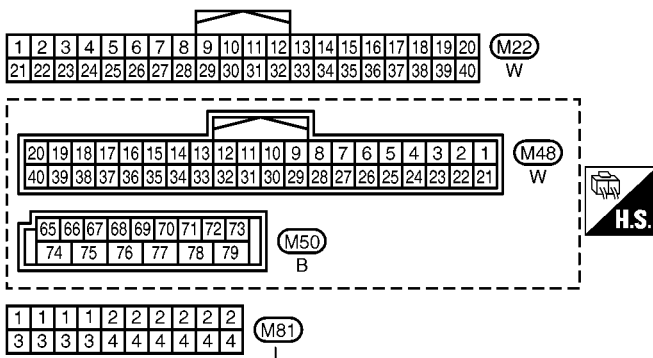
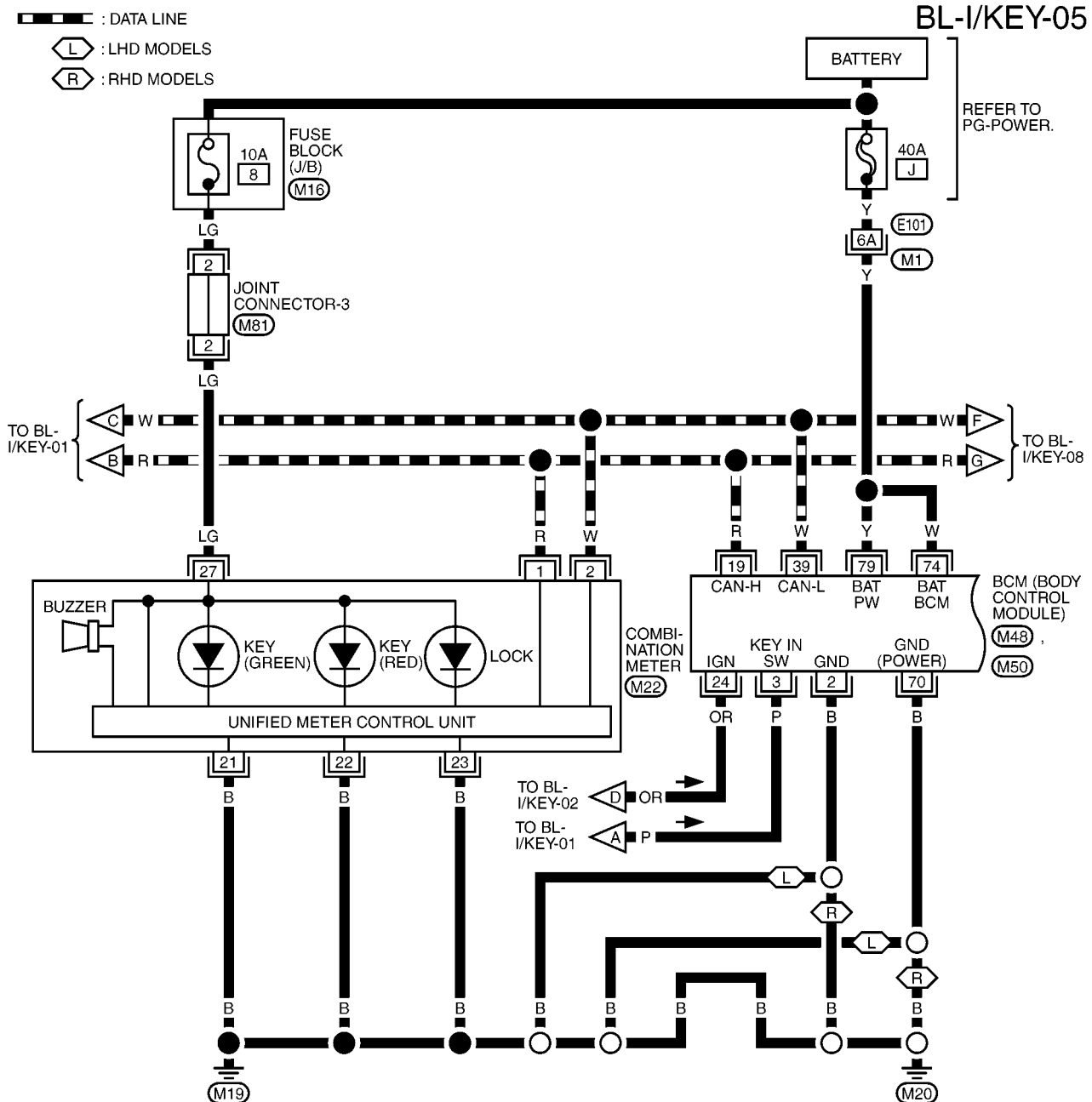
INTELLIGENT KEY SYSTEM

BL-I/KEY-04



MIWA0286E

INTELLIGENT KEY SYSTEM



REFER TO THE FOLLOWING.

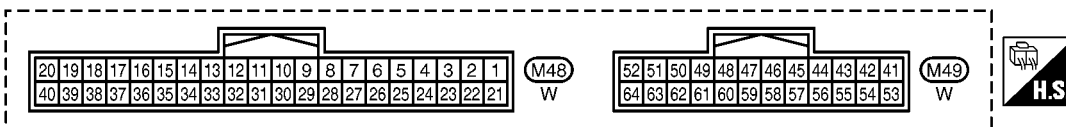
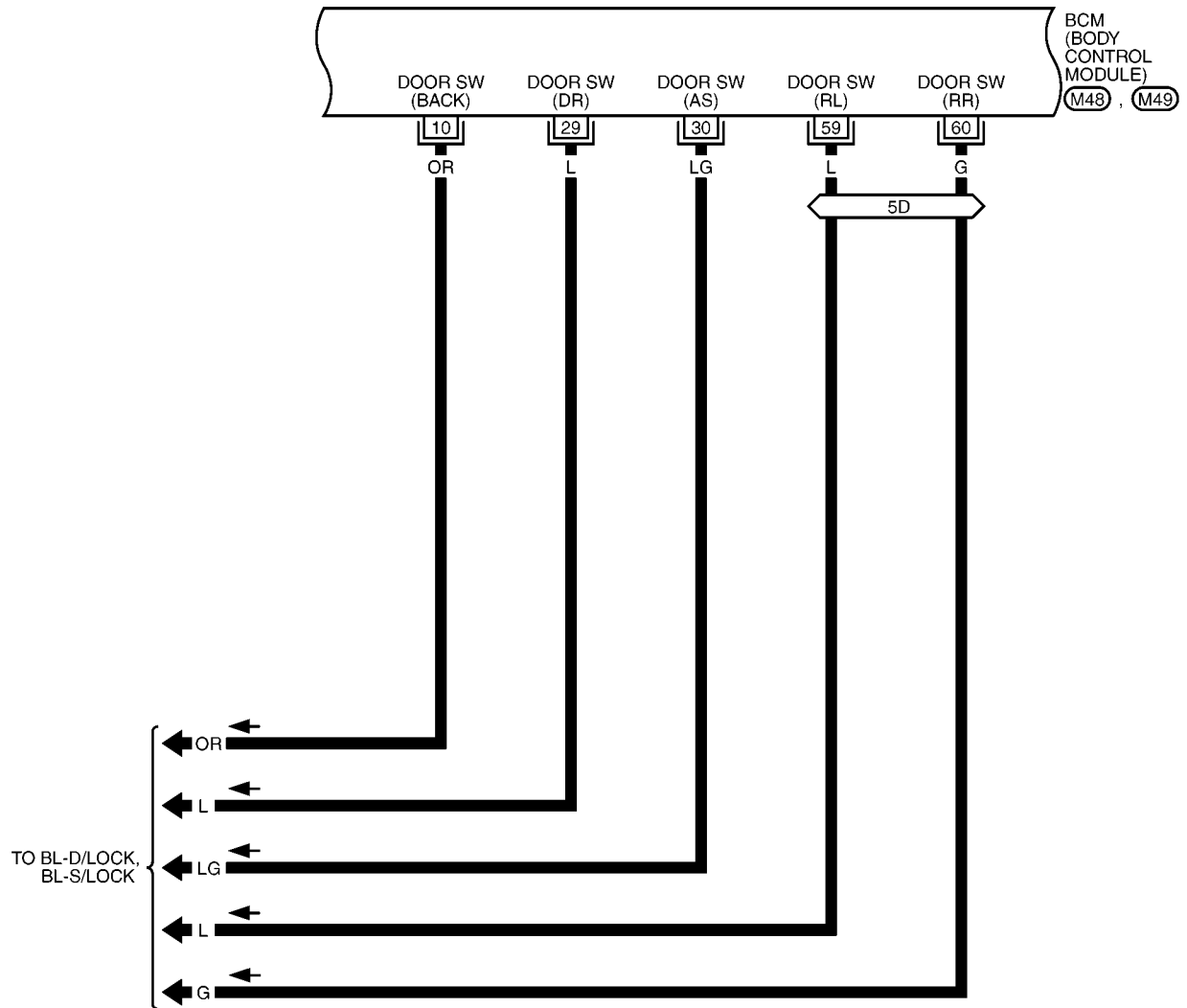
(M1) -SUPER MULTIPLE JUNCTION (SMJ)

**(M16) - FUSE BLOCK-
JUNCTION BOX (J/B)**

INTELLIGENT KEY SYSTEM

BL-I/KEY-06

5D : WITH 5 DOORS

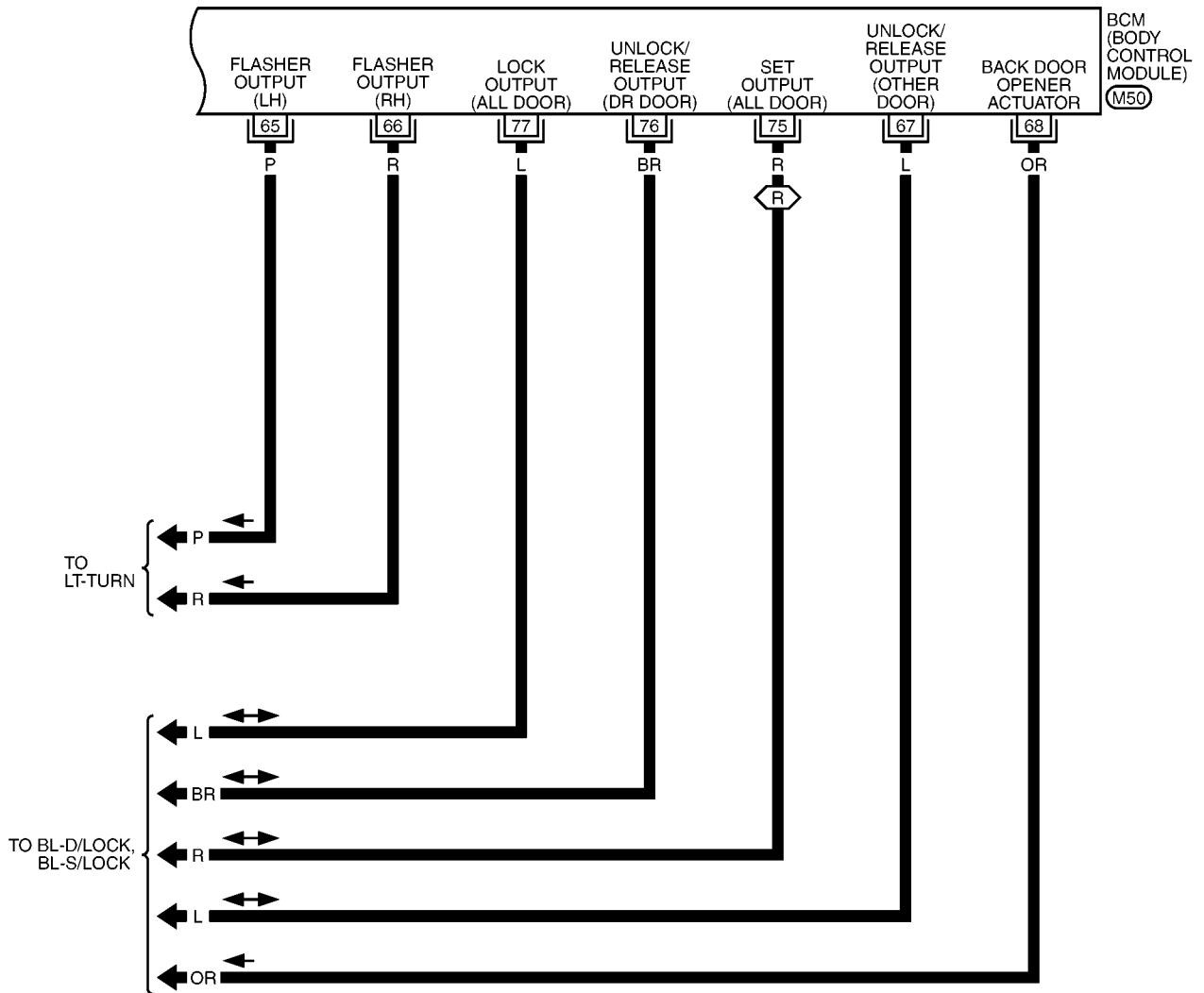


MKWA1412E

INTELLIGENT KEY SYSTEM

BL-I/KEY-07

⬡R⬡ : RHD MODELS



65	66	67	68	69	70	71	72	73
74	75	76	77	78	79			

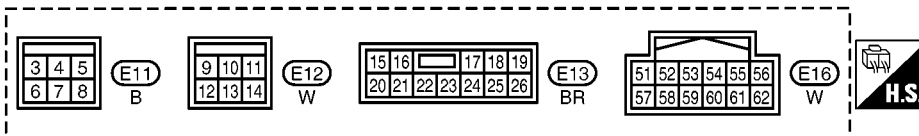
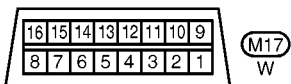
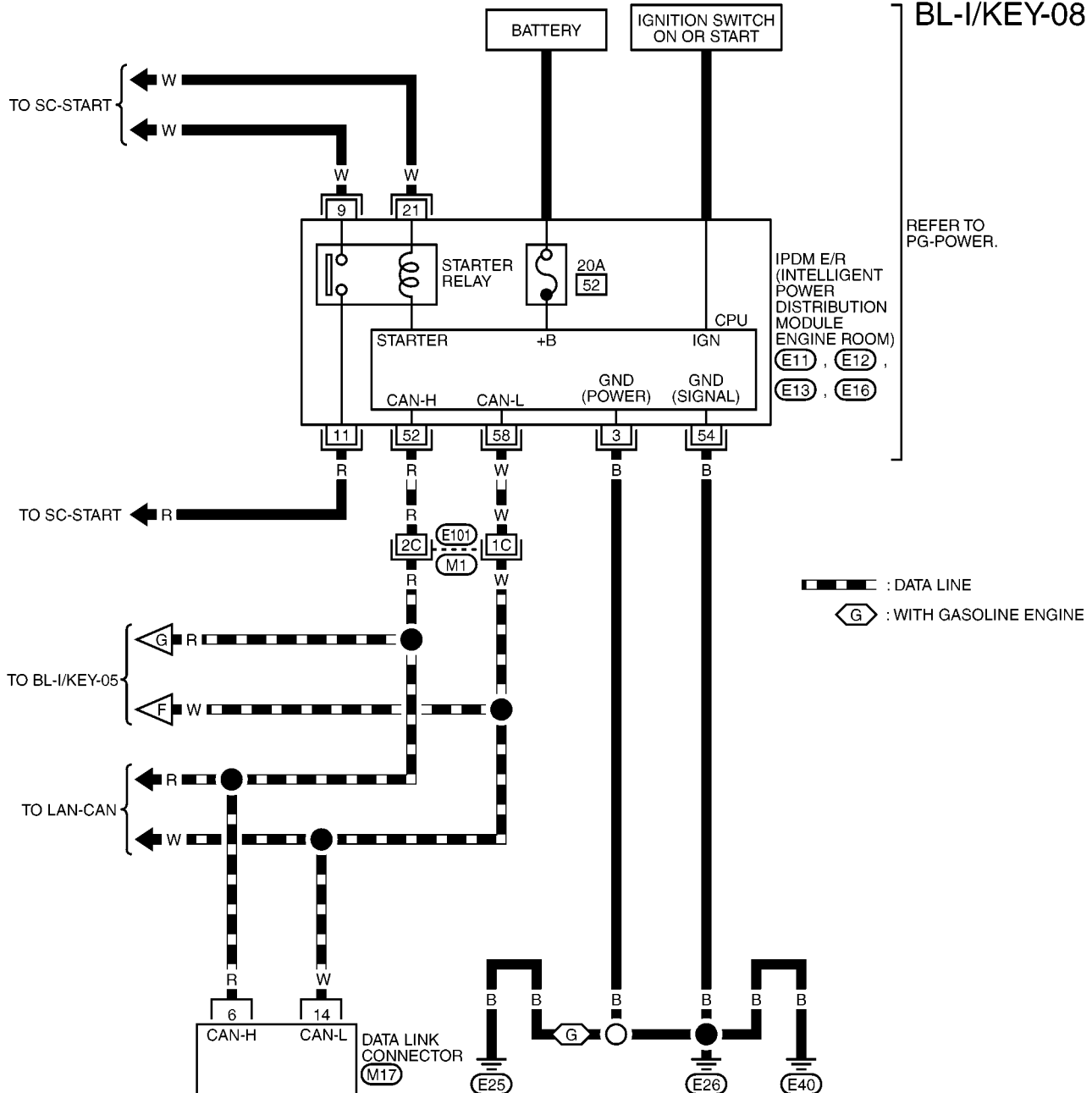
(M50)
B



MKWA1413E

INTELLIGENT KEY SYSTEM

BL-I/KEY-08



REFER TO THE FOLLOWING.

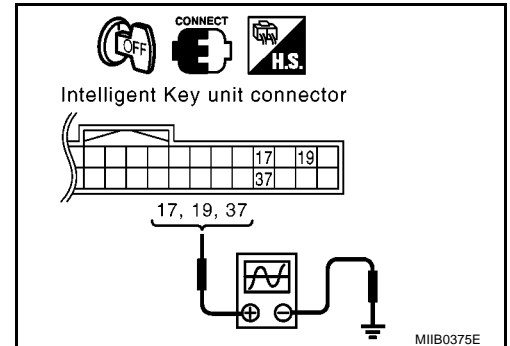
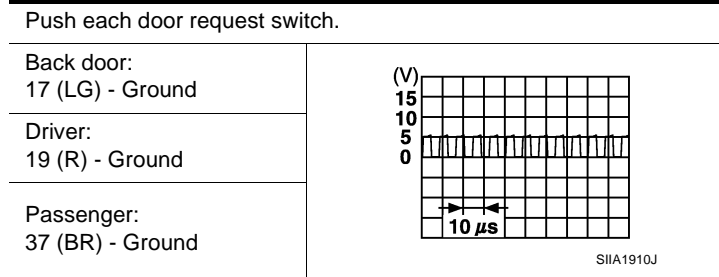
(M1) -SUPER MULTIPLE JUNCTION (SMJ)

INTELLIGENT KEY SYSTEM

Check Outside Antenna To ESM

1. OUTSIDE ANTENNA POWER SUPPLY INSPECTION

Operate each door request switch (push), and use an oscilloscope to check voltage waveform of harness between Intelligent Key unit connector M51 terminals 17 (back door), 19 (driver door), and 37 (passenger door) and ground.



OK or NG

- OK >> Outside antenna circuit is OK.
 NG >> GO TO 2.

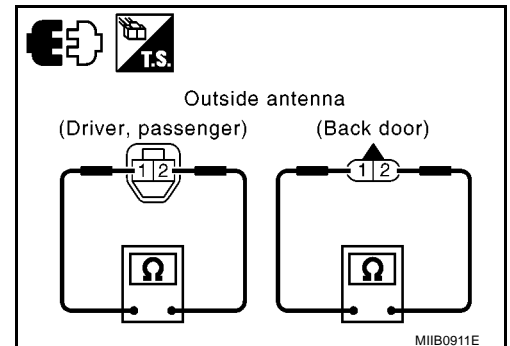
2. OUTSIDE ANTENNA OPERATION INSPECTION

1. Disconnect each door antenna connector.
2. Check continuity between each door antenna connector D11 (driver door), B39 (back door), D40 (passenger door) terminals 1 and 2.

1 - 2 : Continuity should exist.

OK or NG

- OK >> GO TO 3.
 NG >> Replace outside antenna.



INTELLIGENT KEY SYSTEM

3. OUTSIDE ANTENNA CIRCUIT INSPECTION

1. Disconnect Intelligent Key unit connector.
2. Check continuity between each outside antenna connector D11 (driver door), B39 (back door), D40 (passenger door) terminals 1 and 2 and Intelligent Key unit connector M51 terminals 17, 18, 19, 20, 37, and 38.

Back door	1 (LG) - 17 (LG): Continuity should exist.
	2 (OR) - 18 (OR): Continuity should exist.
Driver door	1 (R) - 19 (R): Continuity should exist.
	2 (W) - 20 (W): Continuity should exist.
Passenger door	1 (BR) - 37 (BR): Continuity should exist.
	2 (Y) - 38 (Y): Continuity should exist.

3. Check continuity between each door antenna connector terminals 1 and 2 and ground.

1 - Ground : Continuity should not exist.

2 - Ground : Continuity should not exist.

OK or NG

OK >> Replace Intelligent Key unit.

NG >> Replace harness between door antenna and Intelligent Key unit.

