



معاونت فنی و مهندسی

**راهنمای تعمیرات**

**معرفی و جانمایی دسته سیمها و**

**نقشه‌های الکتریکی**

**هایما S7 توربوشارژر**

کلید مدرک : ۱۶۴۵۱

زمستان ۱۳۹۵



# راهنمای معرفی و جانمایی دسته سیمها و نقشه های الکتریکی خودروی هایما (S7) توربوشارژر



## فهرست

فارسی	code	English
اتصالات بدنه	Y	Ground Point
شماتیک دسته سیم ها	W-1 W-2	Electric Harness Schematic
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سیستم start/stop	A-2	Start-stop Start-up System
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چراغهای جانبی	E-7	License Plate Lamp/Position Lamp/ Tail Lamp/Daytime Running Lamp
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چراغ دنده عقب	F-2	Reversing Lamp
چراغ ترمز	F-3	Brake Lamp
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کمپرسور کولر	G-2	Compressor Control System



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Rear Vision System .....	H-2 .....	سیستم دوربین دنده عقب .....
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Power Window System .....	K-1 .....	سیستم Power window .....
Remote And Central Door Lock System .....	K-2a K-2b K-2c K-2d .....	سیستم قفل مرکزی .....
Exterior Rearview Mirror Heater/ Power Exterior Rearview Mirror .. L .....		آینه های جانبی .....
Sunroof And Auto-dimming Interior Rearview Mirror .....	M .....	سانروف و آینه وسط .....
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Body Control System (BCM) .....	N-2a N-2b .....	نود BCM .....
Power Supply System (Without Smart Key) .....	Z-1a Z-1b .....	تغذیه سیستم های مختلف (با کلید هوشمند) .....
Power Supply System (With Smart Key) .....	Z-2a Z-2b .....	تغذیه سیستم های مختلف (بدون کلید هوشمند) .....
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Electric Power Steering System (EPS-II) .....	Q .....	سیستم فرمان الکترونیکی .....
Airbag/Seat Belt Pretensioner System(1.8T) .....	S .....	کیسه هوا و کمربند پیش کشنده .....
Anti-theft System(1.8T) .....	T .....	سیستم ضد سرقت .....
Diagnosis Link Connector (DLC)(1.8T) .....	U-1 .....	کانکتور عیب یابی .....
Communication Wire (CAN) (1.8T) .....	U-2a U2b .....	شبکه CAN .....
Fuse Box Wiring Diagram (1.8T) .....	FB .....	فیوزها و رله های محفظه موتور .....
Common Connector List (1.8T) .....	X-1 X-2 X-3 X-4 .....	اینتر کانکتورها .....
Junction Box Wiring Diagram (1.8T) .....	JB .....	فیوزهای داخل اتاق .....

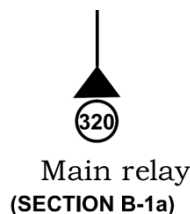


## نقشه خوانی:

استاندارد این نقشه های الکتریکی بگونه ای است که نقشه های شماتیک هر سیستم را به صورت جداگانه ترسیم نموده و در پایین هر صفحه مشخصات کانکتور های مورد استفاده در آن نقشه آورده شده است. همچنین صفحه بعدی هر نقشه الکتریکی نقشه جانمایی اینترکانکتور ها و کانکتور های مورد استفاده در آن نقشه ترسیم شده است. به غیر از نقشه های الکتریکی و نقشه جانمایی قطعات، نقشه های فیوز ها و رله ها و همچنین اینترکانکتور ها نیز به صورت جداگانه ترسیم شده و در انتهای مستند آورده شده است.

هر نقشه با یک کد مشخص می شود و برای شناسایی هر نقشه نیاز به کد آن داریم. کدها به صورت حروف لاتین و در اکثر آنها به همراه یک عدد می باشد. نقشه ها بر اساس ترتیب حروف الفبای لاتین مرتب شده اند. بنابراین جهت یافتن هر نقشه در کتاب به کد احتیاج داریم. در هر نقشه با توجه به نیاز آن نقشه ممکن است به چندین نقشه دیگر احتیاج داشته باشیم که نقشه های مورد نیاز با ذکر کد آنها در هر نقشه آورده شده است. در ادامه جدول کلی معرفی نقشه های تمامی سیستم ها و نقشه های مرتبط با هر سیستم آورده شده است. تمامی ارتباطات الکتریکی به صورت تجمیع شده در صفحه های W-1 و W-2 آمده است.

ارتباط نقشه ها با یکدیگر در هر نقشه توسط یک عدد داخل یک دایره و نام قطعه مربوط و در زیر آن کد نقشه مرتبط نوشته شده است. به طور مثال در نقشه سیستم Start-Stop علامت ذیل نشان دهنده ارتباط بخشی از نقشه با نقشه ای با کد B-1a و قطعه رله اصلی (Main relay) می باشد :



در نقشه با کد B-1a که یکی از نقشه های سیستم سوخت رسانی و موتور میباشد نیز همین شماره (320) جهت ردیابی و قطعه مرتبط (سوئیچ Start-Stop) در نقشه سیستم Start-Stop با کد A-2 نوشته شده است.

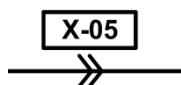




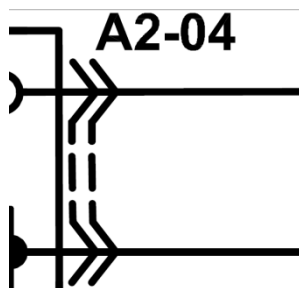
بر روی هر سیم کدی وجود دارد که نشان دهنده رنگ و دسته سیم آن می باشد. حروف خارج از پرانتز یعنی در این مثال B/W نشان دهنده رنگ سیم و همچنین حروف داخل پرانتز نشان دهنده دسته سیم می باشد. جدول معرفی کد رنگ ها و دسته سیم ها در صفحات اولیه کتاب آورده شده است.

#### ————B/W(EM)————

در مسیر سیم ها برای نشان دادن وجود اینترکانکتور از علامت زیر استفاده می شود. در این کتاب کد X نشاندهنده اینترکانکتور می باشد. به طور مثال اینترکانکتور X-05 مربوط به ارتباط بین دسته سیم EM (دسته سیم بزرگ موتور) و دسته سیم جلو آمپر می باشد. جدول معرفی تمامی اینترکانکتور ها در صفحات آخر کتاب با کد های X-1 تا X-4 آمده است.

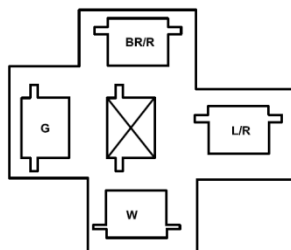


برای نشان دادن کانکتور ها از علامتهایی نظیر علامت زیر استفاده می شود. به طور مثال علامت زیر نشان دهنده آنست که کد کانکتور قطعه مذکور A2-04 می باشد و هر دو سیم بالایی و پایینی در آن قرار دارند. مشخصات کلی هر کانکتور، در پایین صفحه همان نقشه ای که در آن بکار رفته است وجود دارد.

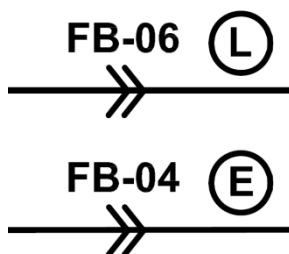


در نقشه های دسته سیم از شماره سیم استفاده نشده است و جهت ردیابی هر مسیر تنها به رنگ سیم و محل قرار گیری در کانکتور بسنده شده است. مانند شکل زیر که کانکتور A2-04 را که مربوط به رله Start-Stop می باشد را نشان داده است.

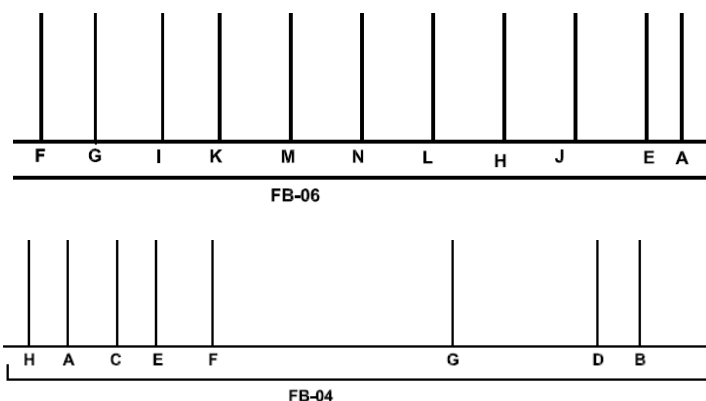
A2-04 Start-stop control relay (EM)



جهت ردیابی ارتباطات سیم ها در نقشه های فیوزها و رله ها داخل محفظه موتور و اتاق (JB و FB) بایستی از علامت ها زیر استفاده نمود.









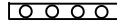

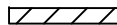



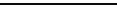
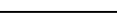

به طور مثال خط ارتباط بالایی نشاندهنده این است که به نقشه FB در بخش FB-06 خط L و برای ارتباط پایینی در نقشه FB در بخش FB-04 خط E مراجعه گردد.



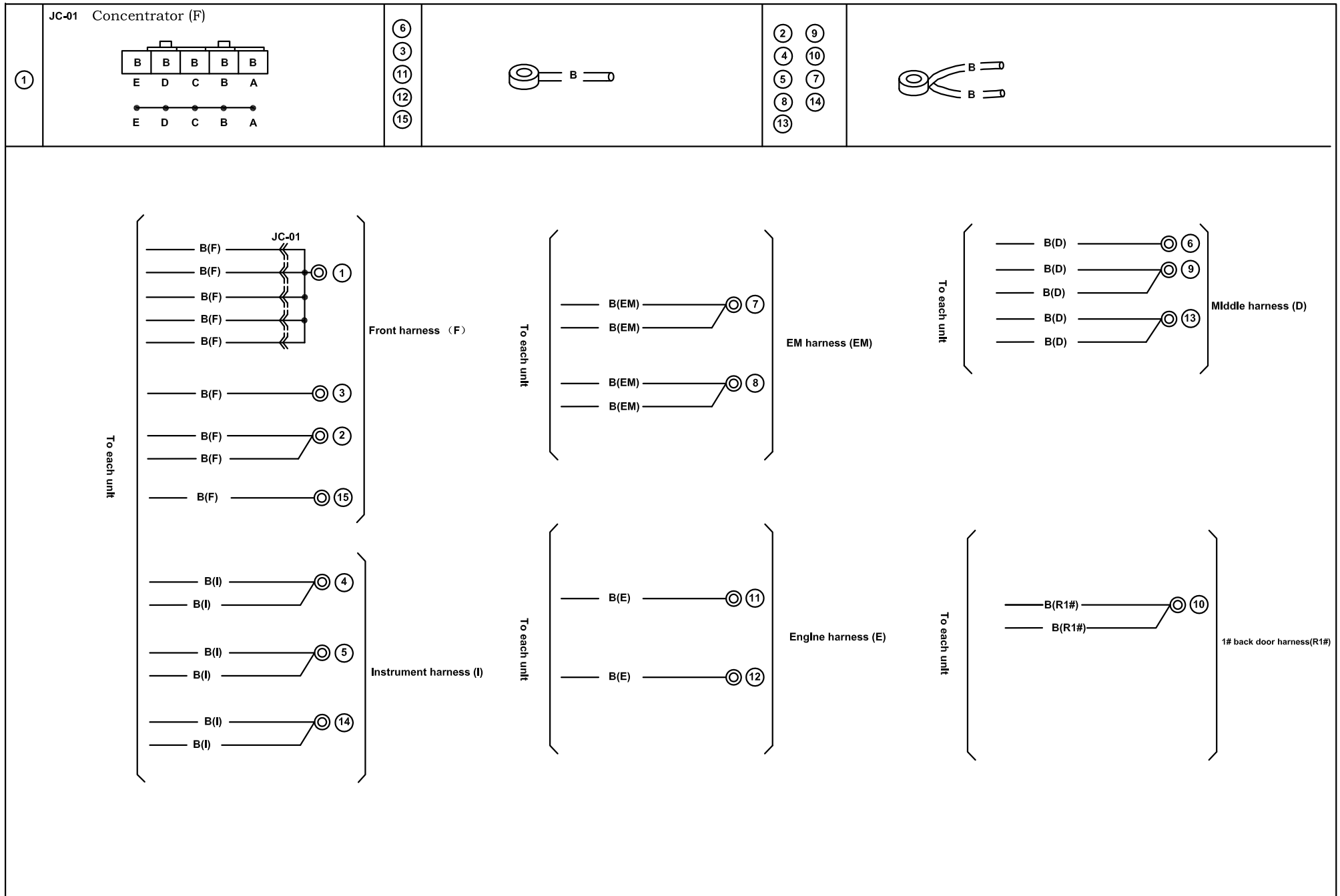
## General Wire Color Code




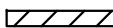
Color	Code	Color	Code
Black	B	Light Green	LG
Brown	BR	Orange	O
Dark blue	DL	Pink	P
Dark Green	DG	Red	R
Gray	GR	Sky Blue	SB
Green	G	Violet	V
Light blue	LB	White	W
Blue	L	Yellow	Y

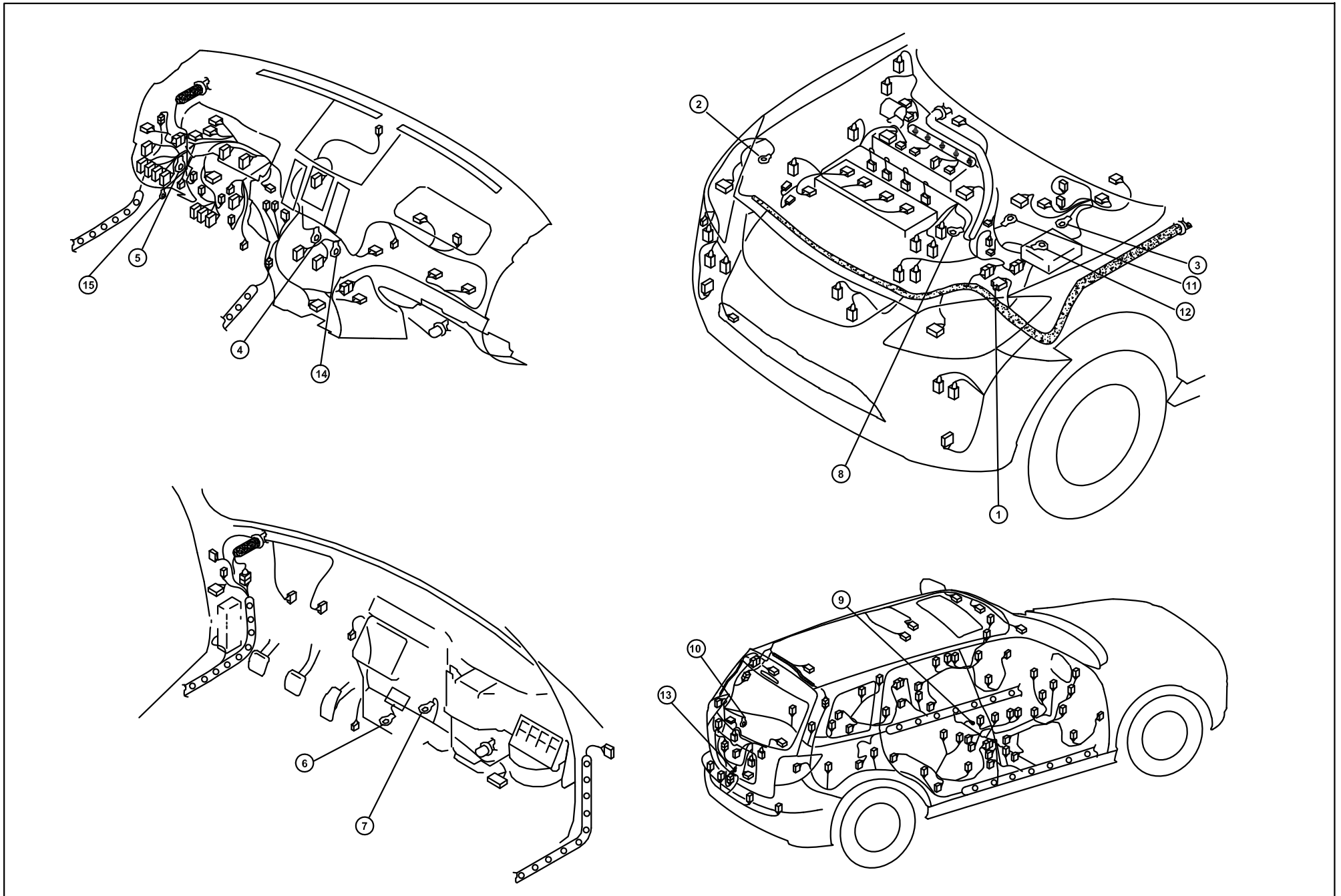
## Harness symbol

Name	Symbol	Name	Symbol
Front harness	F 	Grounding harness	EA 
Engjne harness	E 	Interior harness	IN 
EM harness	EM 	Reversing radar harness	RA 
Middle harness	D 	2# Back door harness	R2# 
Rear harness	R 	1# Back door harness	R1# 
Front left door harness	DR1 		
Front right door harness	DR2 		
Rear left door harness	DR3 		
Rear right door harness	DR4 		
Instrument harness	I 		

Ground point

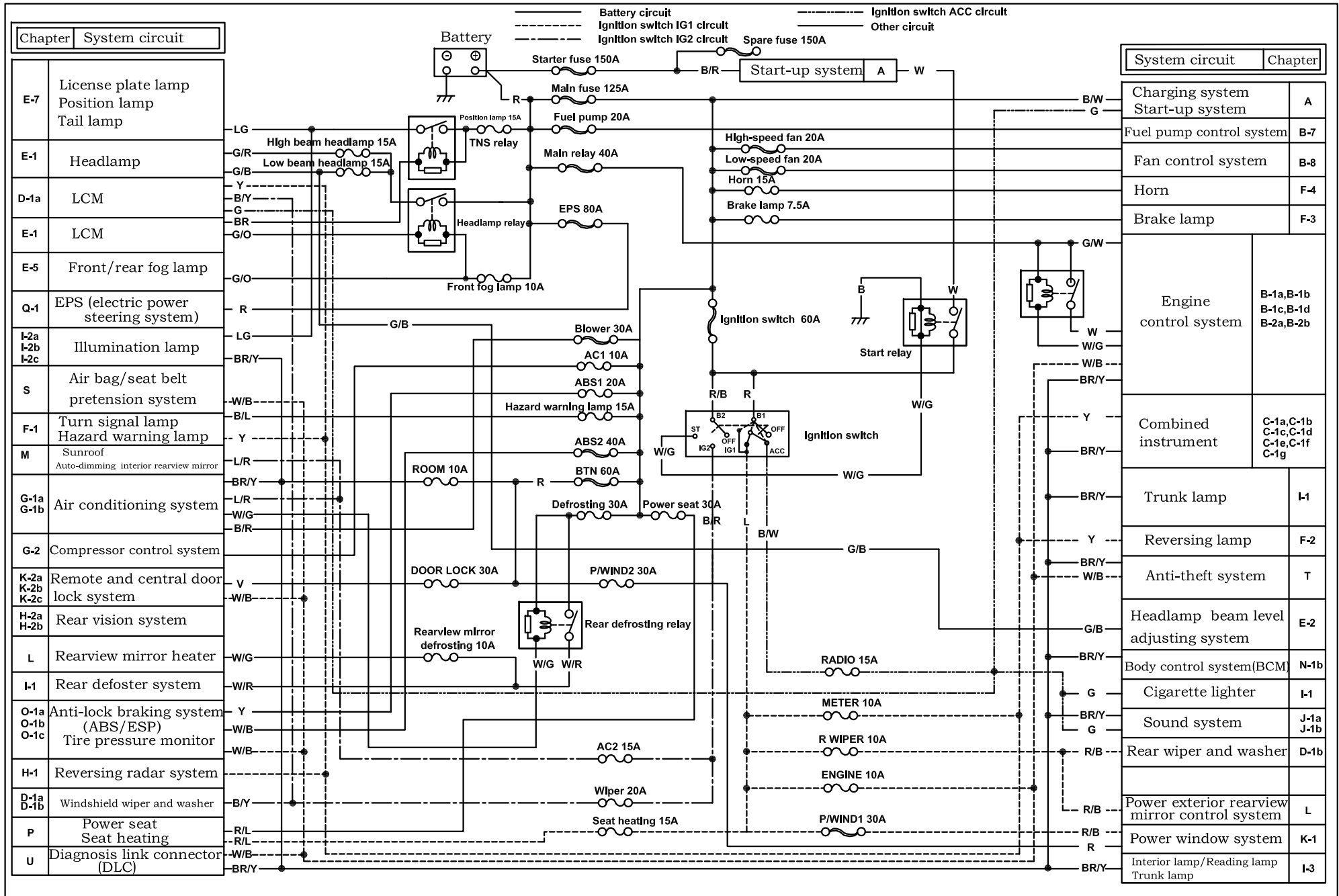


Harness mark:  (F)  (E)  (D)  (R)



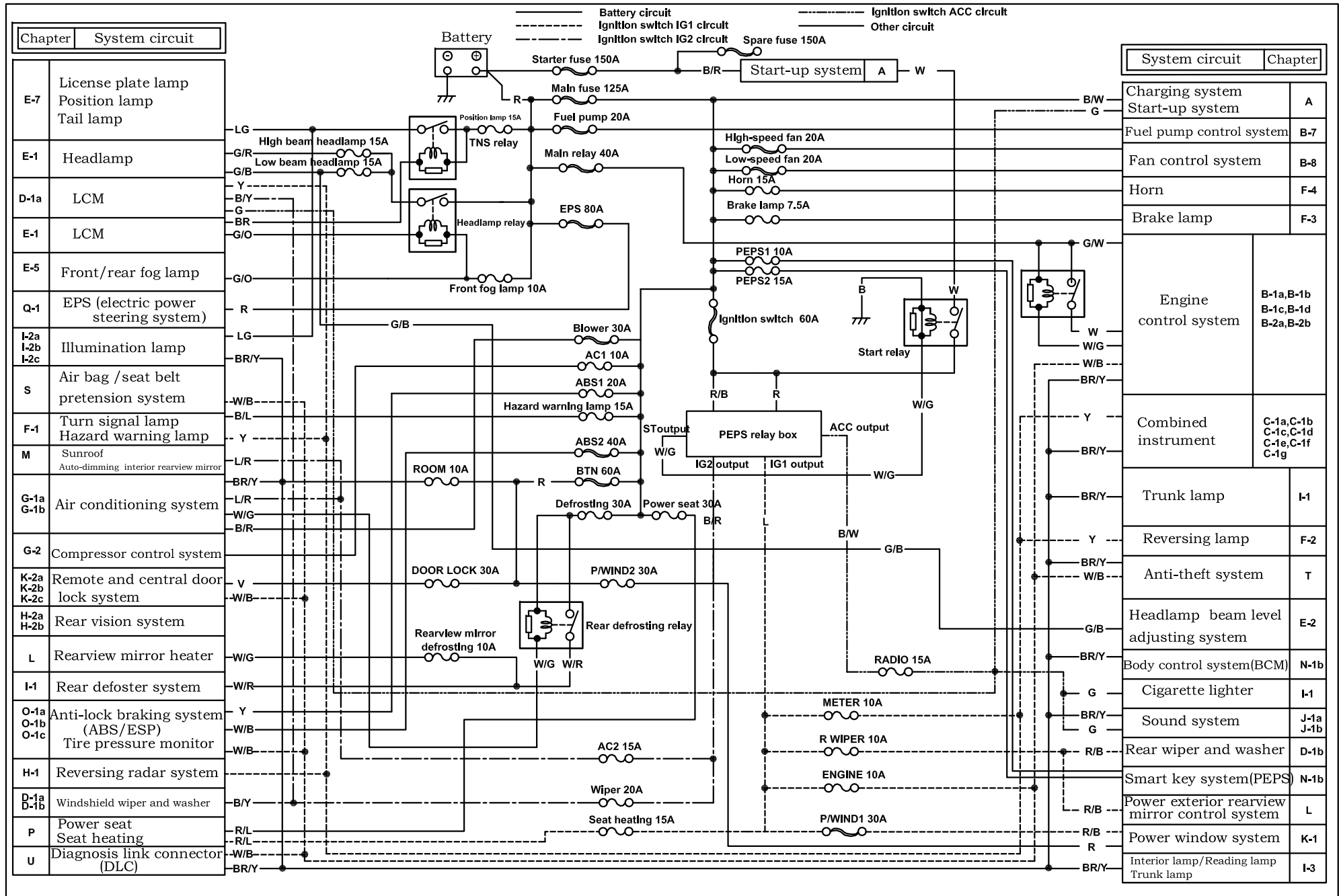
## Electric harness schematic (without smart key)

W-1

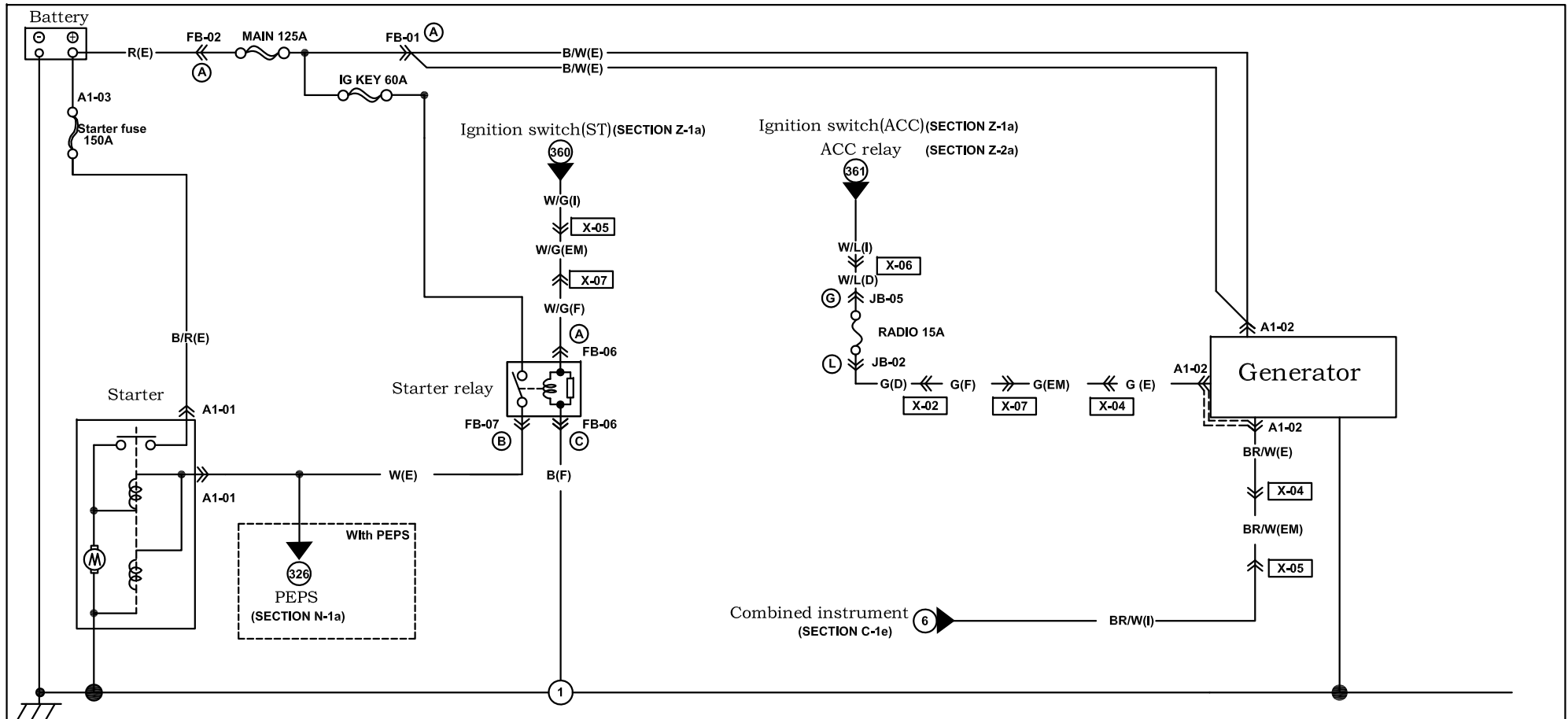




# Electric harness schematic (with smart key)

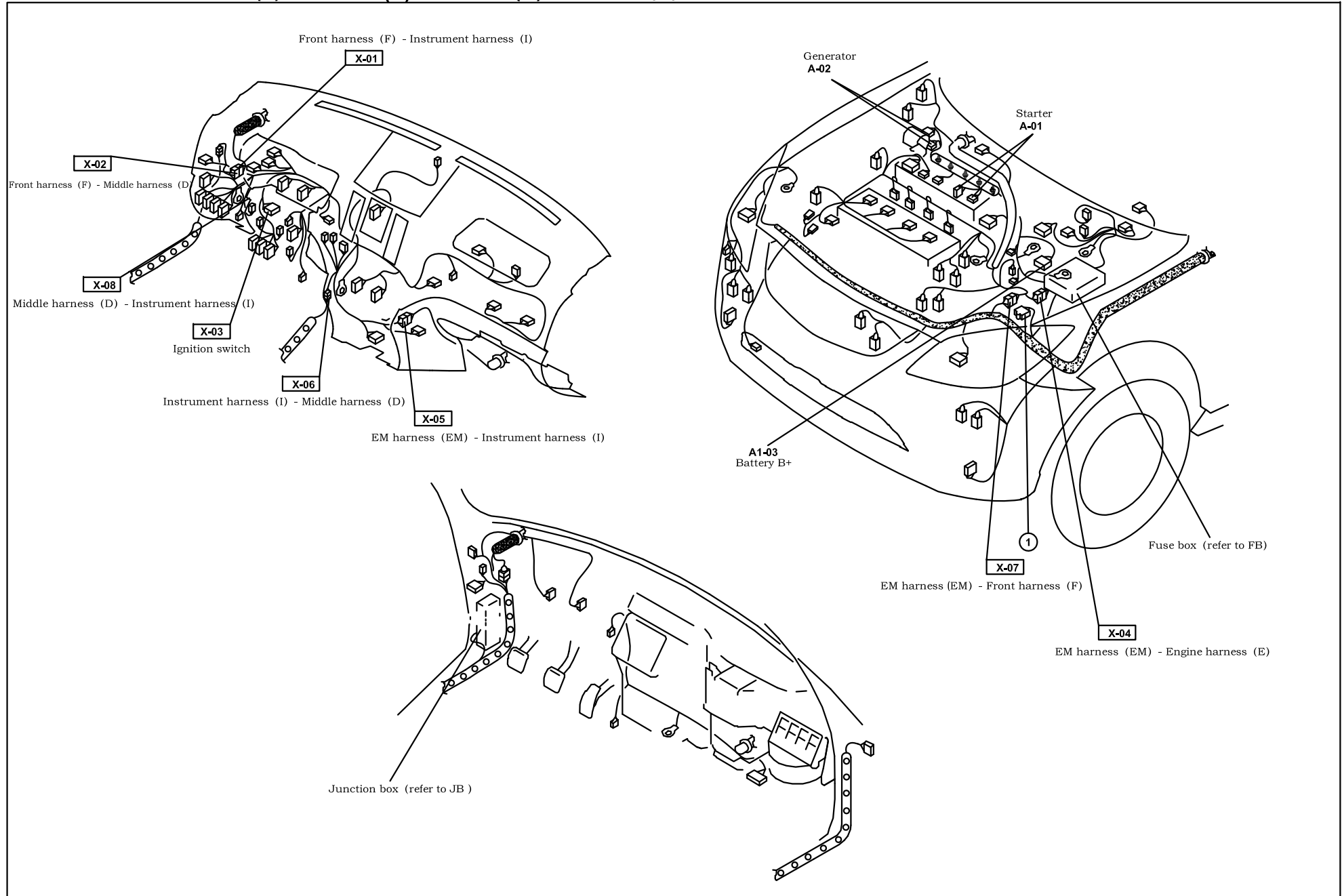


## Charging system/start-up system

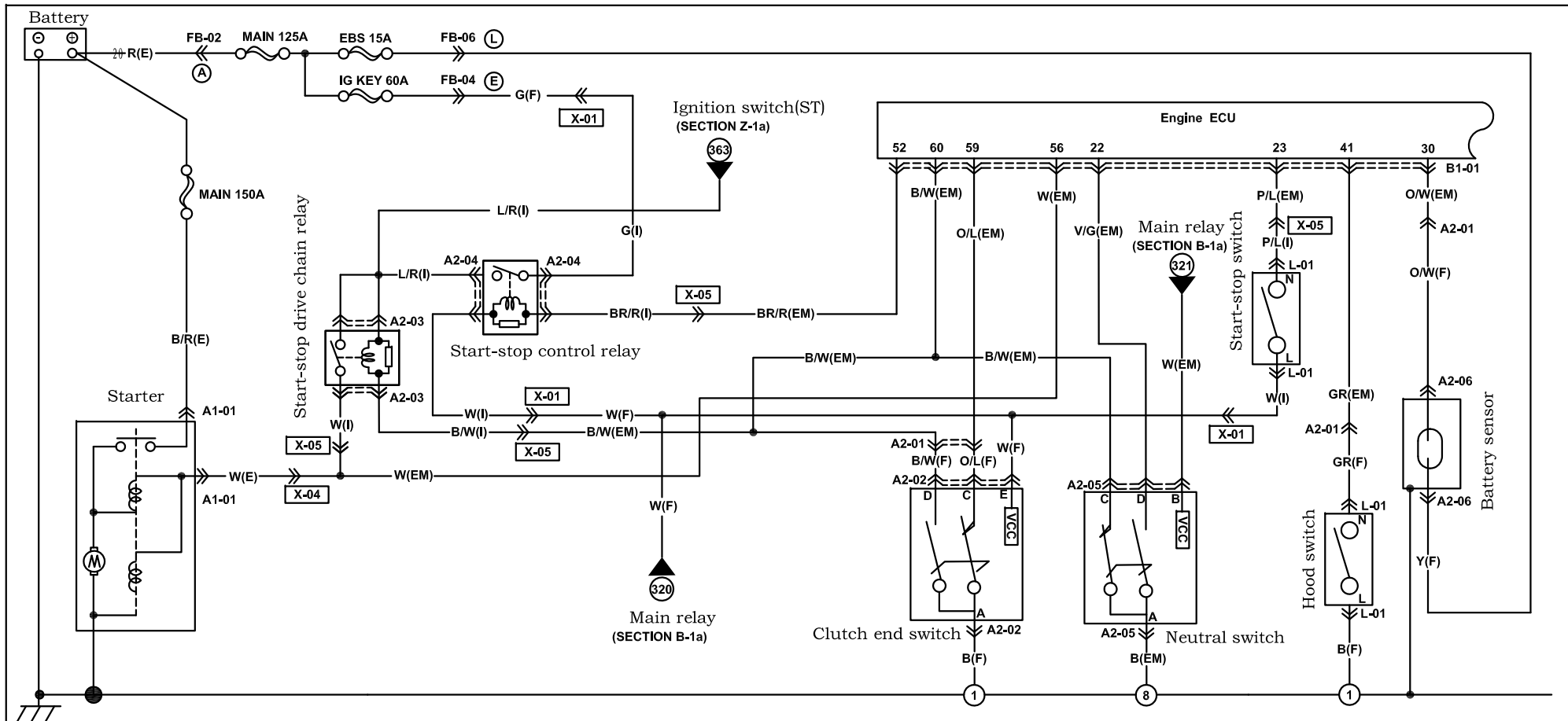


<b>A1-01 Starter (E)</b> 	<b>A1-02 Generator (E)</b> 	<b>A1-02 Generator (E)</b> 	<b>A1-03 Battery B+ (E)</b> 			

Harness mark:  (F)  (E)  (D)  (R)



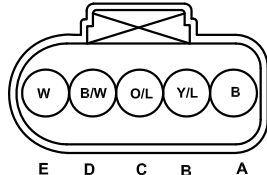
## Start-stop start-up system



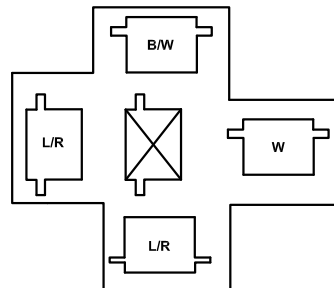
A1-01 Starter (E)



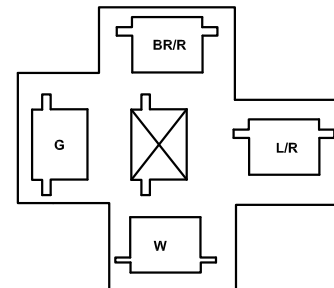
A2-02 Clutch switch (EM)



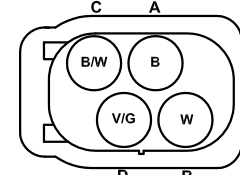
A2-03 Start-stop drive chain relay (EM)



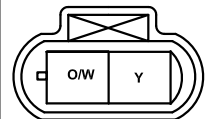
A2-04 Start-stop control relay (EM)



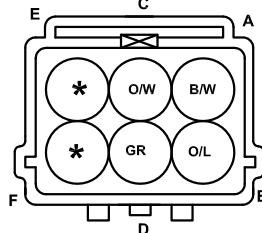
A2-05 Neutral switch (EM)



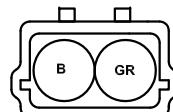
A2-06 Battery sensor (F)



A2-01 Start-stop connector (EM)




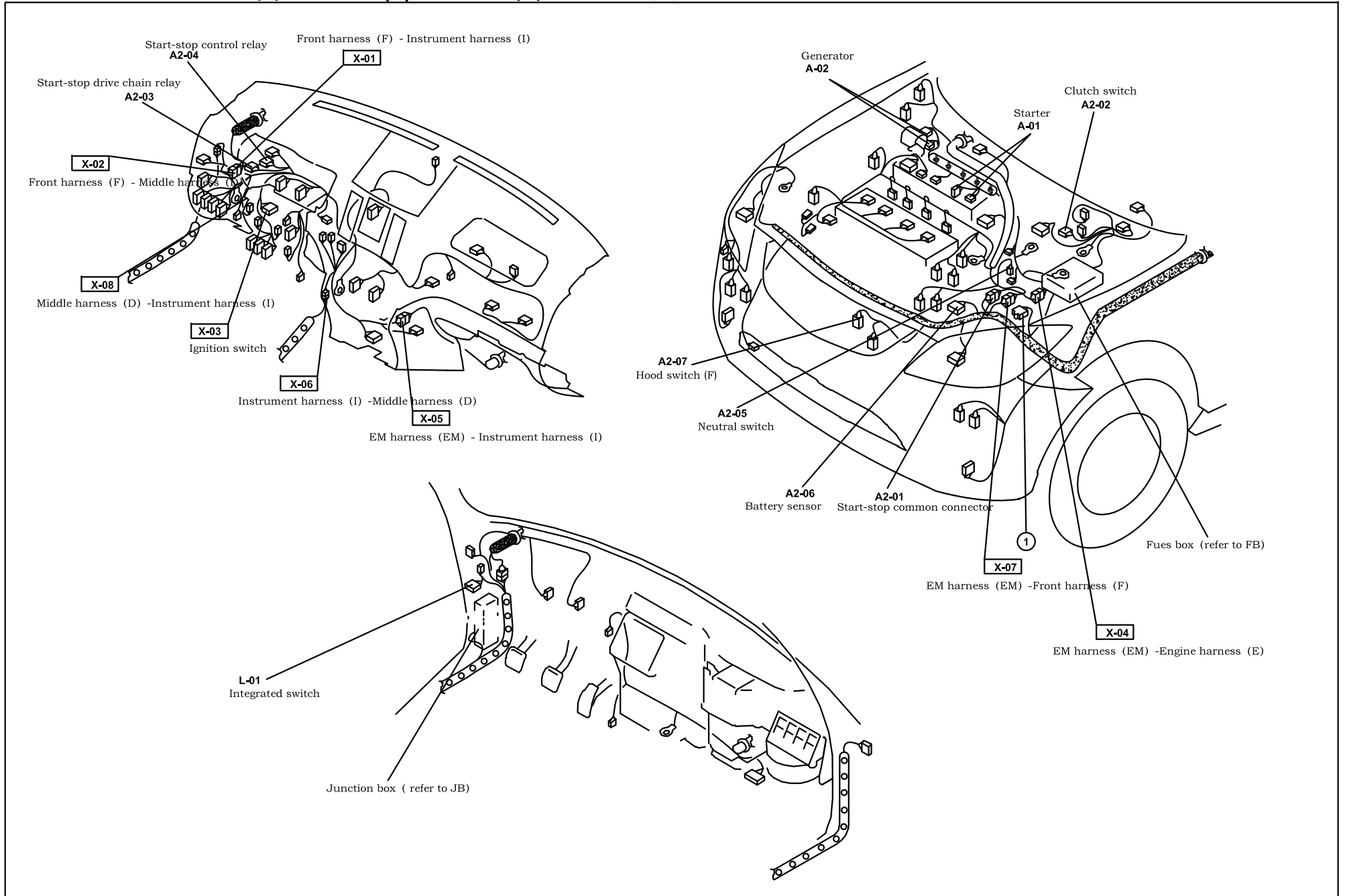
A2-07 Hood switch (F)



L-01 Integrated Switch (I) &lt;&gt; with start-stop

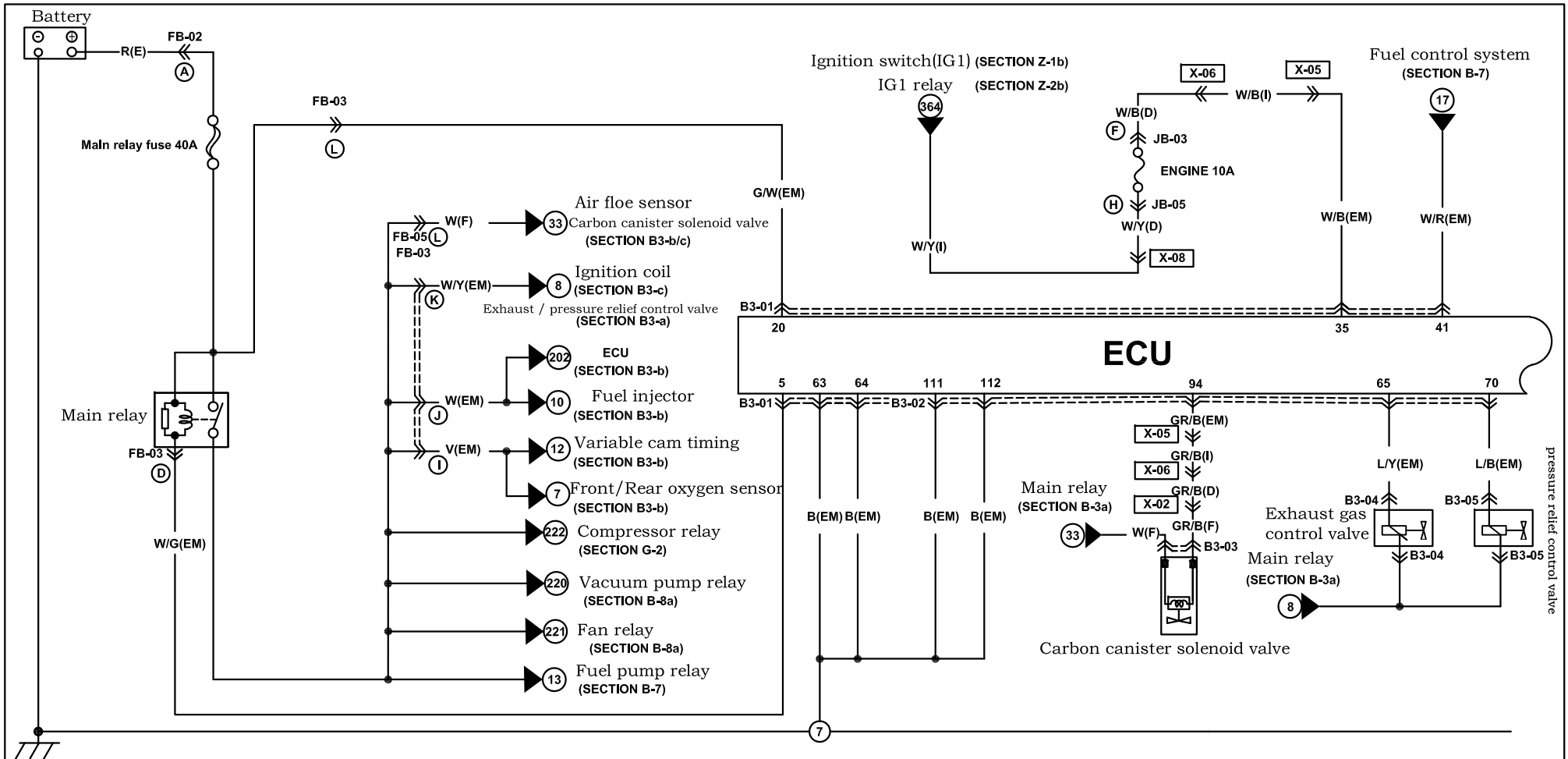
S	Q	O	M	K	I	G	E	C	A
R/B	LG	LG/B	L/W	L	L/O	L/B	V	R/G	R/Y
B	P	G/B	*	W	*	*	*	*	B
T	R	P	N	L	J	H	F	D	B

Harness mark:  (F)  (E)  (D)  (R)



## Engine control system (1.8T)

B-3a



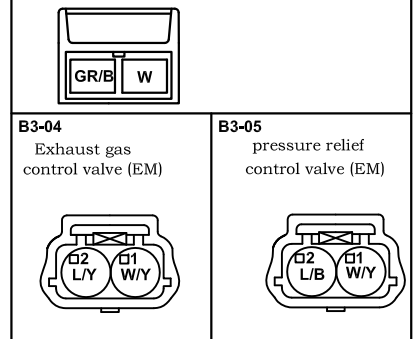
B3-01 ECU(EM)

64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49
B	B	P/G	O/W	LG	Y/L	*	*	Y/G	*	G/L	*	*	*	*	*
48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33
B/R	W/R	B/Y	LG/R	P/B	W/L	BR/Y	W/R	*	*	G/Y	Y/G	W/B	*	*	*
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17
Y/G	*	Y/W	*	V	*	*	R/G	*	B/L	*	Y/B	G/W	V	*	L/O
16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
W	W	*	*	O	*	*	G/O	*	L/W	*	W/G	*	*	*	B/G

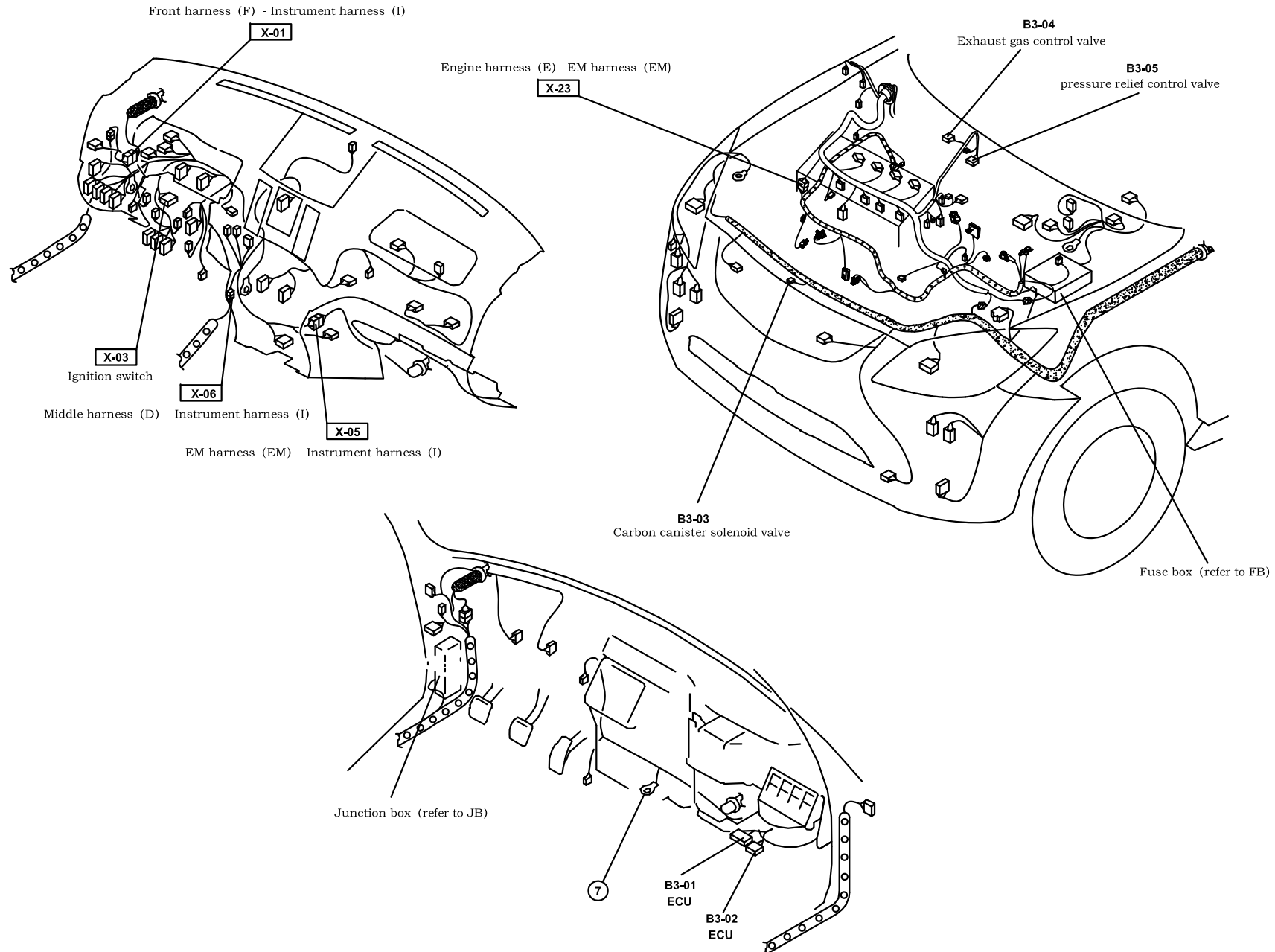
B3-02 ECU(EM)

112	111	110	109	108	107	106	105	104	103	102	101
B	B	*	G/Y	LG/Y	Y/G	*	V/B	L/G	*	V/R	G/W
100	99	98	97	96	95	94	93	92	91	90	89
B/R	R/Y	Y/G	*	V/W	L/W	GR/B	W/G	*	BR/W	Y/L	BR/R
88	87	86	85	84	83	82	81	80	79	78	77
L	O	Y/R	W/R	GR/Y	*	*	*	L/W	*	GR	Y
76	75	74	73	72	71	70	69	68	67	66	65
L/O	W/Y	Y/G	L/O	W/B	L/R	L/B	P/L	R/Y	LG	*	L/Y

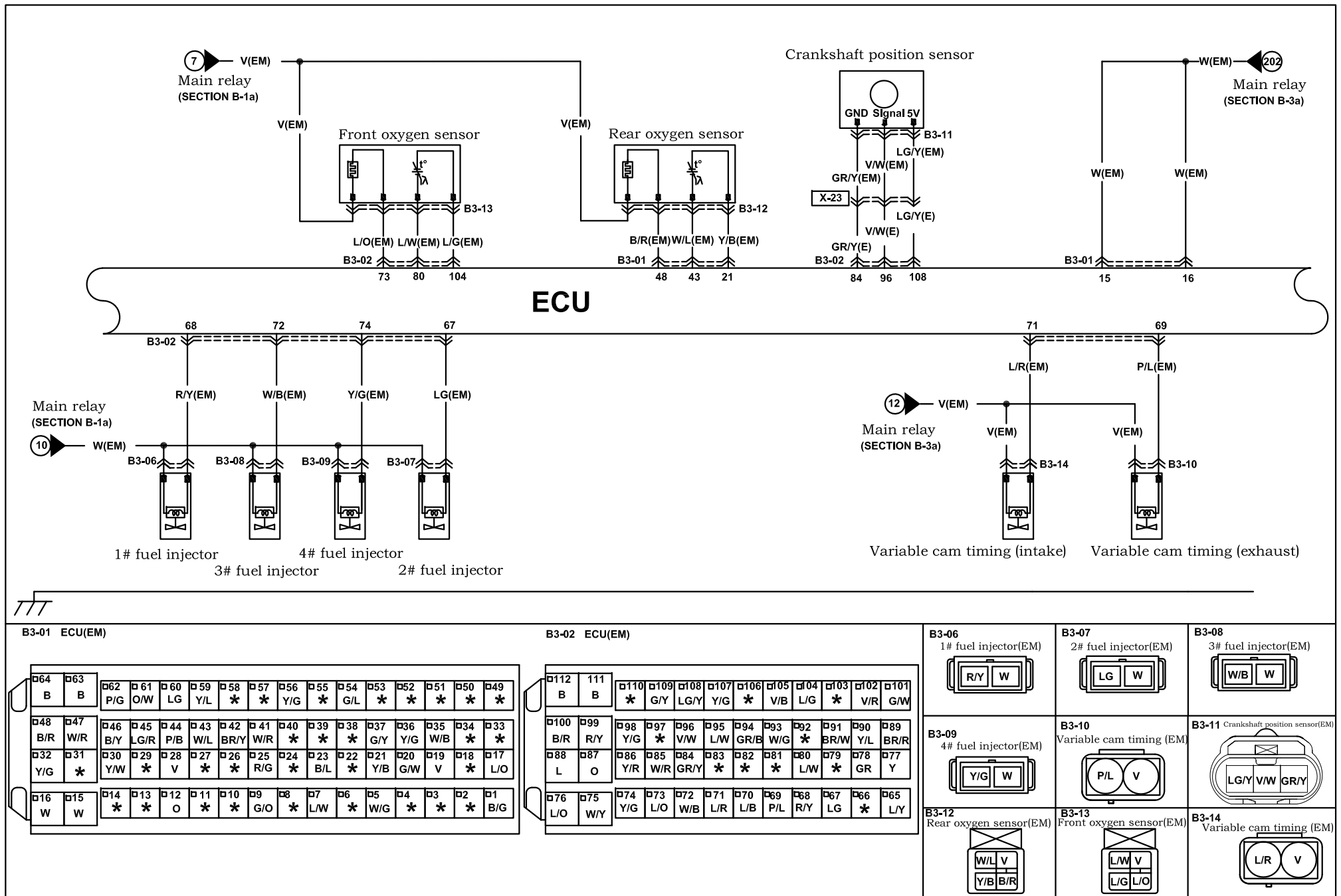
B3-03 Carbon canister solenoid valve (EM)



Harness mark:  (F)  (E)  (D)  (R)

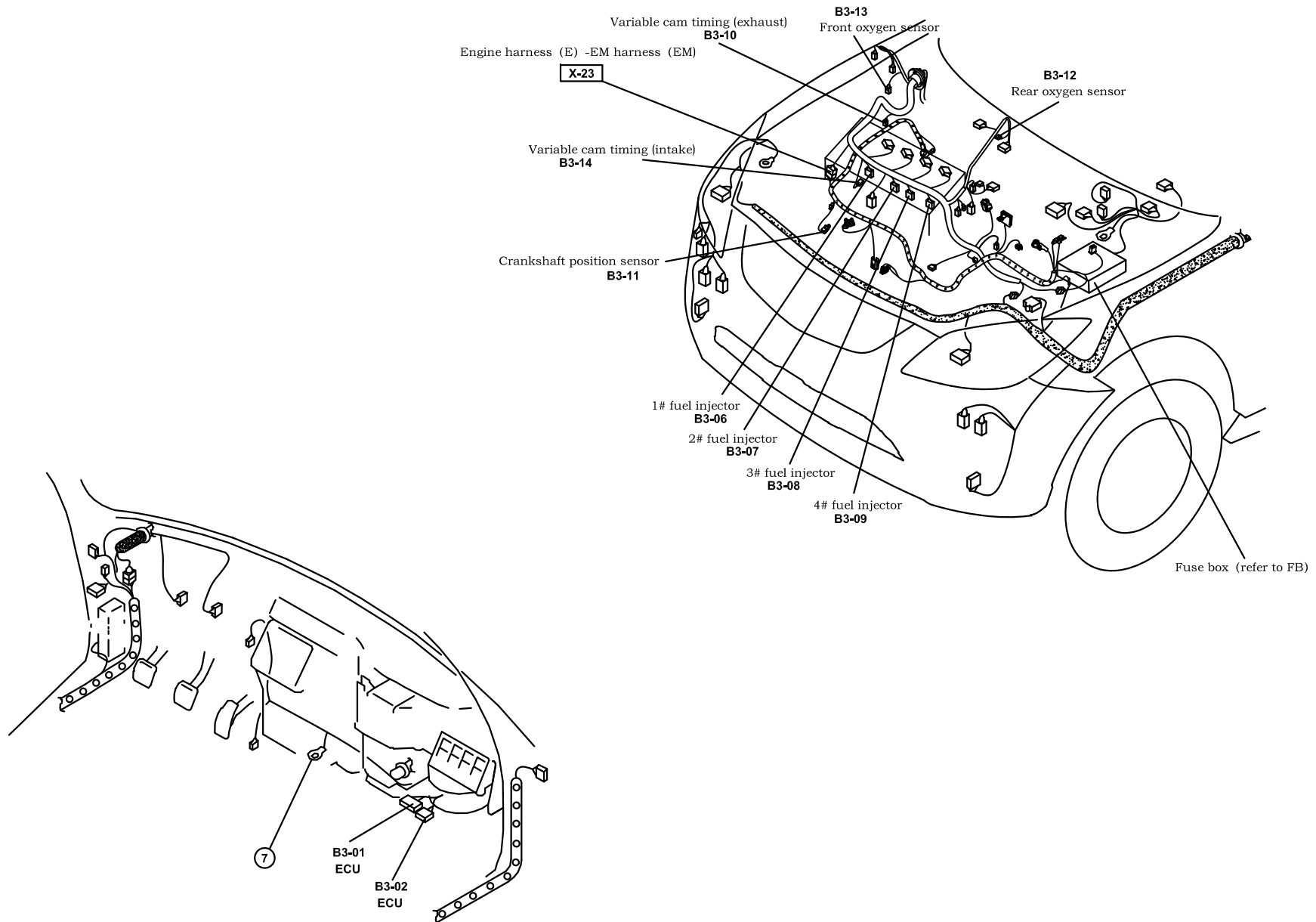


B-3a





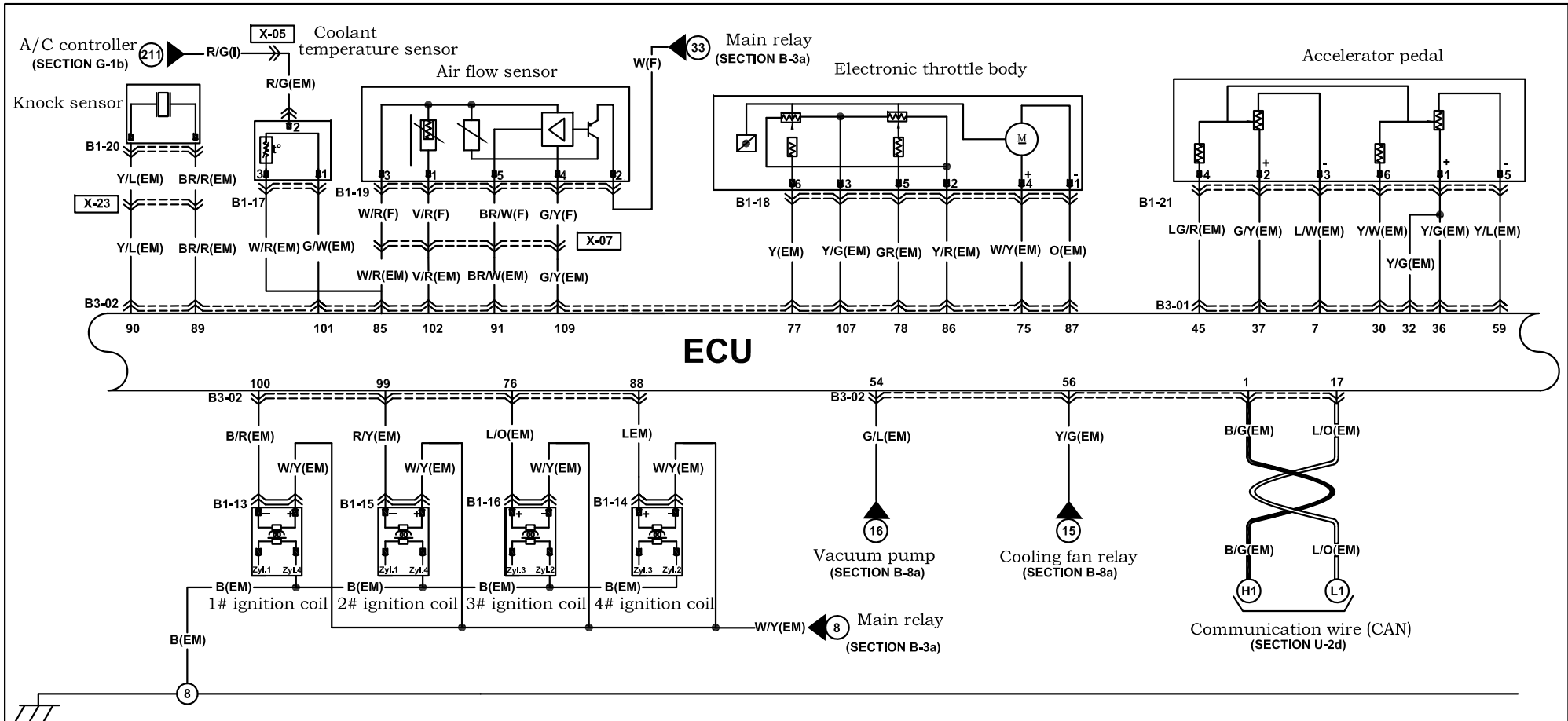
Harness mark:  (F)  (E)  (D)  (R)



**B-3b**

## Engine control system (1.8T)

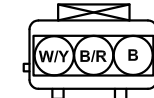
B-3c



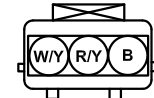
B3-02 ECU(EM)

112	111	110	109	108	107	106	105	104	103	102	101
B	B	*	G/Y	LG/Y	Y/G	*	V/B	L/G	*	V/R	G/W
100	99	98	97	96	95	94	93	92	91	90	89
B/R	R/Y	Y/G	*	V/W	L/W	GR/B	W/G	*	BR/W	Y/L	BR/R
88	87	86	85	84	83	82	81	80	79	78	77
L	O	Y/R	W/R	GR/Y	*	*	*	L/W	*	GR	Y
76	75	74	73	72	71	70	69	68	67	66	65
L/O	W/Y	Y/G	L/O	W/B	L/R	L/B	P/L	R/Y	LG	*	L/Y

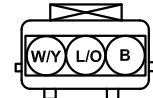
B1-13 1# ignition coil (EM)



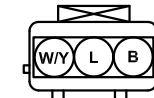
B1-14 2# ignition coil (EM)



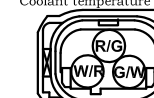
B1-15 3# ignition coil (EM)



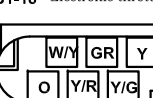
B1-16 4# ignition coil (EM)



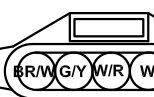
B1-17 Coolant temperature sensor(EM)



B1-18 Electronic throttle body(EM)



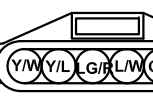
B1-19 Air flow sensor (EM)



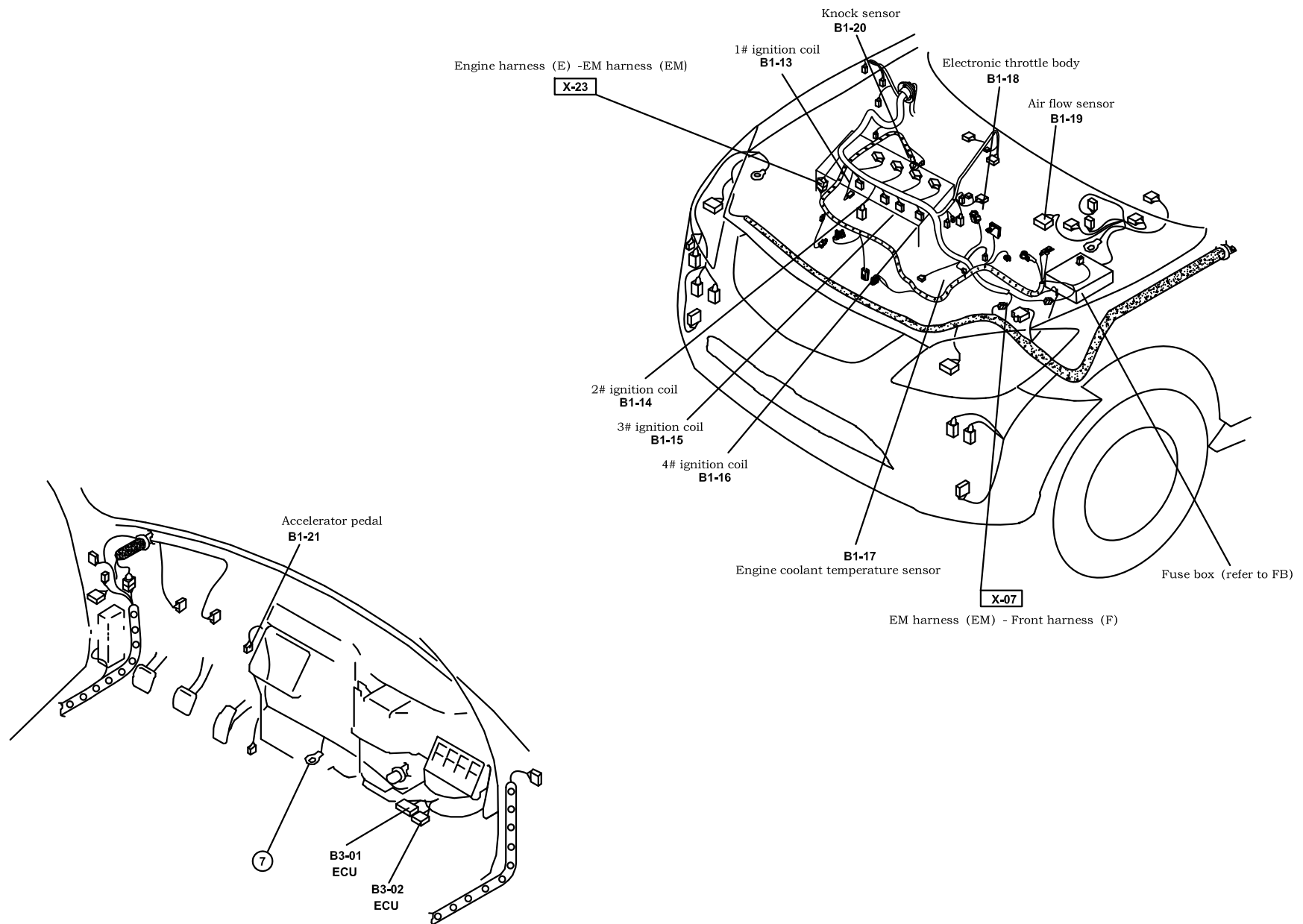
B1-20 Knock sensor (EM)

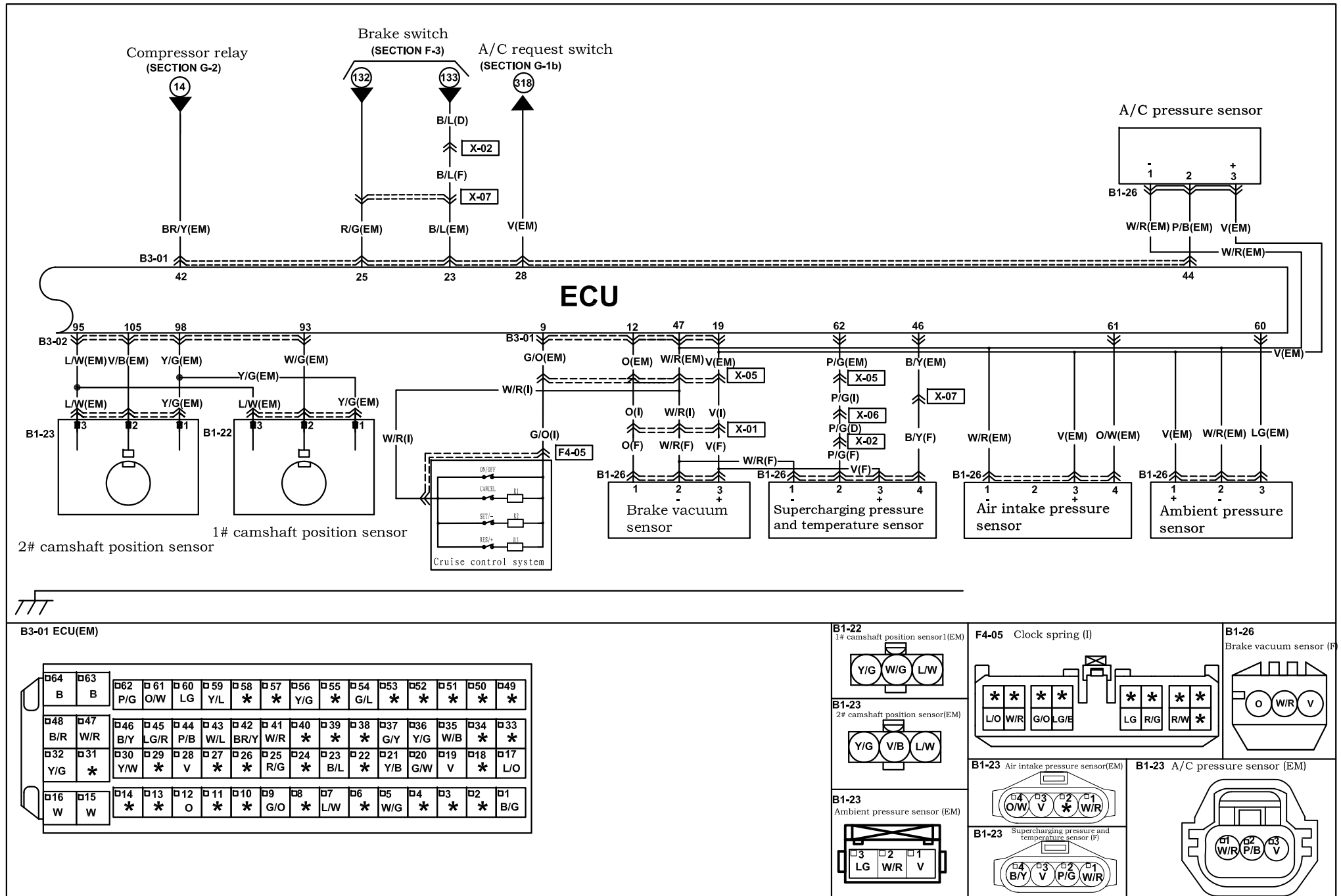


B1-21 Accelerator pedal (EM)

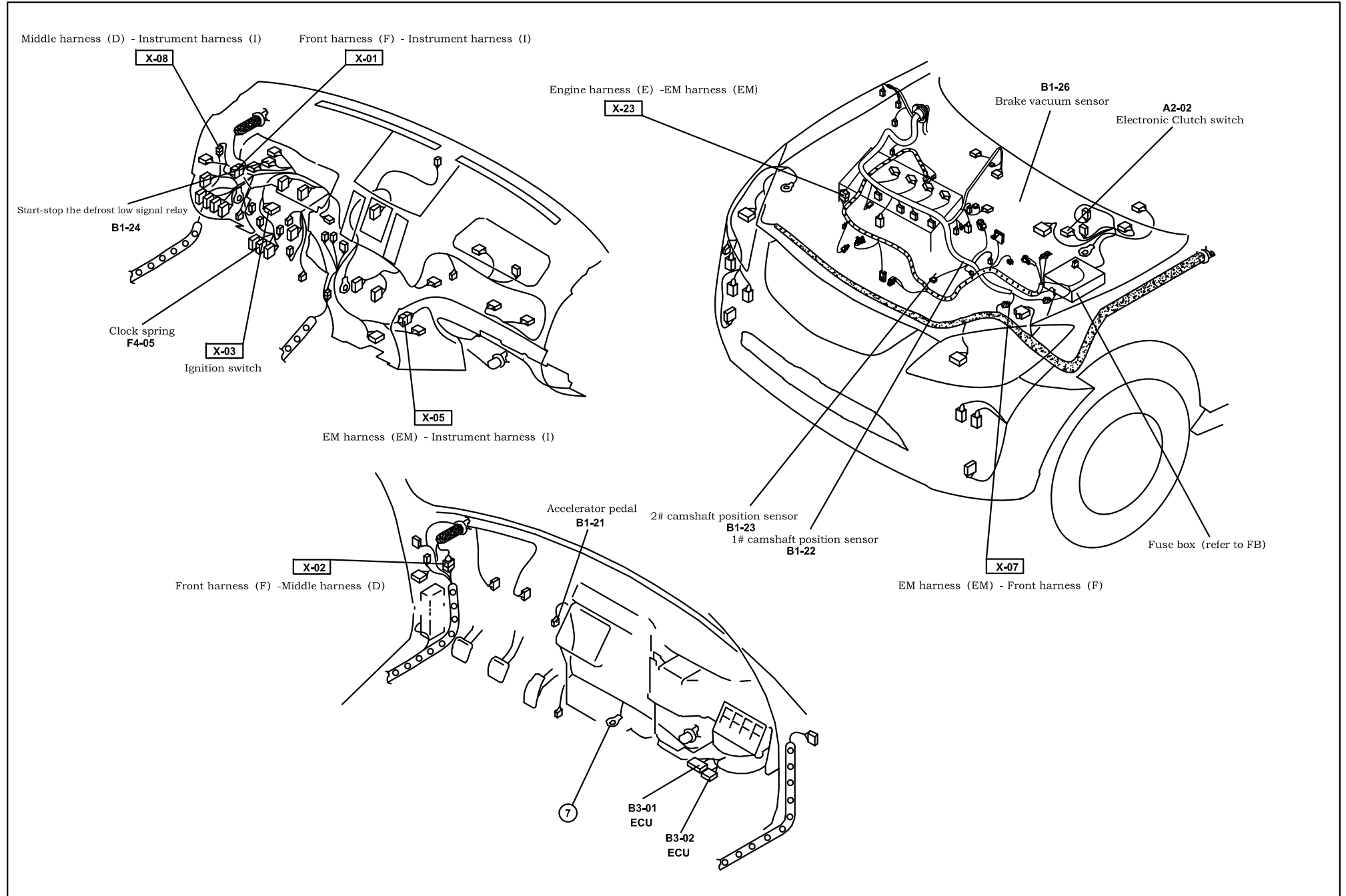


Harness mark:  (F)  (E)  (D)  (R)



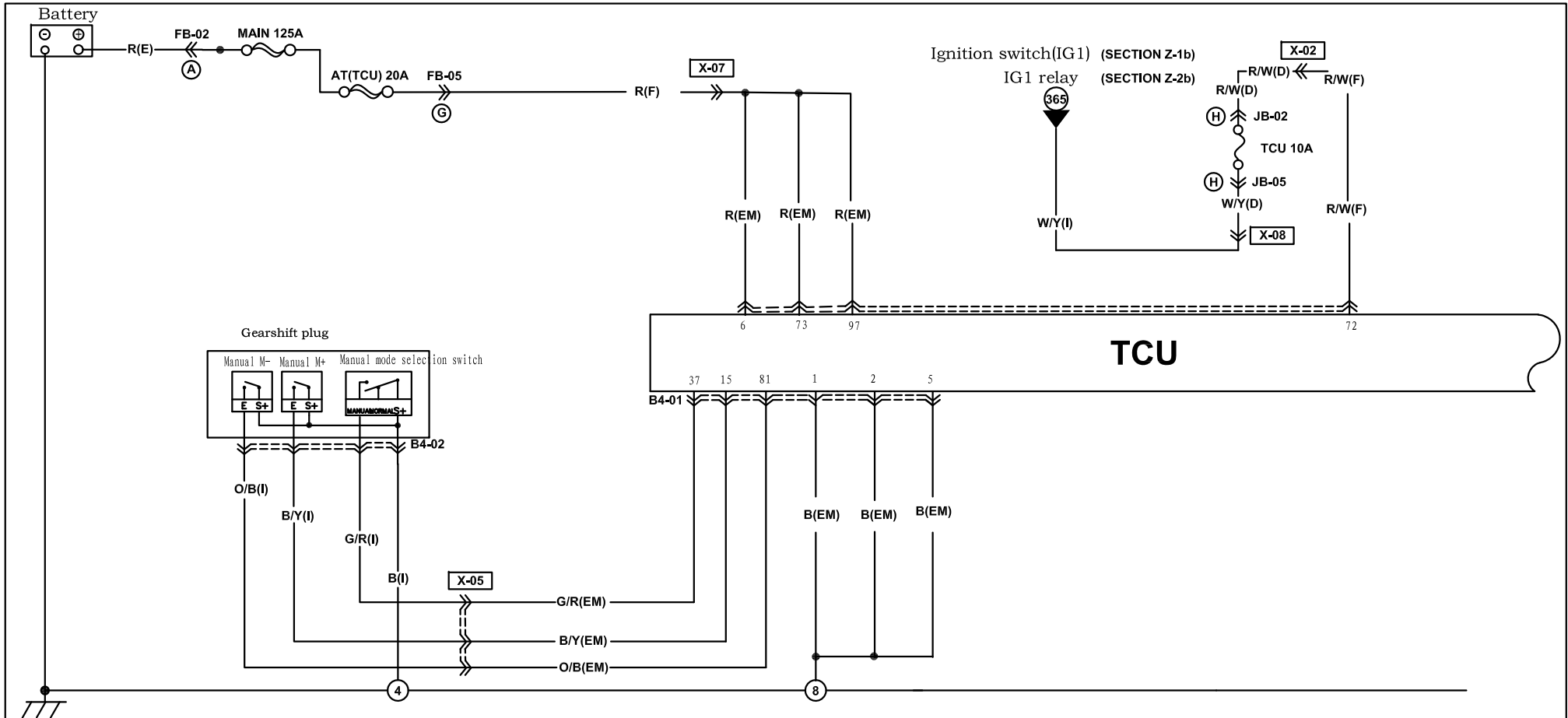


Harness mark:  (F)  (E)  (D)  (R)

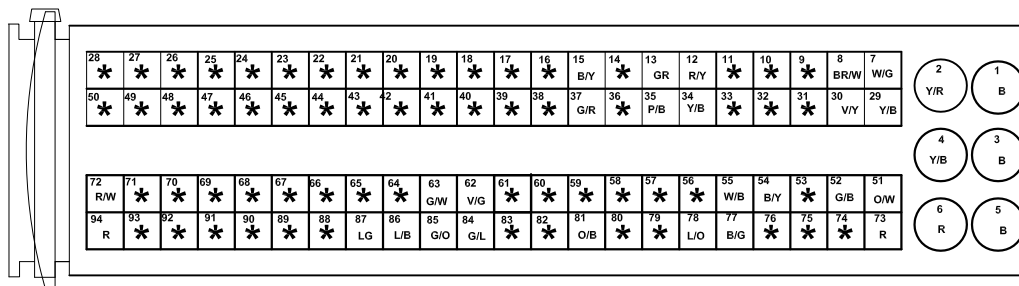


## Transmission control system (1.8T-6AT)

B-4a



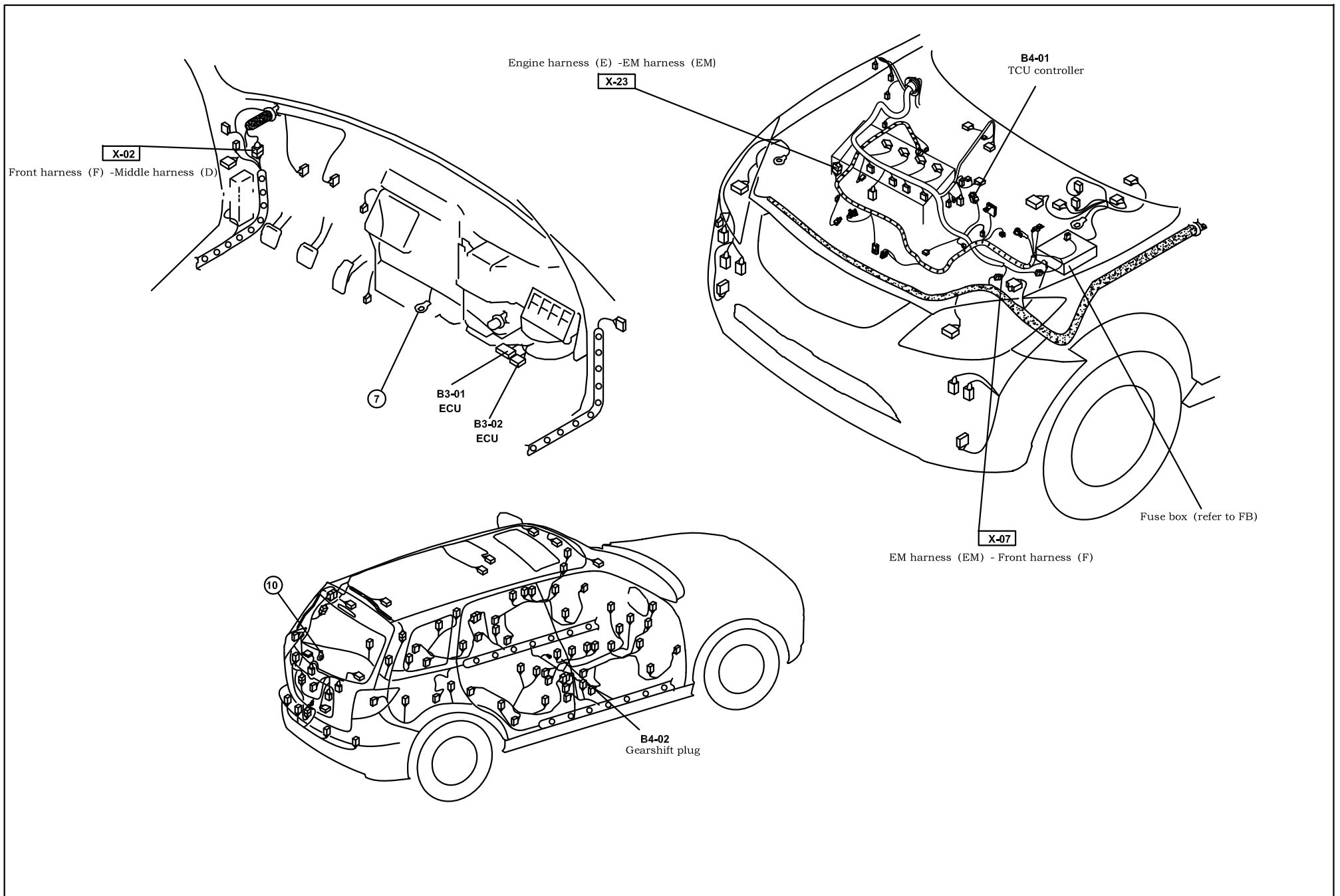
B4-01 TCU(EM)



B4-02 Gearshift plug (I)

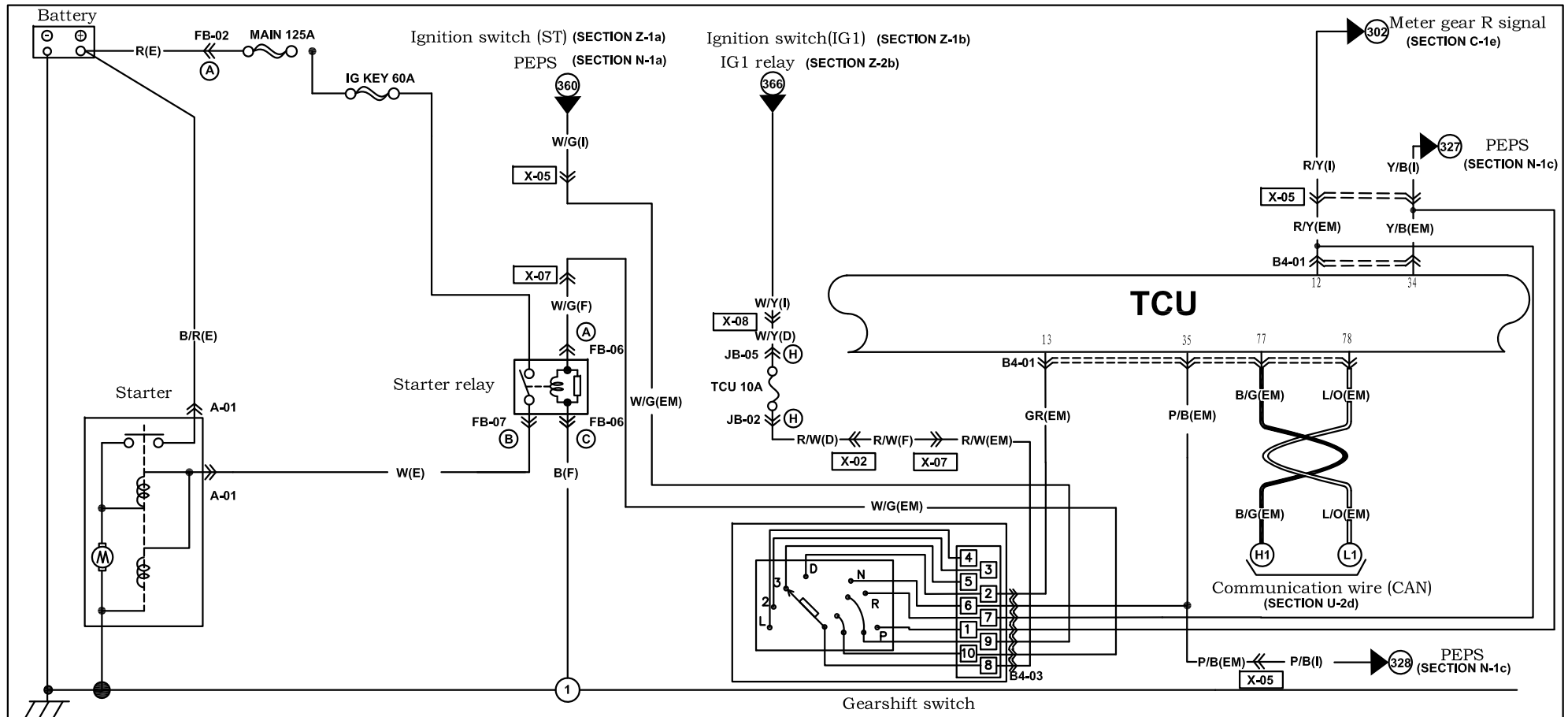
G	LG			B	B/Y	A
H	LG/B	*	G/R	*	O/B	B

Harness mark:  (F)  (E)  (D)  (R)

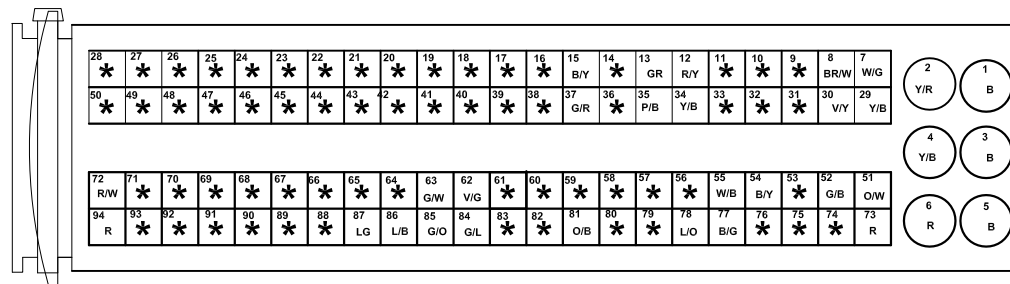


# Transmission control system (1.8T-6AT)

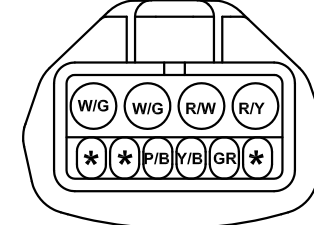
B-4b



B4-01 TCU(EM)



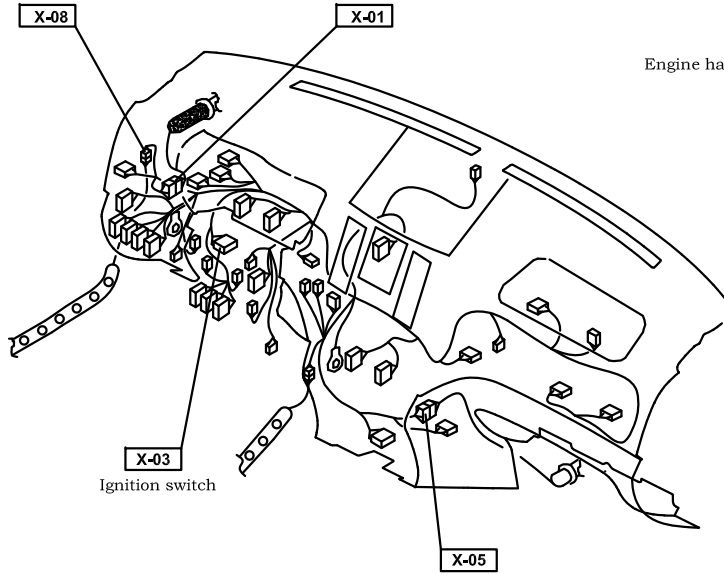
B4-03 Gearshift switch (EM)





Harness mark:  (F)  (E)  (D)  (R)

Middle harness (D) - Instrument harness (I) Front harness (F) - Instrument harness (I)

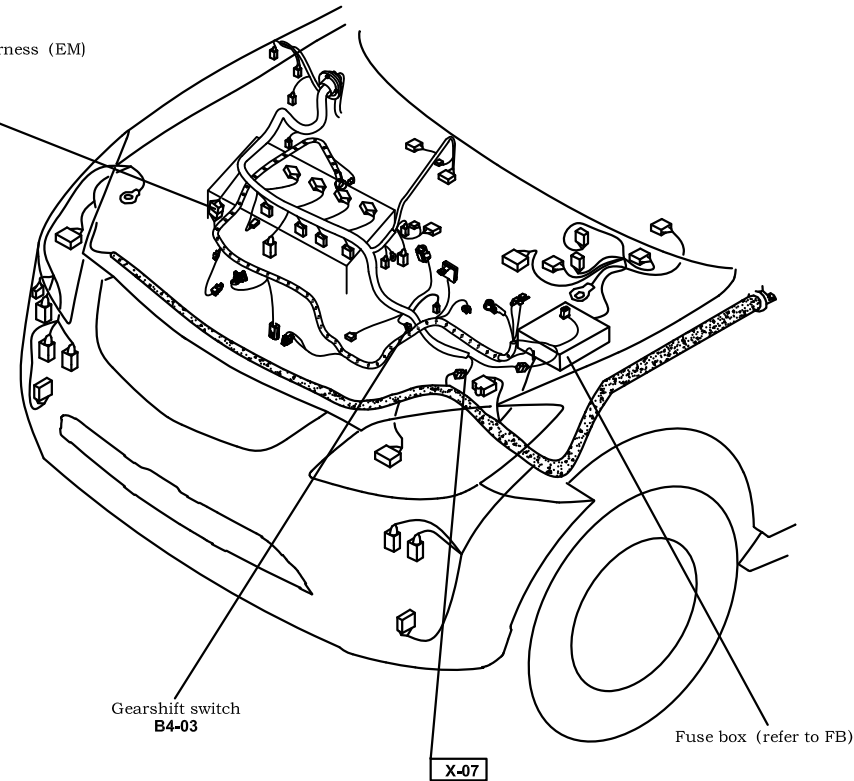


Ignition switch

EM harness (EM) - Instrument harness (I)

Engine harness (E) - EM harness (EM)

X-23

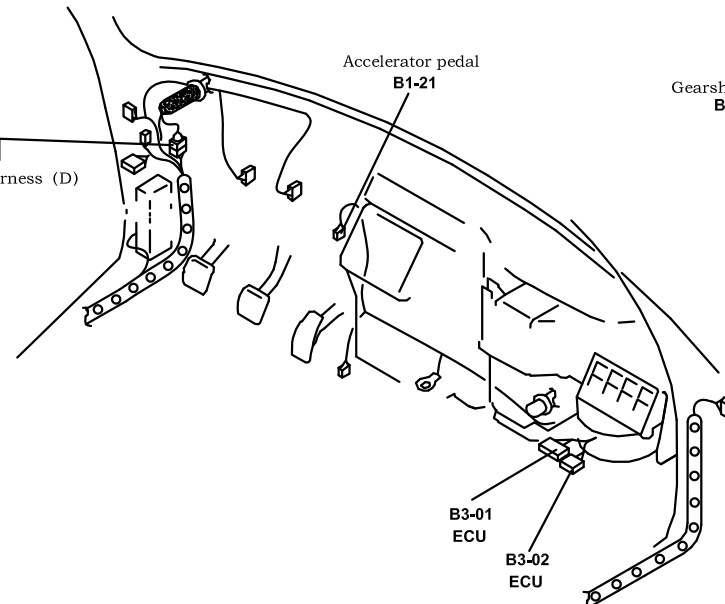


Gearshift switch  
B4-03

EM harness (EM) - Front harness (F)

Front harness (F) - Middle harness (D)

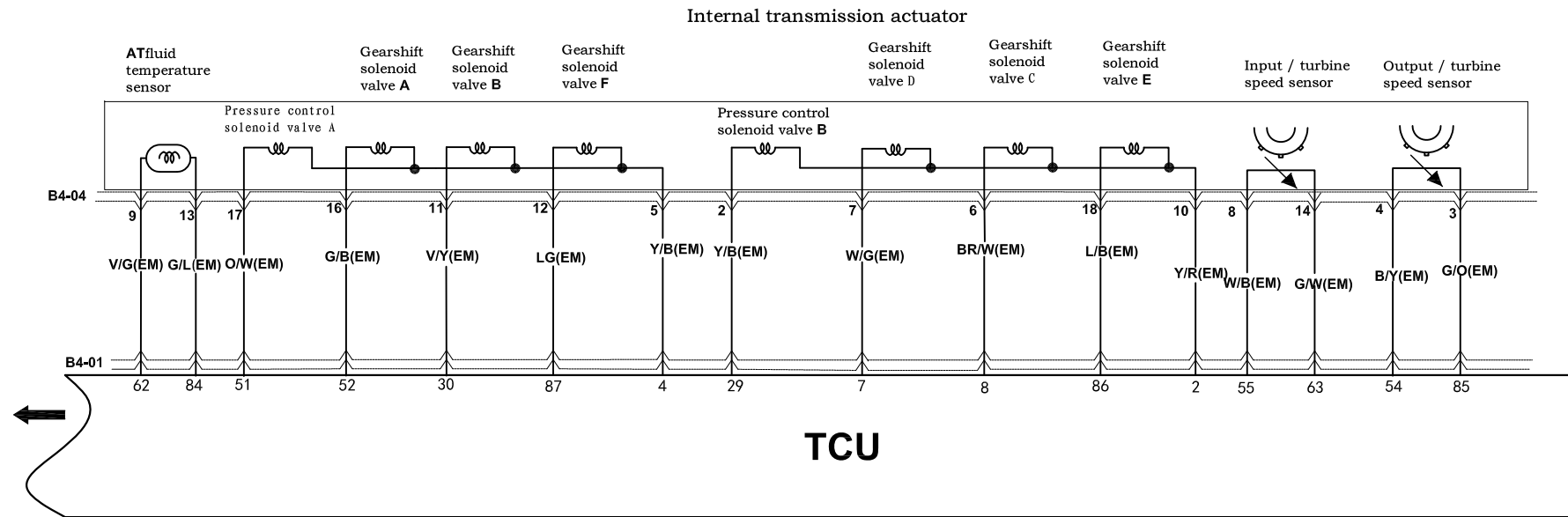
X-02



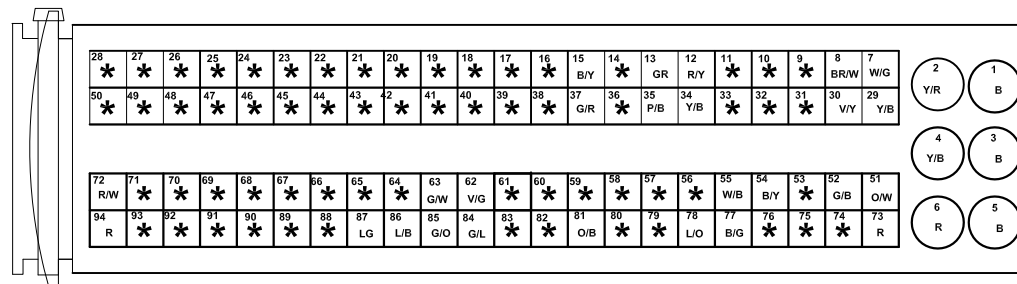
Accelerator pedal  
B1-21

B3-01  
ECU

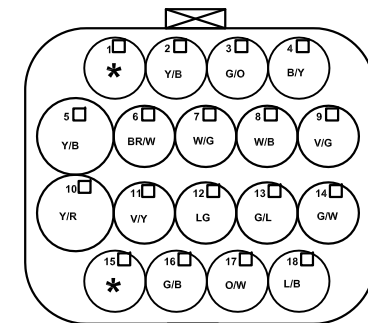
B3-02  
ECU

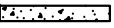

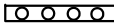



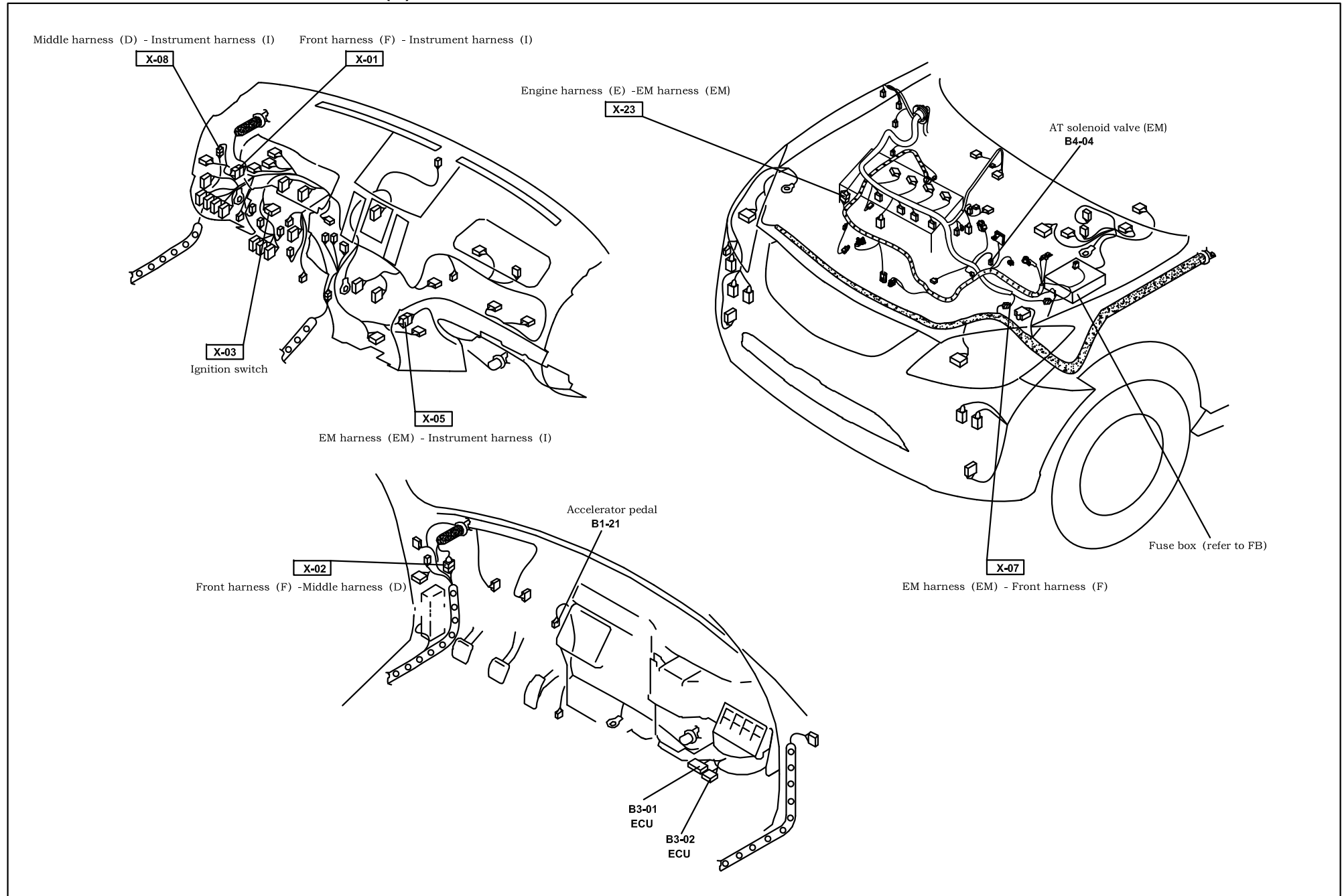
B4-01 TCU(EM)



B4-04 AT solenoid valve (EM)

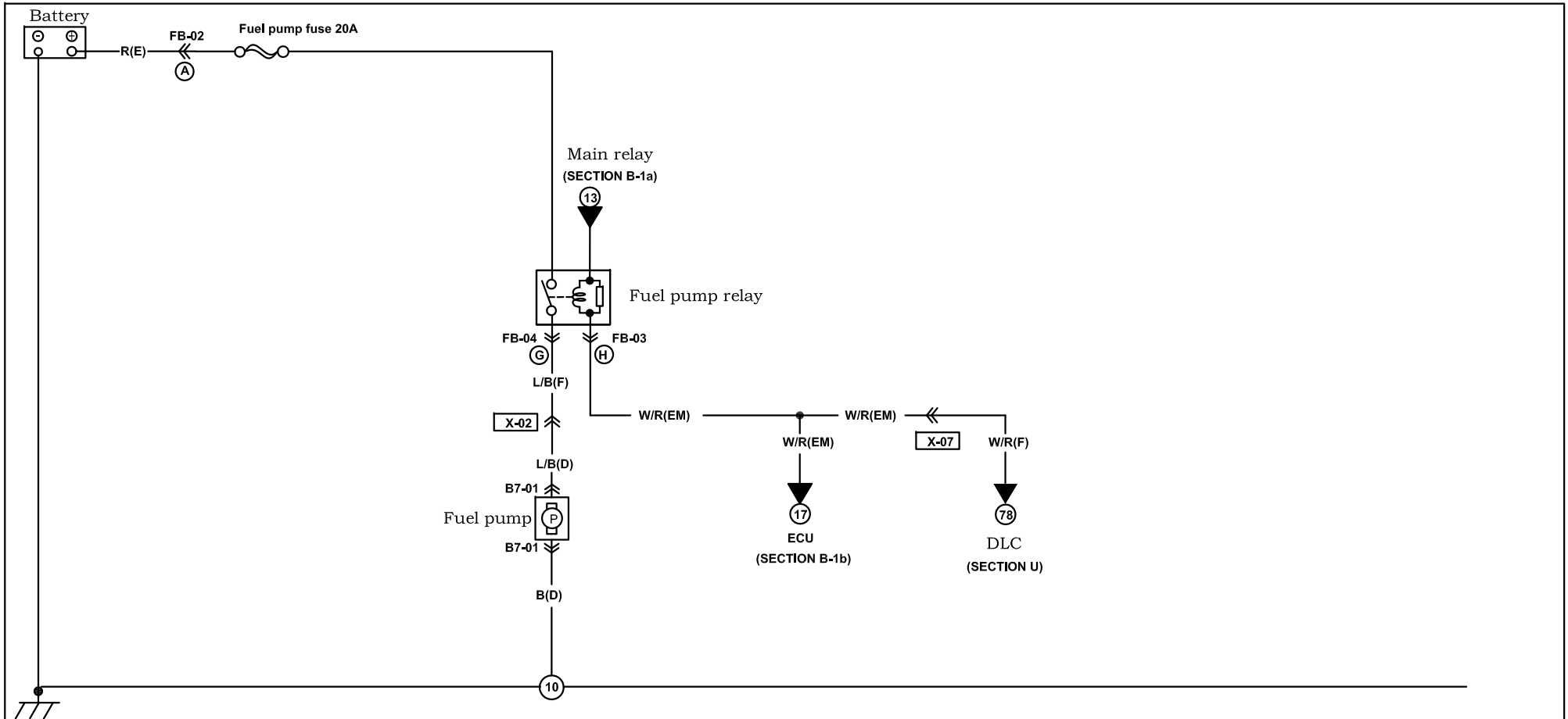


Harness mark:  (F)  (E)  (D)  (R)

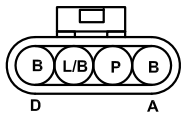





# Fuel pump control system

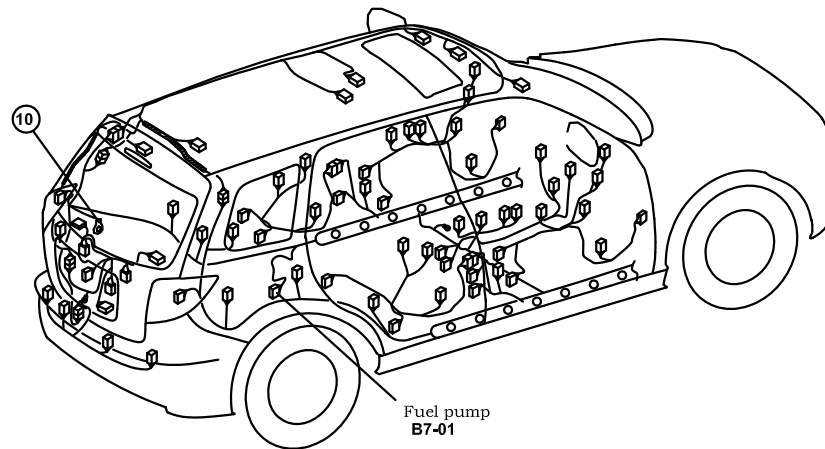
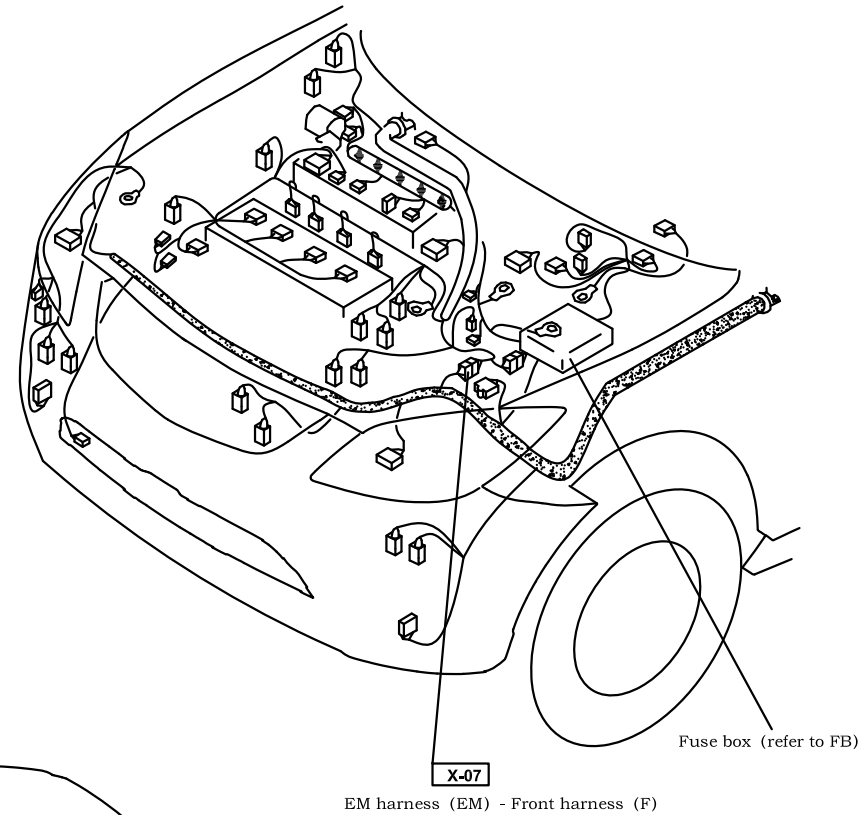
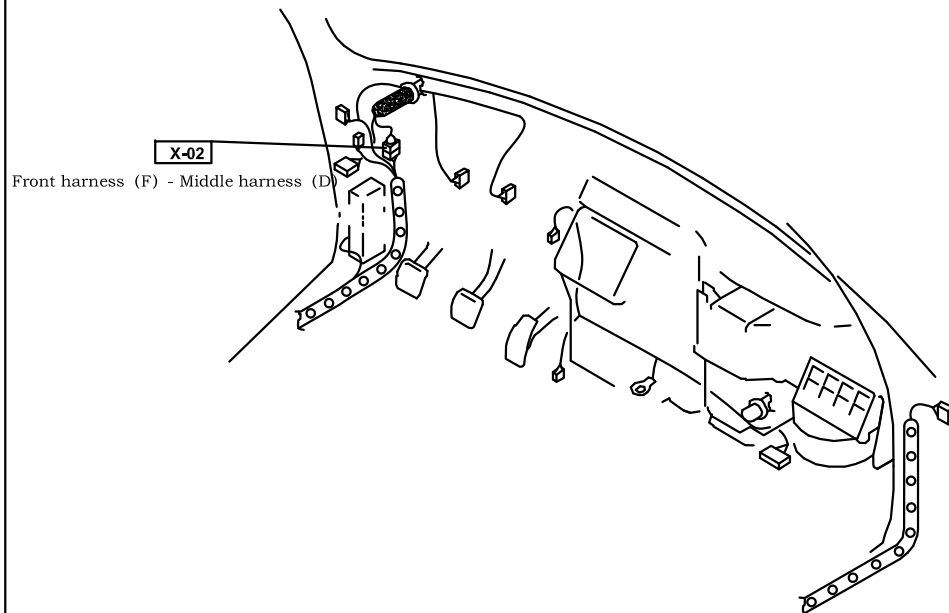
B-7



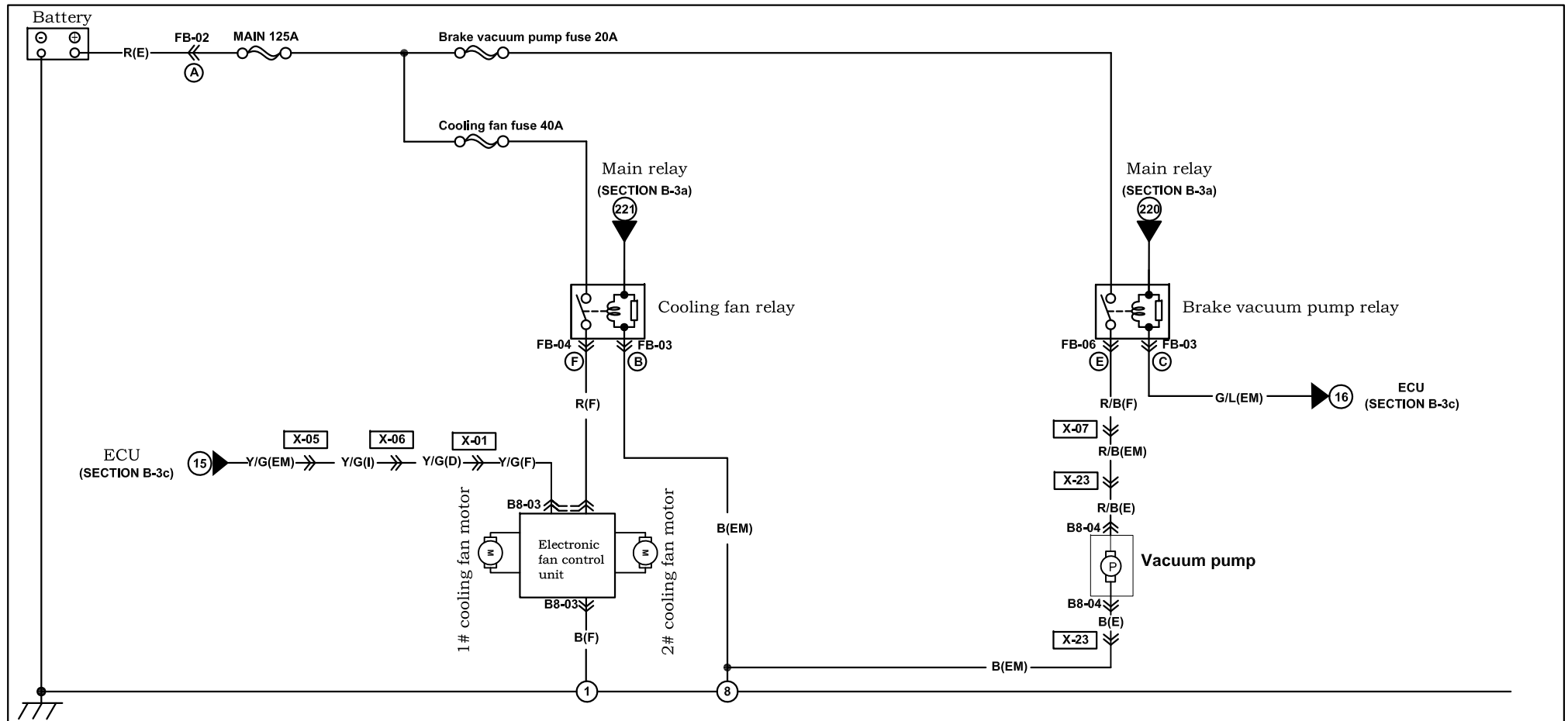
B7-01 Fuel pump (D)





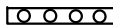

Harness mark:  (F)  (E)  (D)  (R)

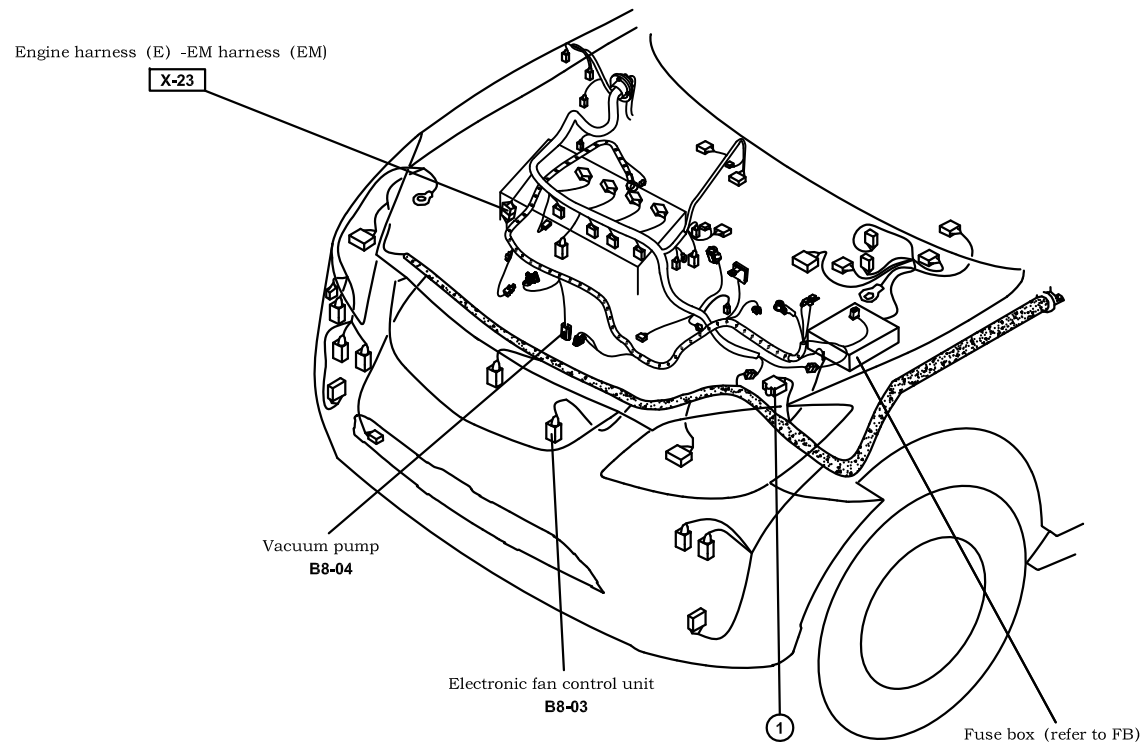


# Fan control system /Vacuum pump (1.8T)



<b>B8-03</b> Electronic fan control unit(F) 	<b>B8-04</b> Vacuum pump (E) 					

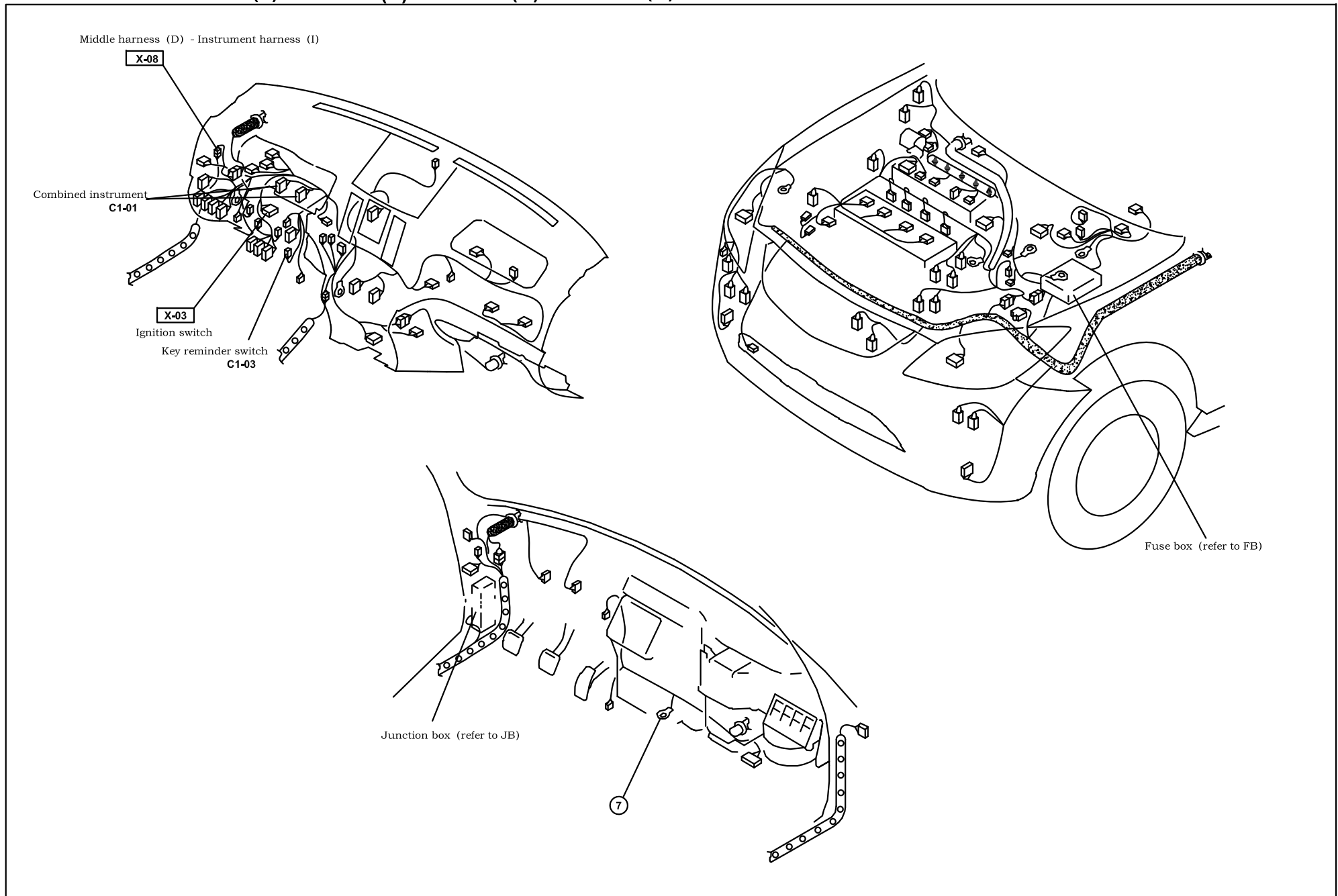
Harness mark:  (F)  (E)  (D)  (R)



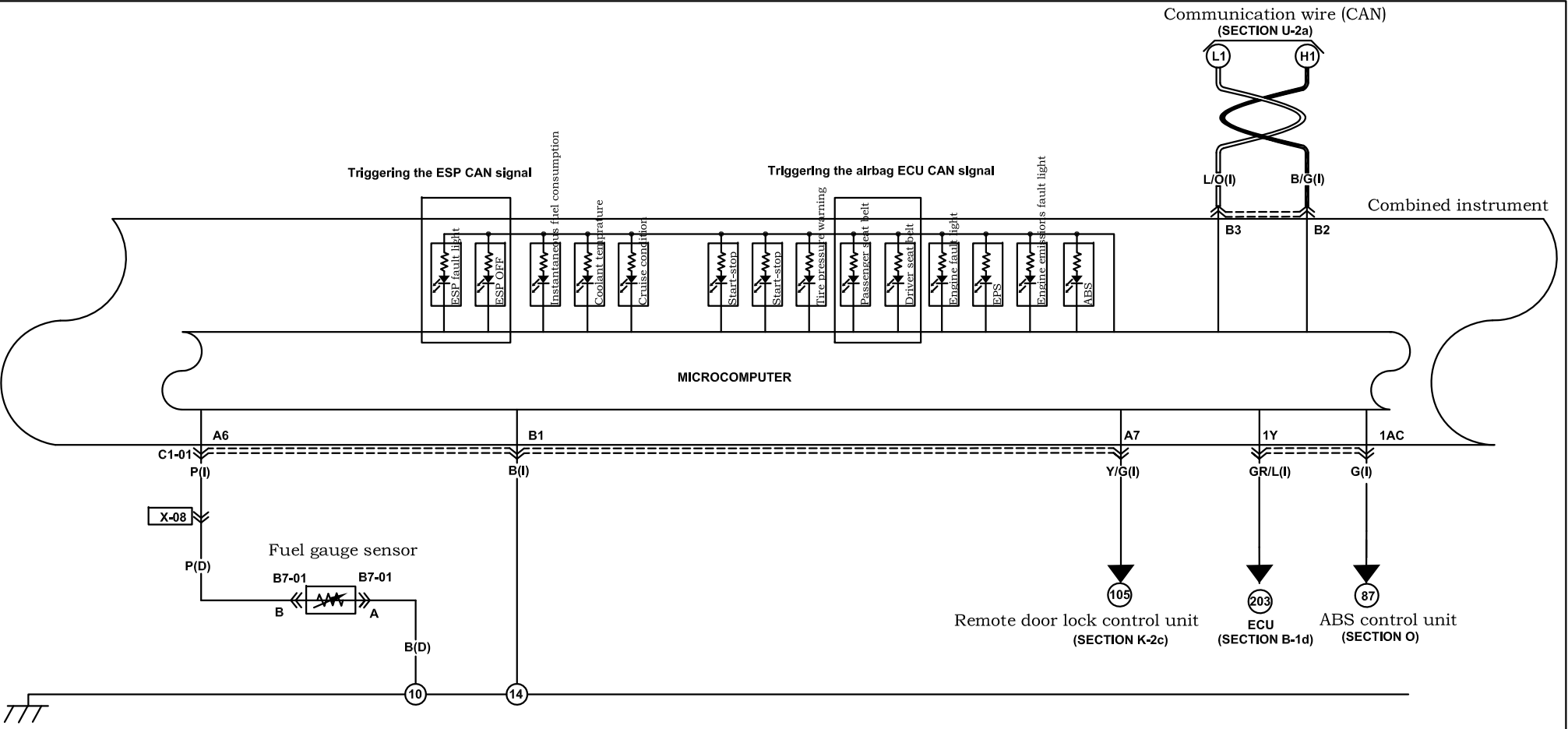




Harness mark: (F) (E) (D) (R)



C-1a



C1-01 Combined instrument (I)

( ) with ESP

A1

B/Y	B/L	B/W	B/R	R/Y	P	Y/G	*	*	*	*	*	*	*	*	*	*	*
LG	LG/B	*	*	*	*	*	*	*	*	*	G/B	LG/R	G/W	G/R	Y/L		

A17

A32

A16

C1-01 Combined instrument (I)

\$ with PEPS  
@ with ignition switch

B1


B	B/G	L/O	*	*	\$L/B	\$L/W	G/Y	B/W	*	*	Y/R	BR/W	L/R	V	Y/B		
BR/Y	Y	@R	@V/W	BR/E	*	*	*	*	*	*	*	*	*	*	*	*	*

B17

B32

B16

B7-01 Fuel gauge sensor (D)

Harness mark:  (F)  (E)  (D)  (R)

Middle harness (D) - Instrument harness (I)

X-08

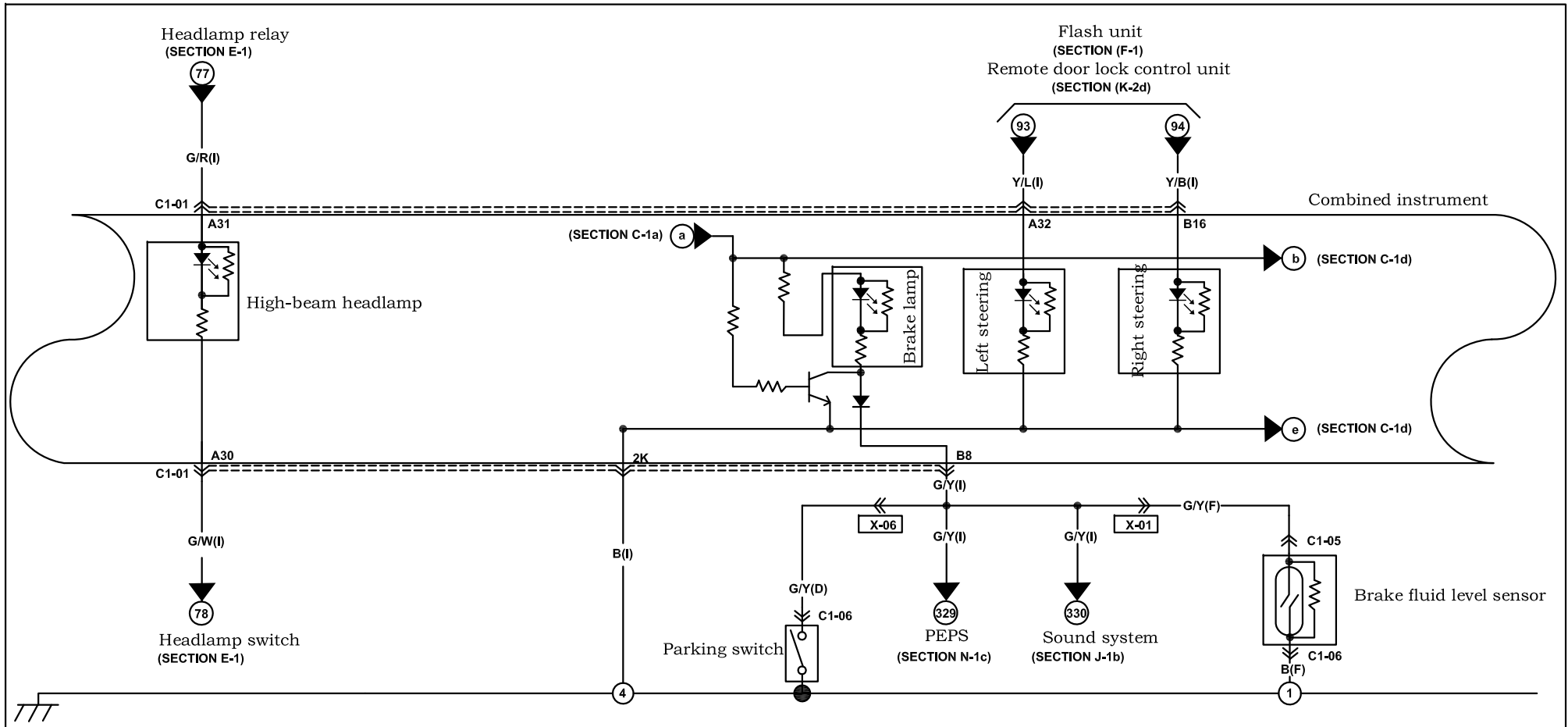
Combined instrument  
C1-01

4

10

Fuel gauge sensor  
B7-01

C-1b



C1-01 Combined instrument (I)

( ) with ESP

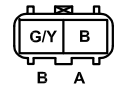
A1	B/Y	B/L	B/W	B/R	R/Y	P	Y/G	(G/O)	(V/W)	*	*	*	*	*	*	*	A16
A17	LG	LG/B	*	*	*	*	*	*	*	*	*	G/B	LG/R	G/W	G/R	Y/L	A32

C1-01 Combined instrument (I)

\$ with PEPS  
@ with ignition switch

B1	B	B/G	L/O	*	BR/G	\$L/B	\$L/W	G/Y	B/W	GR	GR/Y	Y/R	BR/W	L/R	V	Y/B	B16
B17	BR/Y	Y	@R	@V/W	BR/E	*	*	*	*	*	*	*	*	*	*	*	B32

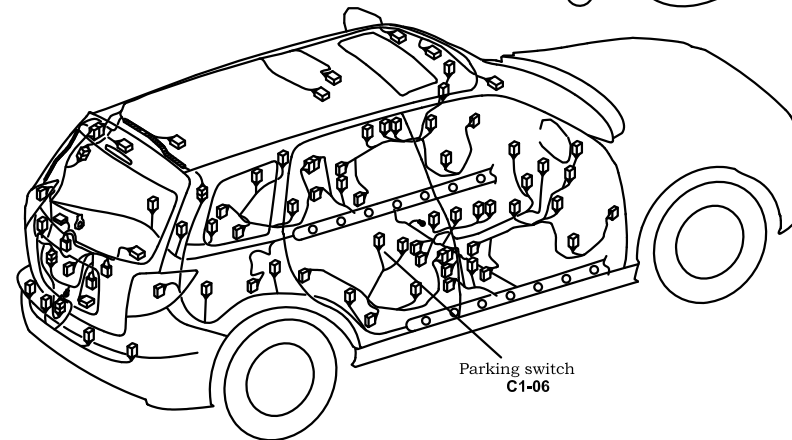
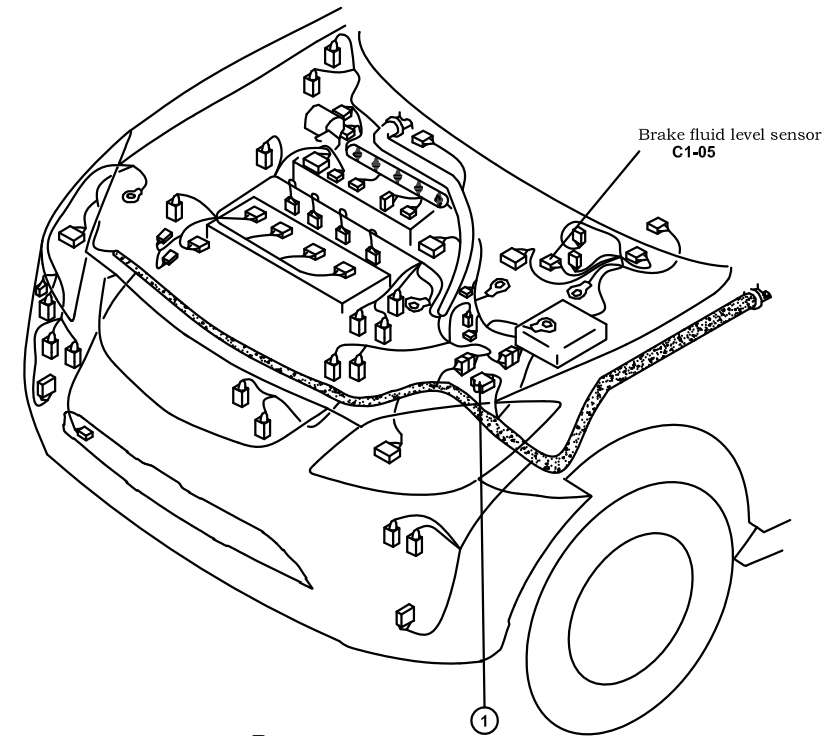
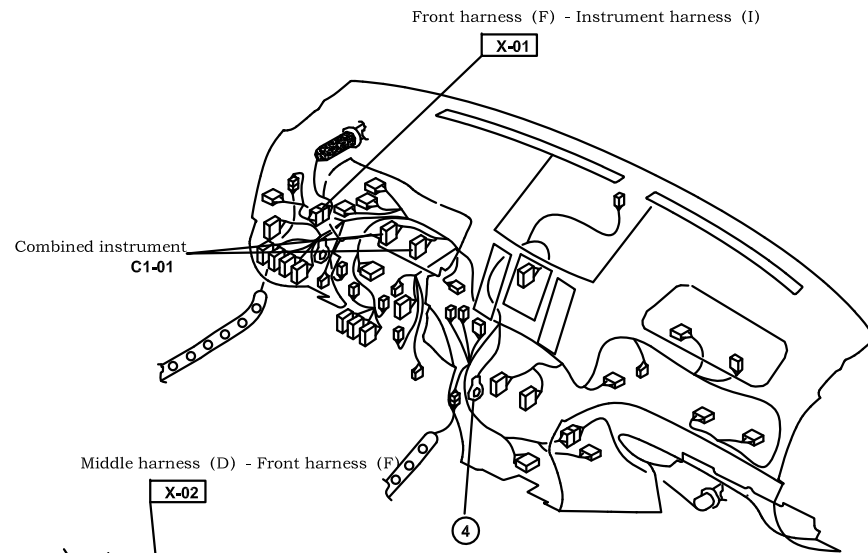
C1-05 Brake fluid level sensor (F)

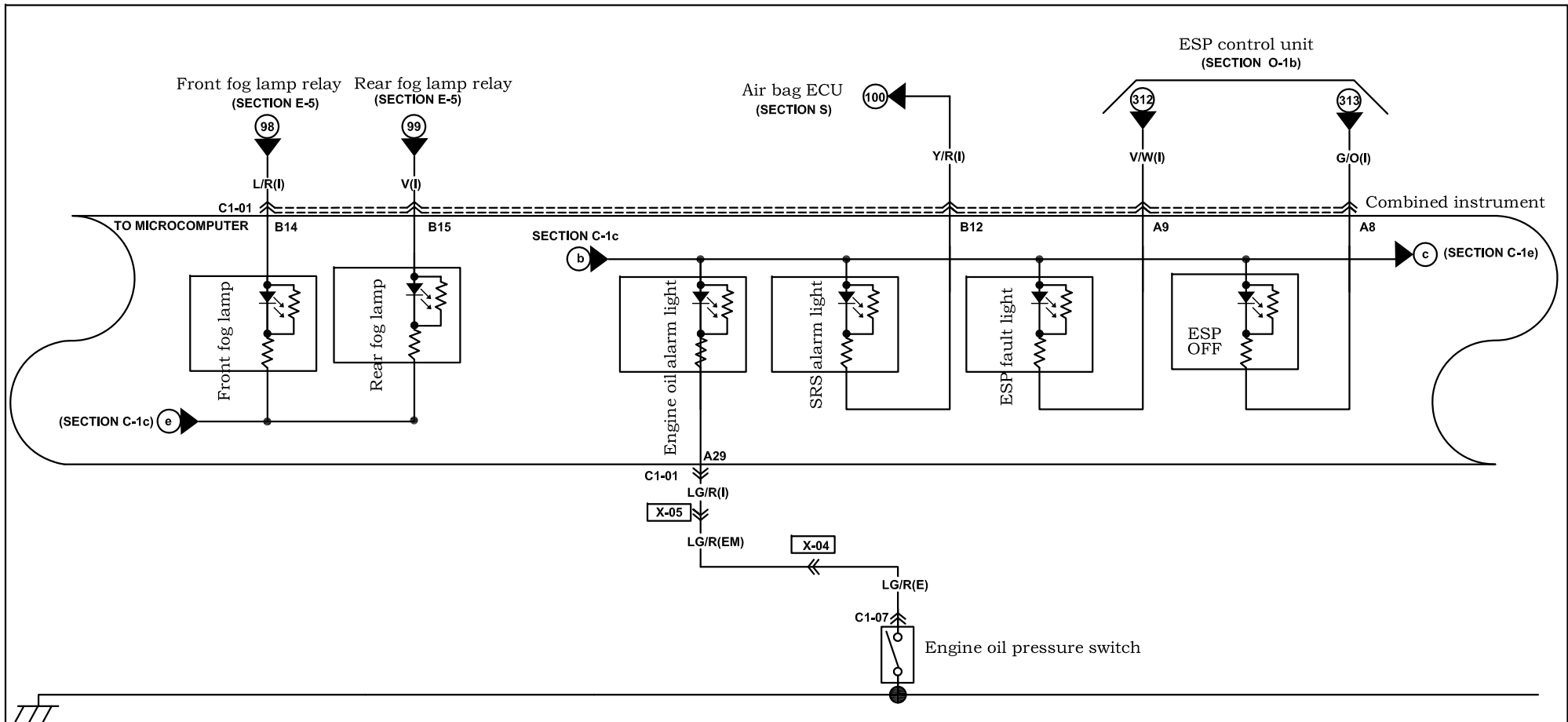


C1-06 Parking switch (D)



Harness mark:  (F)  (E)  (D)  (R)





C1-01 Combined instrument (I)

( ) with ESP

A1	B/Y	B/L	B/W	B/R	R/Y	P	Y/G	(G/O)	(V/W)	*	*	*	*	*	*	A16
A17	LG	LG/B	*	*	*	*	*	*	*	*	*	G/B	LG/R	G/W	G/R	A32

C1-01 Combined instrument (I)

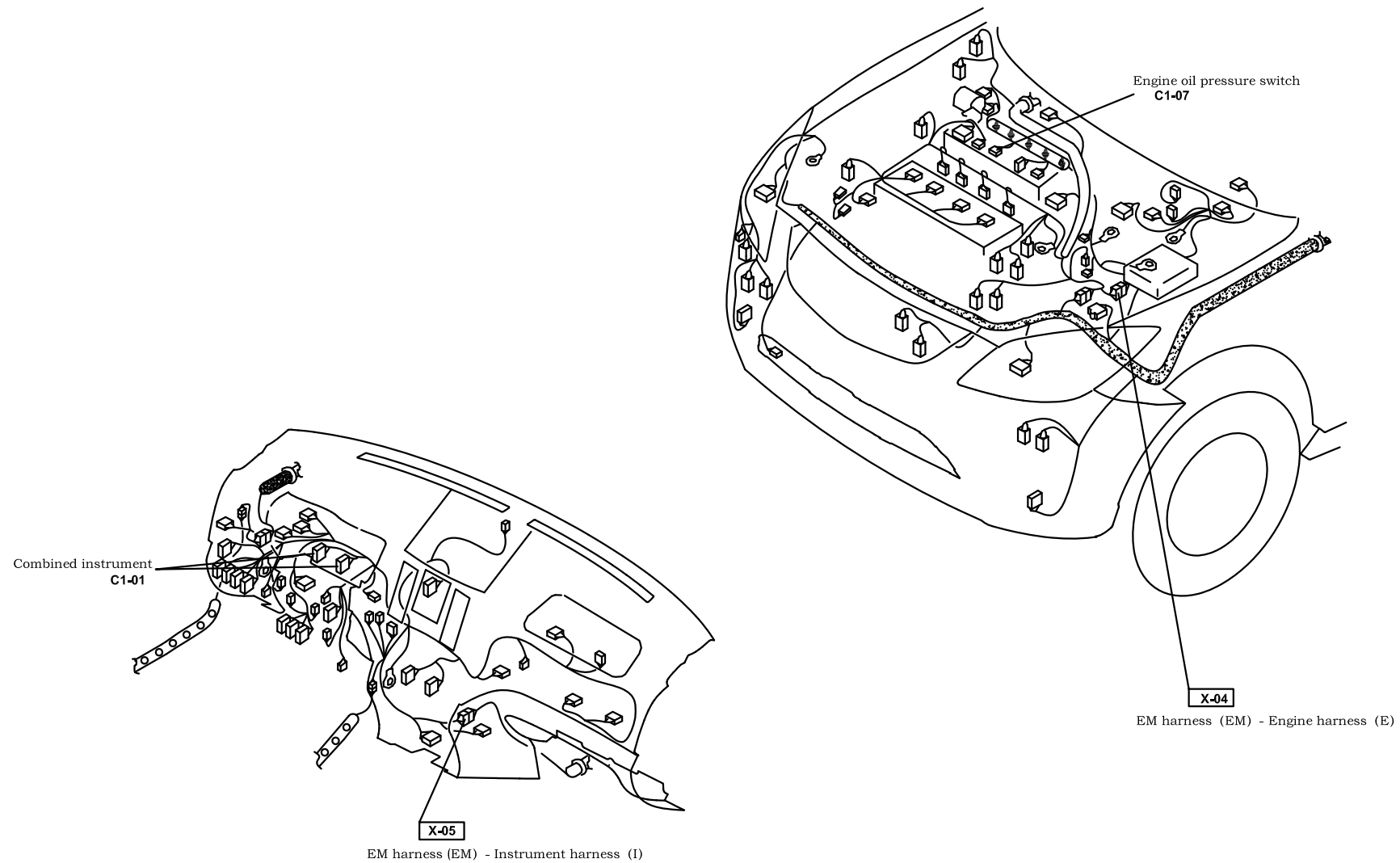
\$ with PEPS  
@ with ignition switch

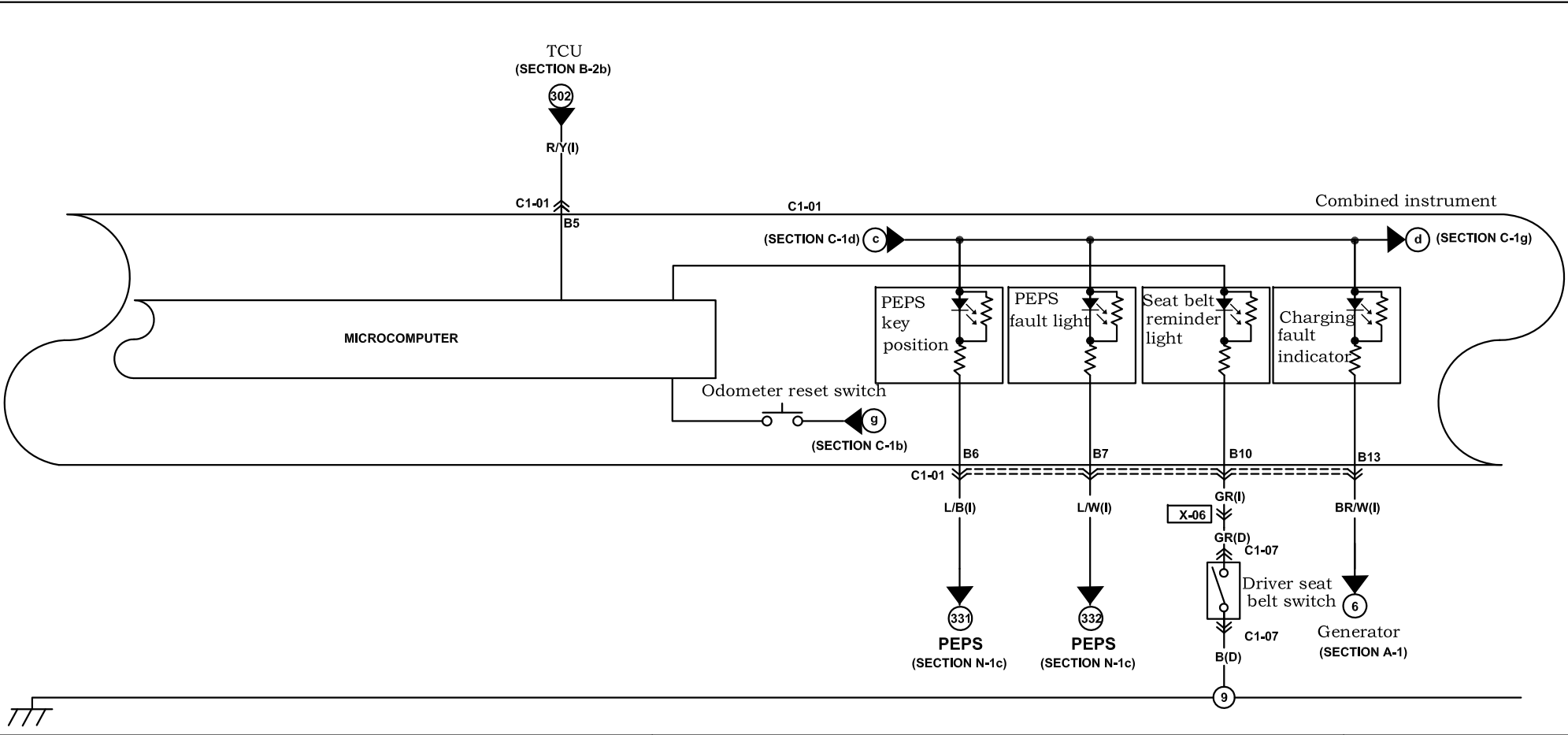
B1	B	B/G	L/O	*	BR/G	\$L/B	\$L/W	G/Y	B/W	GR	GR/Y	Y/R	BR/W	L/R	V	Y/B	B16
B17	BR/Y	Y	@R	@V/W	BR/E	*	*	*	*	*	*	*	*	*	*	*	B32

C1-07 Engine oil pressure switch(E)



Harness mark:  (F)  (E)  (D)  (R)





C1-01 Combined instrument (I)

( ) with ESP

A1

B/Y	B/L	B/W	B/R	R/Y	P	Y/G	(G/O)	(V/W)	*	*	*	*	*	*	*	*
LG	LG/B	*	*	*	*	*	*	*	*	*	G/B	LG/R	G/W	G/R	Y/L	

A17

A32

C1-01 Combined instrument (I)

\$ with PEPS  
@ with ignition switch

B1

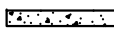
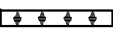
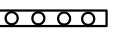
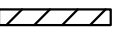
B	B/G	L/O	*	BR/G	\$L/B	\$L/W	G/Y	B/W	GR	GR/Y	Y/R	BR/W	L/R	V	Y/B
BR/Y	Y	@R	@V/W	BR/E	*	*	*	*	*	*	*	*	*	*	*

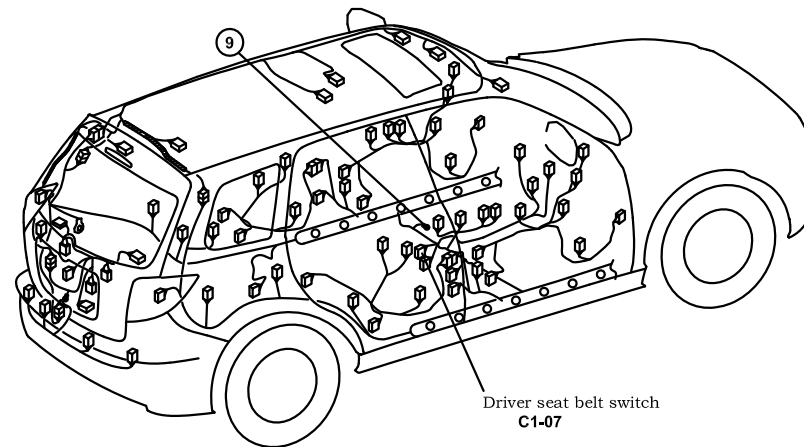
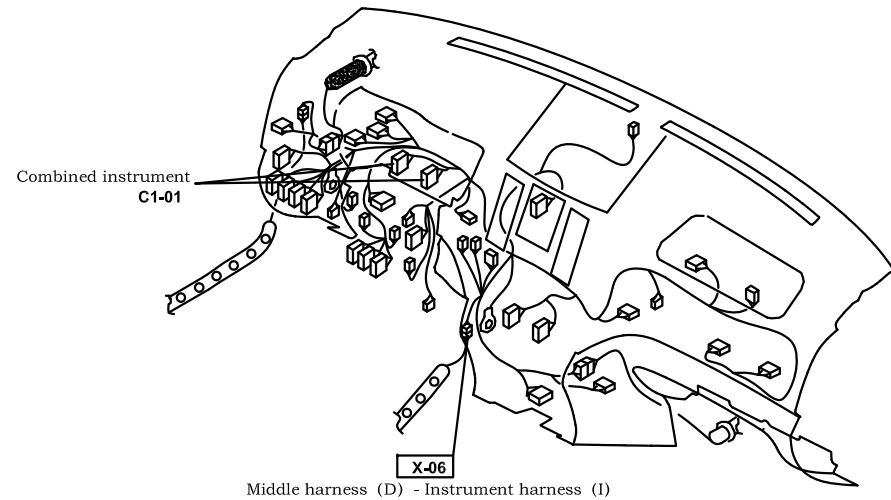
B17

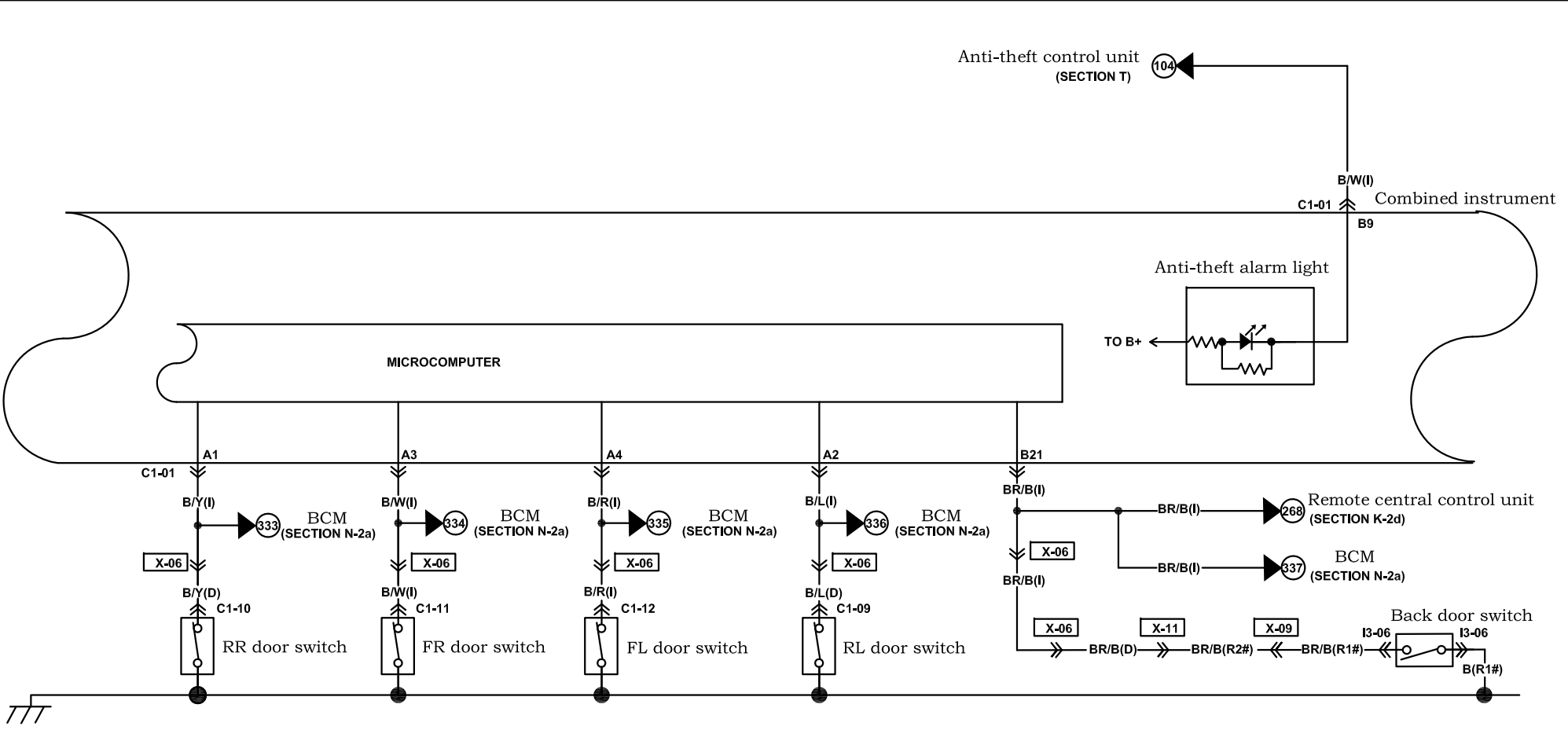
B32

C1-07 Driver seat belt switch (D)



Harness mark:  (F)  (E)  (D)  (R)





C1-01

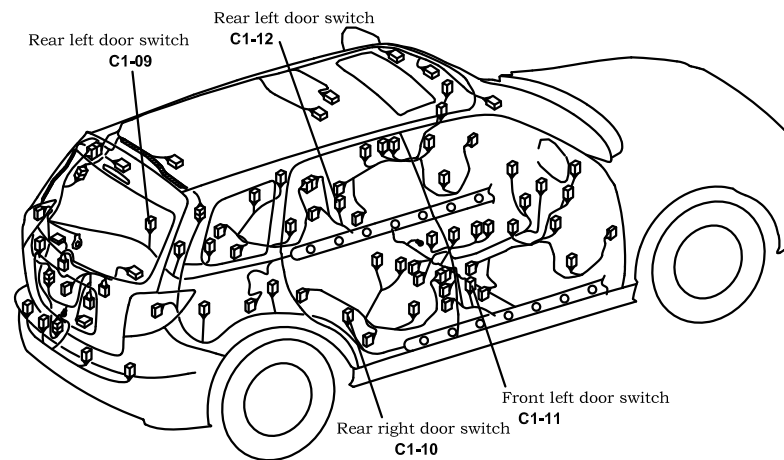
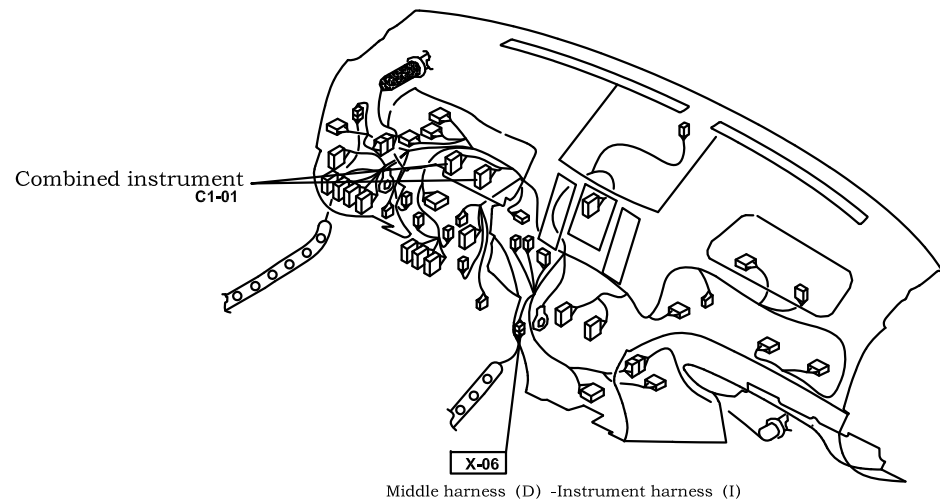
Combined instrument (I)

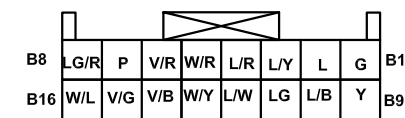
( ) with ESP





A1

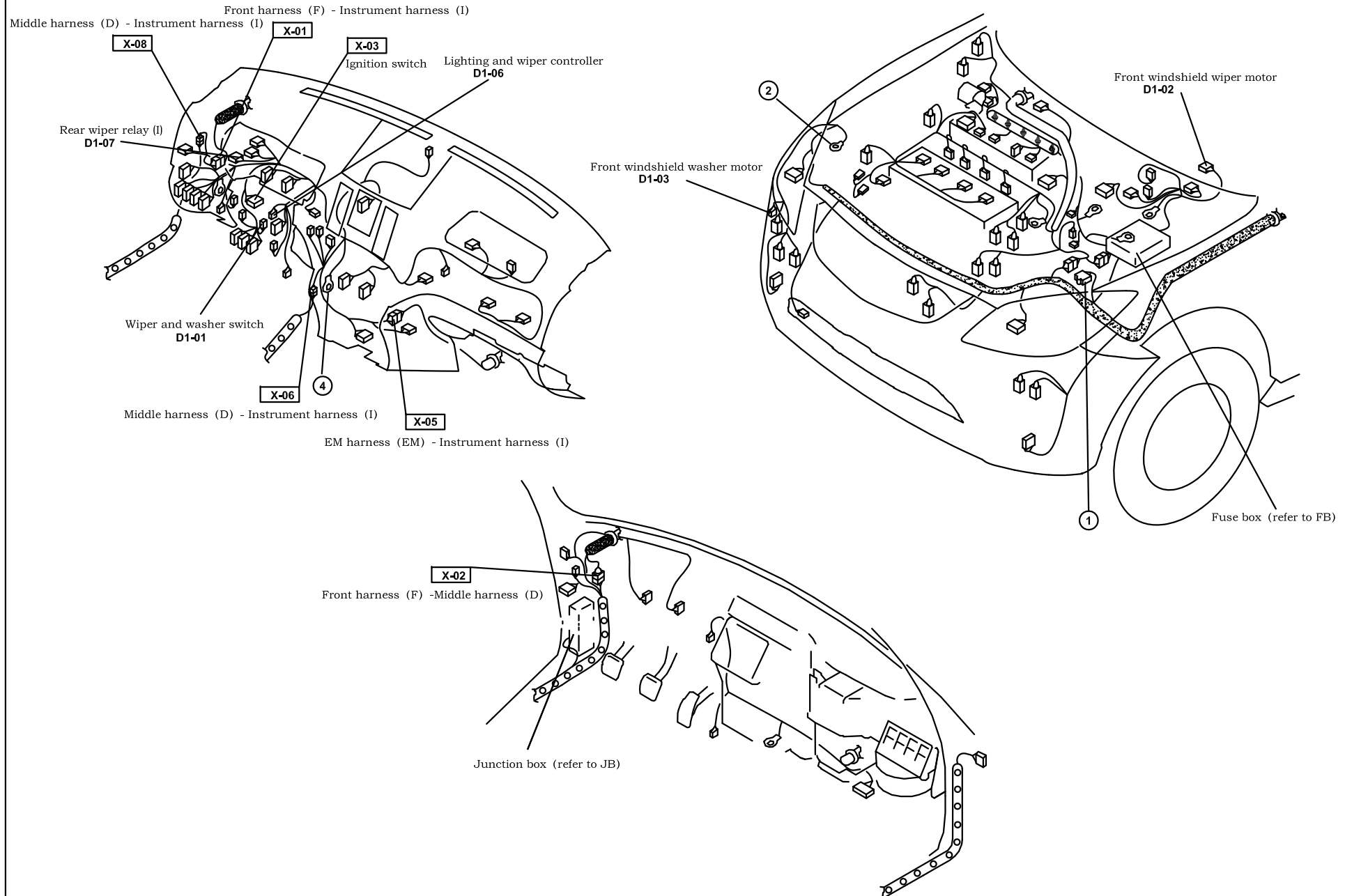
B/Y	B/L	B/W	B/R	R/Y	P	Y/G	(G/O)	(V/W)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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Harness mark:  (F)  (E)  (D)  (R)

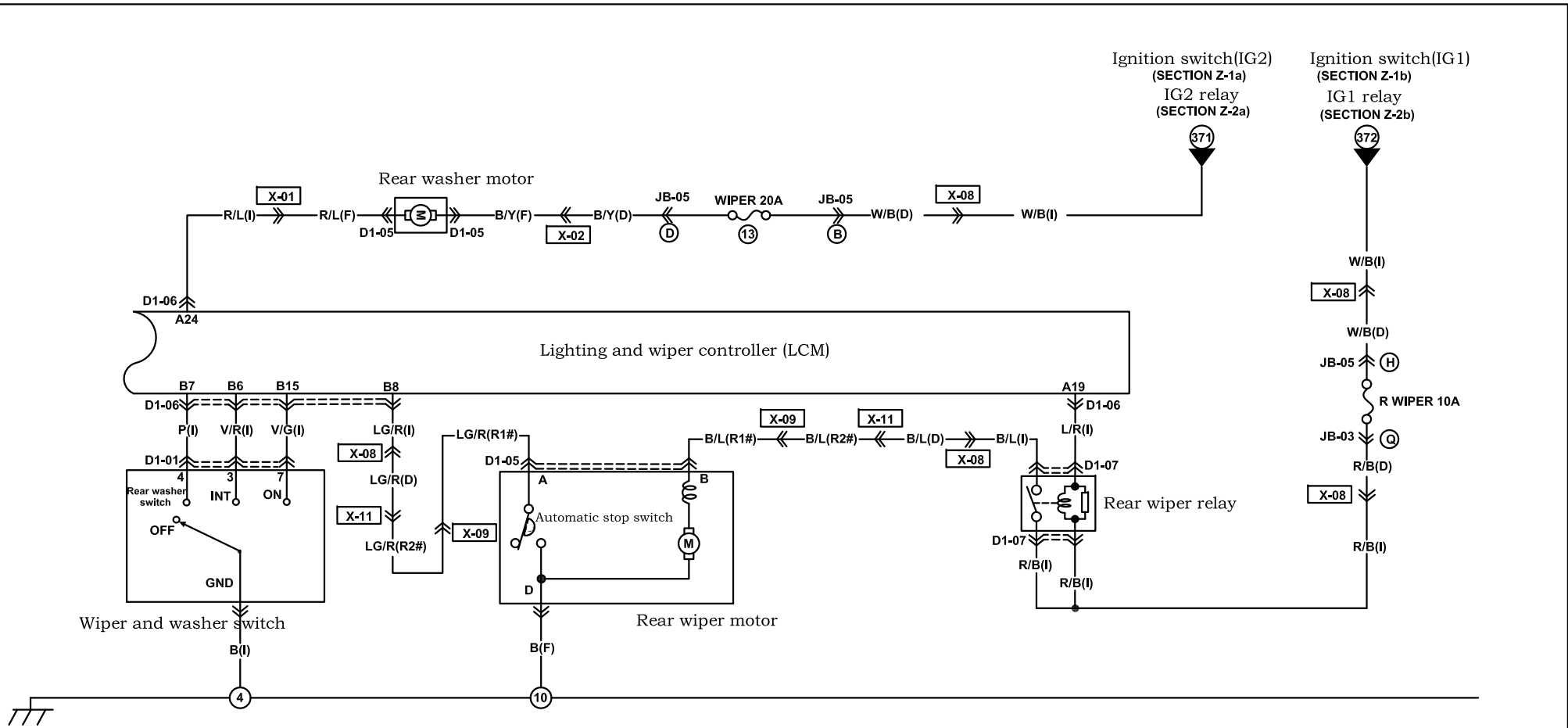




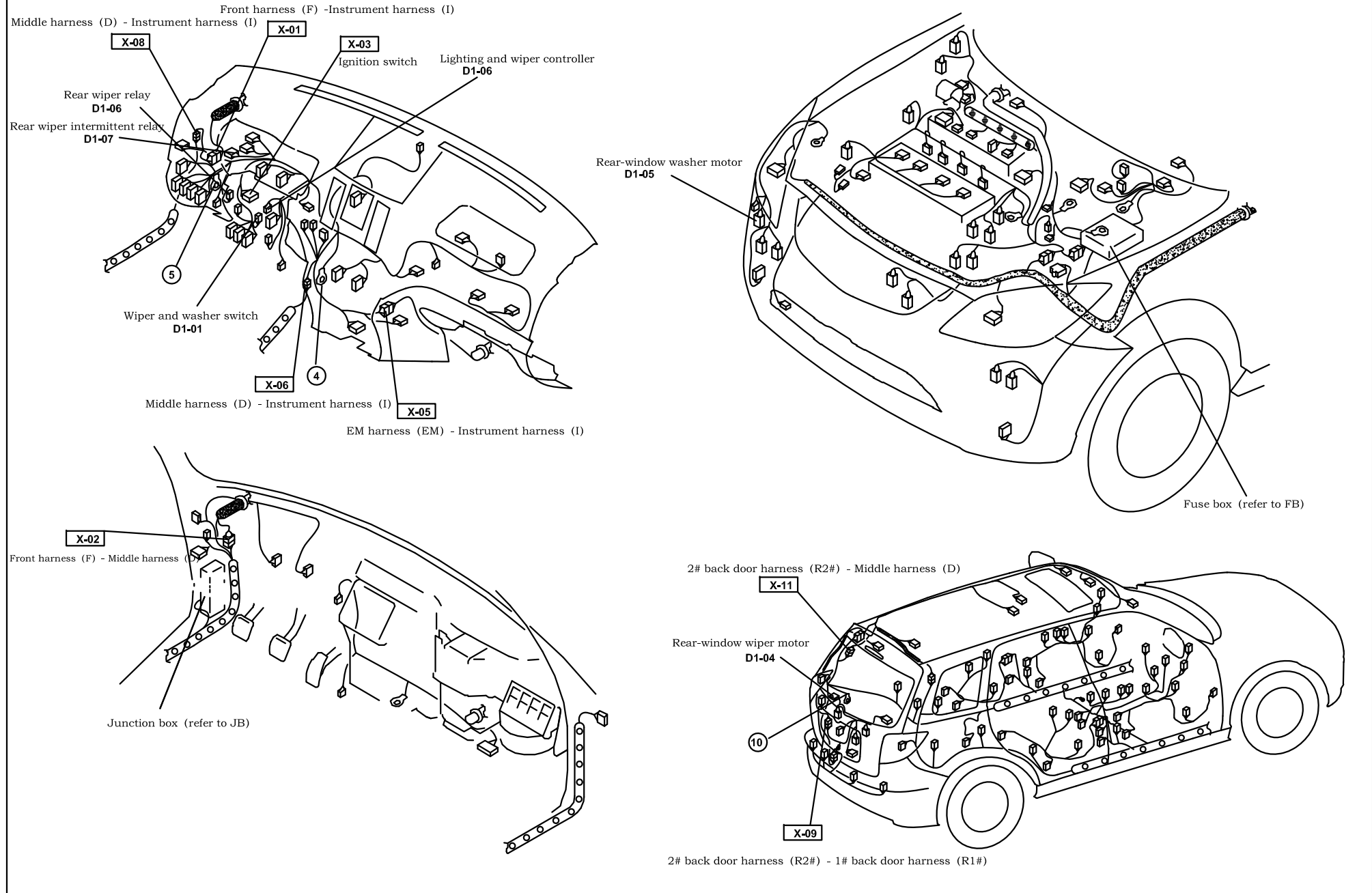
Harness mark:  (F)  (E)  (D)  (R)



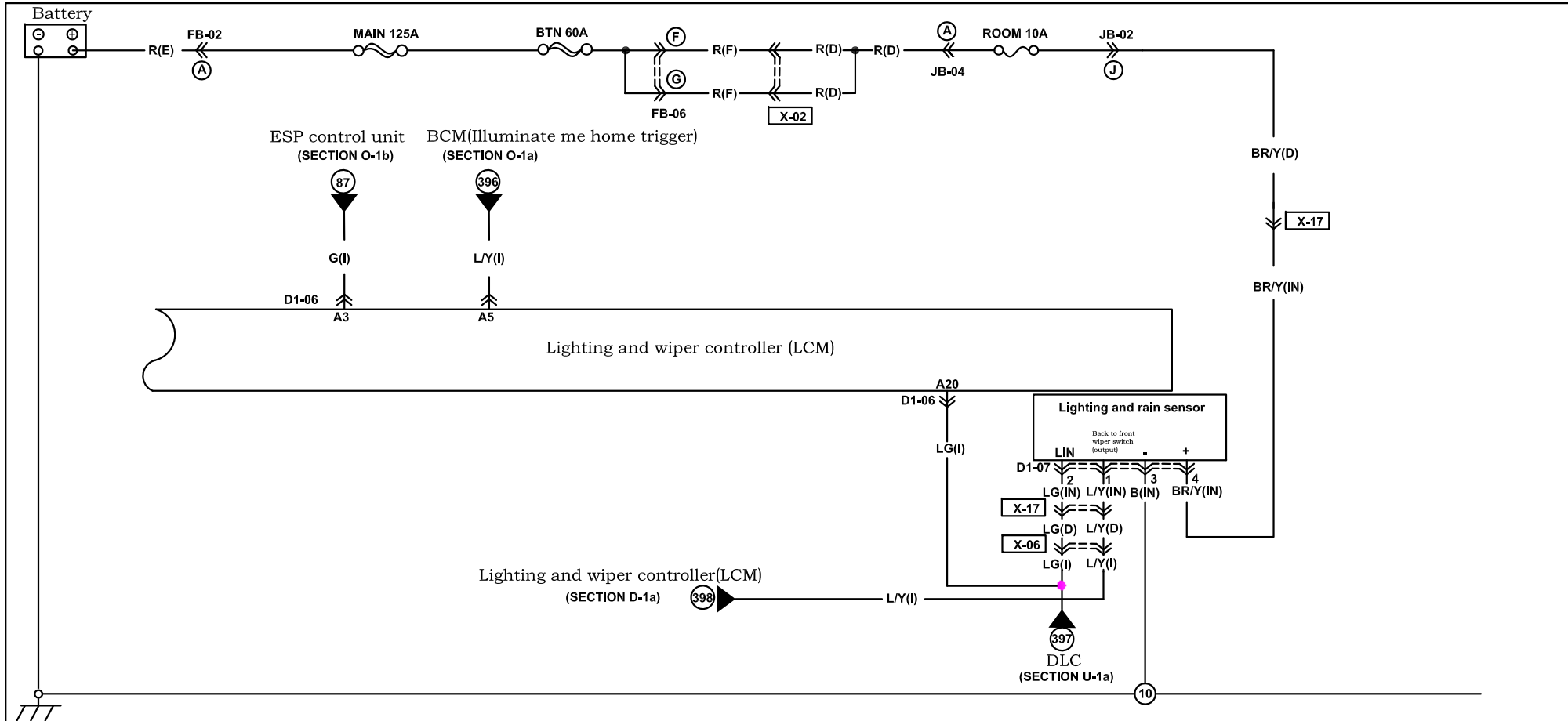
## Rear-window wiper and washer



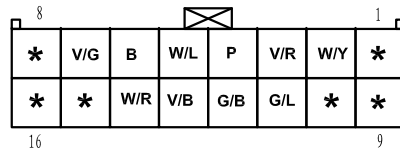
Harness mark:  (F)  (E)  (D)  (R)



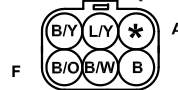
## Windshield wiper and washer (automatic)



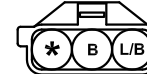
D1-01 Wiper and washer switch (I)



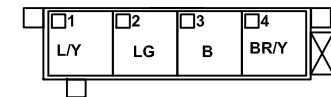
D1-02 Front windshield wiper motor (F)



D1-03 Front windshield washer motor (F)

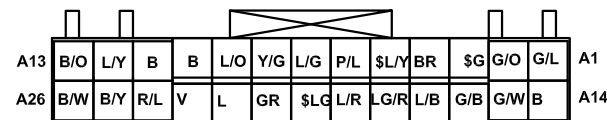


D1-07 Lighting and rain sensor (IN)

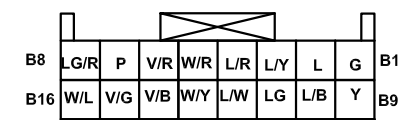


D1-06 Lighting and wiper controller (I)

\$Automatic headlamp wiper models

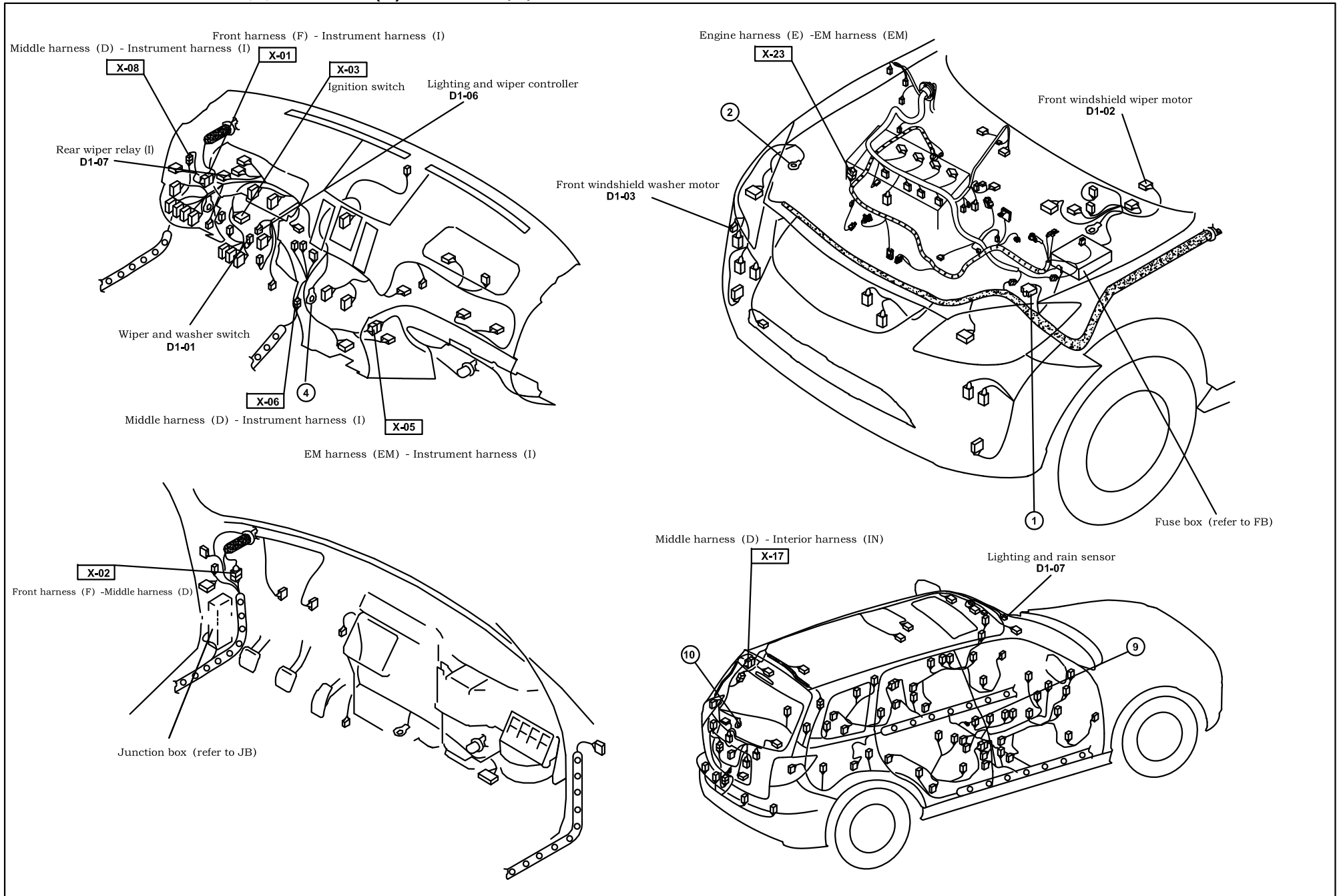


D1-06 Lighting and wiper controller (I)

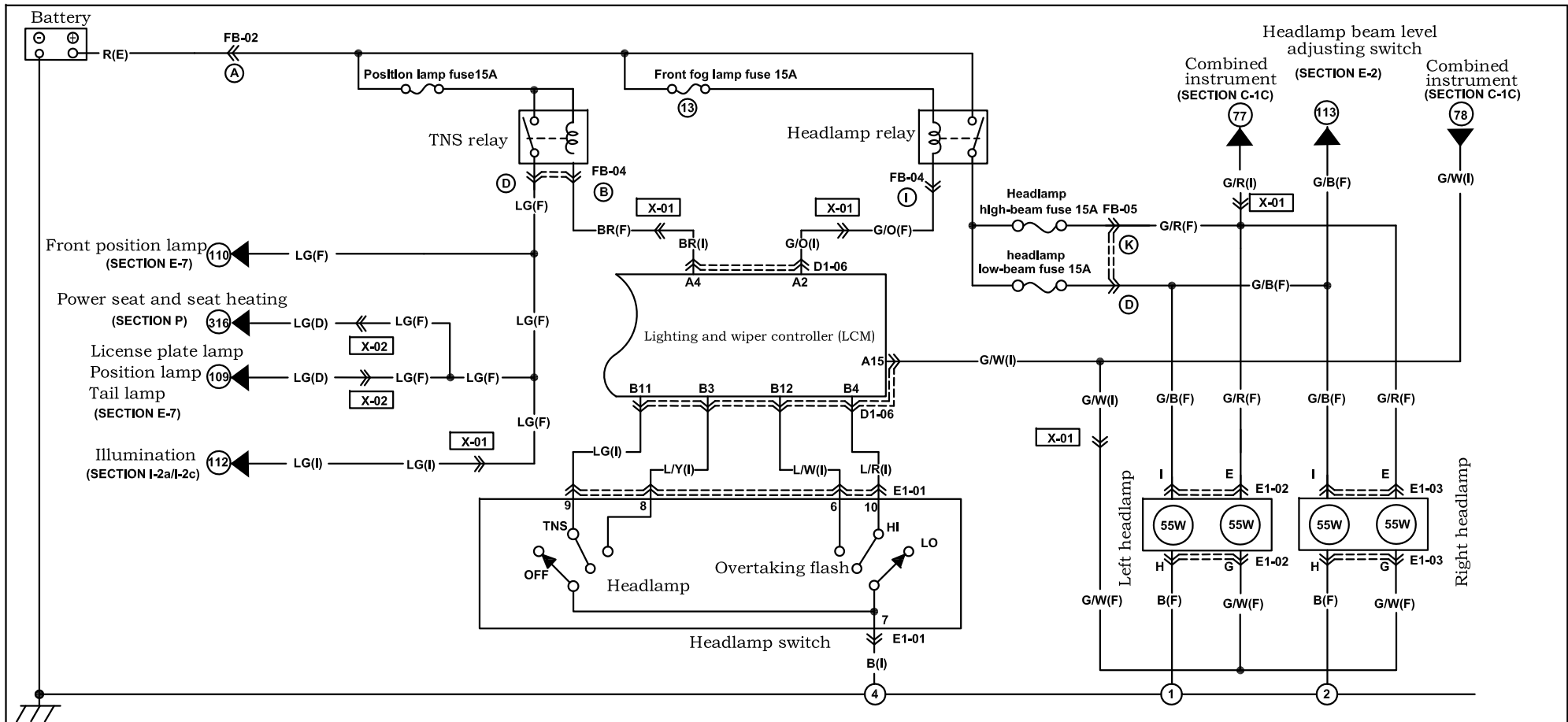




Harness mark:  (F)  (E)  (D)  (R)




## Headlamp

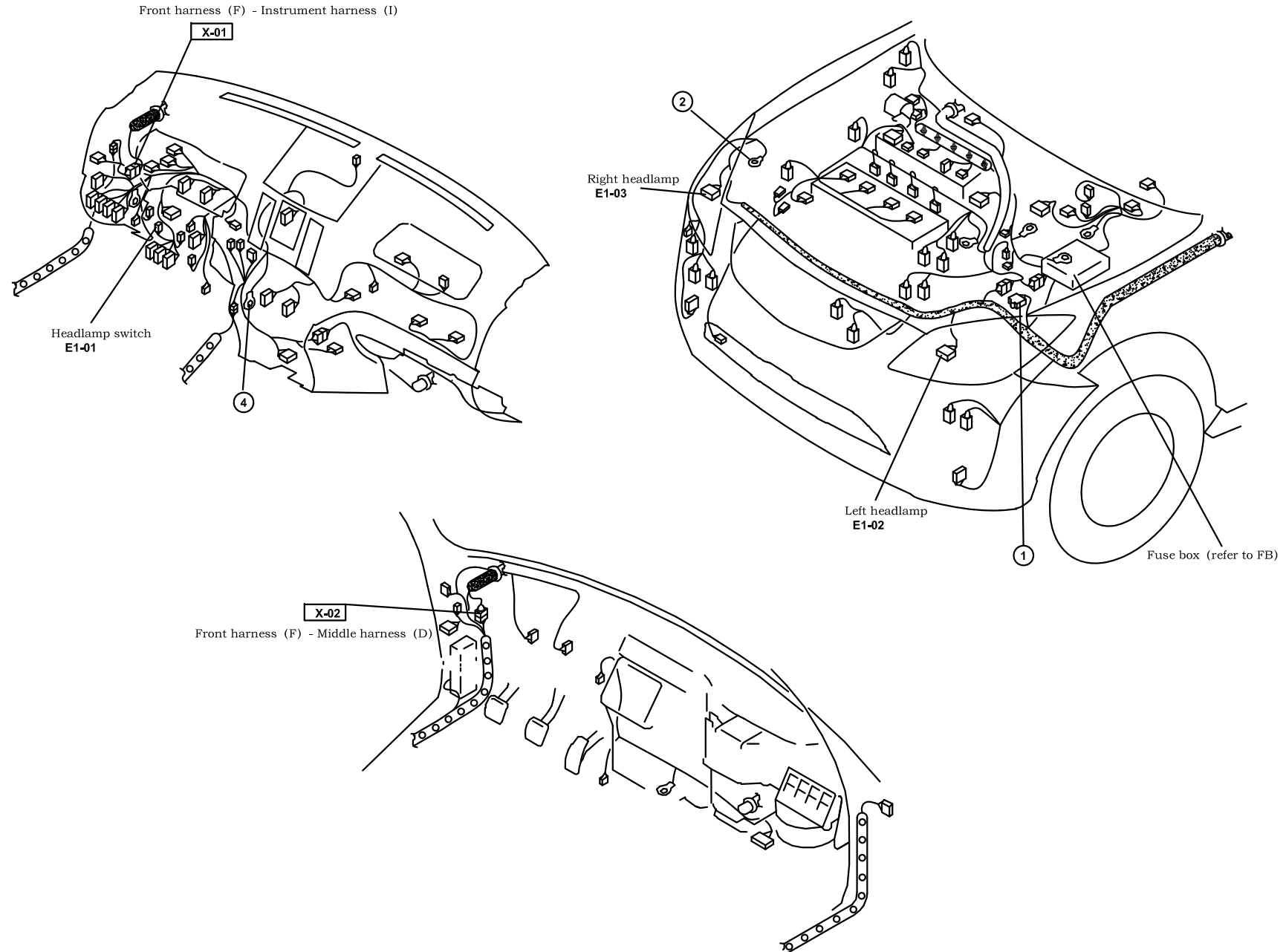


E1-01 Headlamp switch (I)

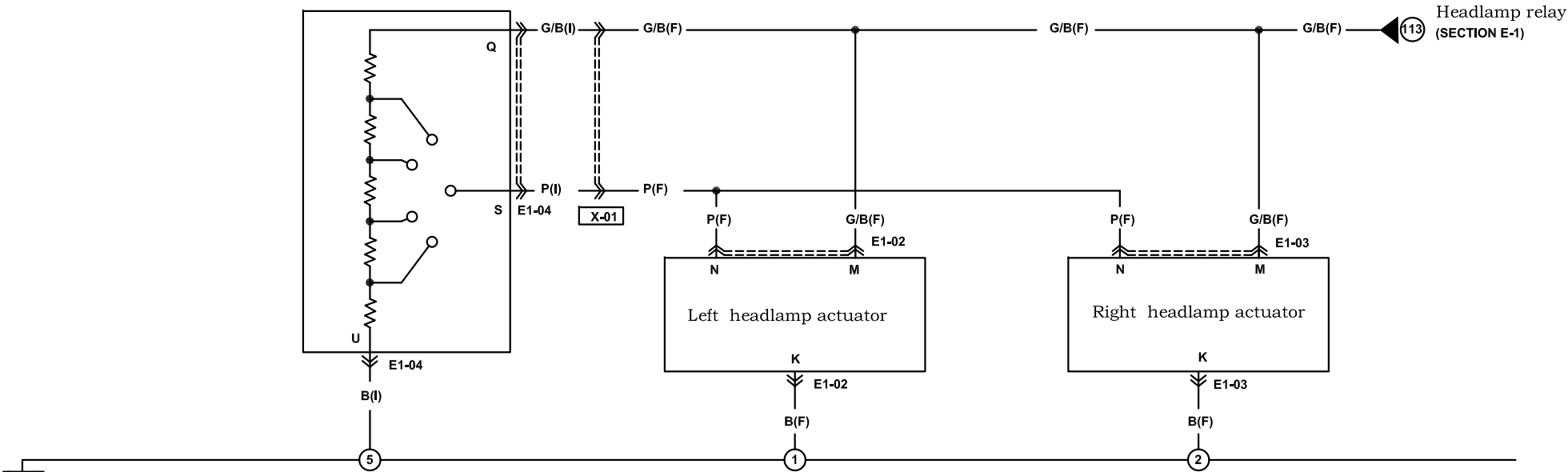
E1-02 Left headlamp (F)

E1-03 Right headlamp (F)

Harness mark:  (F)  (E)  (D)  (R)





Headlamp beam level adjusting switch





E1-01 Headlamp switch (D)

6	L/W	*	L/O	L/G	L/B	L	1
12	*	*	L/R	LG	L/Y	B	7

E1-02 Left headlamp (F)



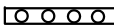

M	K	I		E	C	A
						
G/B	B	G/B	G/W	G/R	*	*
P	LG	GR	B	B	Y/L	*
N	L	J	F	D	B	

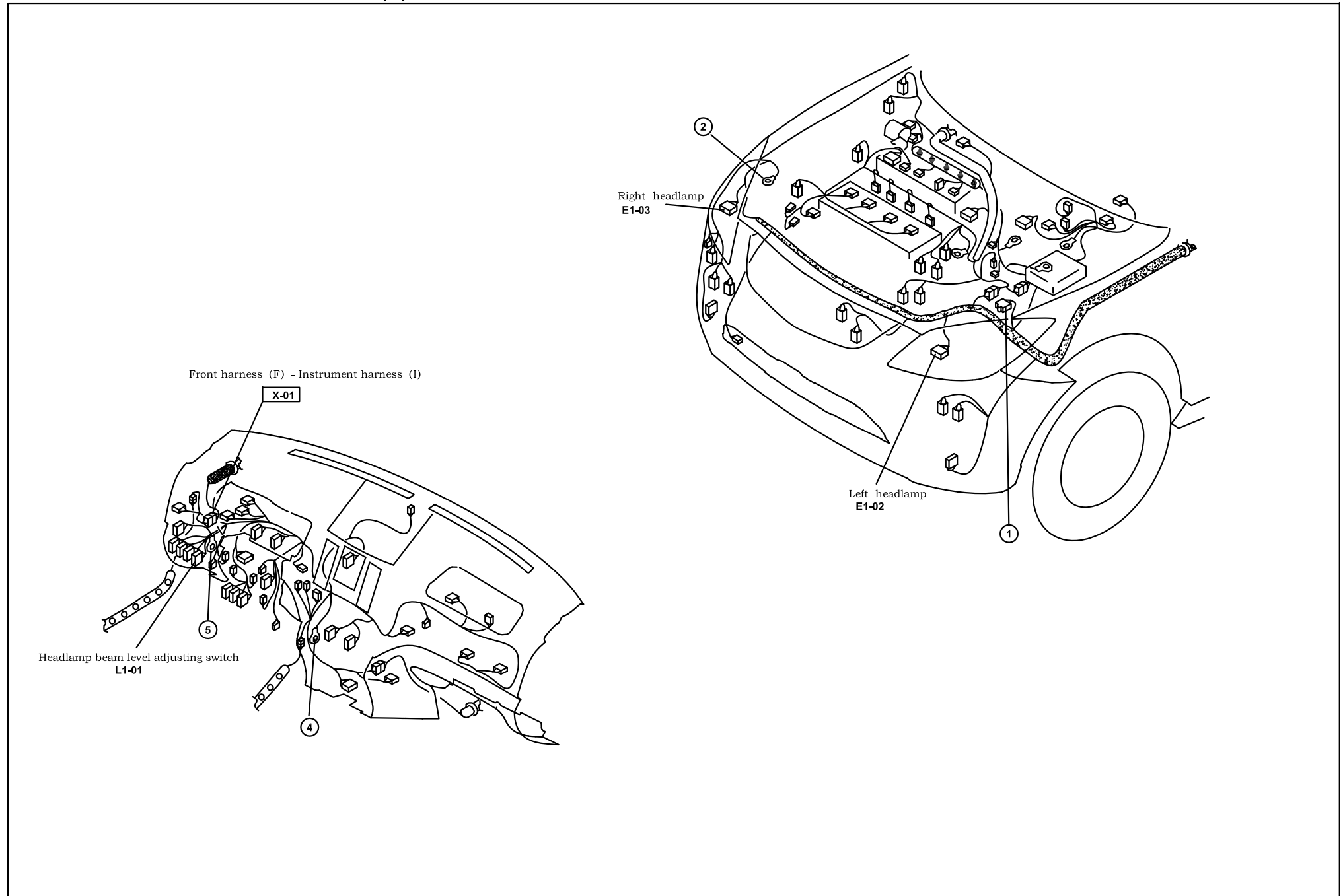
E1-03 Right headlamp (F)

M	K	I		E	C	A
						
G/B	B	G/B	G/W	G/R	*	*
P	LG	GR	B	B	Y/L	*
N	L	J	F	D	B	

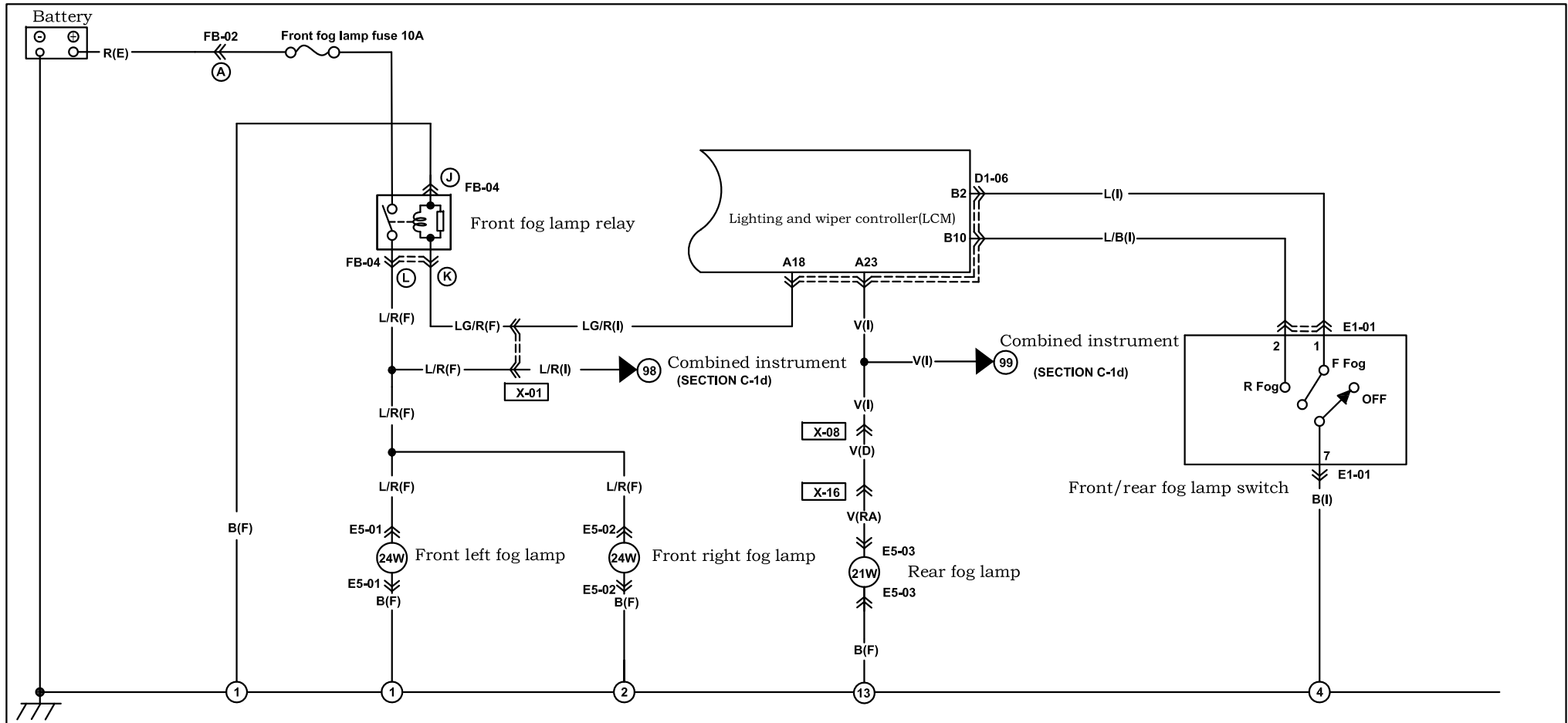
L1-01 Headlamp beam level adjusting switch (I)

S	Q	O	M	K	I	G	E	C	A
R/B	LG	LG/B	L/W	L	L/O	L/B	V	R/G	R/Y
B	P	G/B	*	W	*	*	*	*	B
T	R	P	N	L	J	H	F	D	B

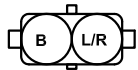
Harness mark:  (F)  (E)  (D)  (R)



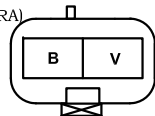
## Front/rear fog lamp



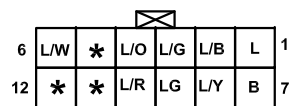
E5-01 Front left fog lamp (F)



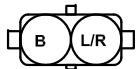
E5-03 Rear left fog lamp (RA)



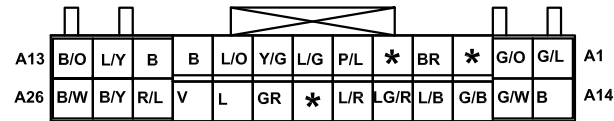
E1-01 Headlamp switch (I)



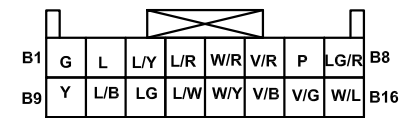
E5-02 Front right fog lamp (F)

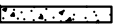

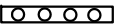



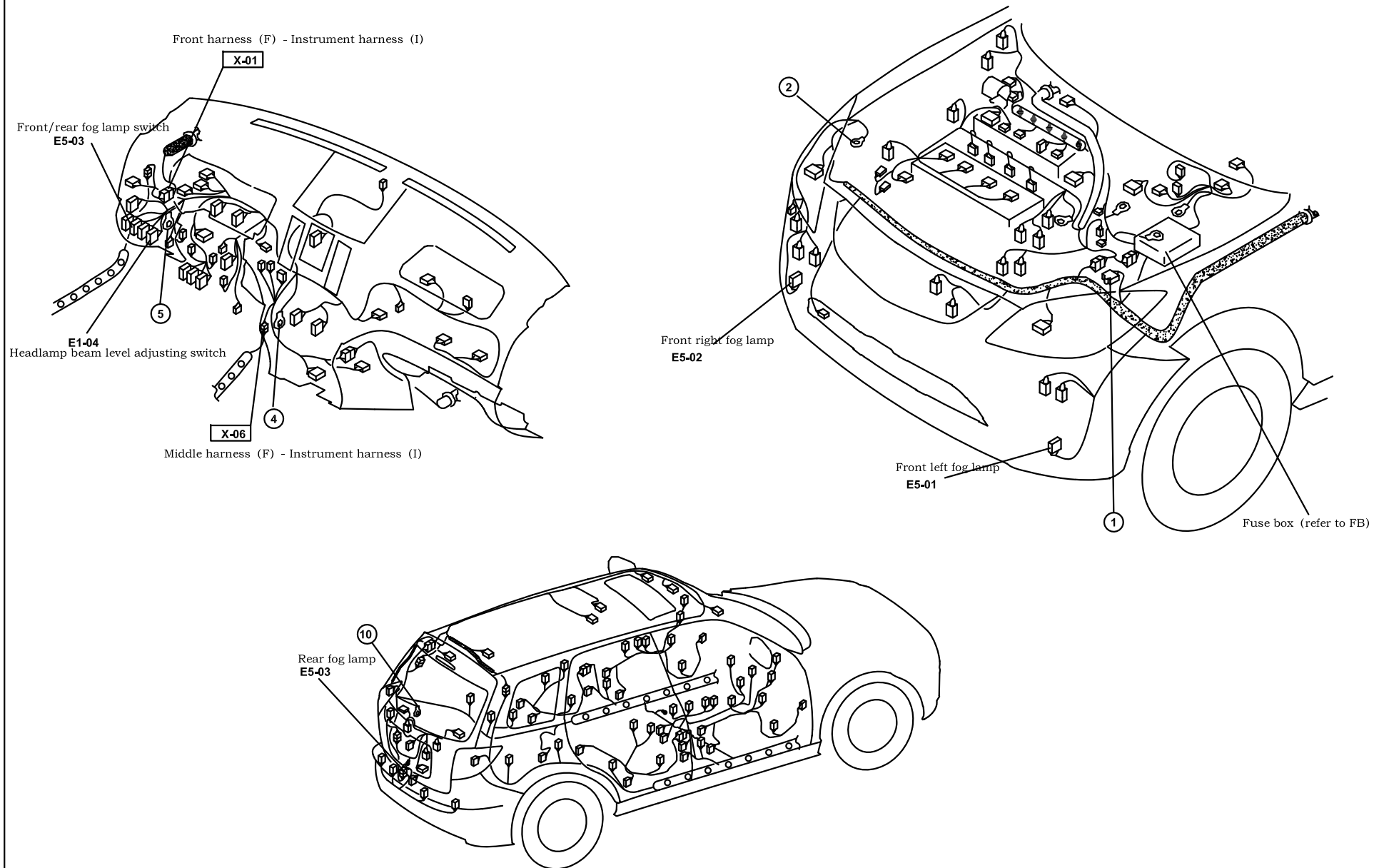
D1-06 Lighting and wiper controller (I)

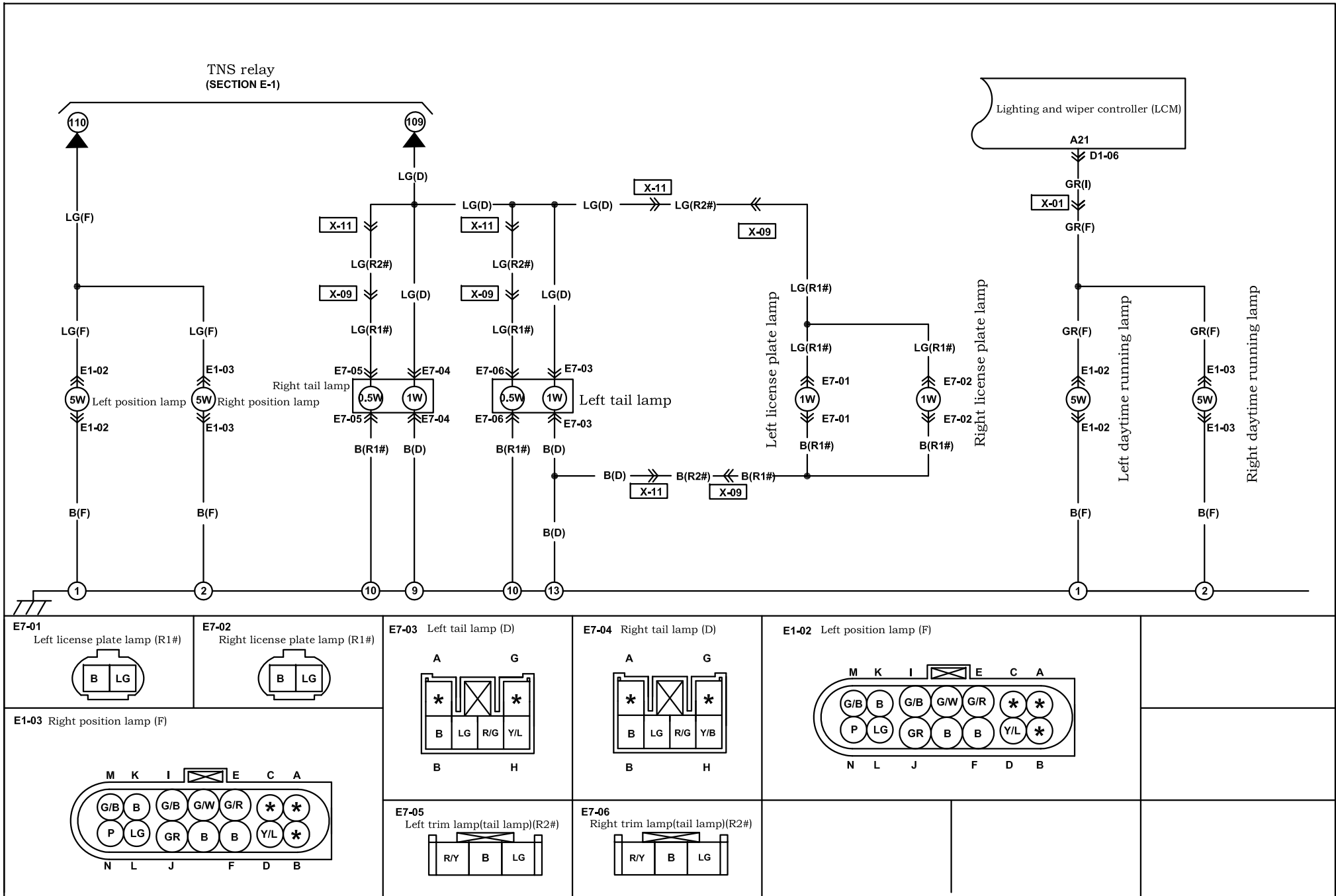


D1-06 Lighting and wiper controller (I)

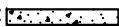





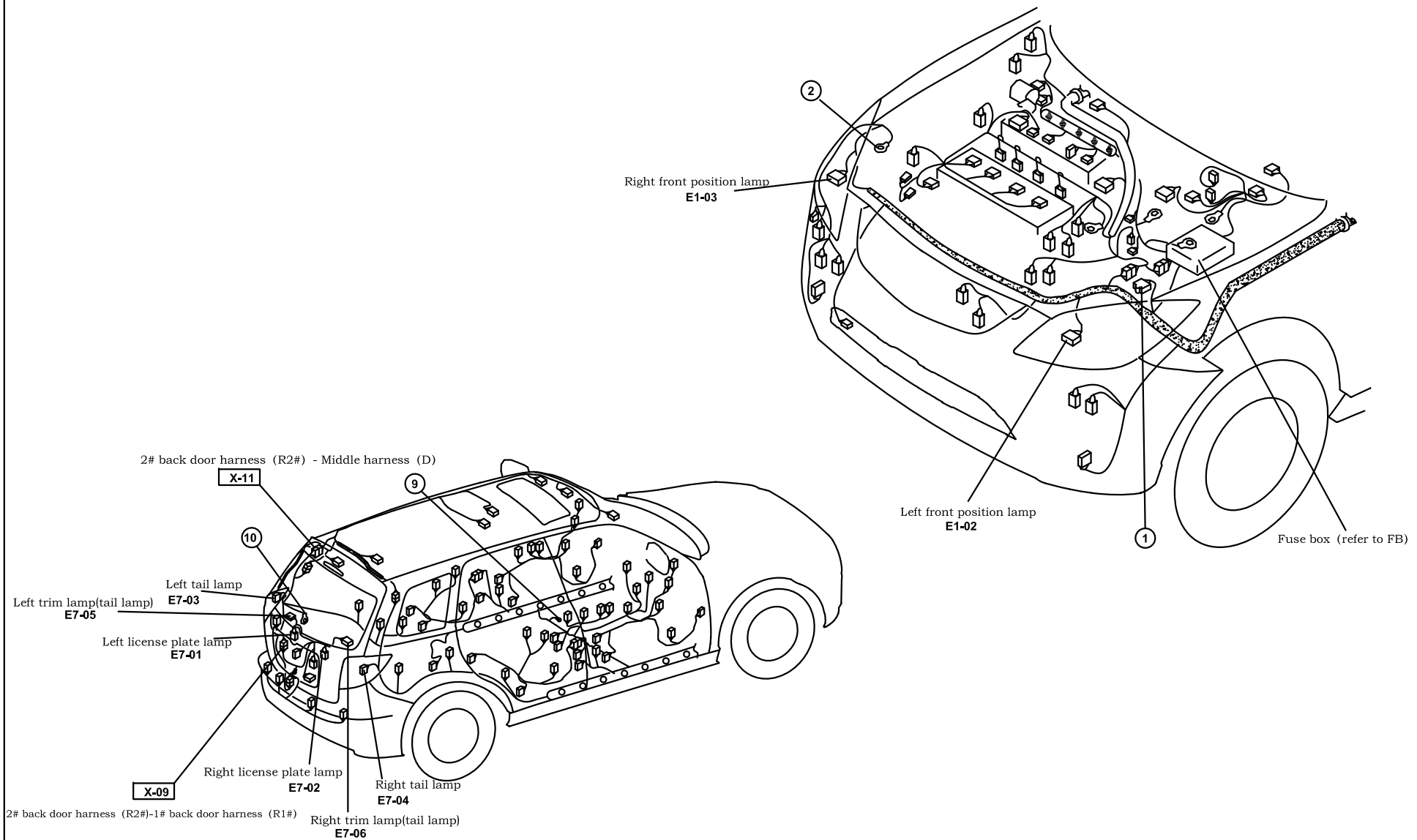
Harness mark:  (F)  (E)  (D)  (R)



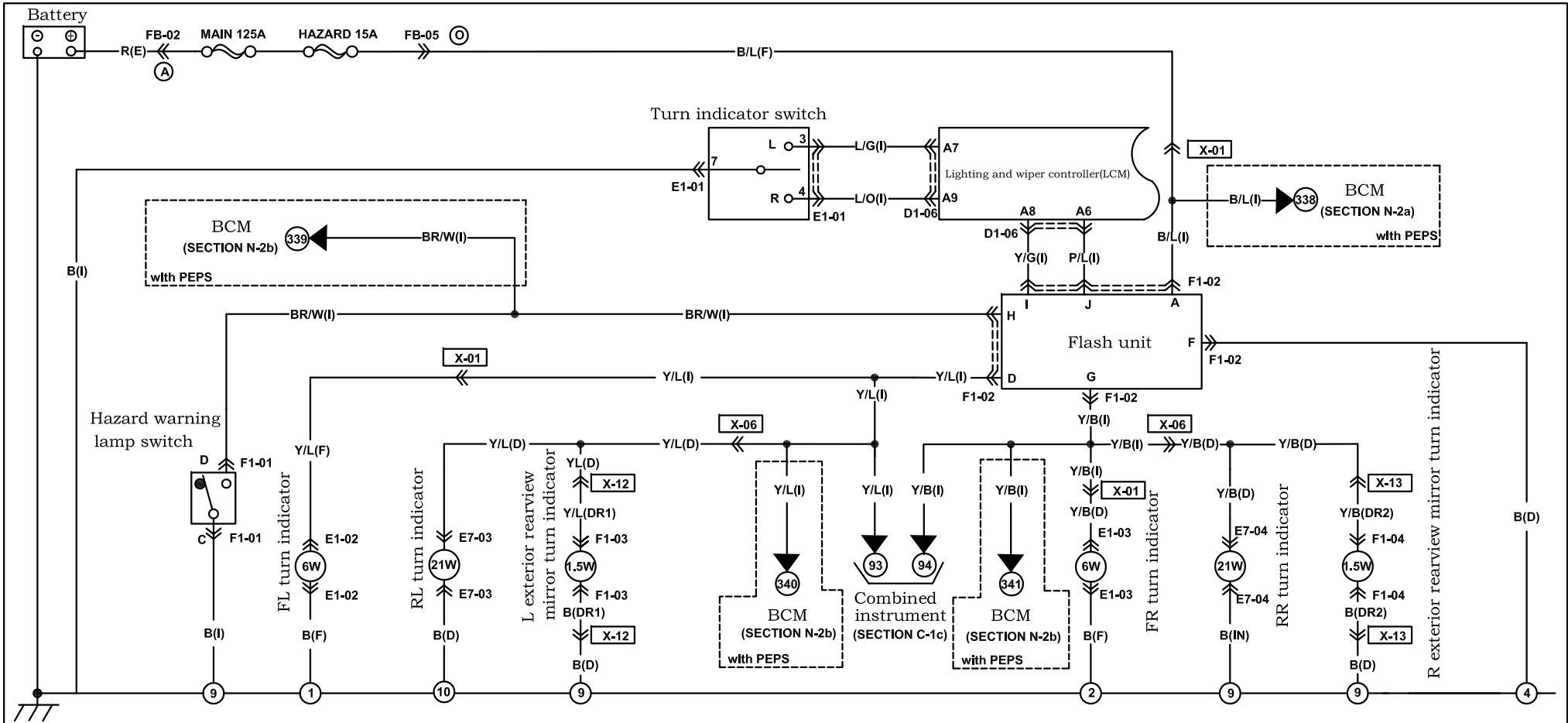




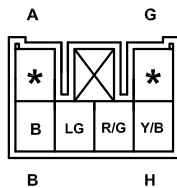
Harness mark:  (F)  (E)  (D)  (R)



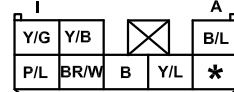
## Turn indicator and hazard warning lamp



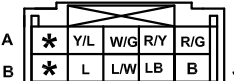
E7-04 RR turn indicator (D)



F1-02 Flash unit (D)



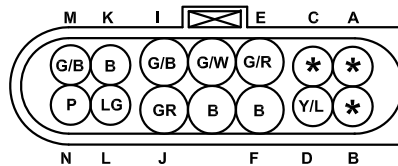
F1-03 L exterior rearview mirror turn indicator (DR1)



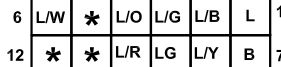
F1-04 R exterior rearview mirror turn indicator (DR2)



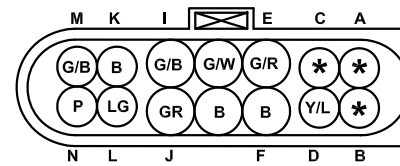
E1-02 FL turn indicator (F)



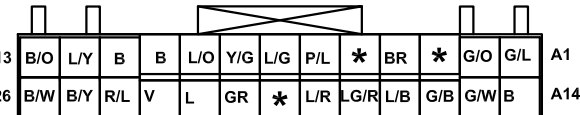
E1-01 Turn indicator switch (I)



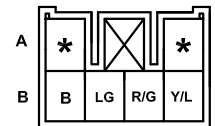
E1-03 FR turn indicator (F)



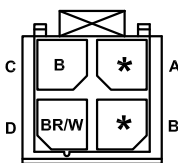
D1-06 Lighting and wiper controller (I)



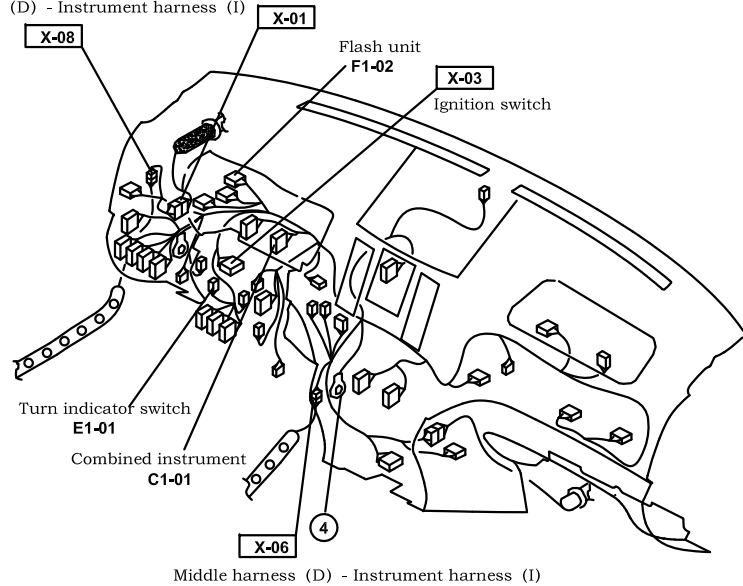
E7-03 RL turn indicator (D)



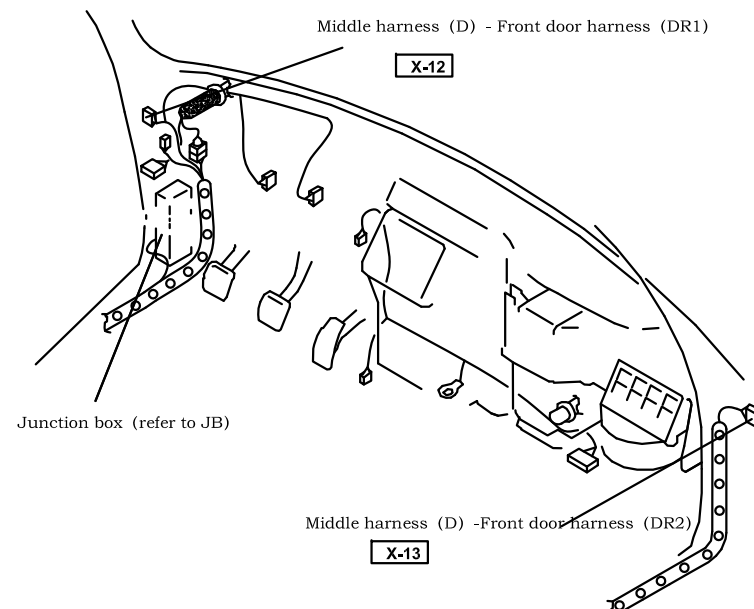
F1-01 Hazard warning lamp switch (I)



Front harness (F) - Instrument harness (I)  
Middle harness (D) - Instrument harness (I)

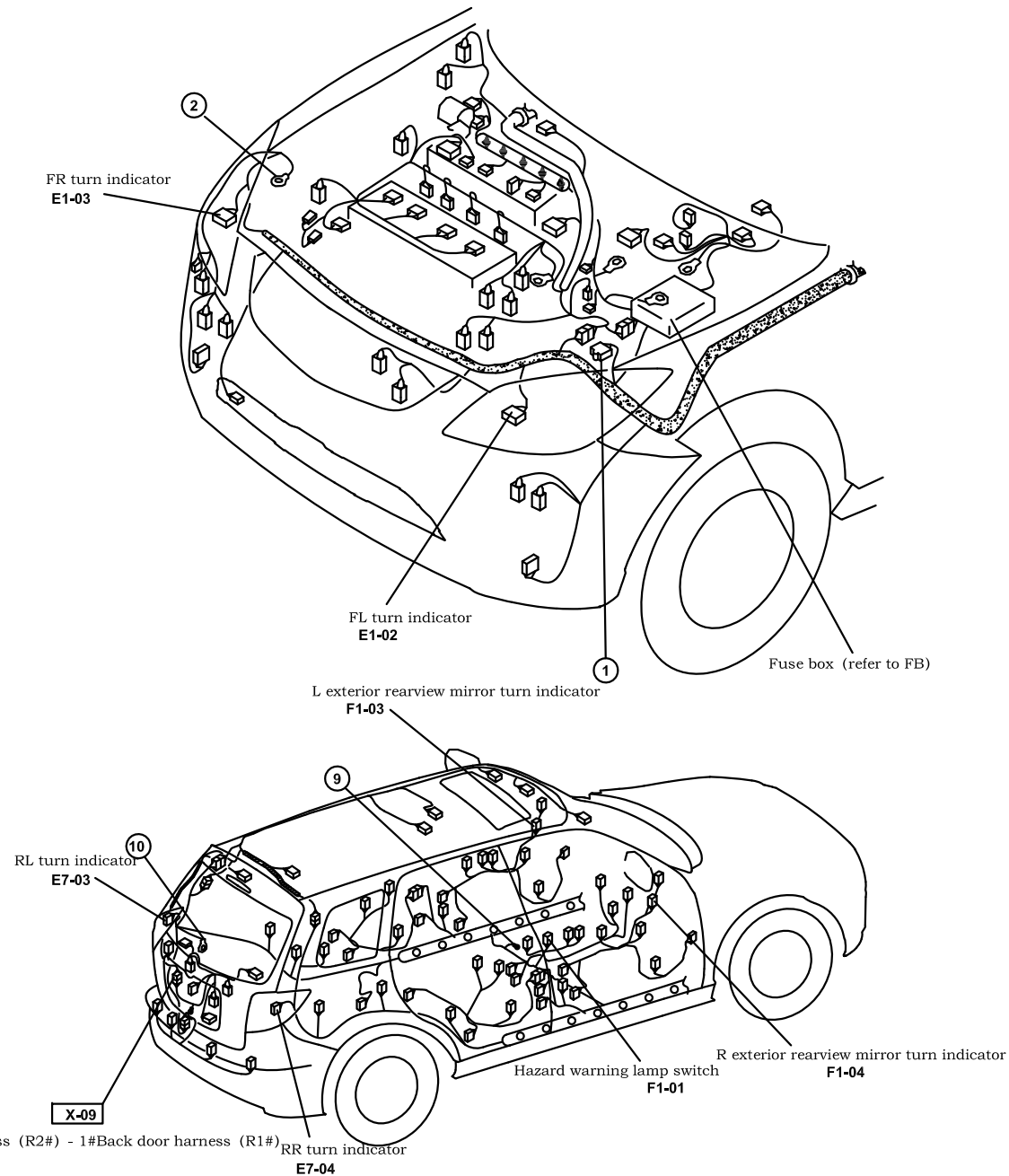


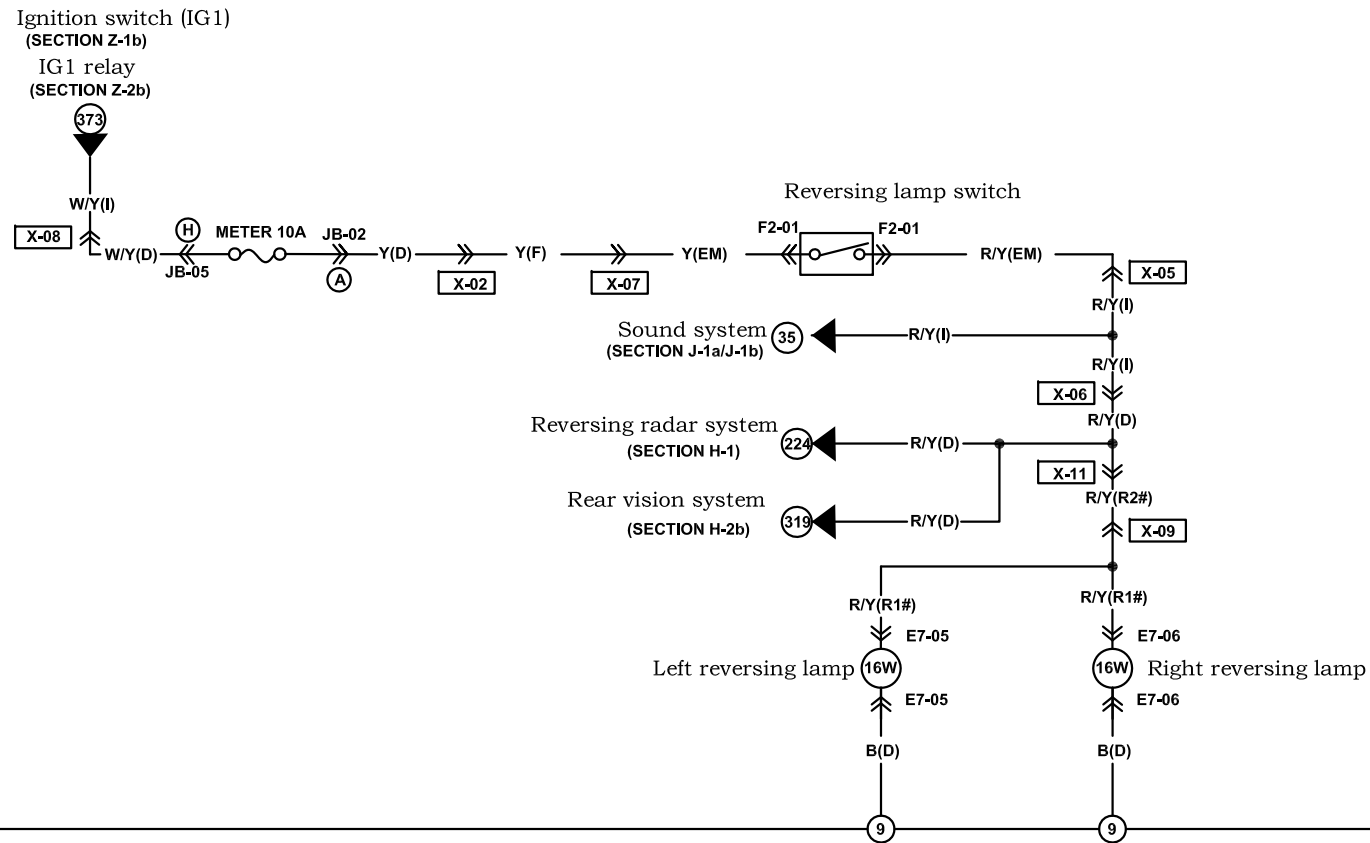
Middle harness (D) - Instrument harness (I)



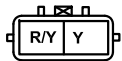
Middle harness (D) - Front door harness (DR2)

2# back door harness (R2#) - 1# Back door harness (R1#)



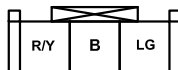


F2-01 Reversing lamp switch (EM)



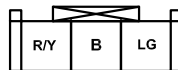
E7-05

Left trim lamp(tail lamp)(R2#)

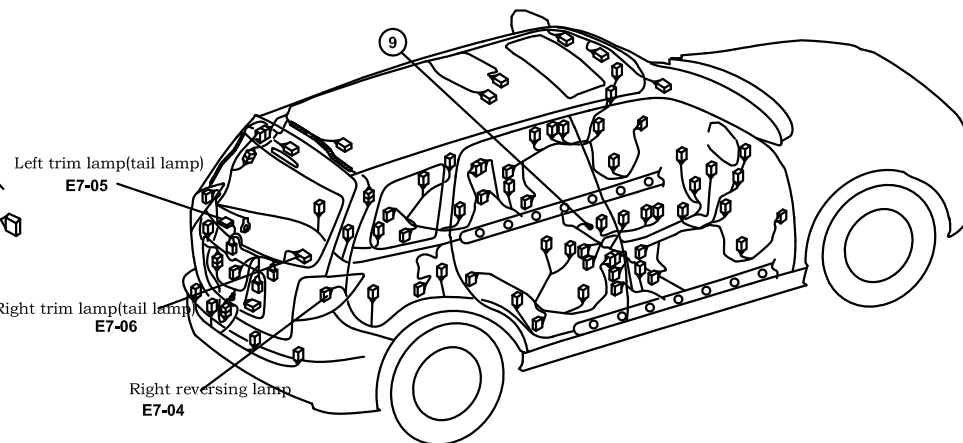
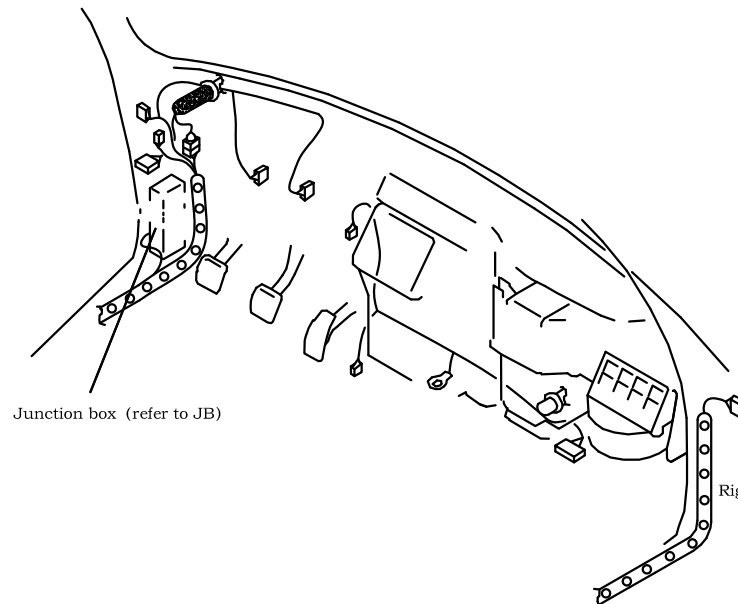
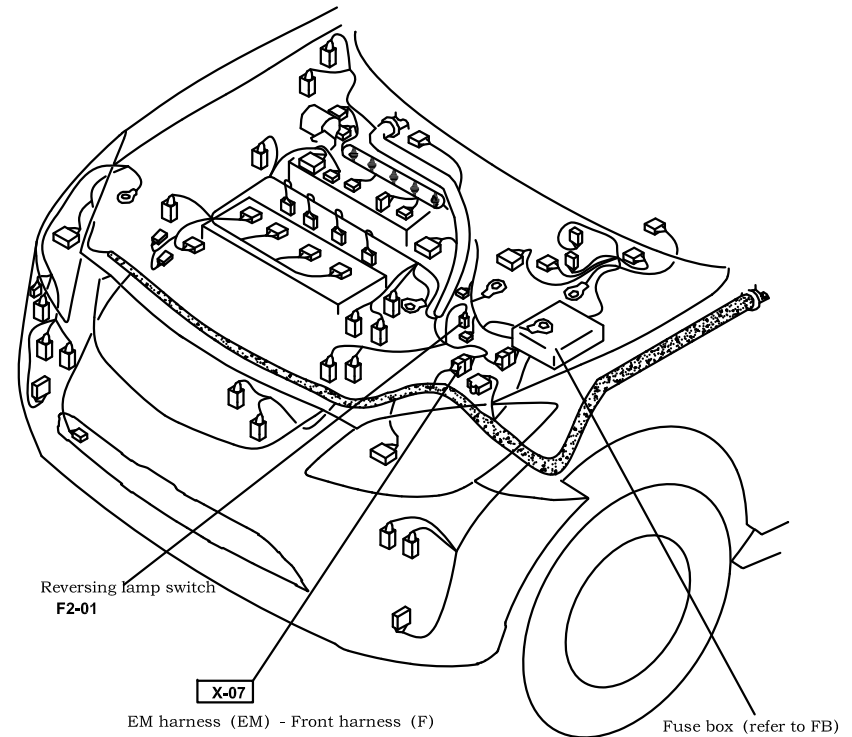
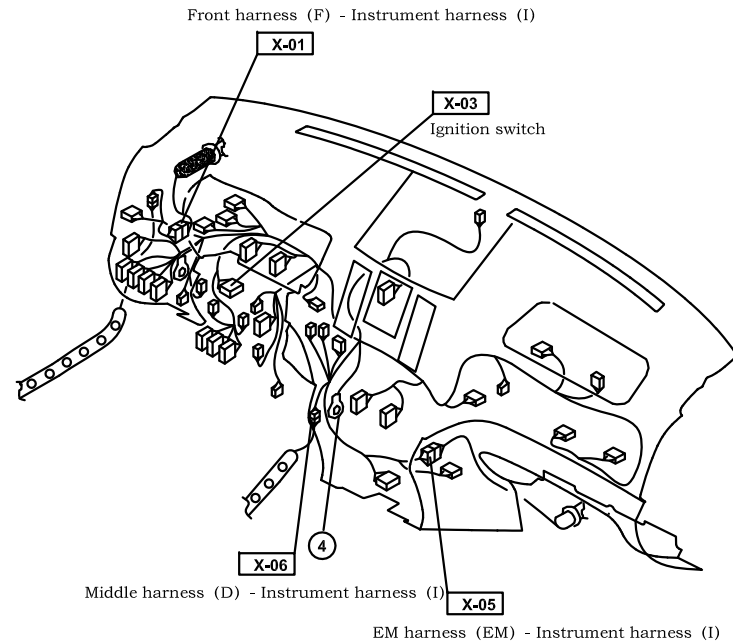


E7-06

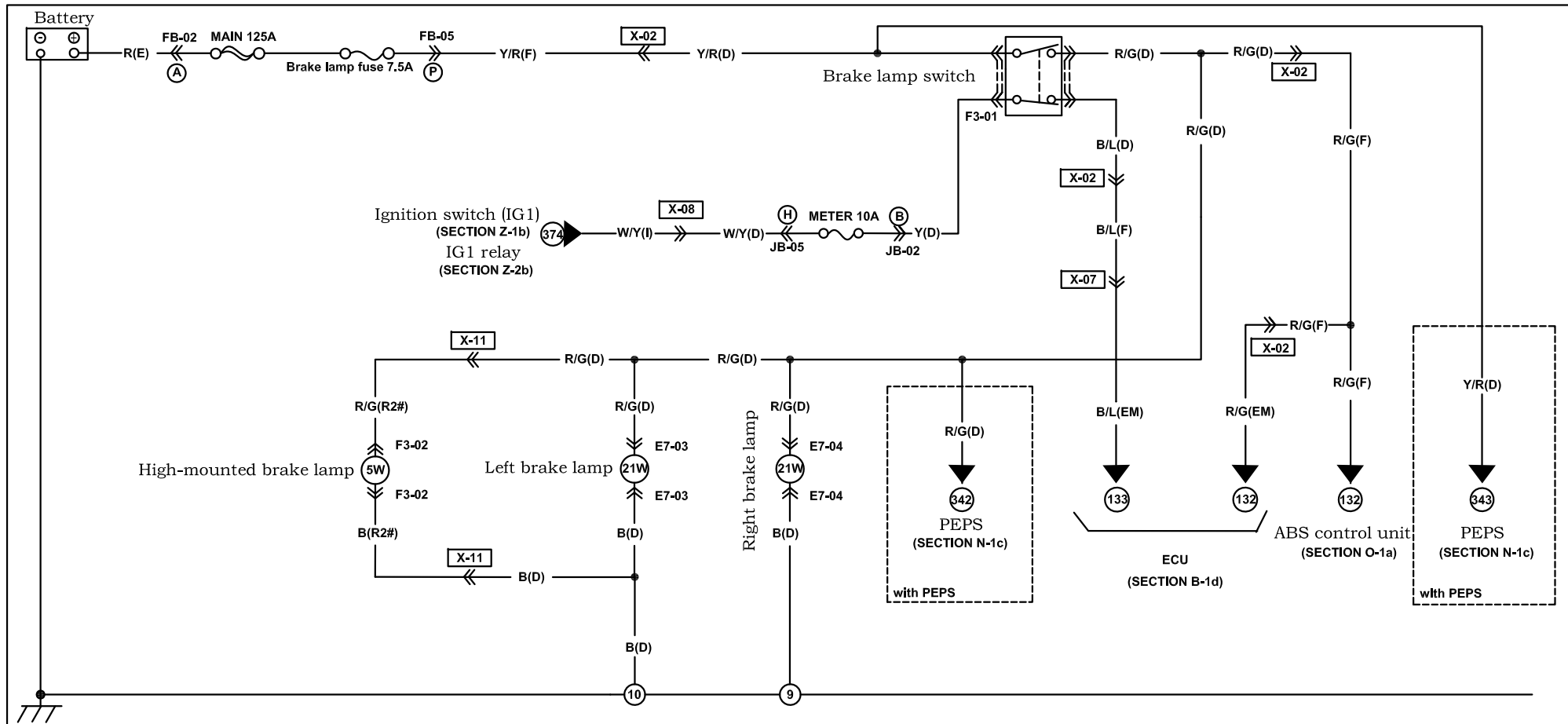
Right trim lamp(tail lamp)(R2#)



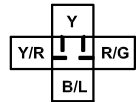
Harness mark:  (F)  (E)  (D)  (R)



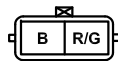
## Brake lamp



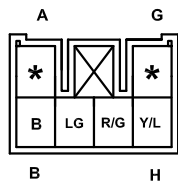
F3-01 Brake switch (D)



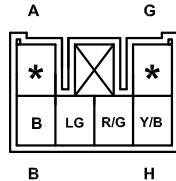
F3-02 High-mounted brake lamp(R2#)

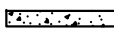

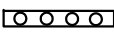
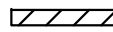


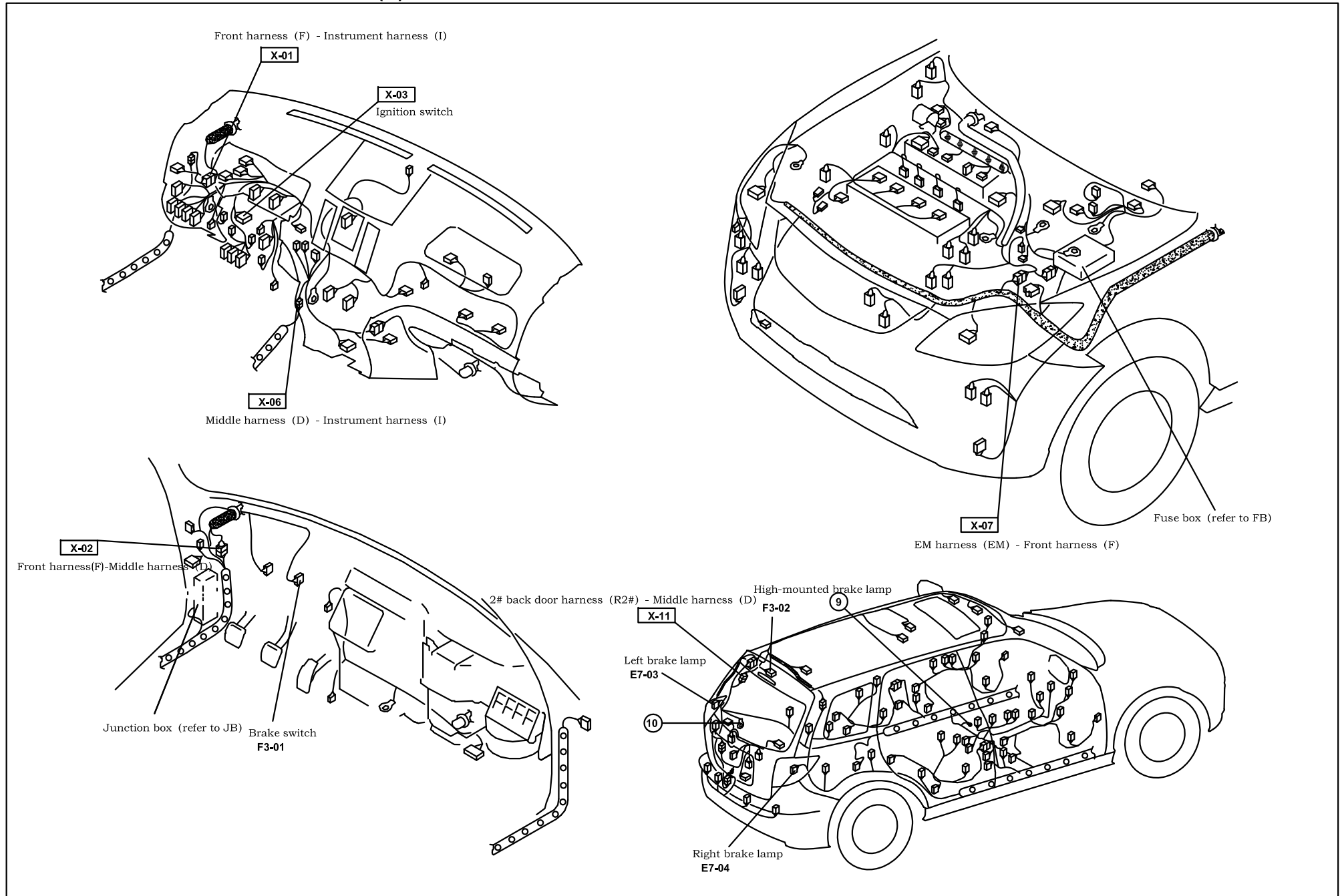
E7-03 Left brake lamp(D)



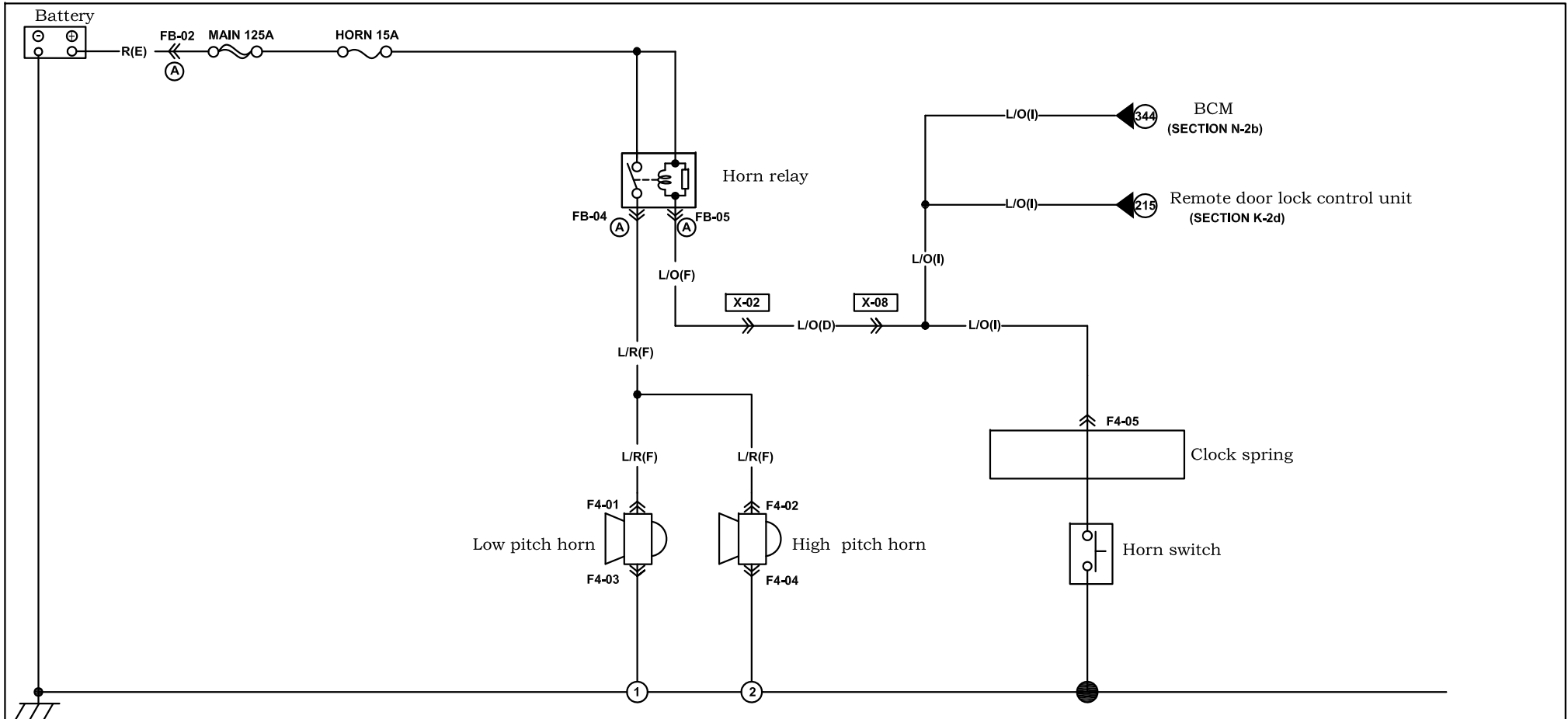
E7-04 Right brake lamp(D)



Harness mark:  (F)  (E)  (D)  (R)



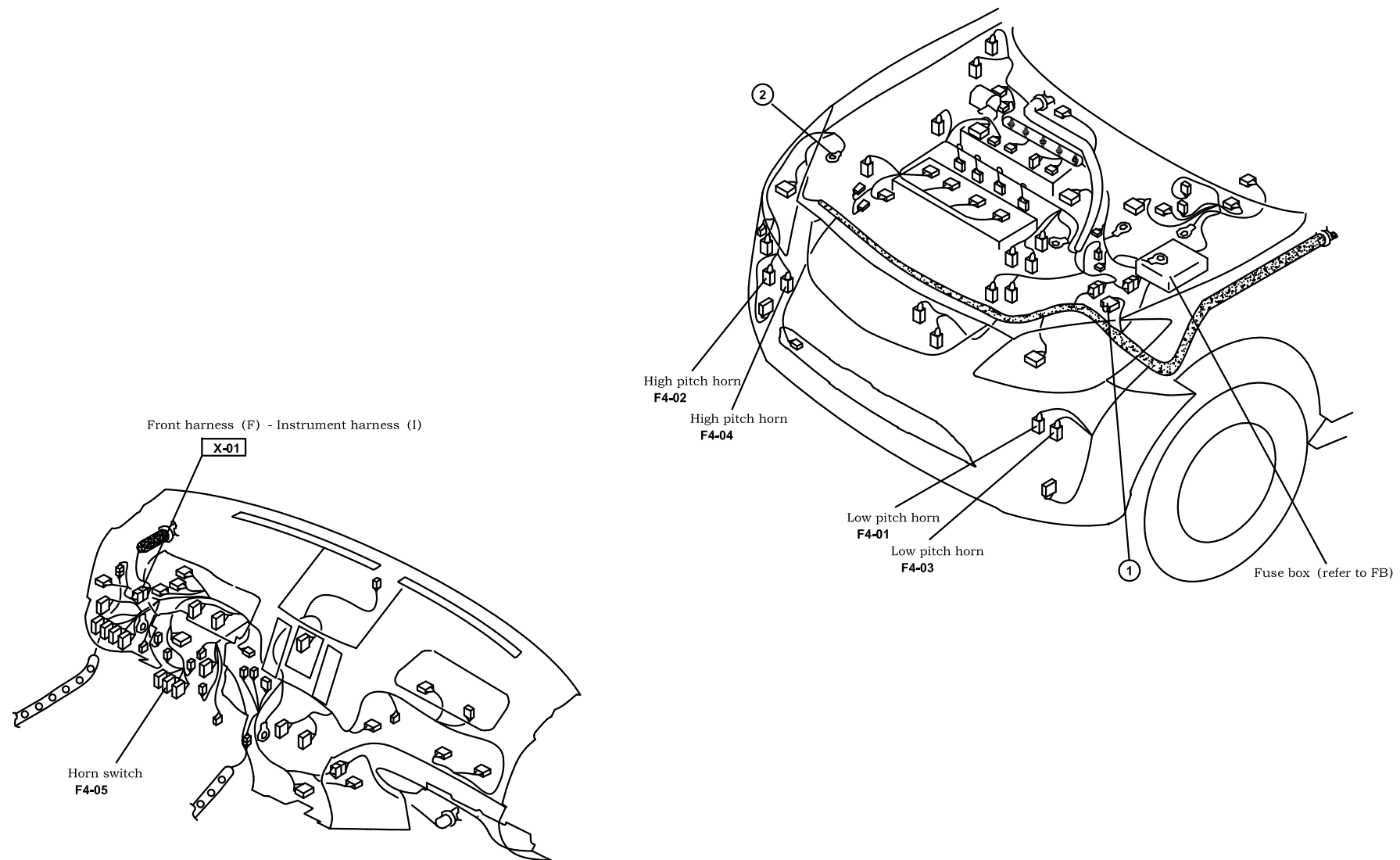
## Horn



<b>F4-01</b> Low pitch horn (F) 	<b>F4-02</b> High pitch horn(F) 	<b>F4-05</b> Clock spring ( 1 ) [ ] With cruise 		
<b>F4-03</b> Low pitch horn (F) 	<b>F4-04</b> High pitch horn(F) 			

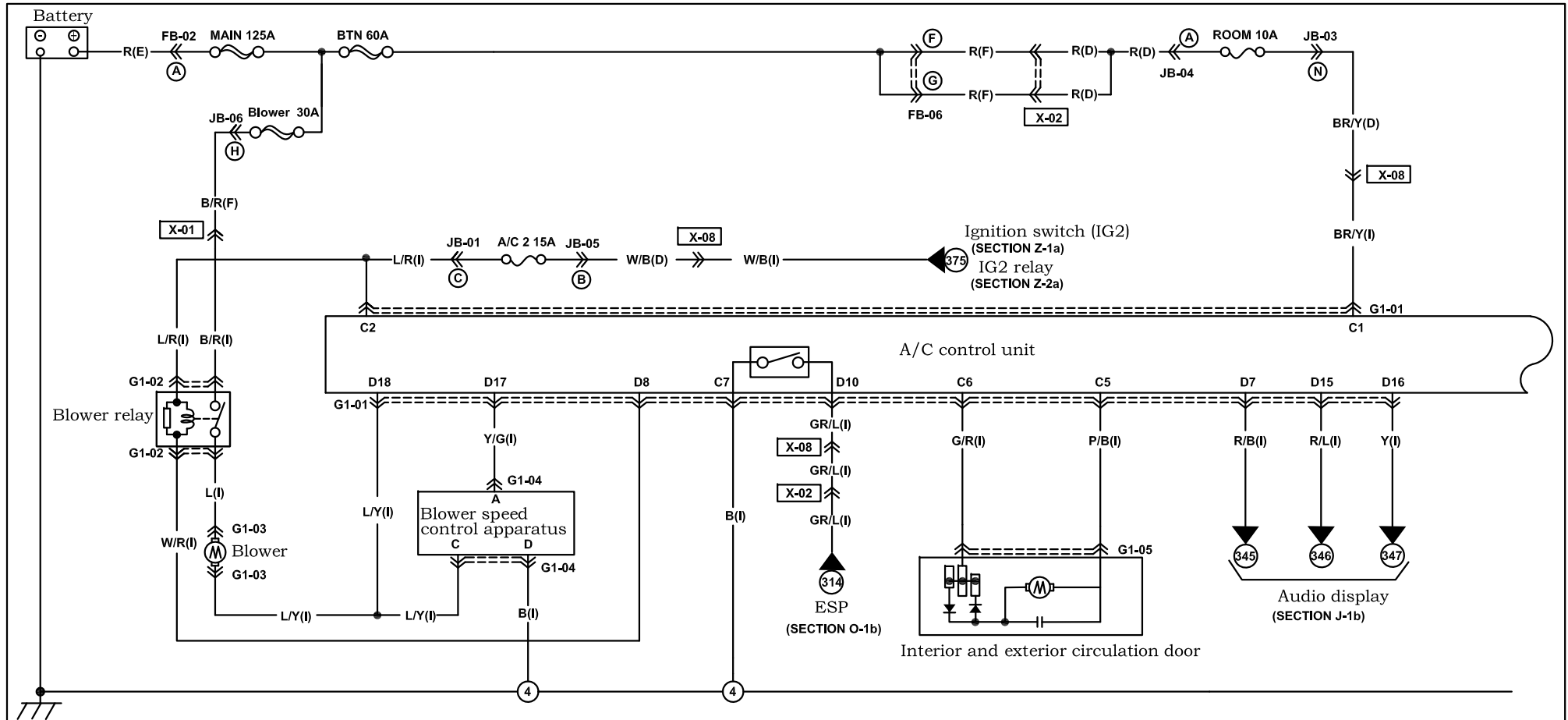


Harness mark:  (F)  (E)  (D)  (R)



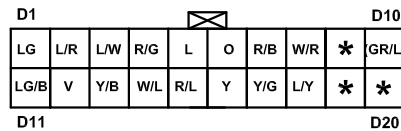
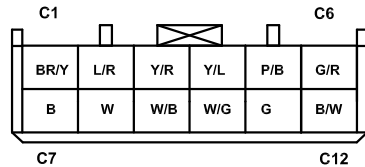
## Air conditioning system

G-1a

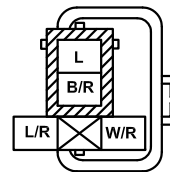


G1-01 A/C control unit (I)

( ) with ESP



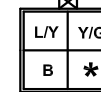
G1-02 Blower relay (I)



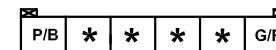
G1-03 Blower (I)



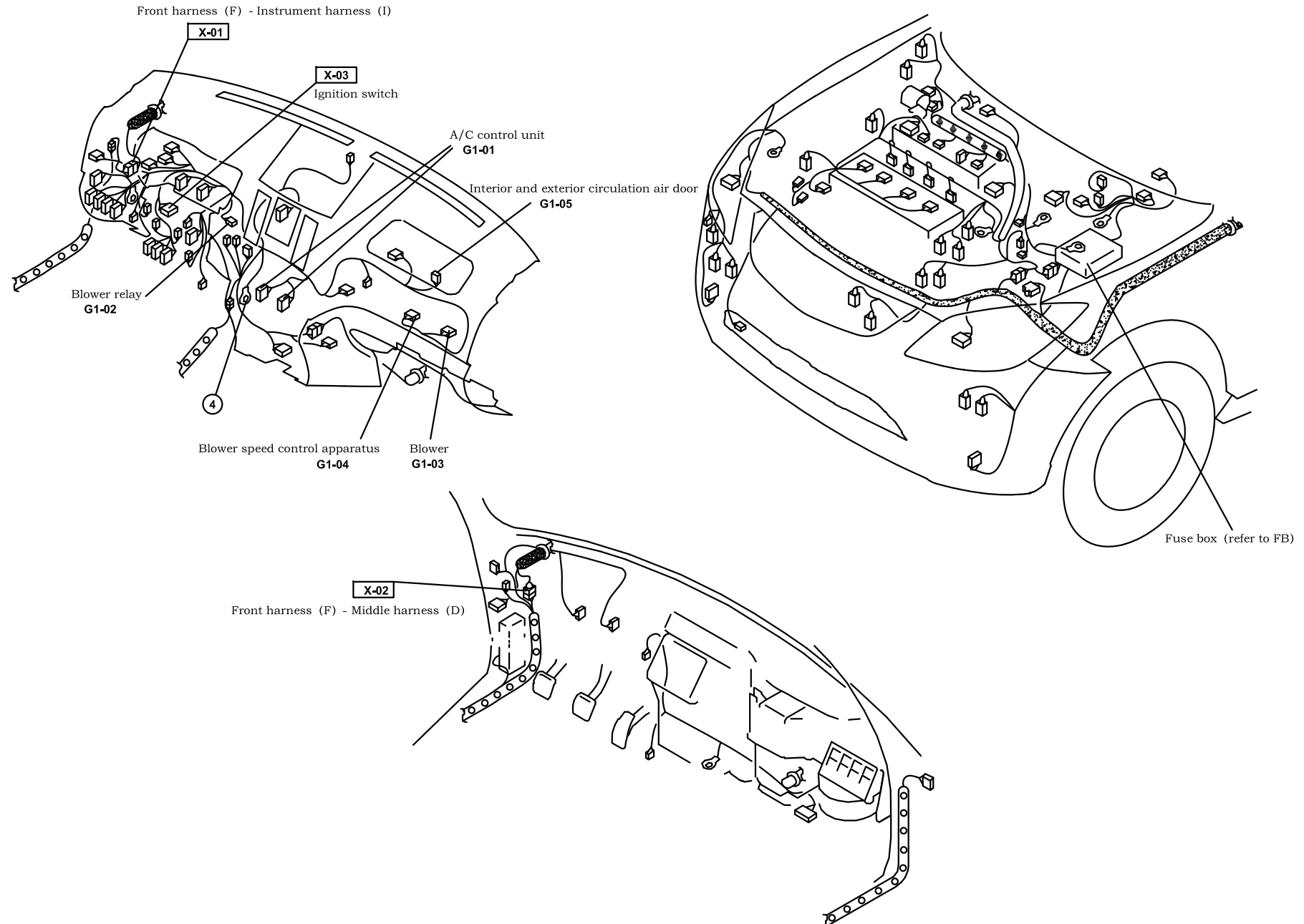
G1-04 Blower speed control apparatus(I)

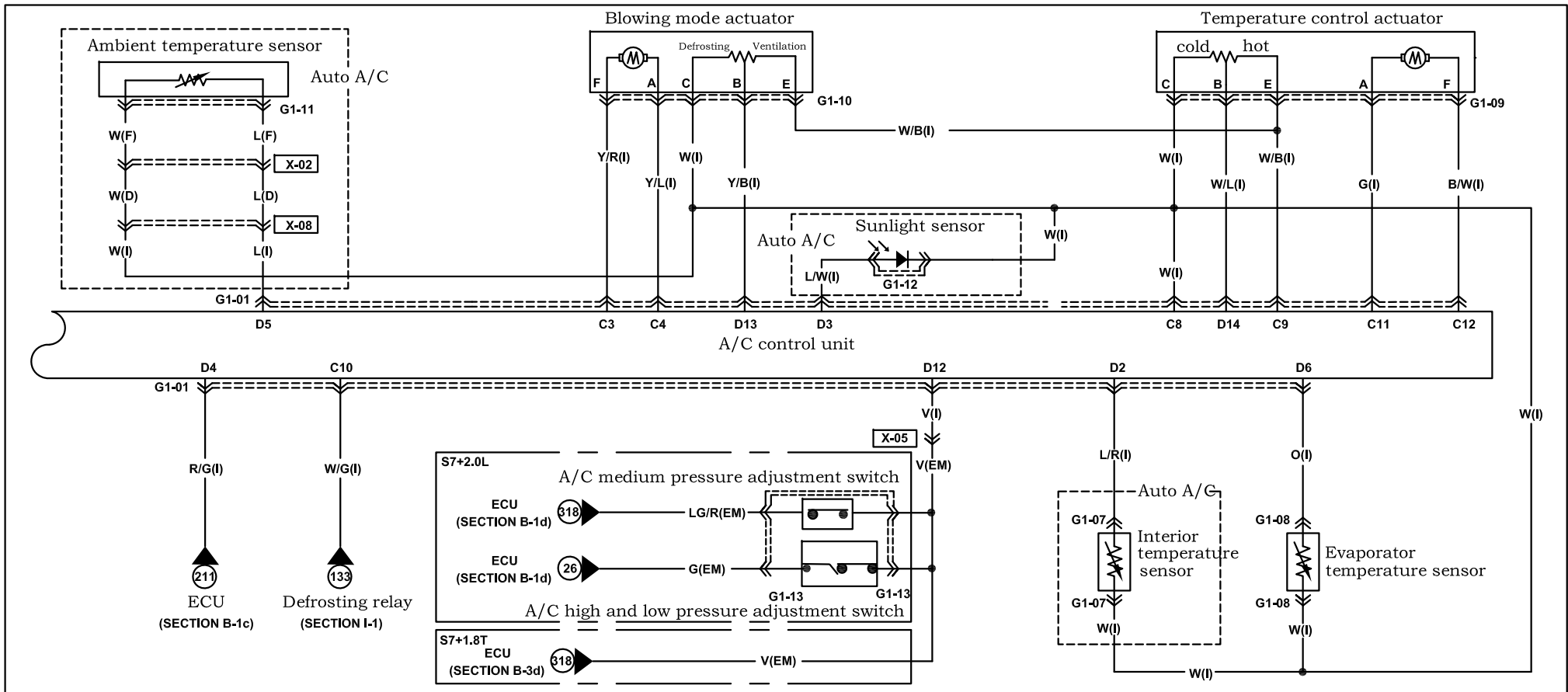


G1-05 Interior and exterior circulation door (I)



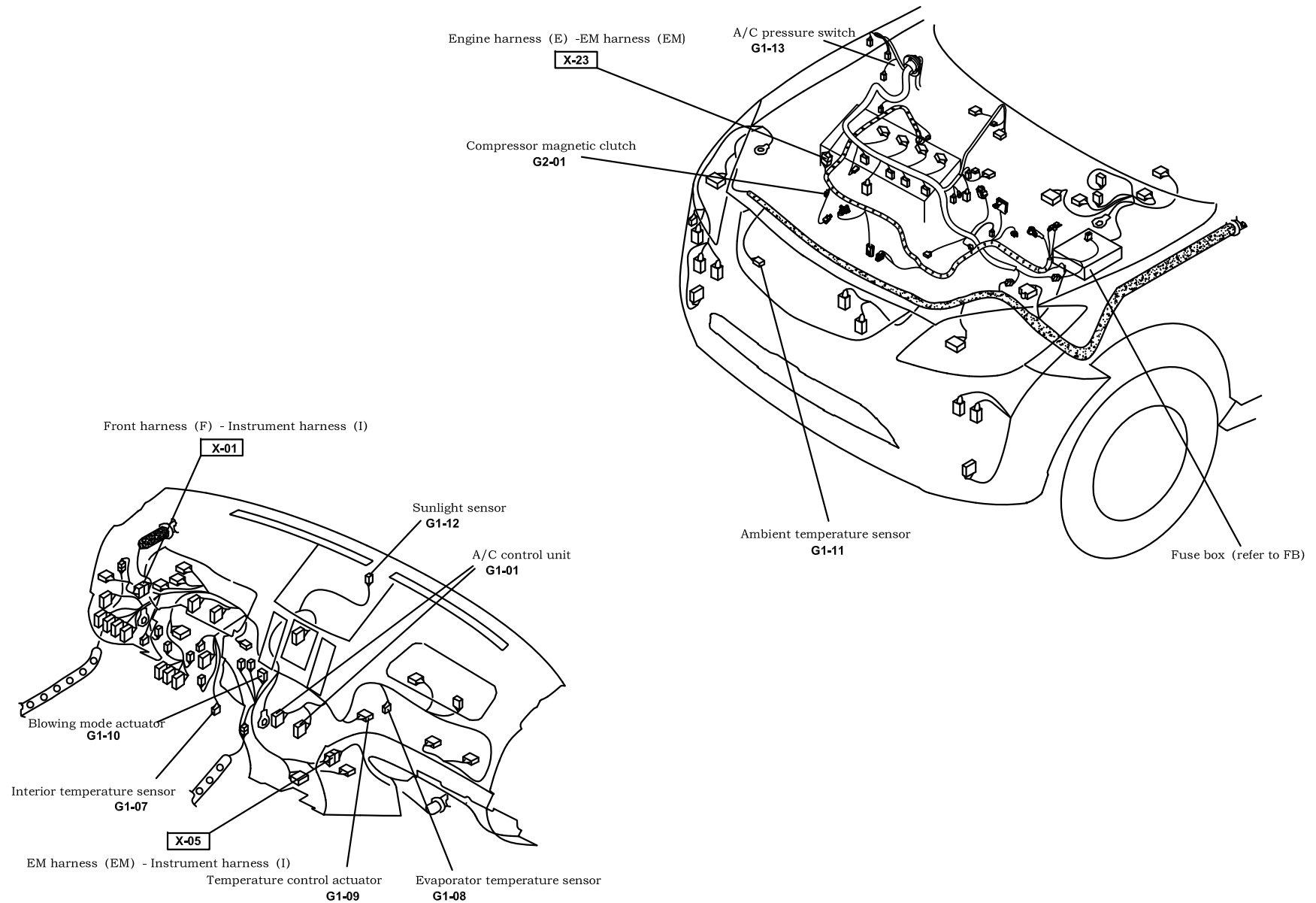
Harness mark: (F) (E) (D) (R)

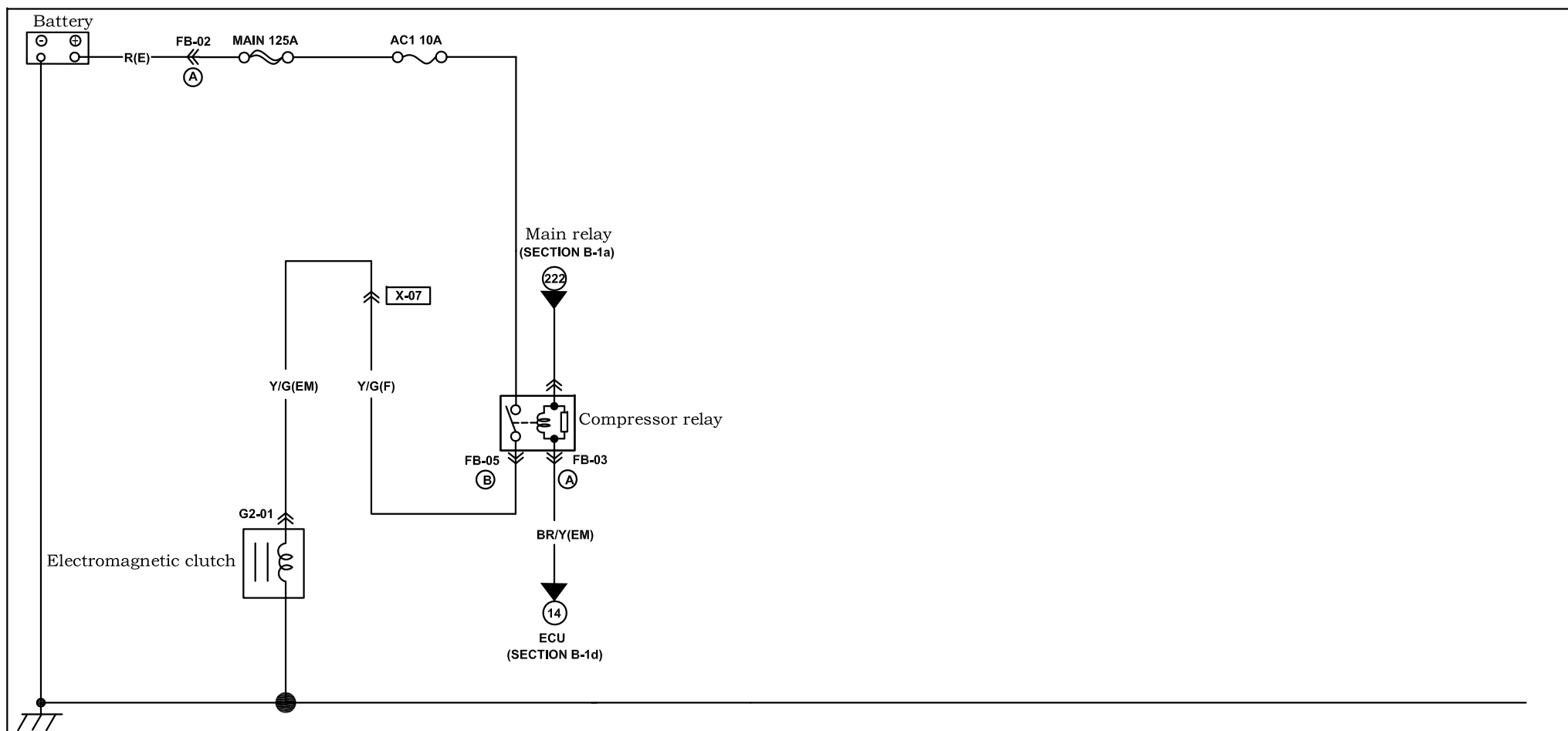




<b>G1-01 A/C control unit (I)</b> ( ) with ESP 	<b>G1-07 Interior temperature sensor (I)</b> 	<b>G1-08 Evaporator temperature sensor (I)</b> 	<b>G1-09 Temperature control actuator (I)</b> 	<b>G1-10 Blowing mode actuator (I)</b> 
<b>G1-11 Ambient temperature sensor (F)</b> 	<b>G1-12 Sunlight sensor (I)</b> 	<b>G1-13 A/C pressure switch (EM)</b> 		

Harness mark:  (F)  (E)  (D)  (R)

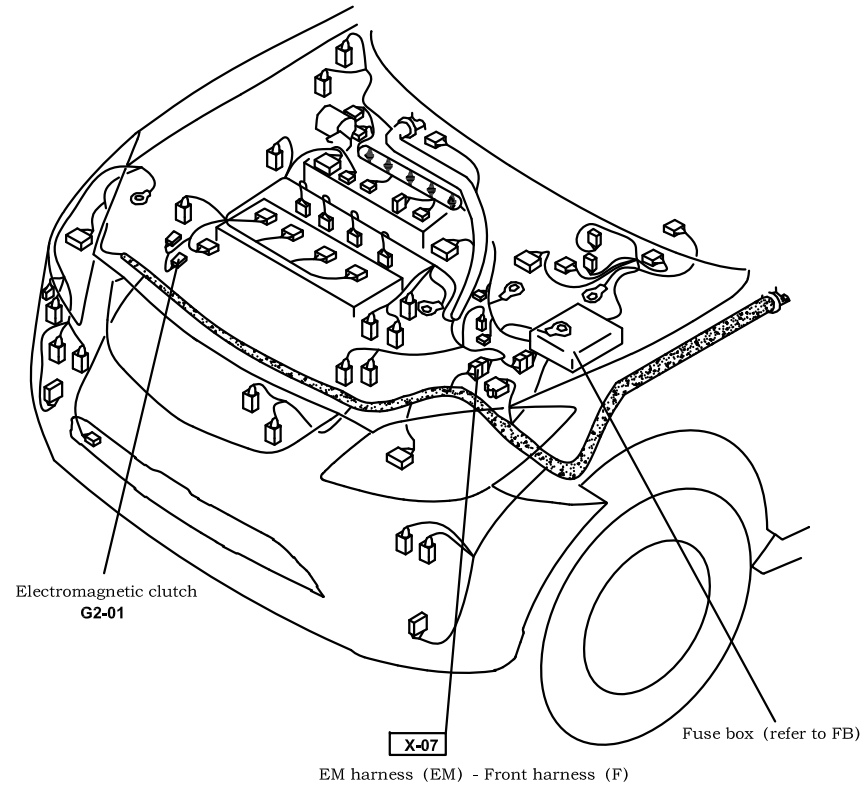




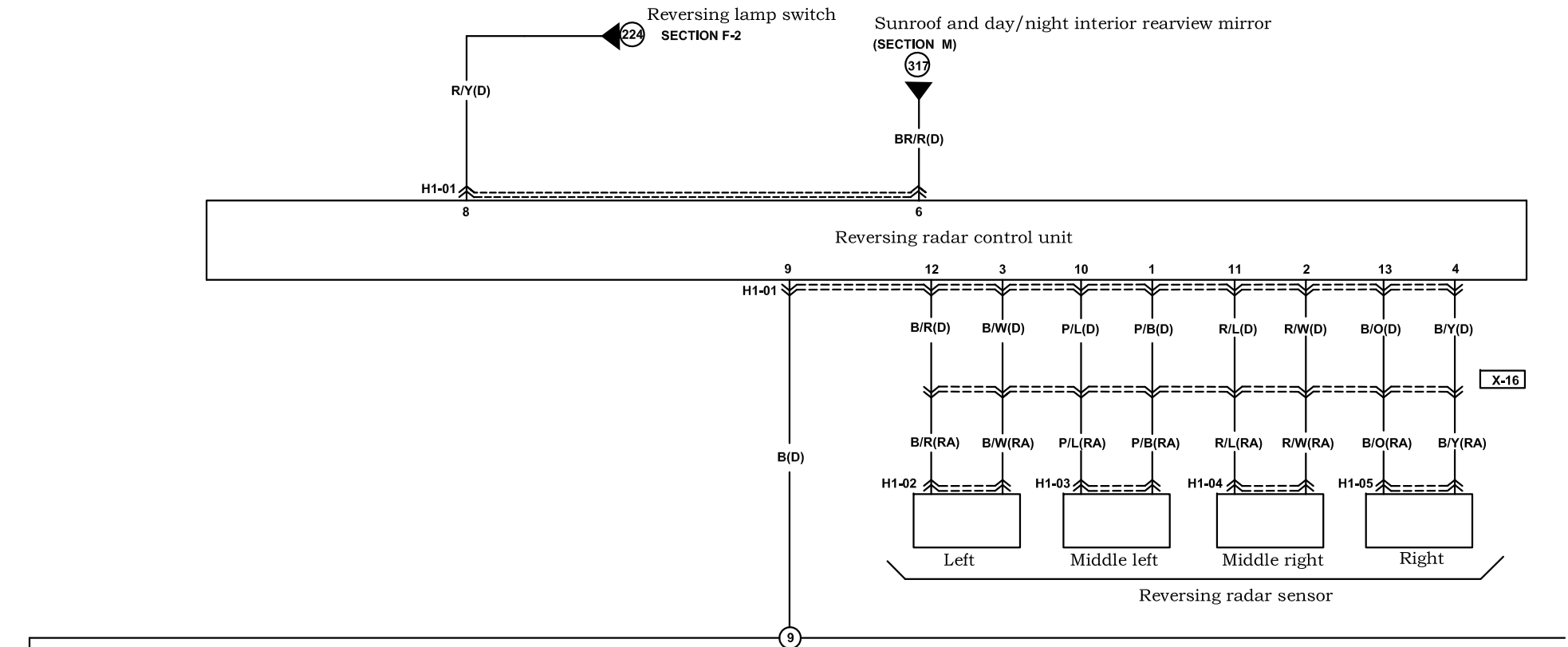
G2-01 Electromagnetic clutch (EM)



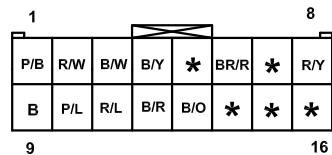
Harness mark:  (F)  (E)  (D)  (R)



## Reversing radar system



H1-01 Reversing radar control unit (IN)



H1-02 Left reversing radar sensor (RA)



H1-03 Middle left reversing radar sensor (RA)



H1-04 Middle right reversing radar sensor (RA)

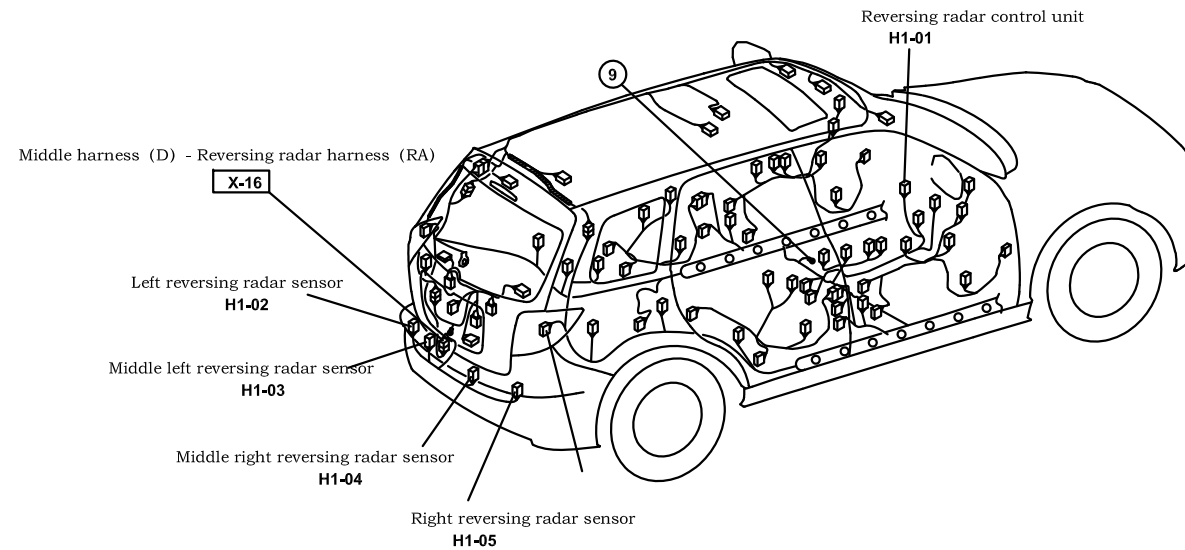


H1-05 Right reversing radar sensor (RA)

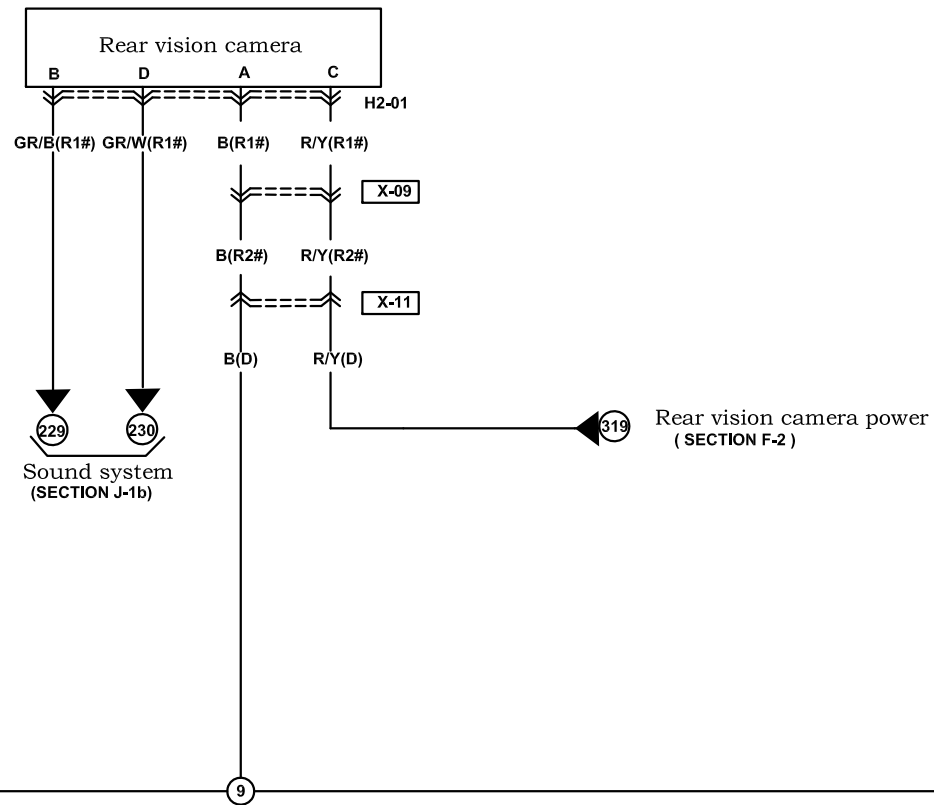




Harness mark:  (F)  (E)  (D)  (R)

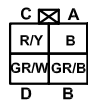


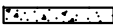

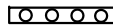
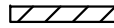
## Rear vision system

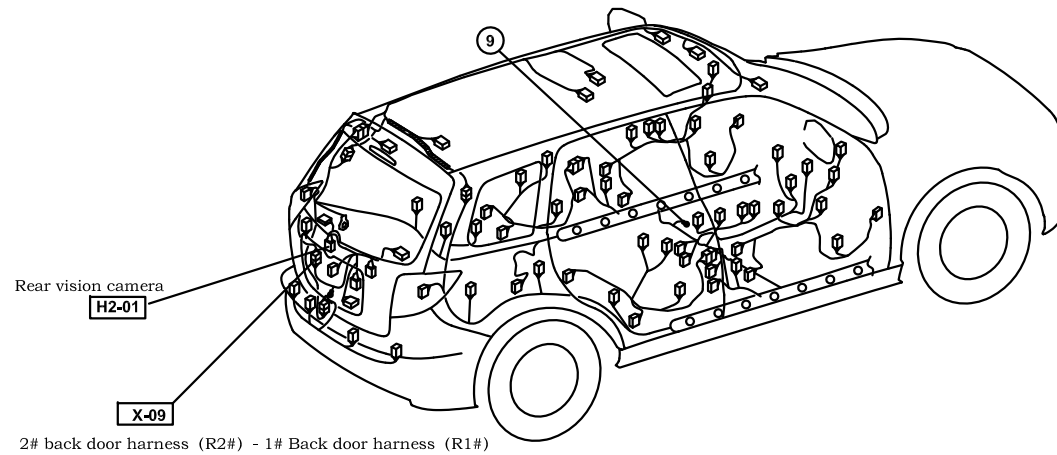


///

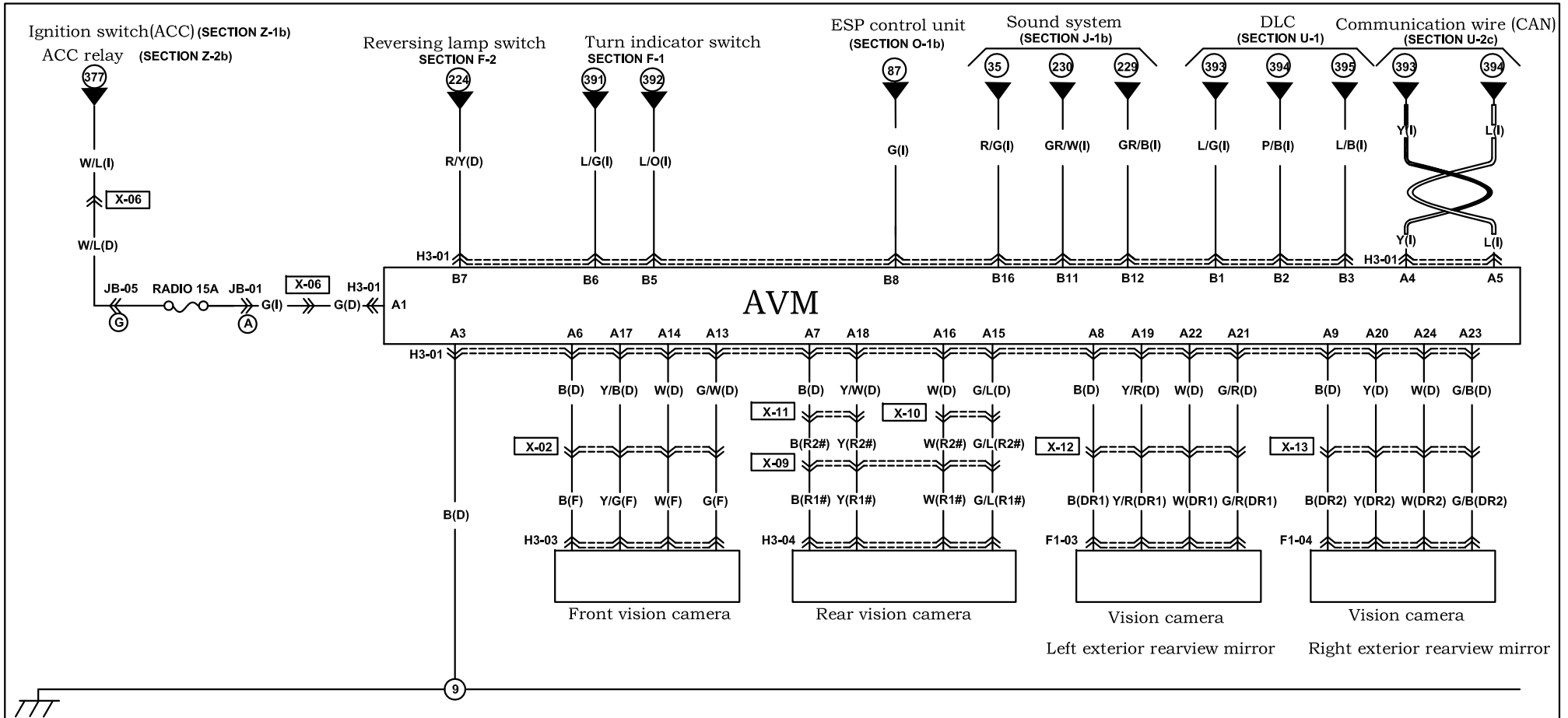
H2-01 Rear vision camera (R1#)



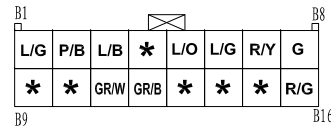
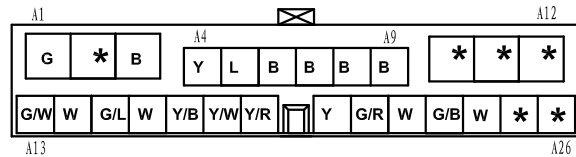
Harness mark:  (F)  (E)  (D)  (R)



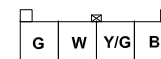
360 ° imaging system (1.8T)



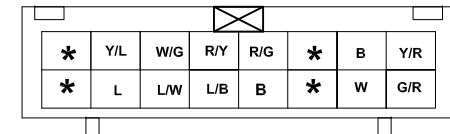
H3-01 AVM control unit



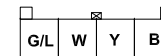
H3-02 Front vision camera (F)



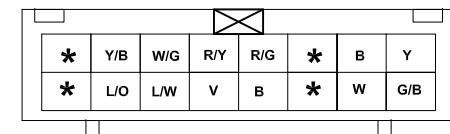
F1-03 Left exterior rearview mirror (DR1)



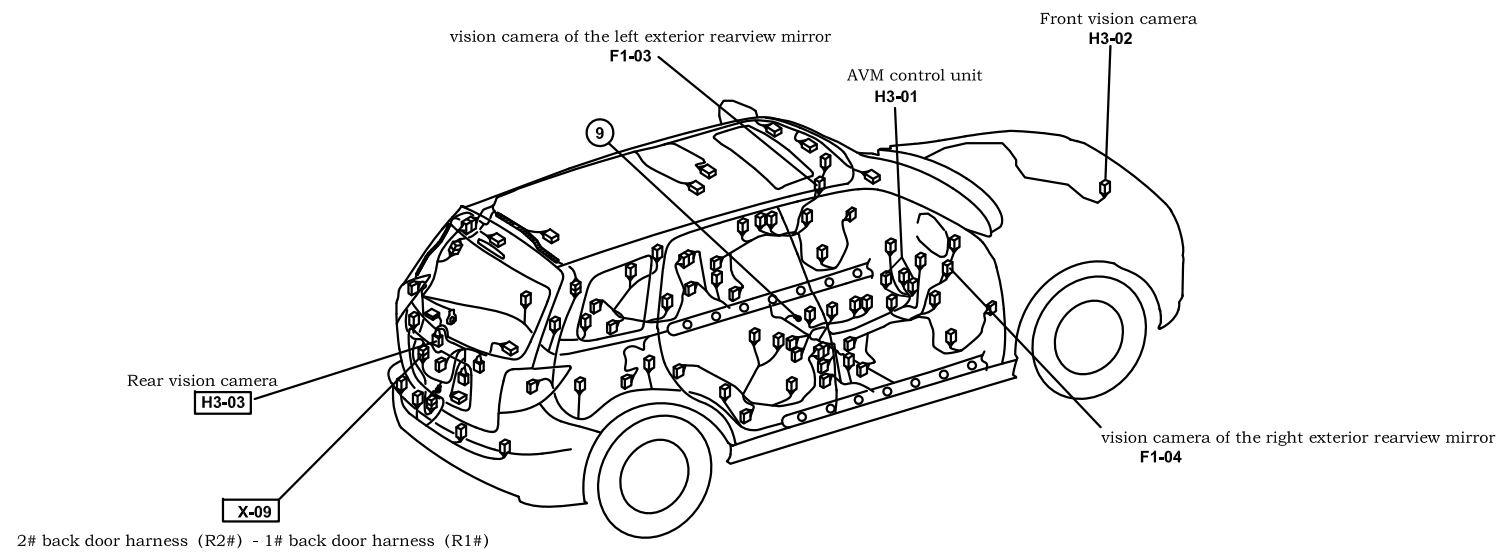
H3-03 Rear vision camera (R1#)



F1-04 Right exterior rearview mirror (DR2)



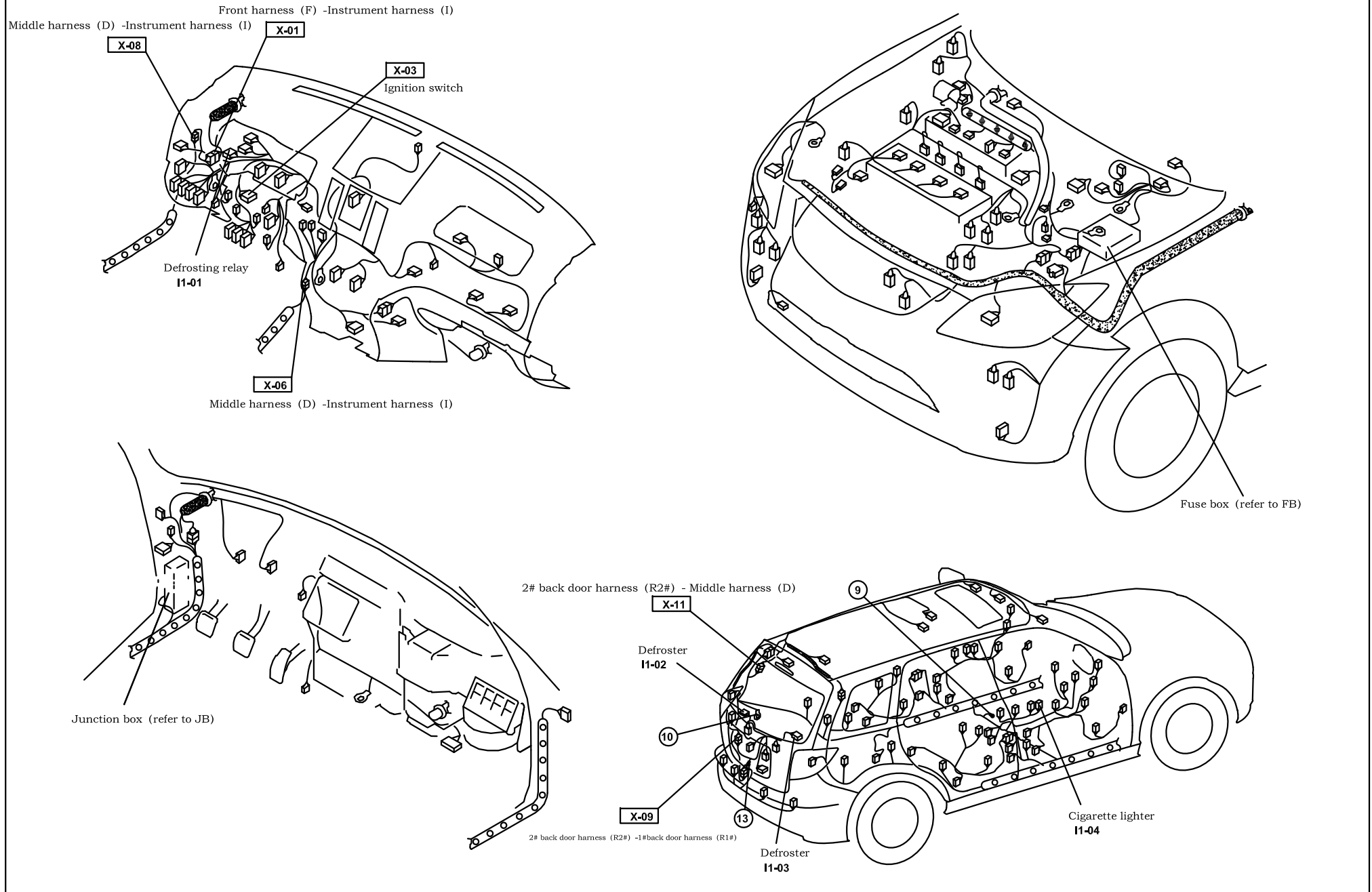
Harness mark:  (F)  (E)  (D)  (R)

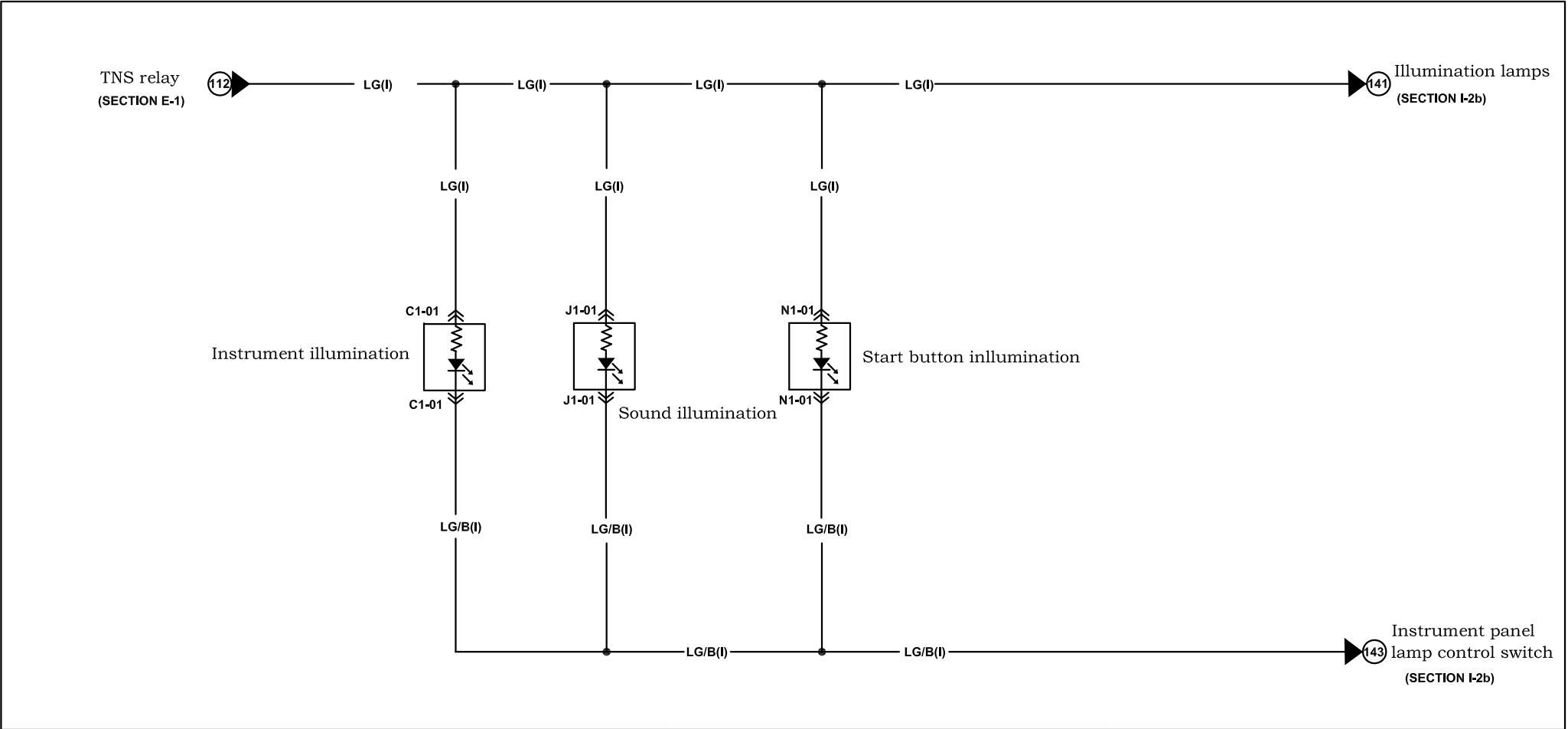


[illegible]

I1-01 Defrosting relay (I)		I1-02 Defroster (R1#)	I1-03 Defroster (R1#)	I1-04 Cigarette lighter (I)		

Harness mark:  (F)  (E)  (D)  (R)





**C1-01** Combined instrument (I) ( ) with ESP

A1	B/Y	B/L	B/W	B/R	R/Y	P	Y/G	(G/O)	(V/W)	*	*	*	*	*	*	*	A16
A17	LG	LG/B	*	*	*	*	*	*	*	*	*	G/B	LG/R	G/W	G/R	Y/L	A32

**J1-01** Sound unit (I)




Yellow C1				Green C2				Blue C3			
1	R/B	G	4	7	B/G	GR/B	10	*	*	*	
3	*	R/Y	6	9	GR/W	Y	12	*	*	*	
5	R/L	G/Y	8	11	L/O	*	14	*	*	*	

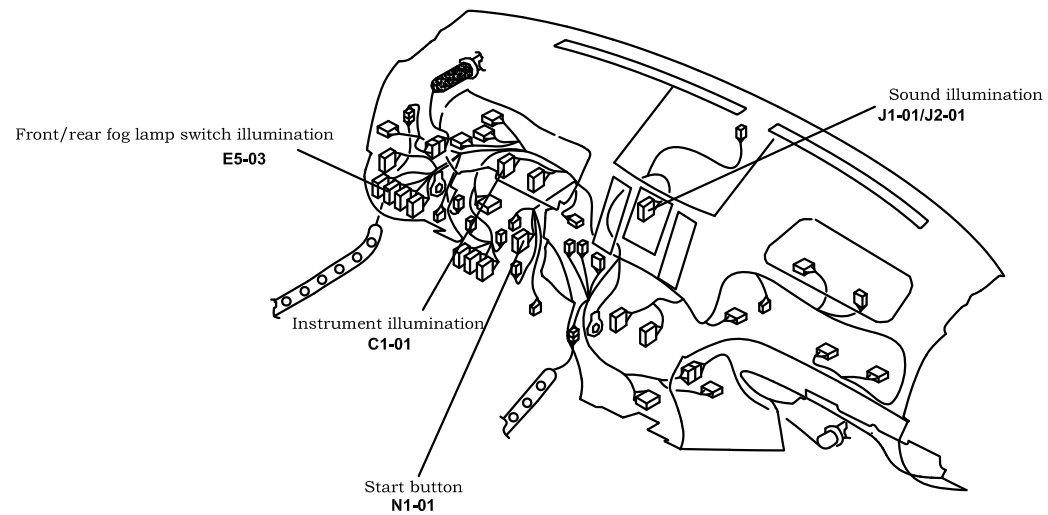
A2	R/W	R/G	A1	B2	O	L	B1
Black	G	LG/B		Brown	G/Y	G/R	
	LG	*			G/W	G/O	
A8	B	BR/Y	A7	B8	L/Y	L/W	B7

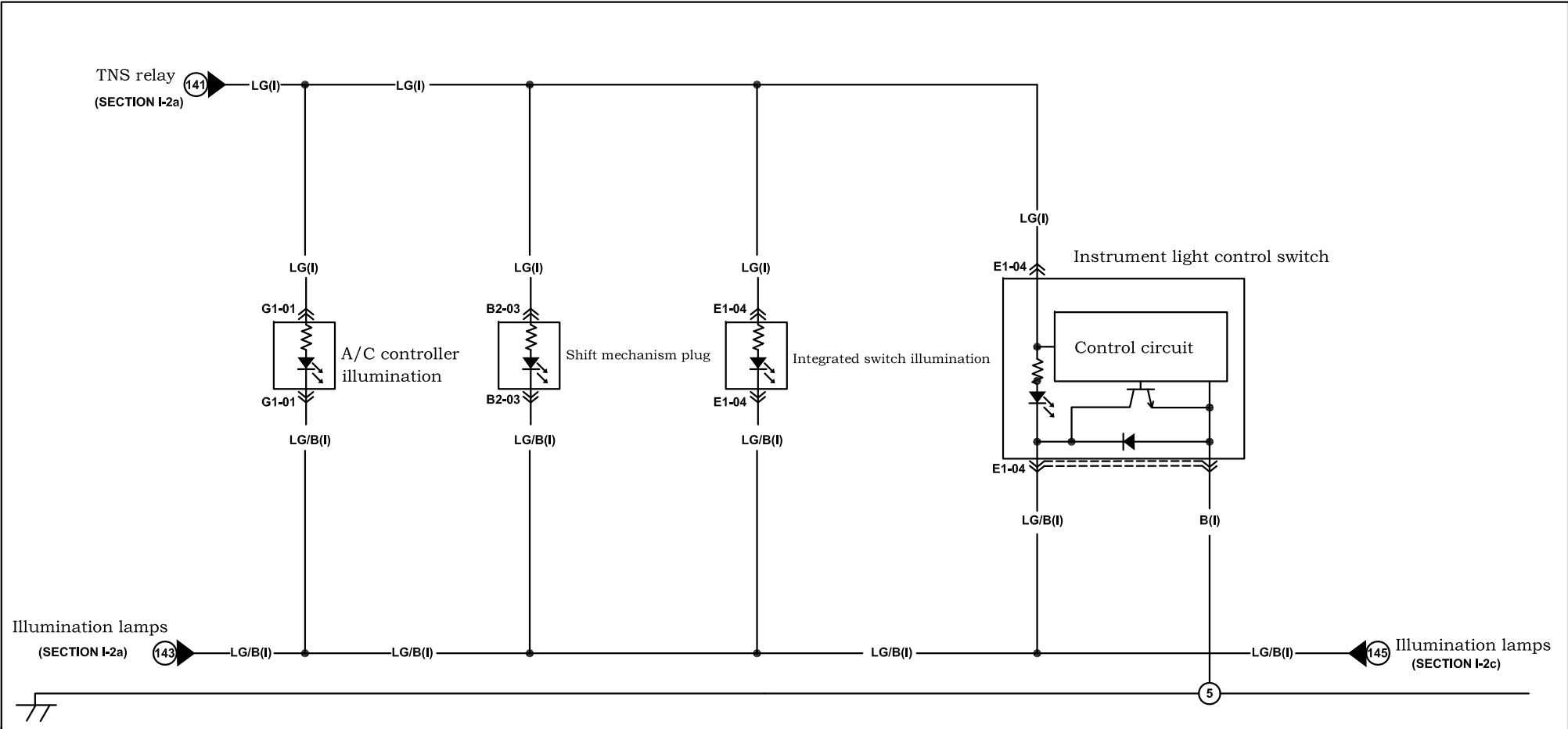
**N1-01** Start button (I)

10	X		6	
R	P	R/B	LG/B	LG
P	W	G/B	*	*
5			1	



Harness mark:  (F)  (E)  (D)  (R)





G1-01 A/C controller illumination (I) ( ) with ESP

D1										D10									
LG	L/R	L/W	R/G	L	O	R/B	W/R	*	GR/L	LG/B	V	Y/B	W/L	R/L	Y	Y/G	L/Y	*	*
D11										D20									

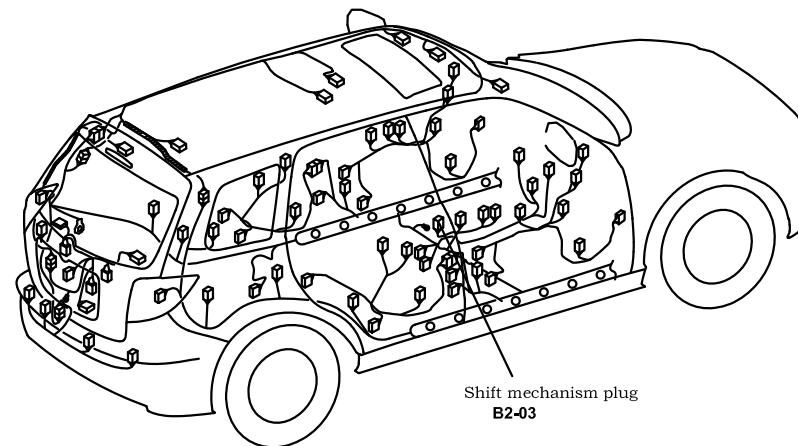
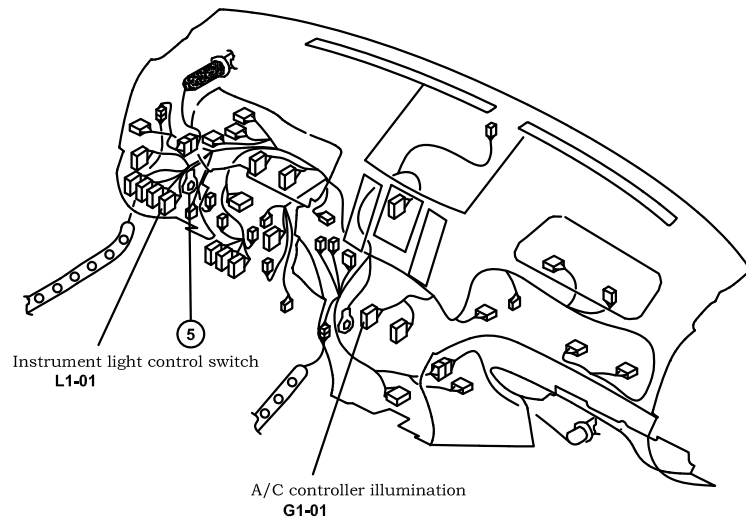
L1-01 Instrument light control switch (I)

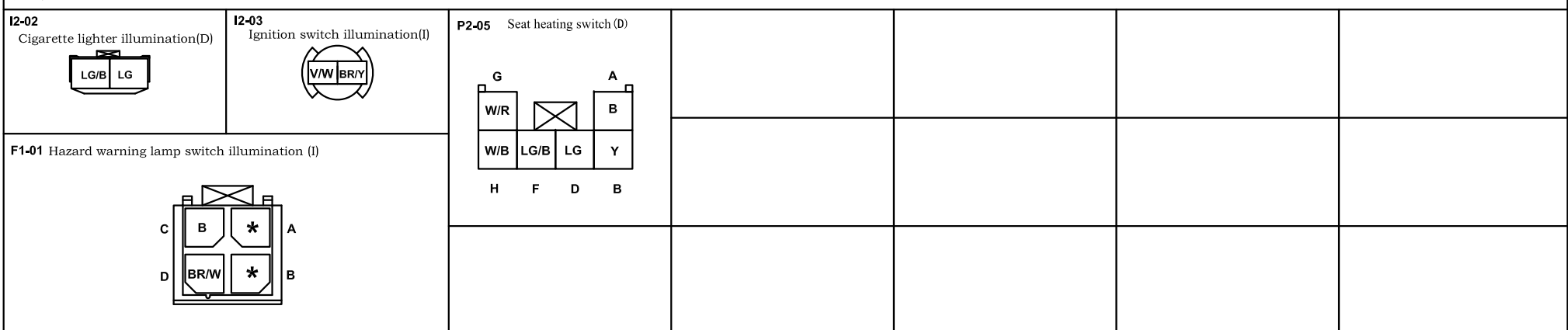
S	Q	O	M	K	I	G	E	C	A
R/B	LG	LG/B	L/W	L	L/O	L/B	V	R/G	R/Y
B	P	G/B	&P/L	W	*	*	*	*	B
T	R	P	N	L	J	H	F	D	B

B2-03 Shift mechanism plug (I)

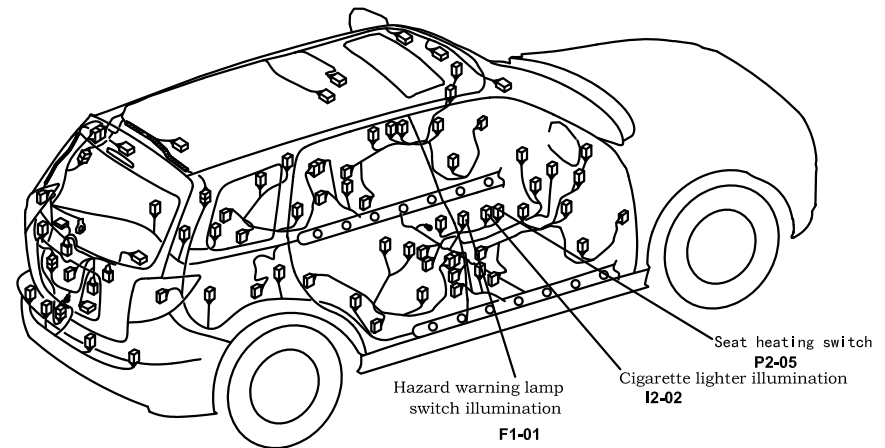
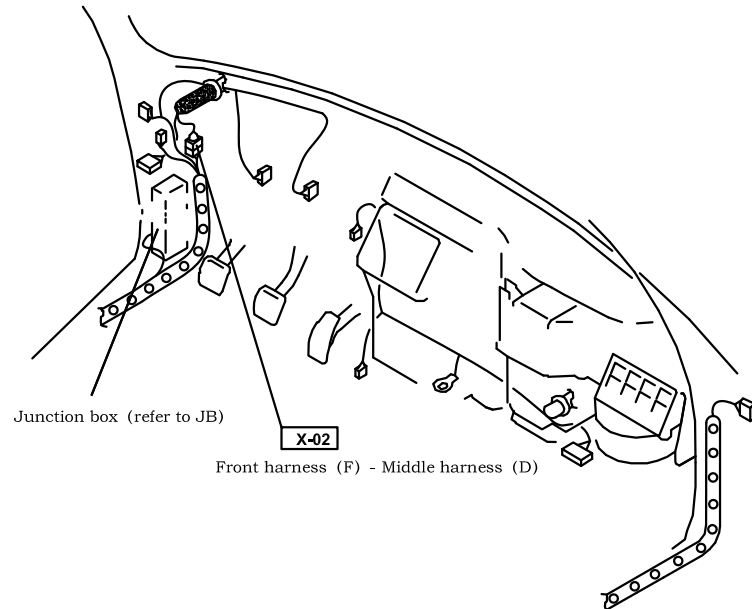
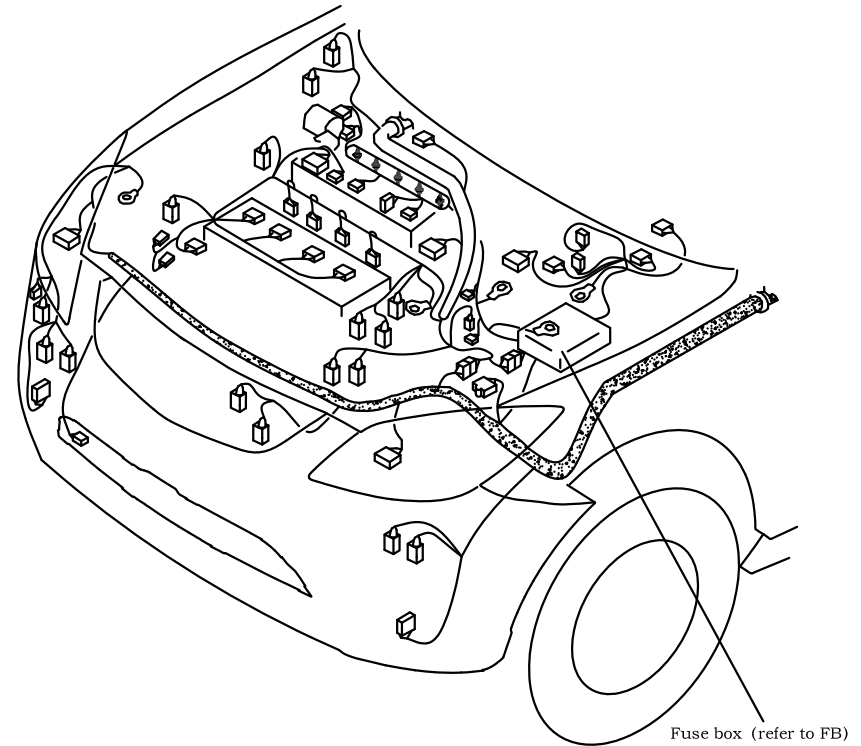
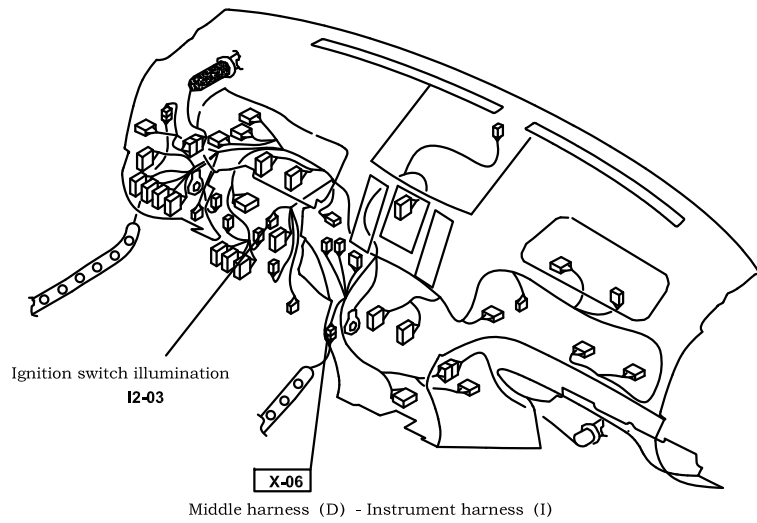
G	LG			Y	B/Y	A
H	LG/B	*	G/R	*	O/B	B

Harness mark:  (F)  (E)  (D)  (R)

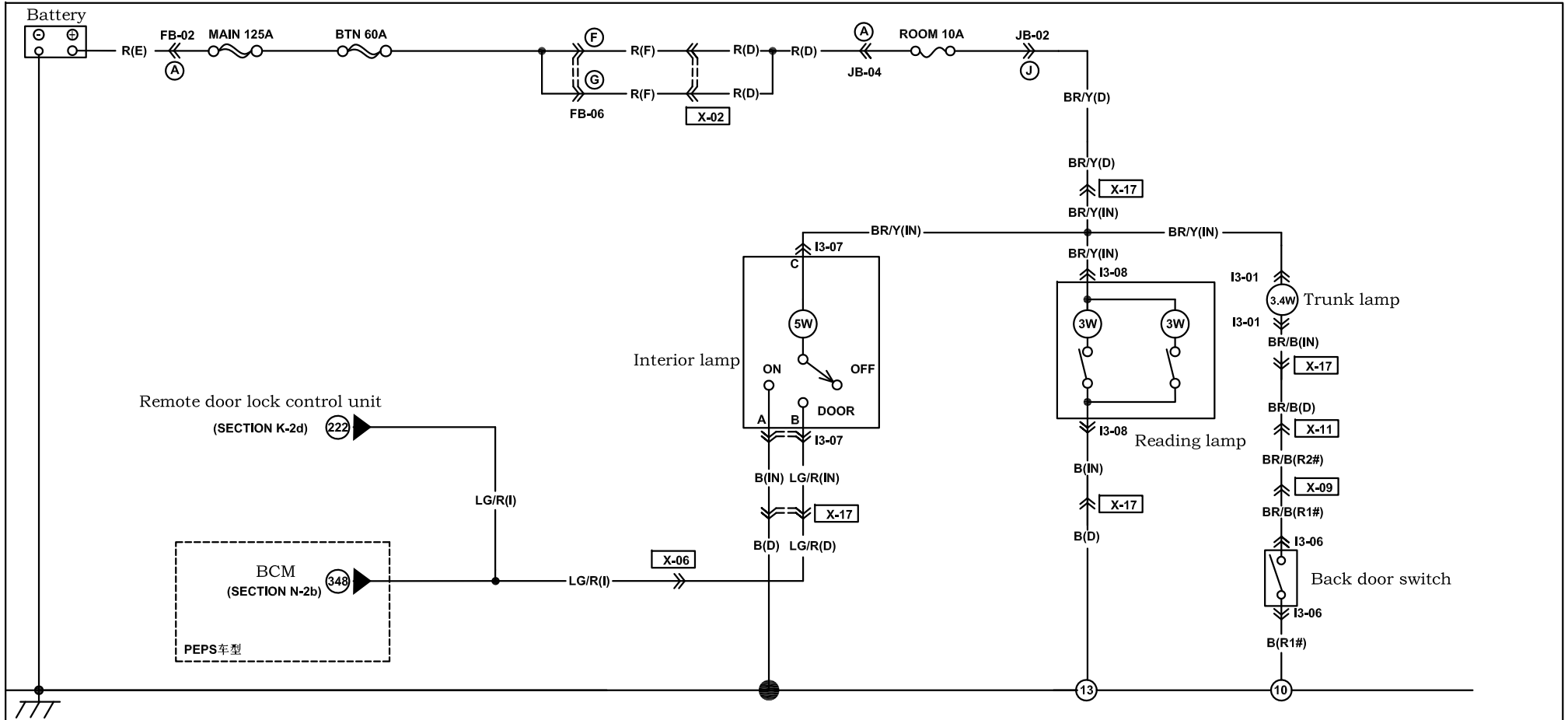




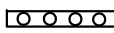
Harness mark:  (F)  (E)  (D)  (R)

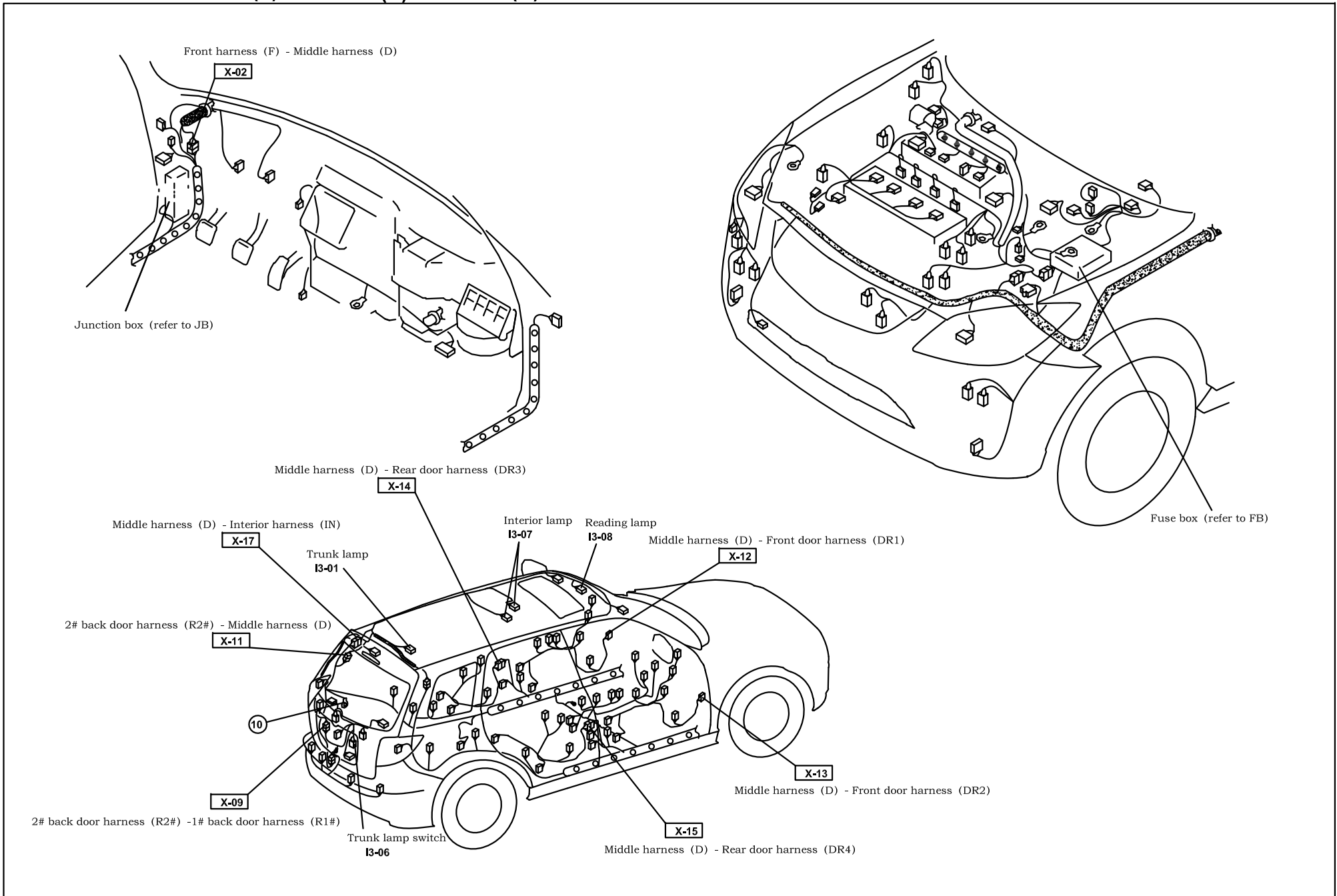


# Interior lamp/reading lamp/trunk lamp

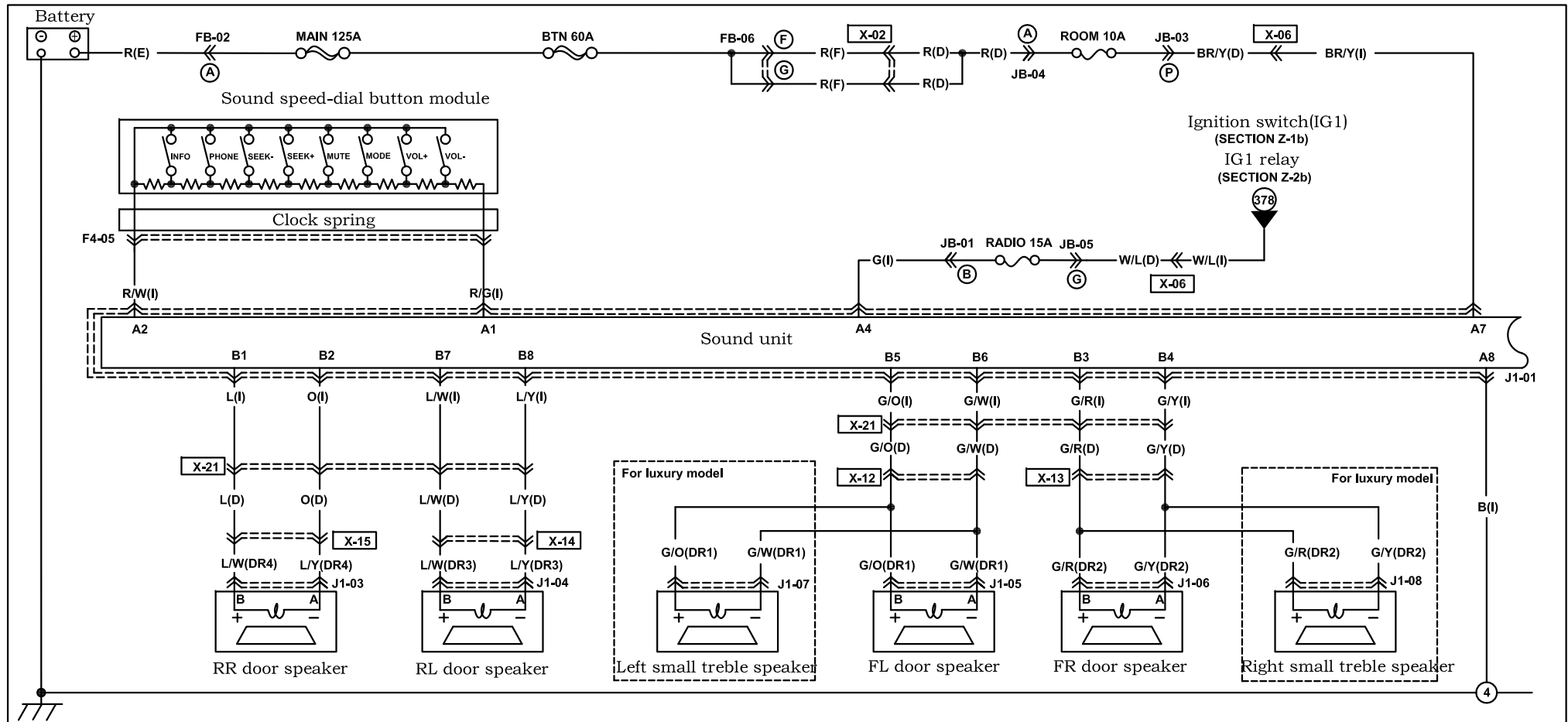


<b>I3-01</b> Trunk lamp (IN) 	<b>I3-06</b> Trunk lamp switch (R1#) 	<b>I3-07</b> Interior lamp (IN) 				
<b>I3-08</b> Reading lamp (IN) 						

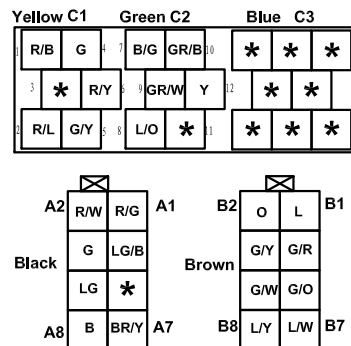
Harness mark:  (F)  (E)  (D)  (R)



## Sound system



J1-01 Sound unit (I)



J1-03 RL door speaker(DR3)



J1-04 RR door speaker(DR4)



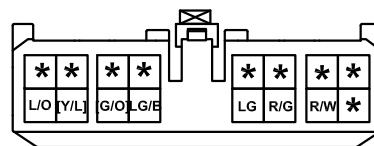
J1-05 FL door speaker(DR1)




J1-06 FR door speaker (DR2)

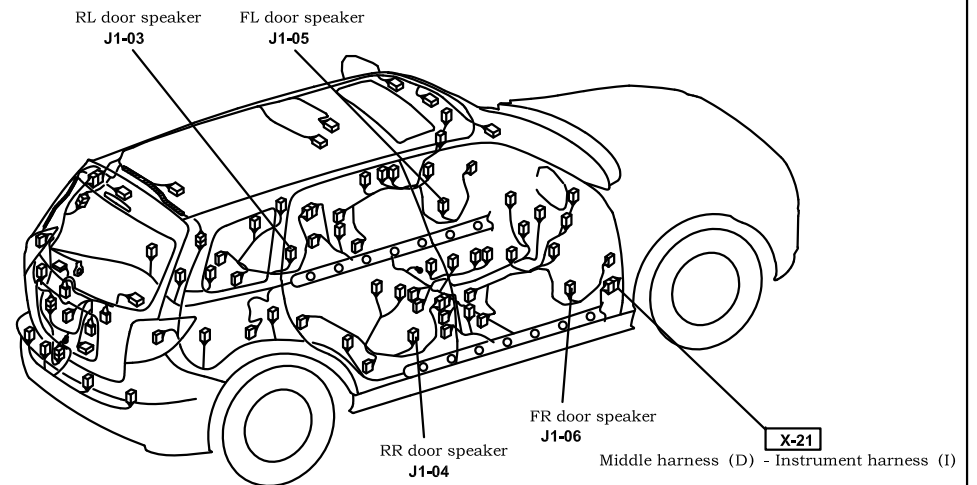
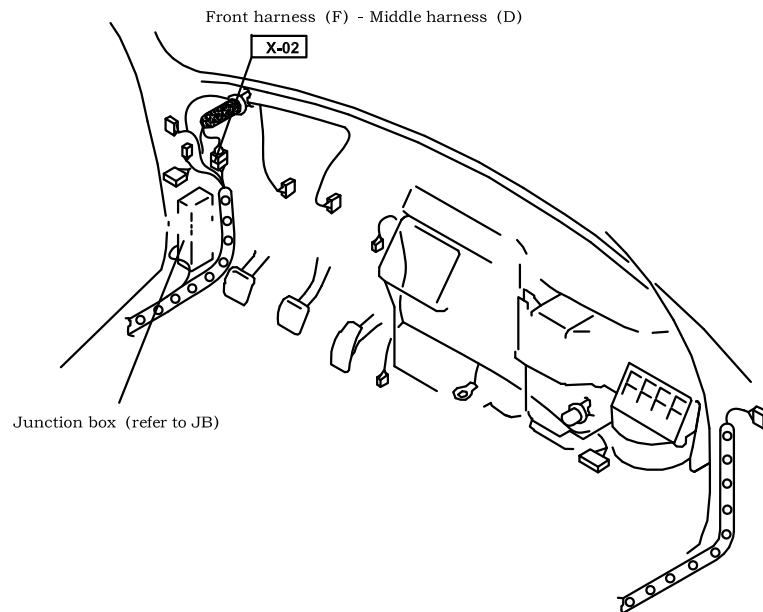
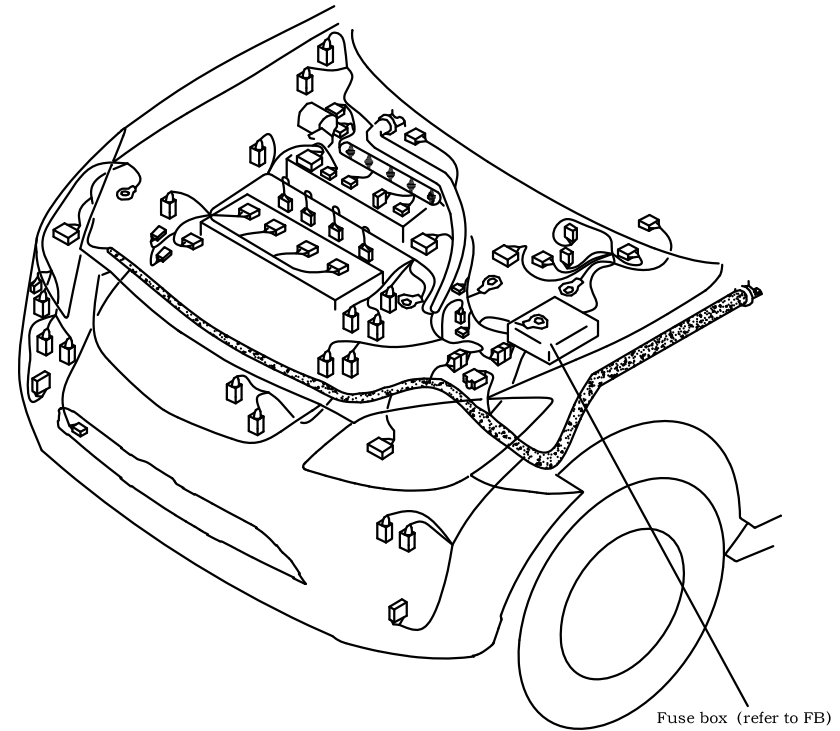
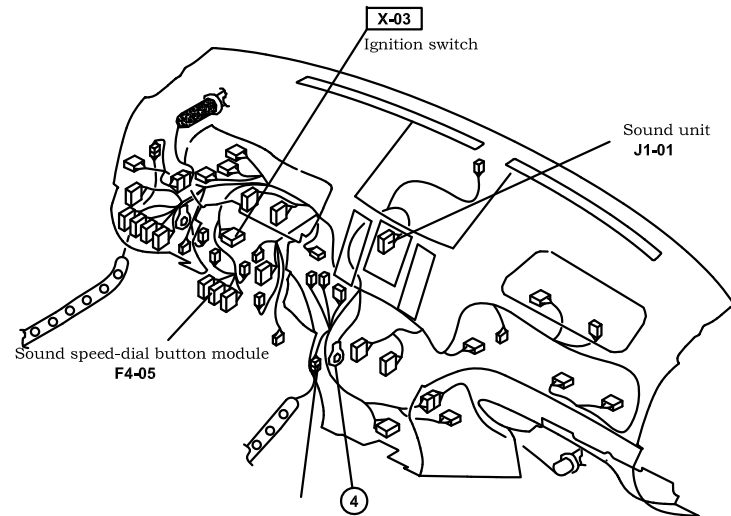


F4-05 Sound speed-dial button module (I) [ ] with cruise

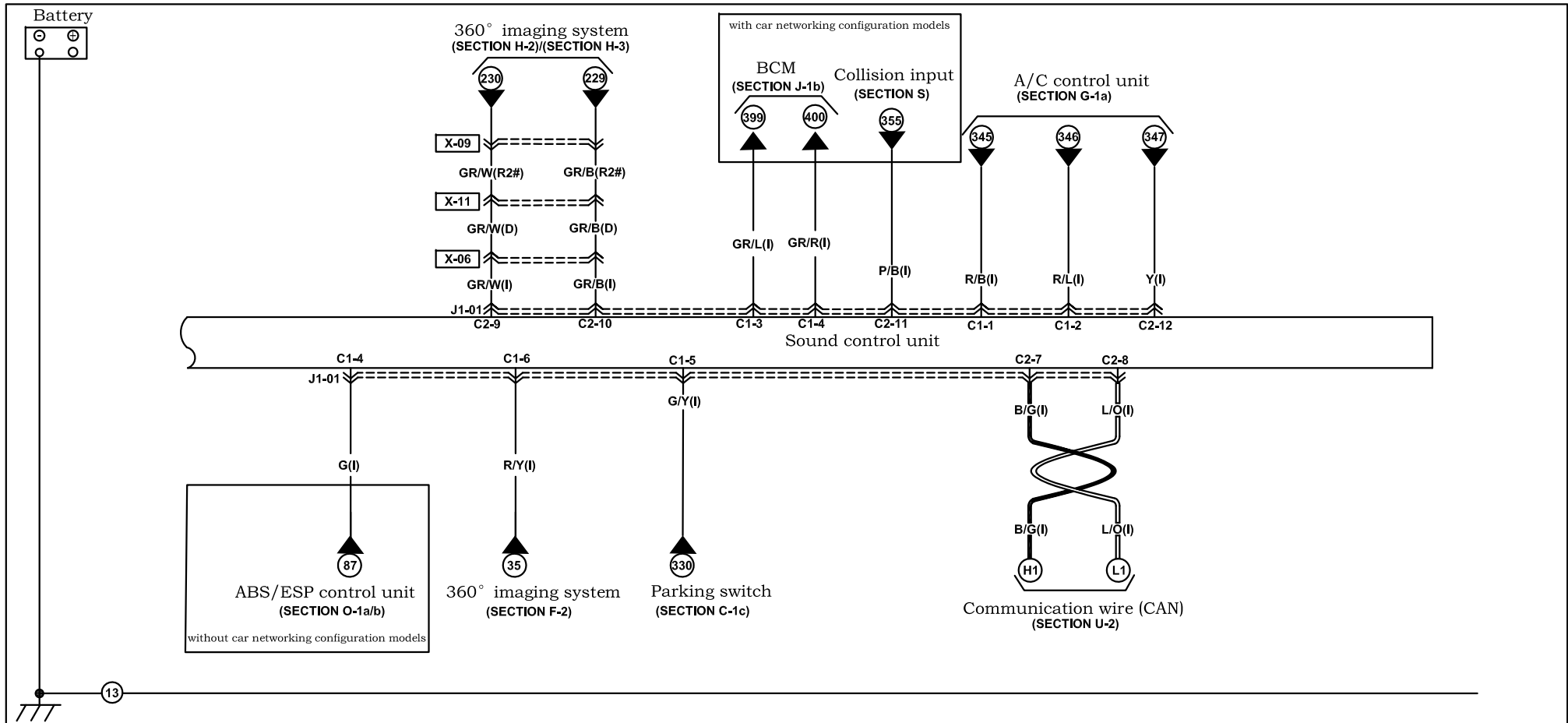




Harness mark:  (F)  (E)  (D)  (R)



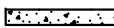

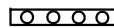
## Sound system

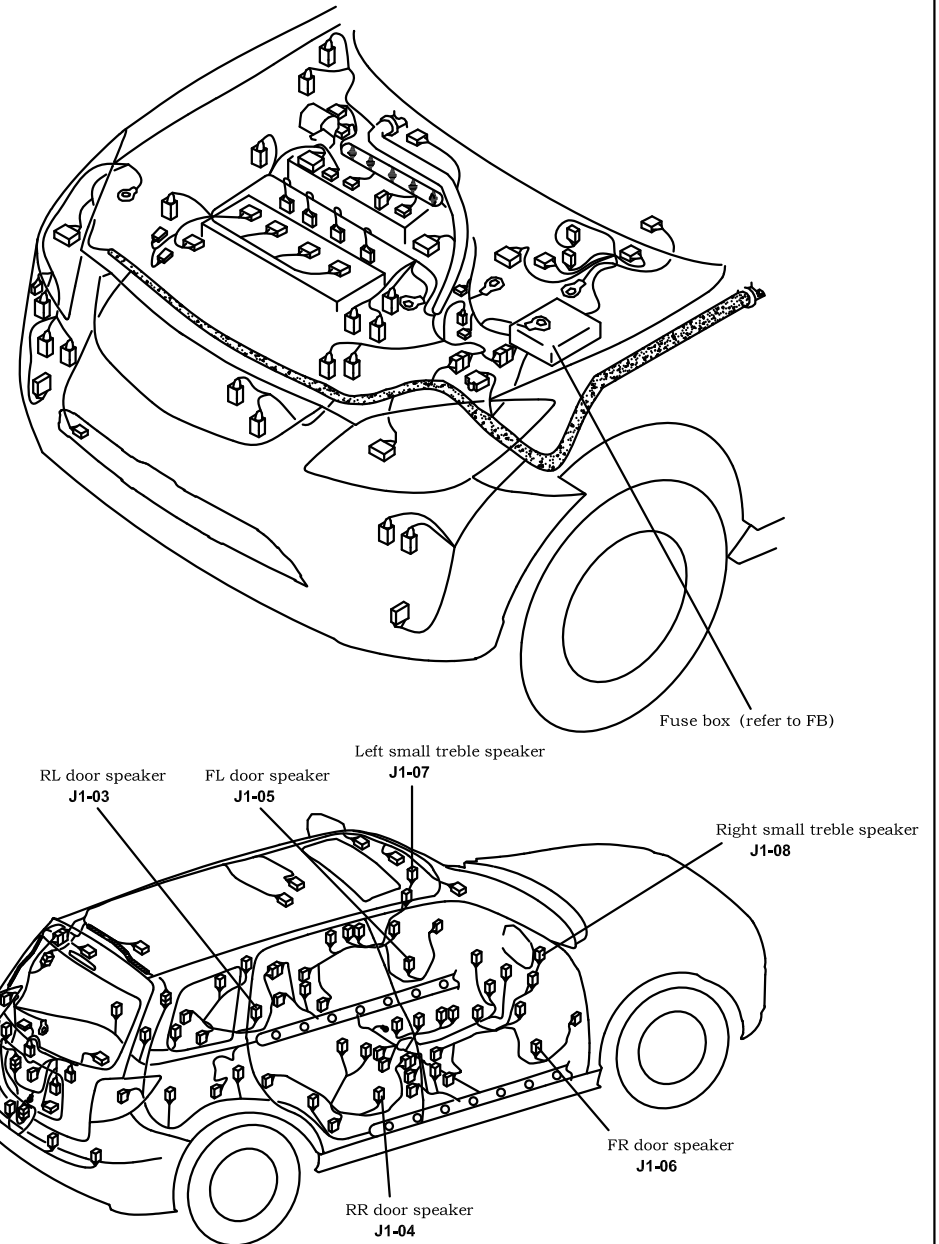
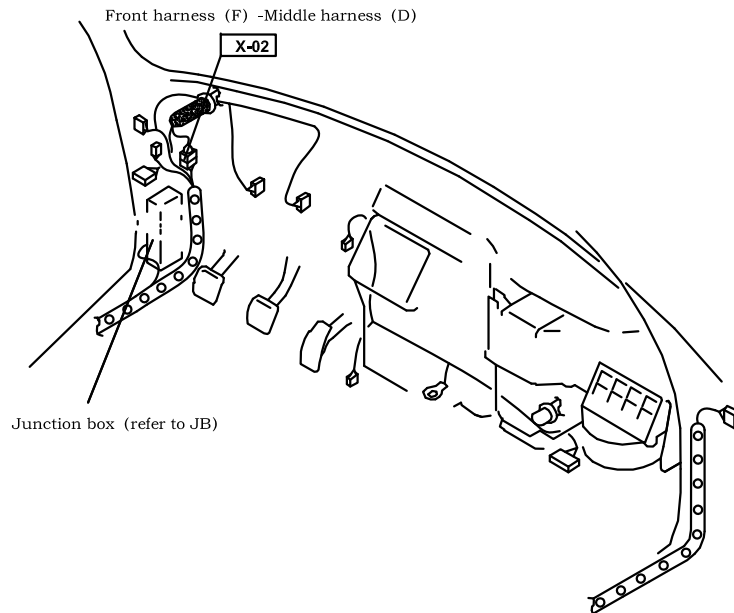
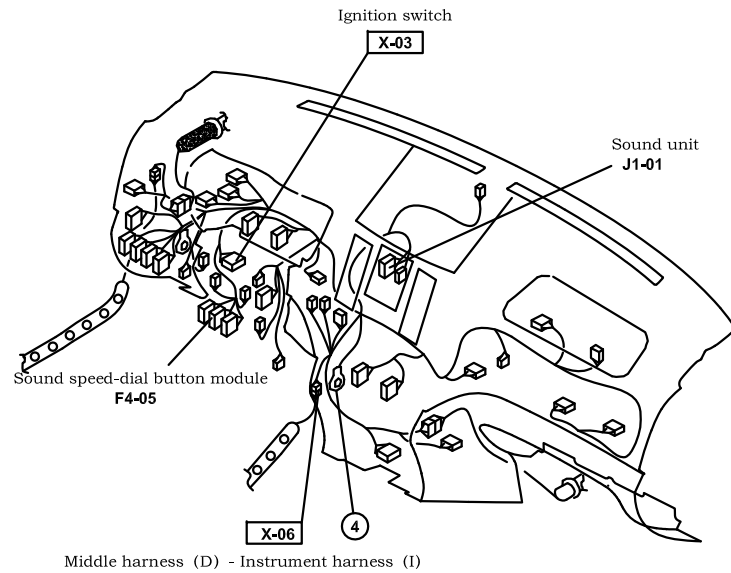


J1-01 Sound control unit (I) with car networking configuration models

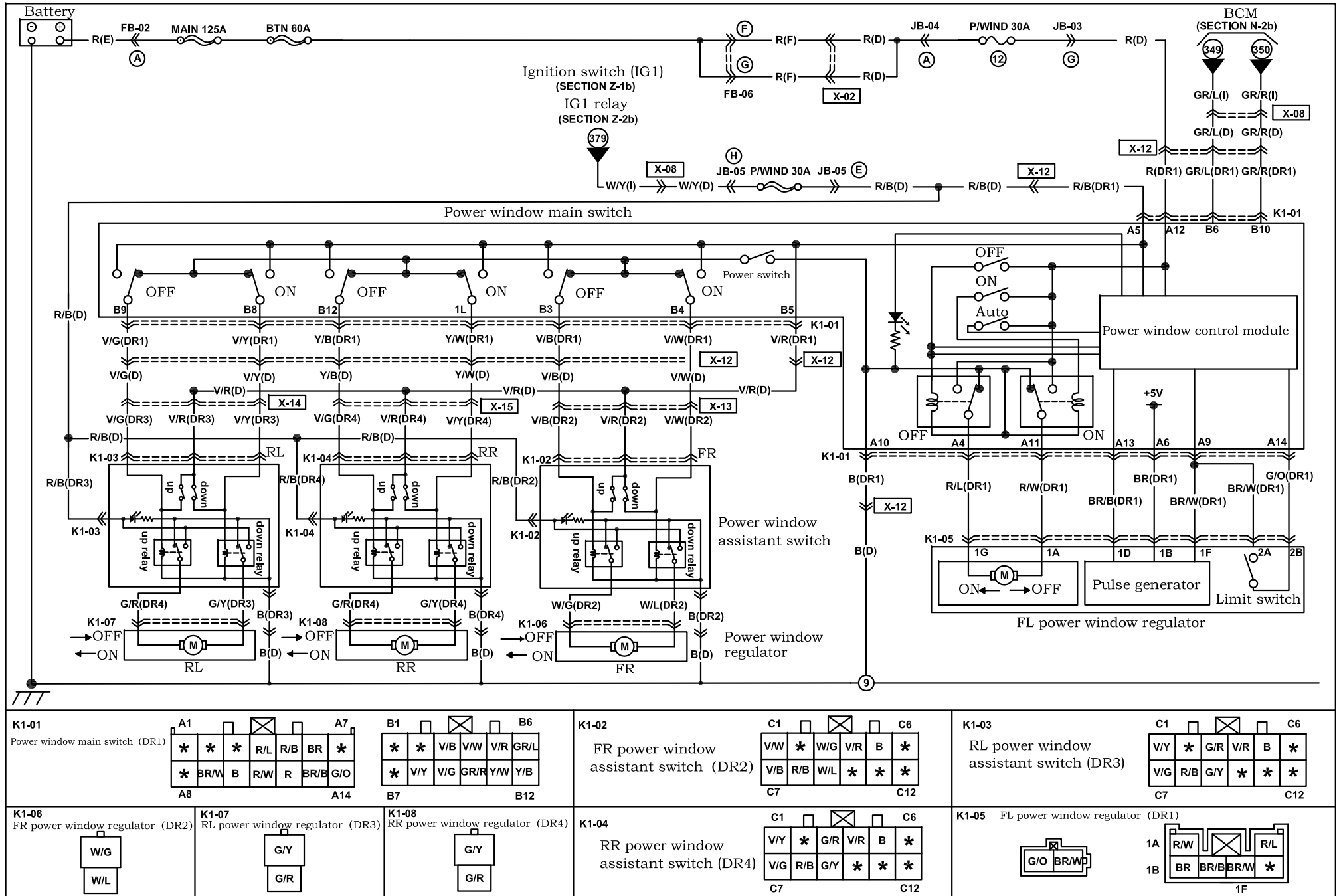
Yellow C1				Green C2				Blue C3			
1	R/B	1	IGR/R	7	B/G	7	GR/B	1	*	*	*
2	IGR/L	2	R/Y	8	IGR/W	8	Y	2	*	*	*
3	R/L	3	G/Y	9	L/O	9	IP/B	3	*	*	*

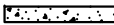

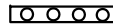

Black				Brown			
A2	R/W	A1	R/G	B2	O	B1	L
	G		LG/B		G/Y		G/R
	LG		*		G/W		G/O
A8	B	A7	BR/Y	B8	L/Y	B7	L/W

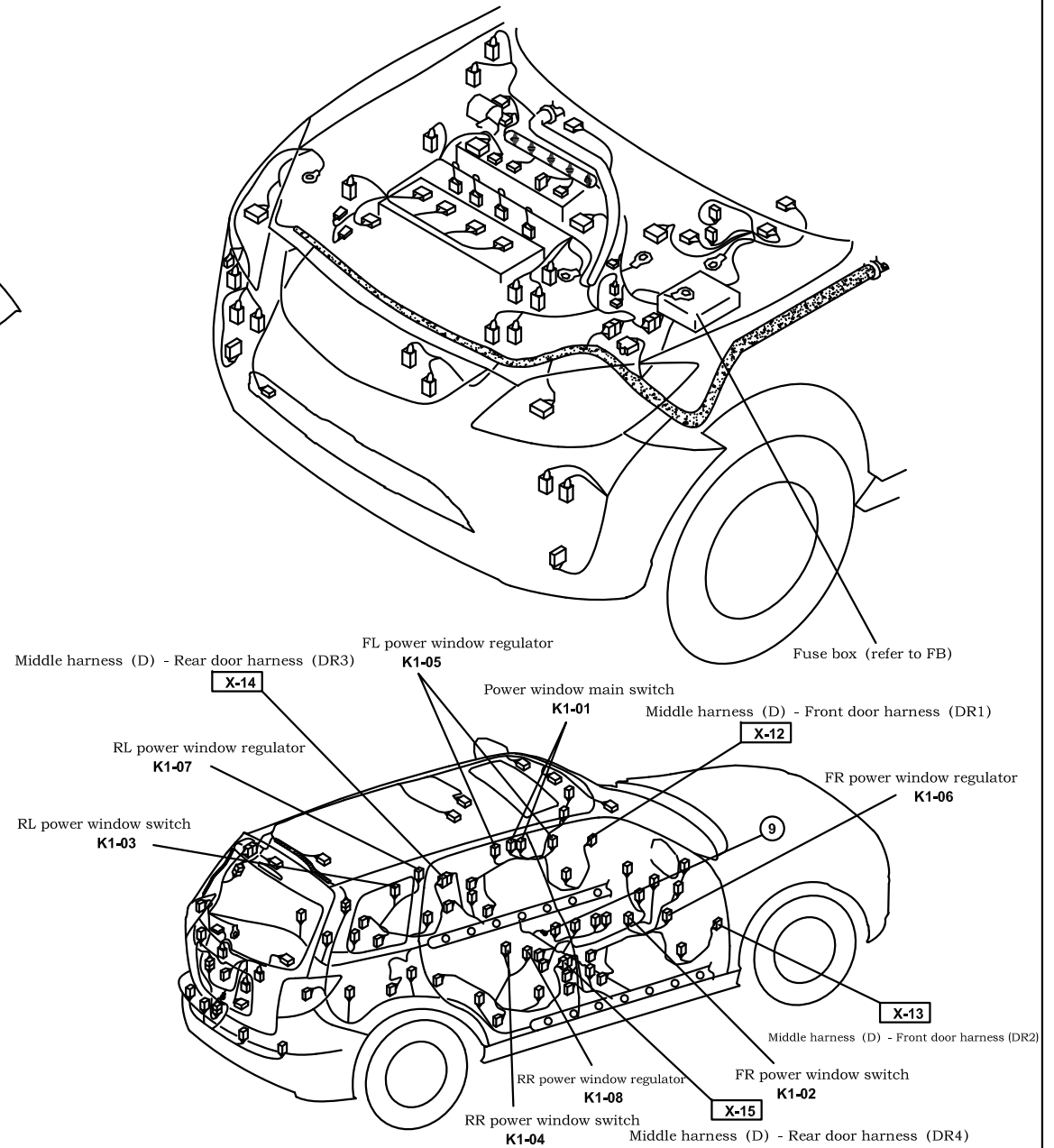
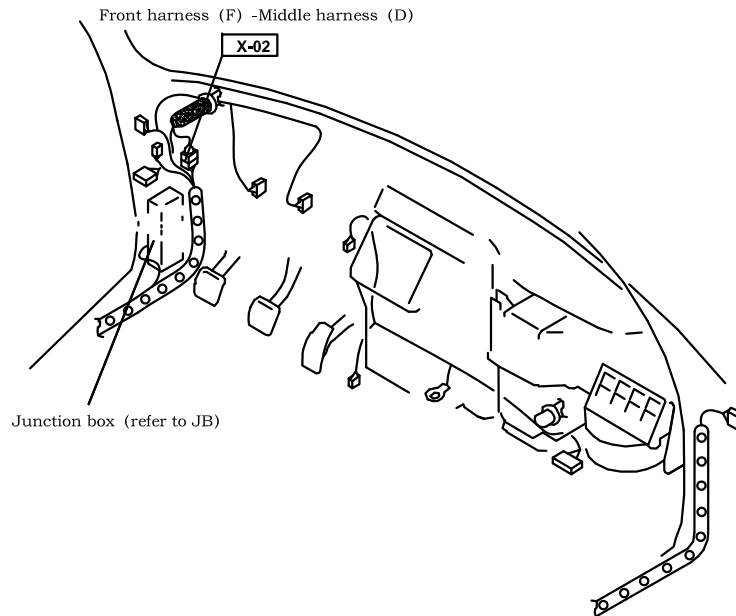
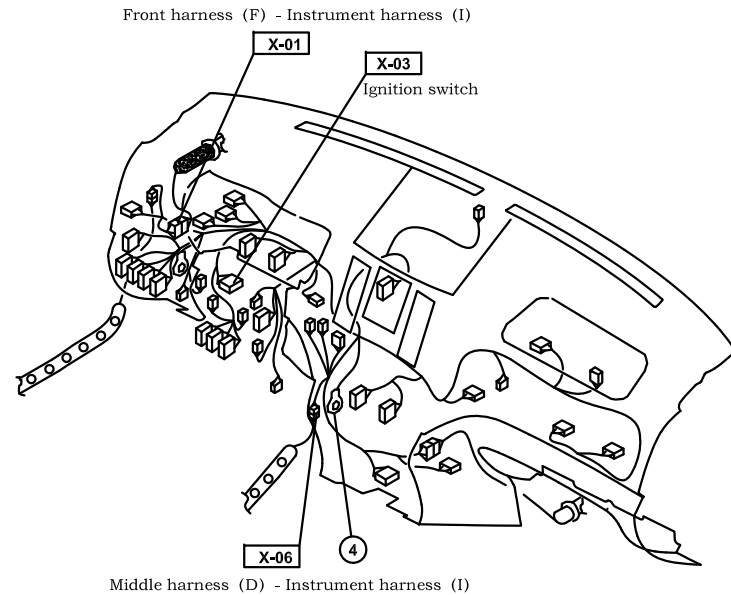
Harness mark:  (F)  (E)  (D)  (R)



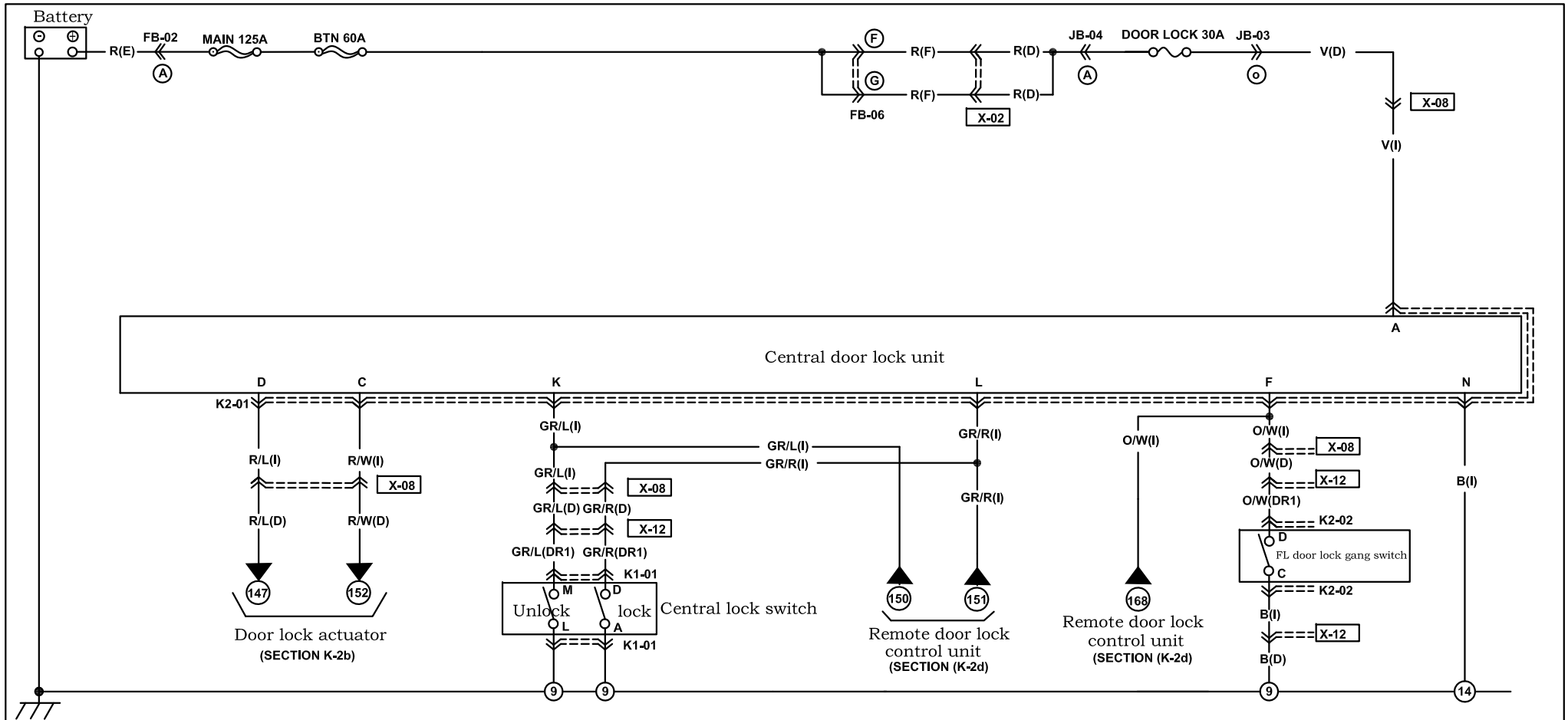
## Power window system



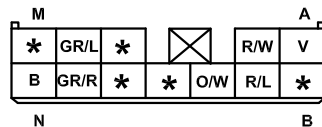
Harness mark:  (F)  (E)  (D)  (R)



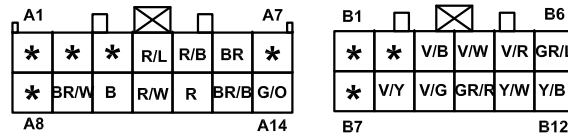
# Remote and central door lock system



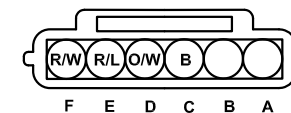
K2-01 Central door lock unit (D)

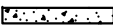

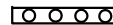
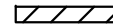


K1-01 Power window main switch (DR1)

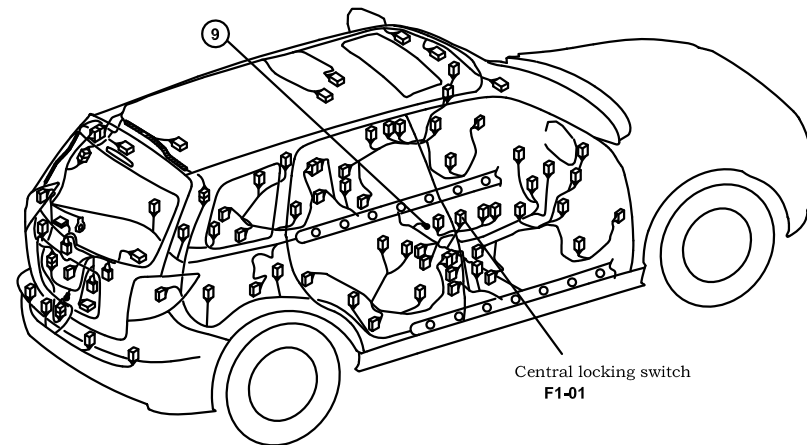
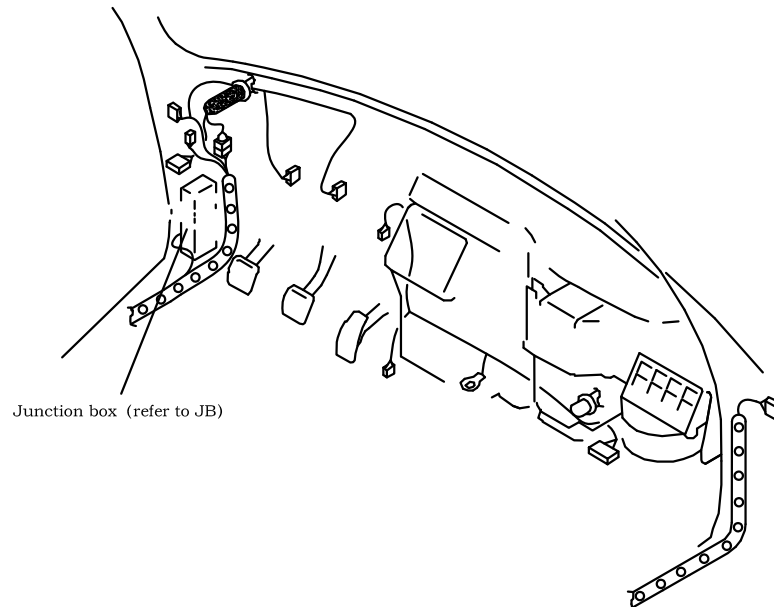
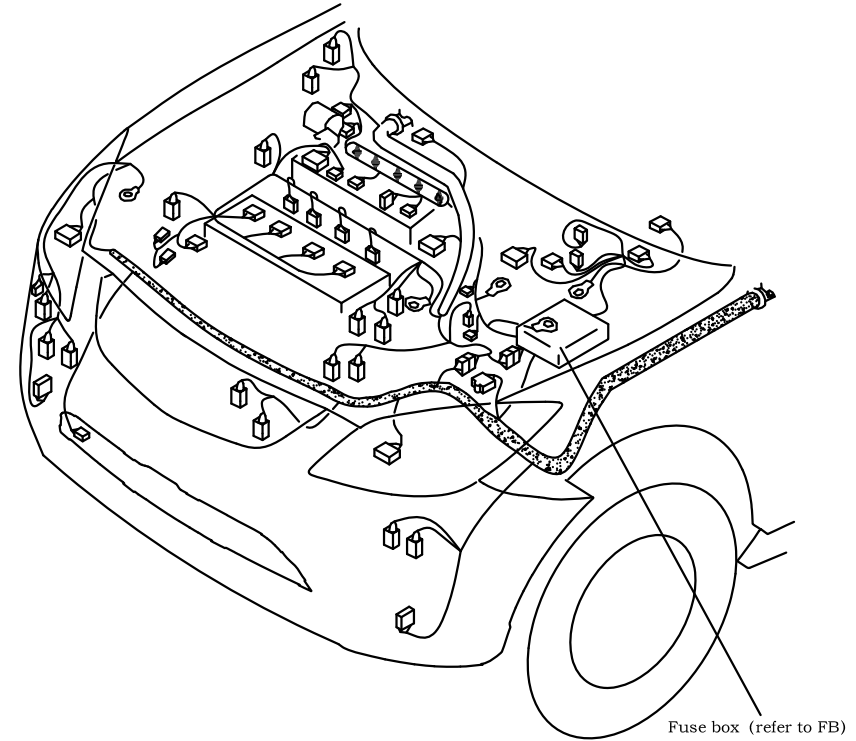
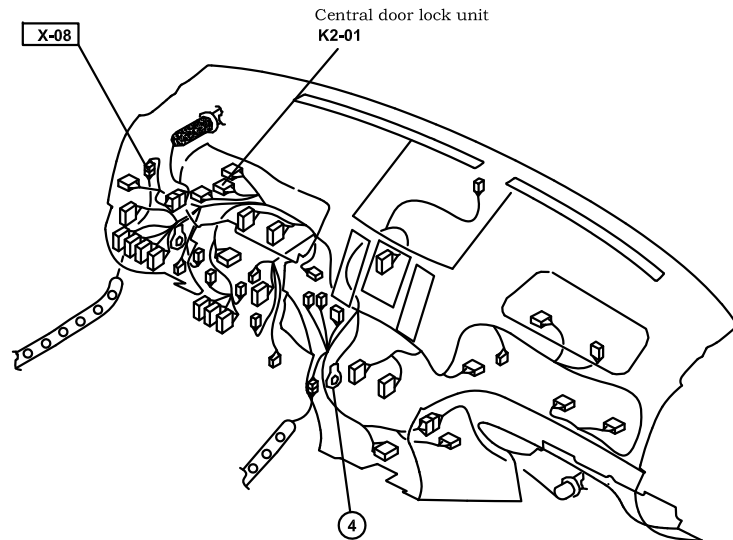


K2-02 FL door lock actuator (DR1)

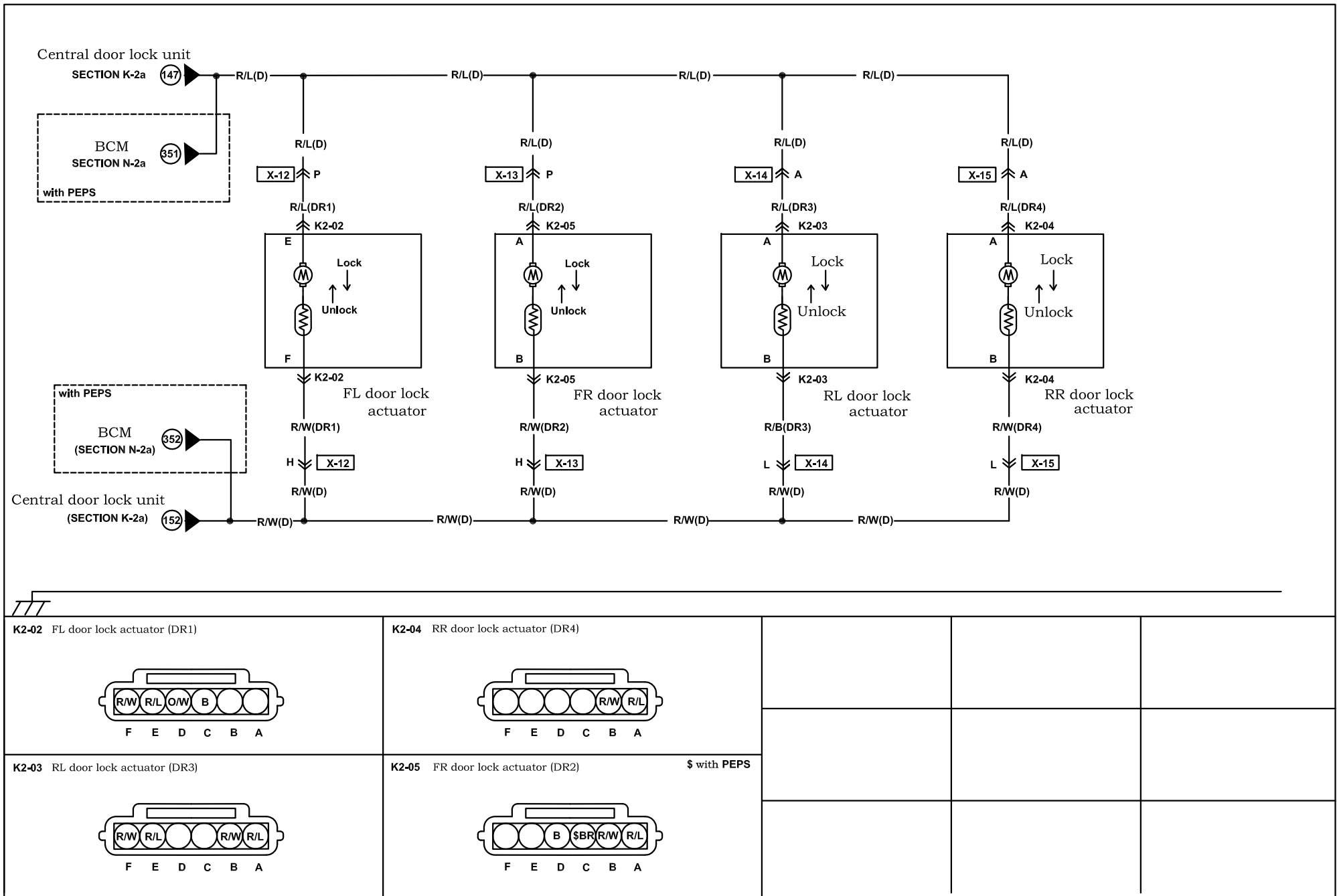


Harness mark:  (F)  (E)  (D)  (R)


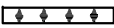
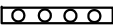
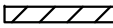
Middle harness (D) - Instrument harness (I)

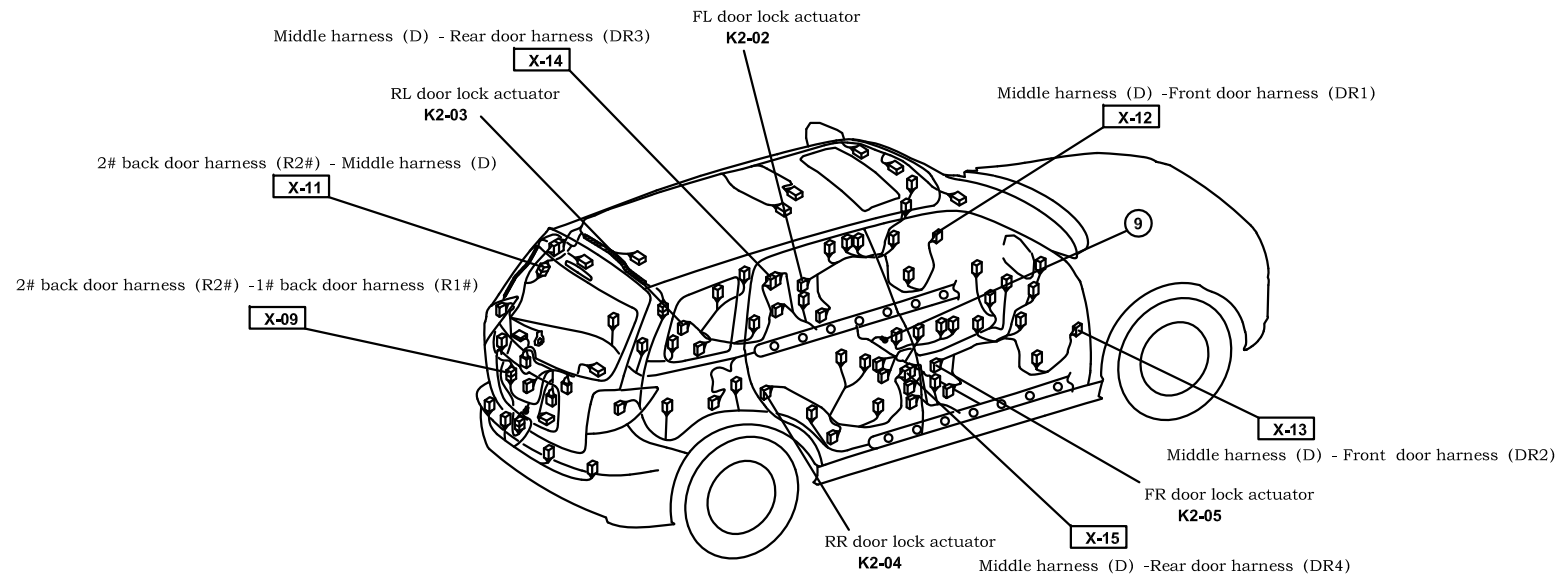


# Remote and central door lock system

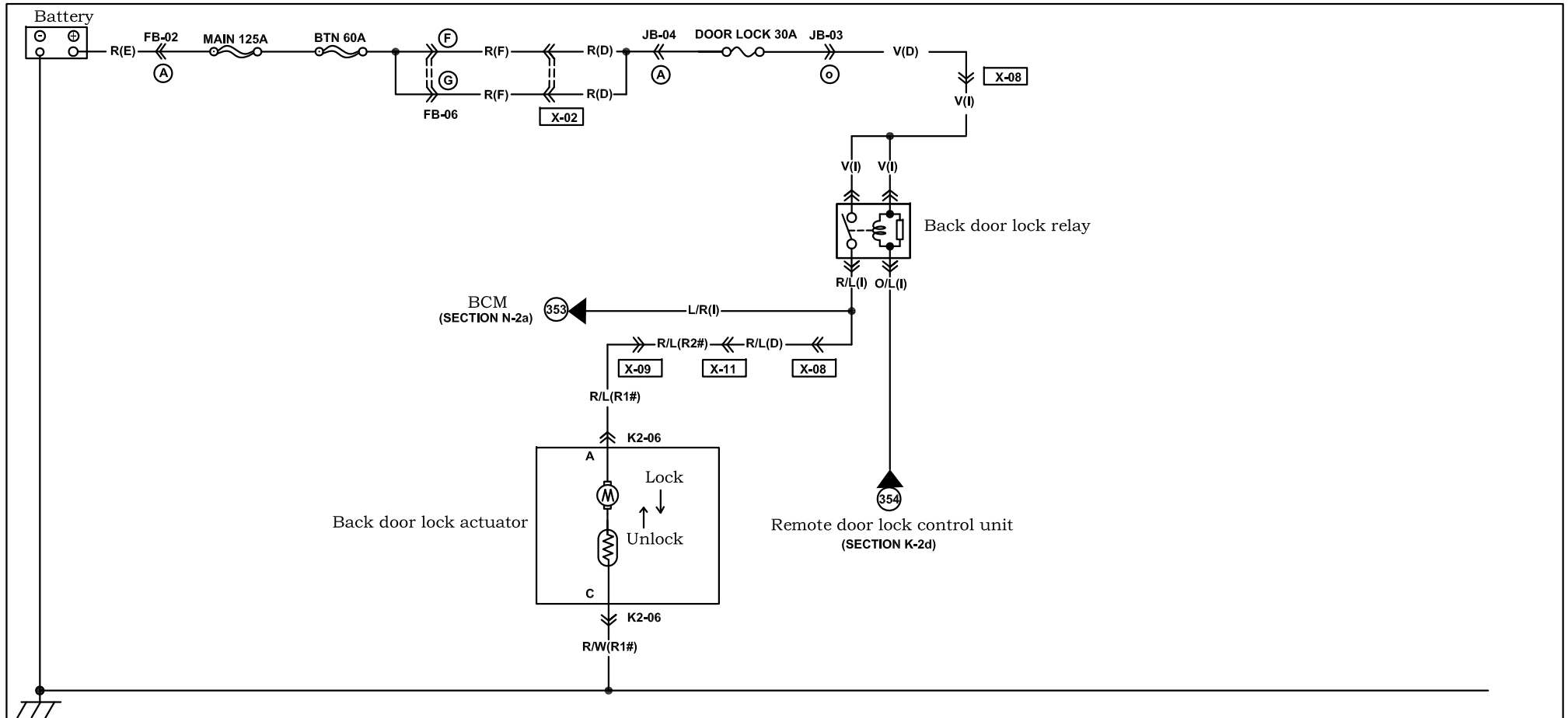




Harness mark:  (F)  (E)  (D)  (R)



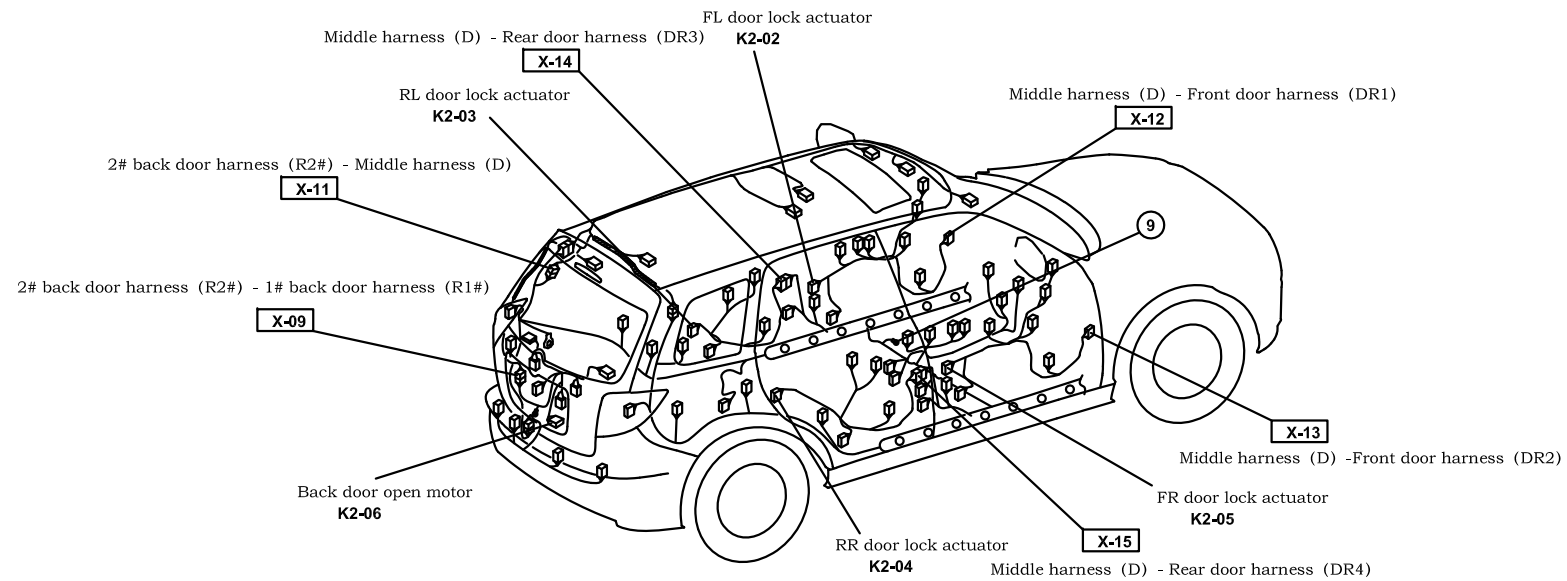
# Remote and central door lock system



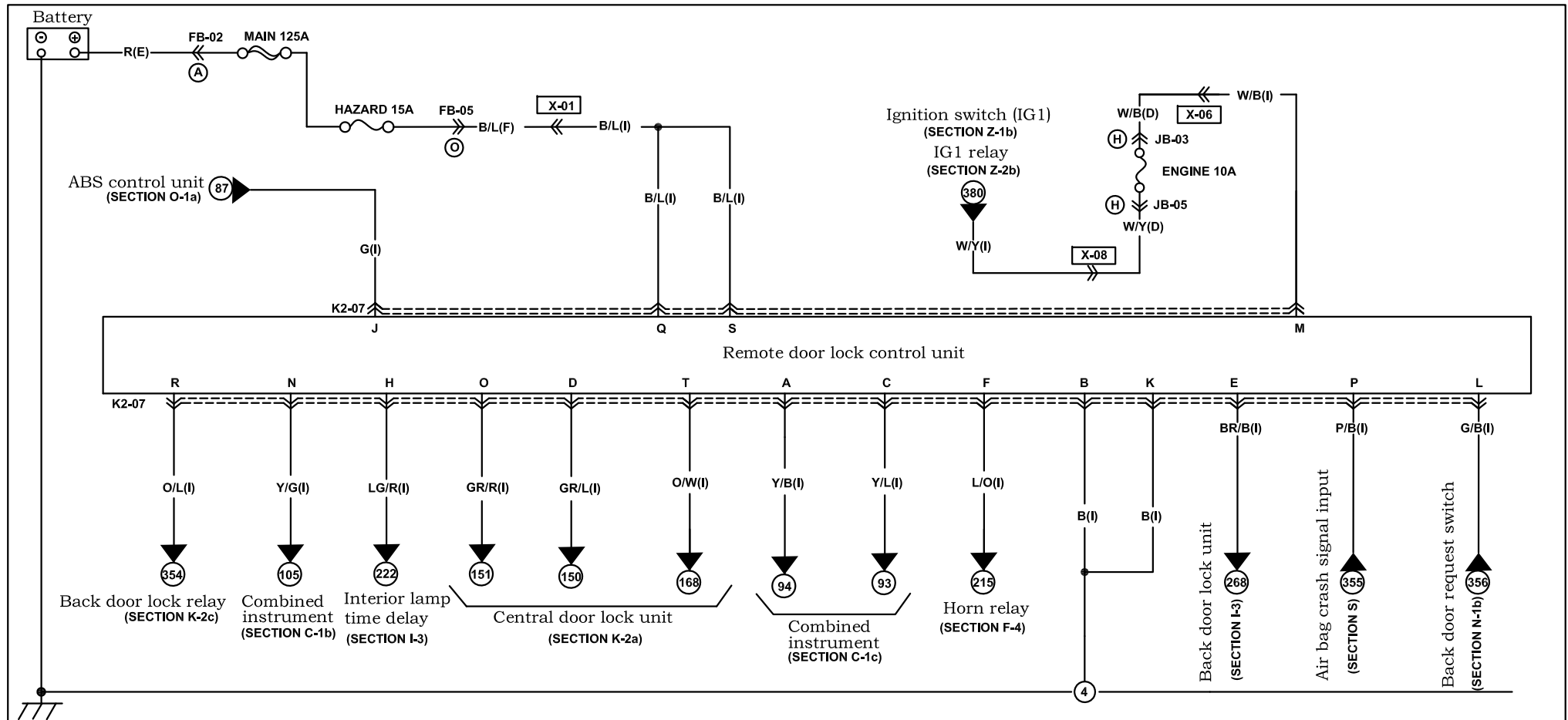
K2-06 Back door open motor (R1#)

E	D	C	B	A
*	*	L/R	*	B

Harness mark:  (F)  (E)  (D)  (R)

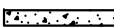




## Remote and central door lock system

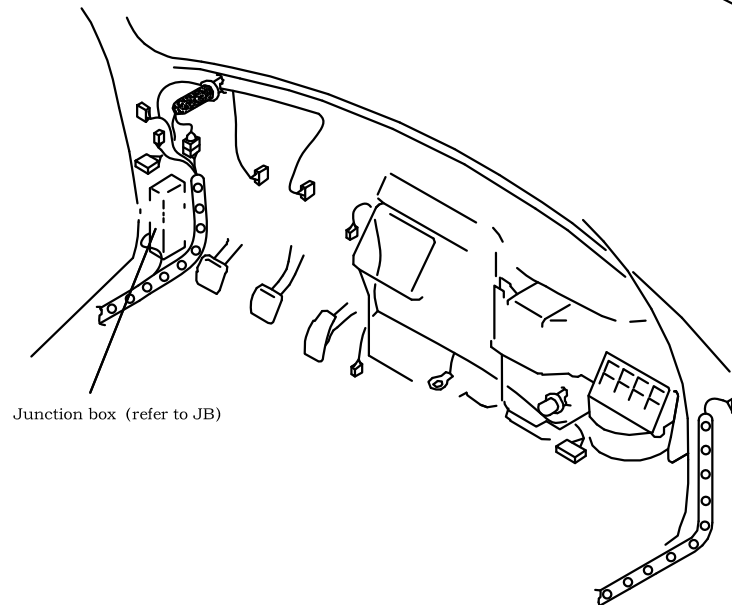
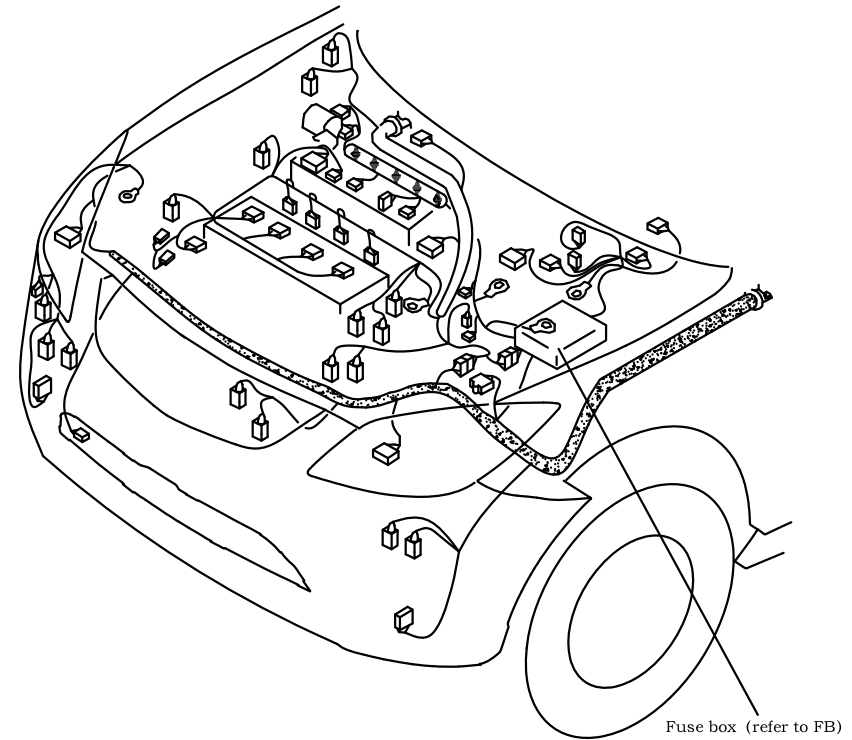
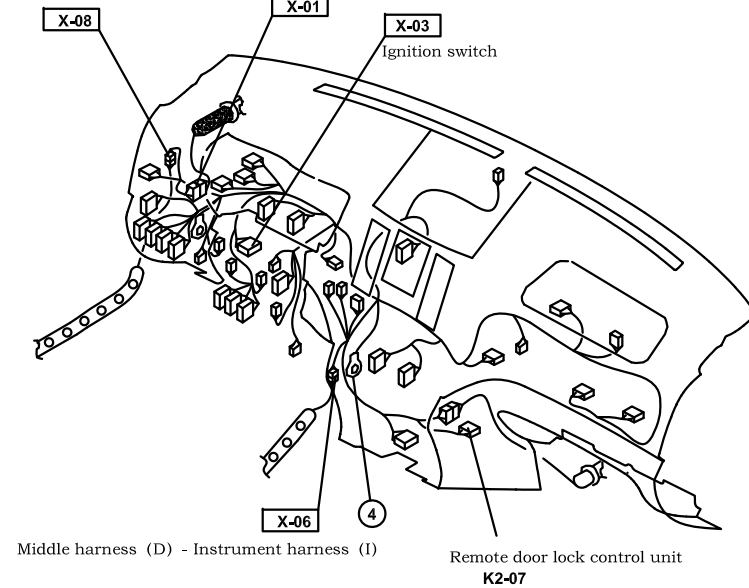


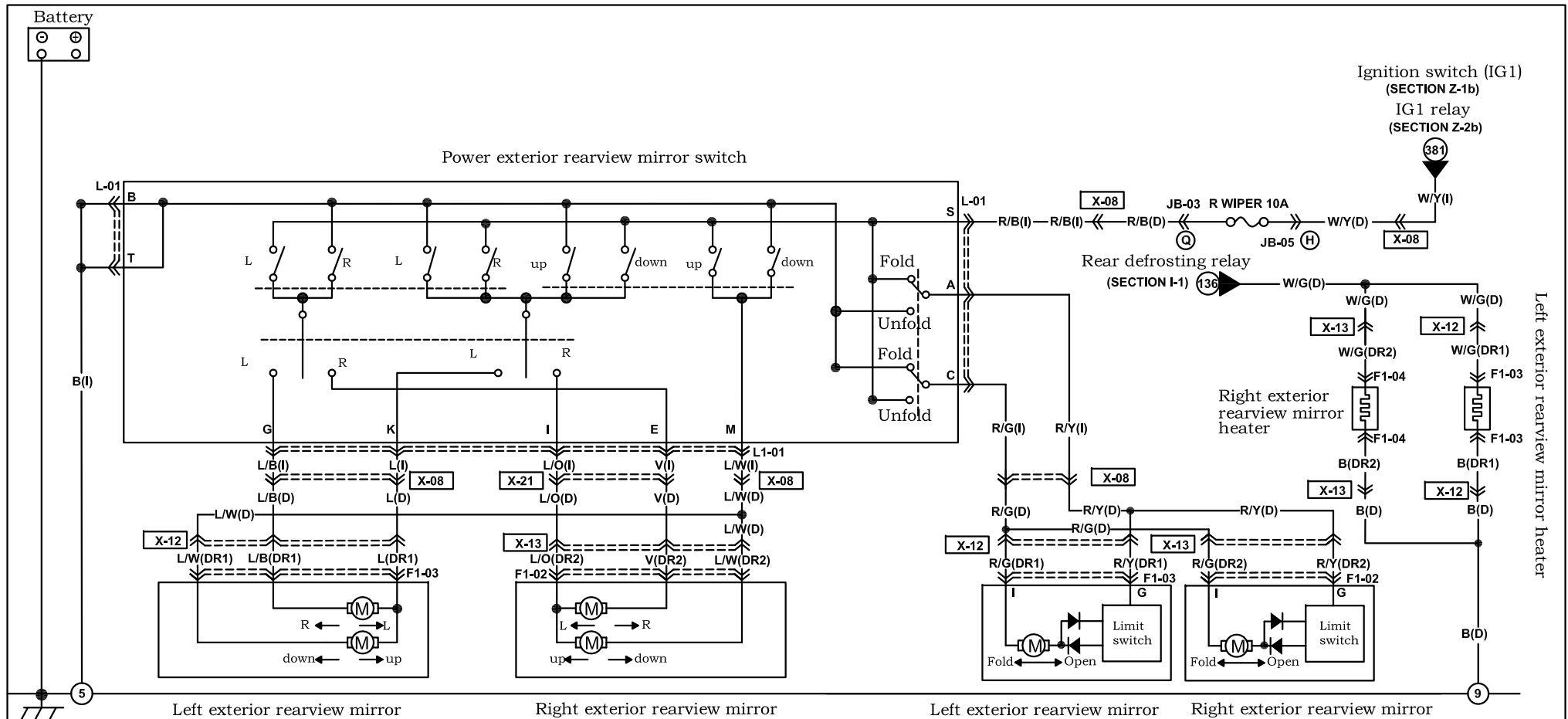
K2-07 Remote door lock control unit (I)

S	Q	O	M	K	I	G	E	C	A
B/L	B/L	GR/R	W/B	B	*	*	BR/B	Y/L	Y/B
O/W	O/L	P/B	Y/G	G/B	G	LG/R	L/O	GR/L	B
T	R	P	N	L	J	H	F	D	B

Harness mark:  (F)  (E)  (D)  (R)

Middle harness (D) - Instrument harness (I) Front harness (F) - Instrument harness (I)





L-01 Integrated switch (I) & with start-stop system

S	Q	O	M	K	I	G	E	C	A
R/B	LG	LG/B	L/W	L	L/O	L/B	V	R/G	R/Y
B	P	G/B	* & P/L	W	*	*	*	*	B
T	R	P	N	L	J	H	F	D	B

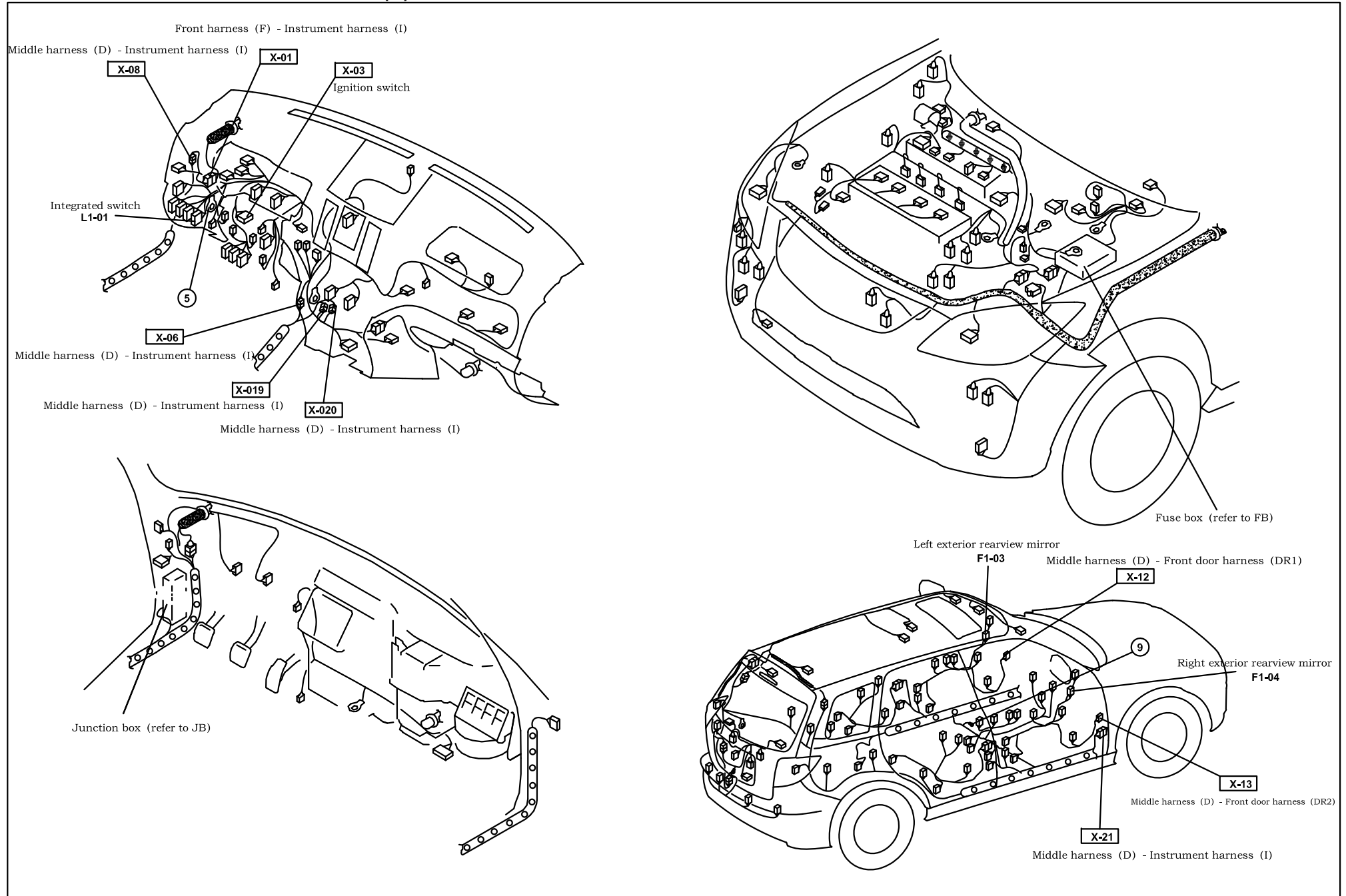
F1-03 Left exterior rearview mirror (DR1)

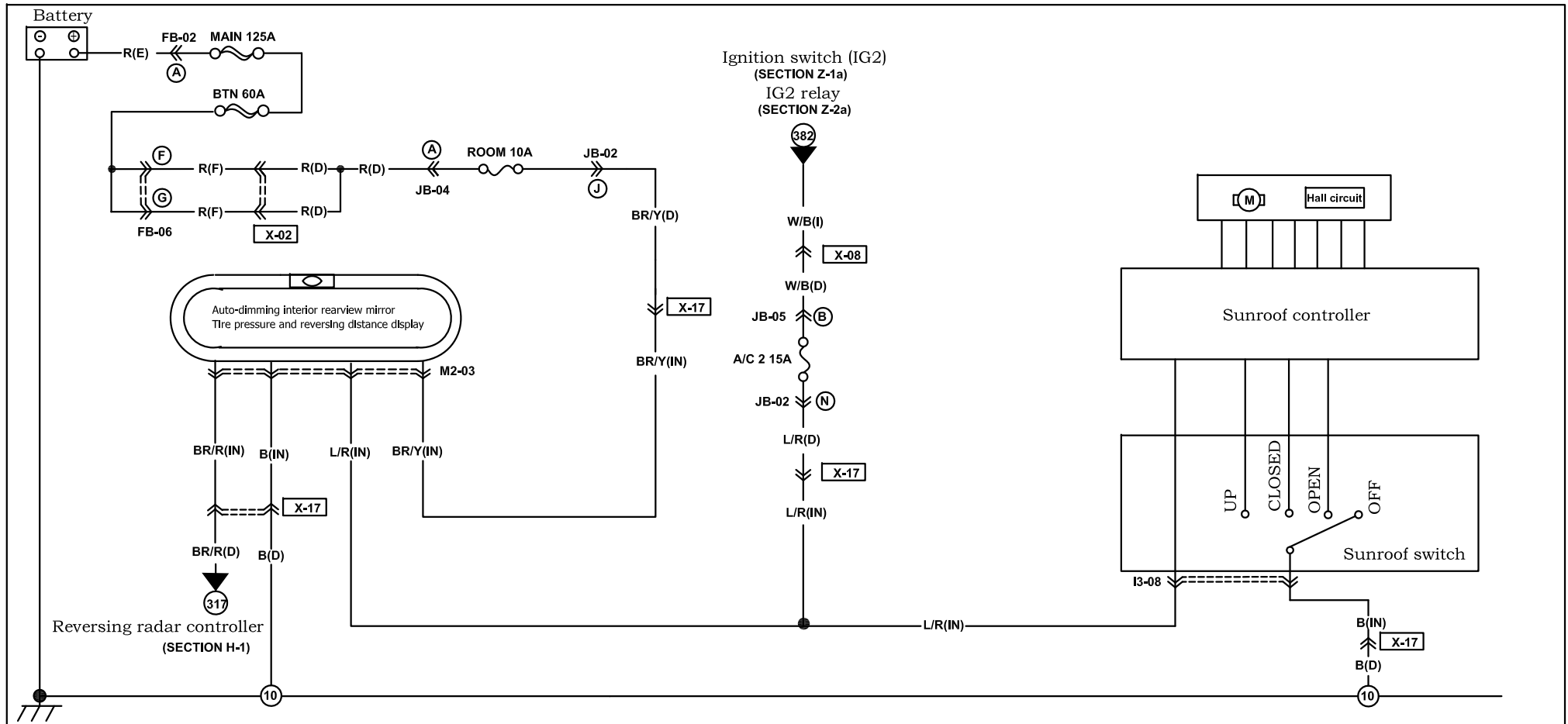
A	B	C	D	E	F	G	H	I	J
*	Y/L	W/G	R/Y	R/G	I	J			
*	L	L/W	L/B	B					

F1-04 Left exterior rearview mirror (DR2)

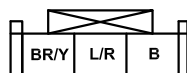
A	B	C	D	E	F	G	H	I	J
*	Y/B	W/G	R/Y	R/G	I	J			
*	L/O	L/W	V	B					

Harness mark:  (F)  (E)  (D)  (R)

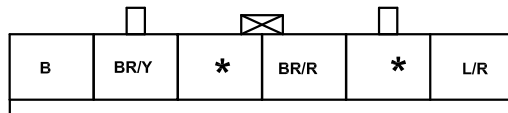




13-08 Sunroof switch (IN)

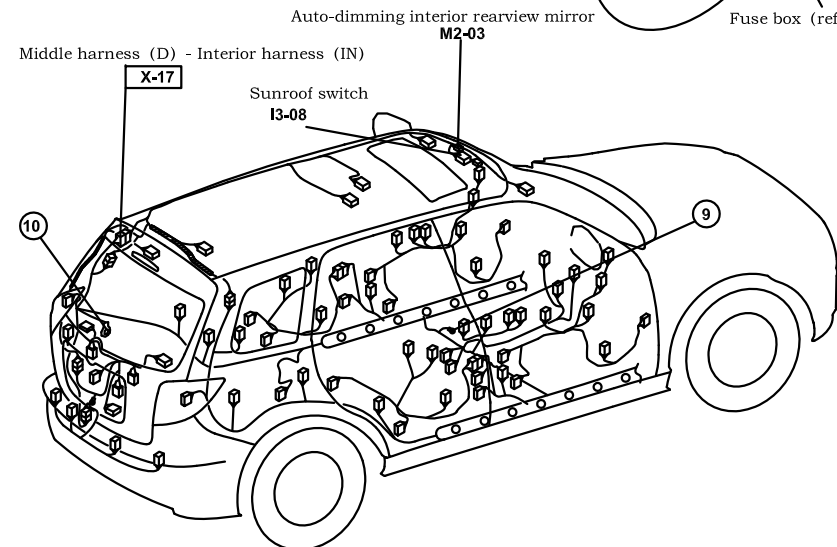
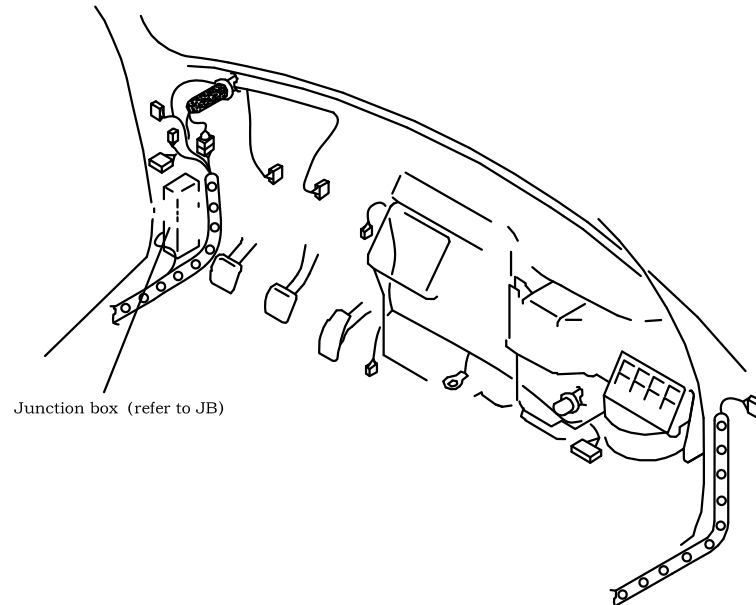
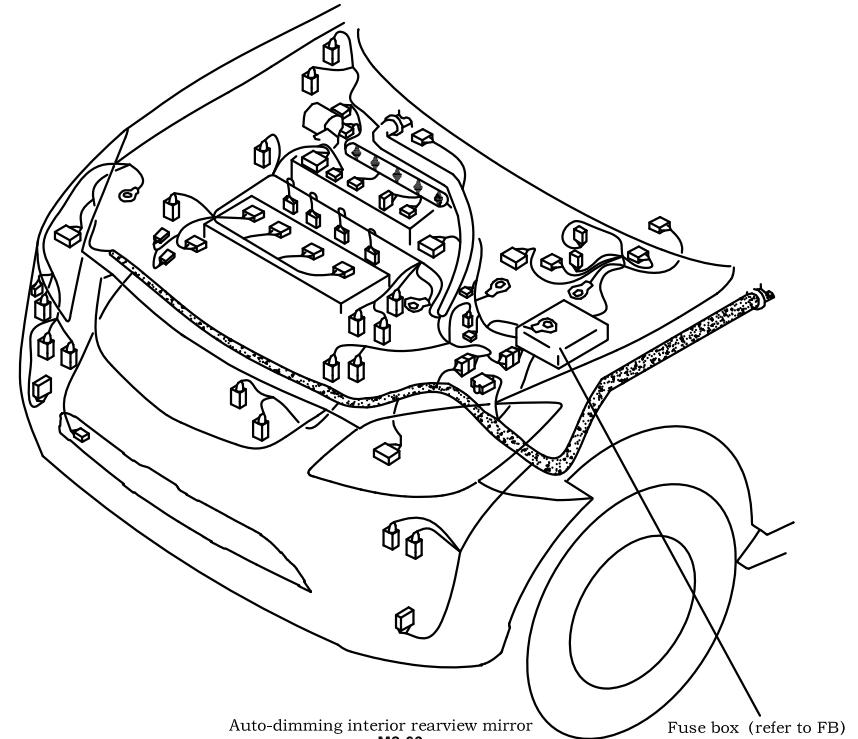
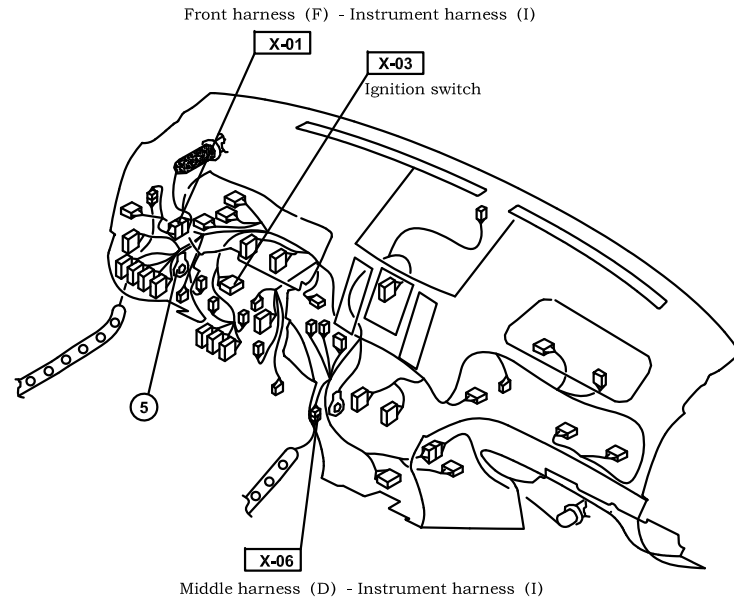


M2-03 Auto-dimming interior rearview mirror (IN)



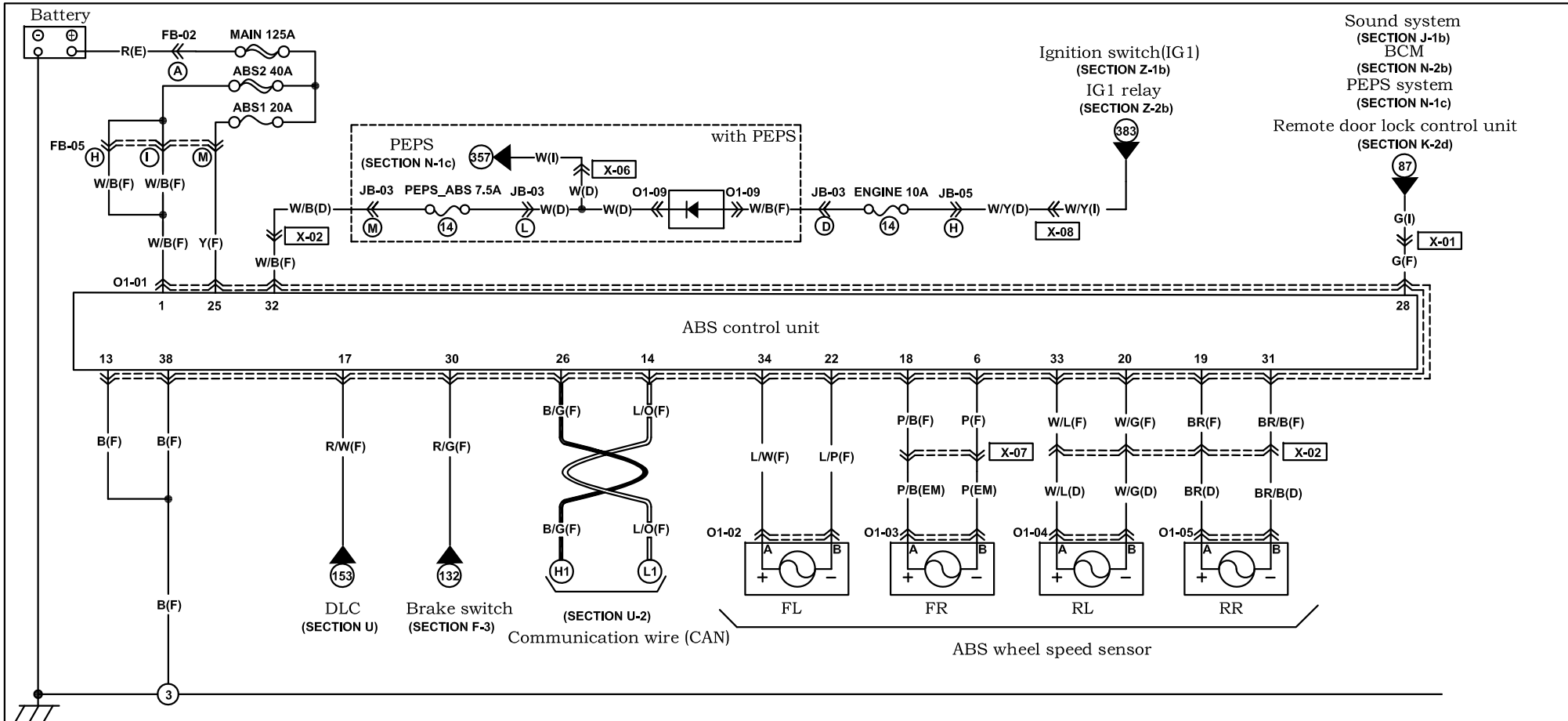


Harness mark: (F) (E) (D) (R)

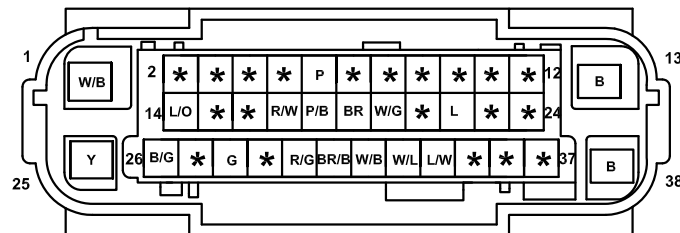


## Anti-lock braking system

O-1a



O1-01 ABS control unit (F)



O1-02 ABS wheel speed sensor FL (EM)



O1-03 ABS wheel speed sensor FR (EM)



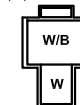
O1-04 ABS wheel speed sensor RL (D)



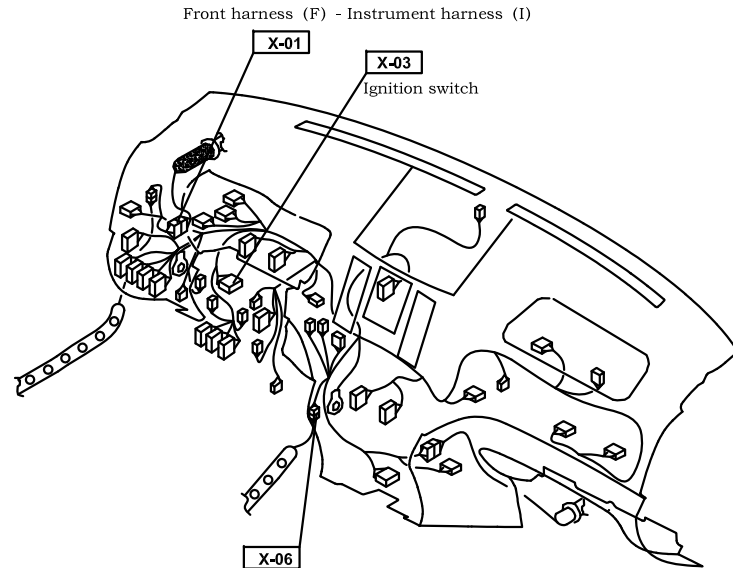
O1-05 ABS wheel speed sensor RR (D)



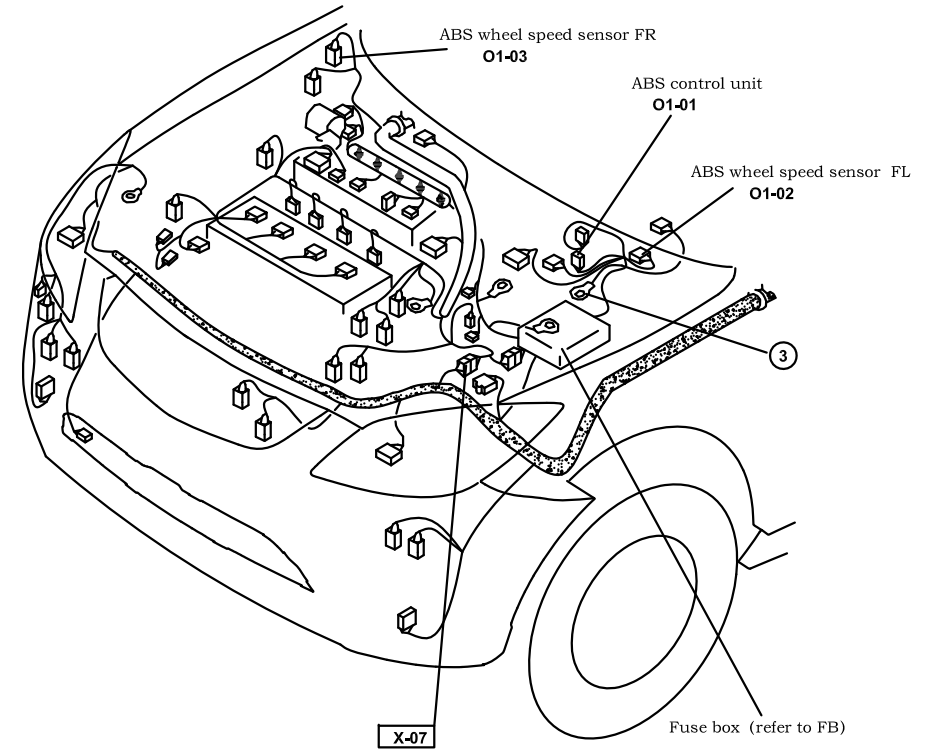
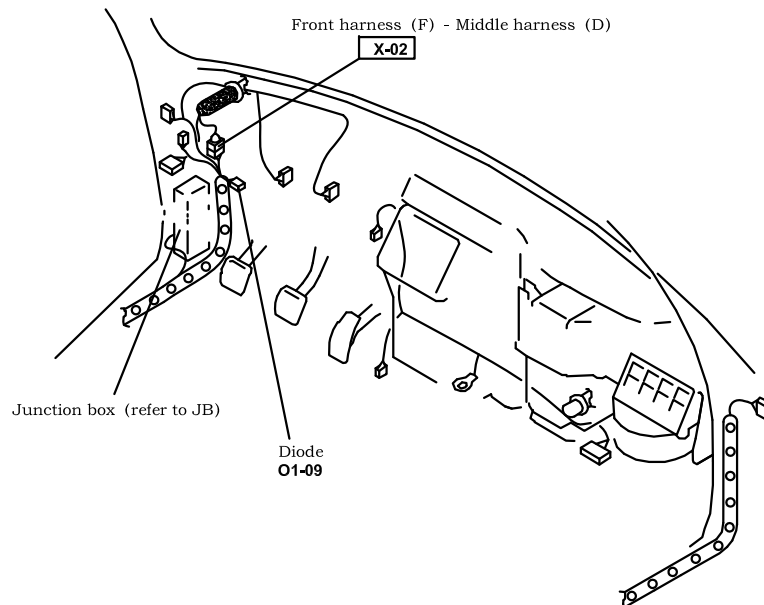
O1-09 Diode (D)



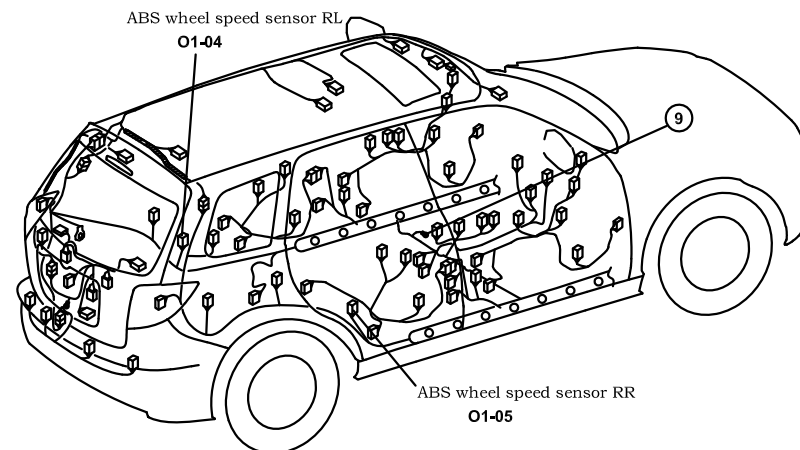
Harness mark:  (F)  (E)  (D)  (R)



Middle harness (D) - Instrument harness (I)

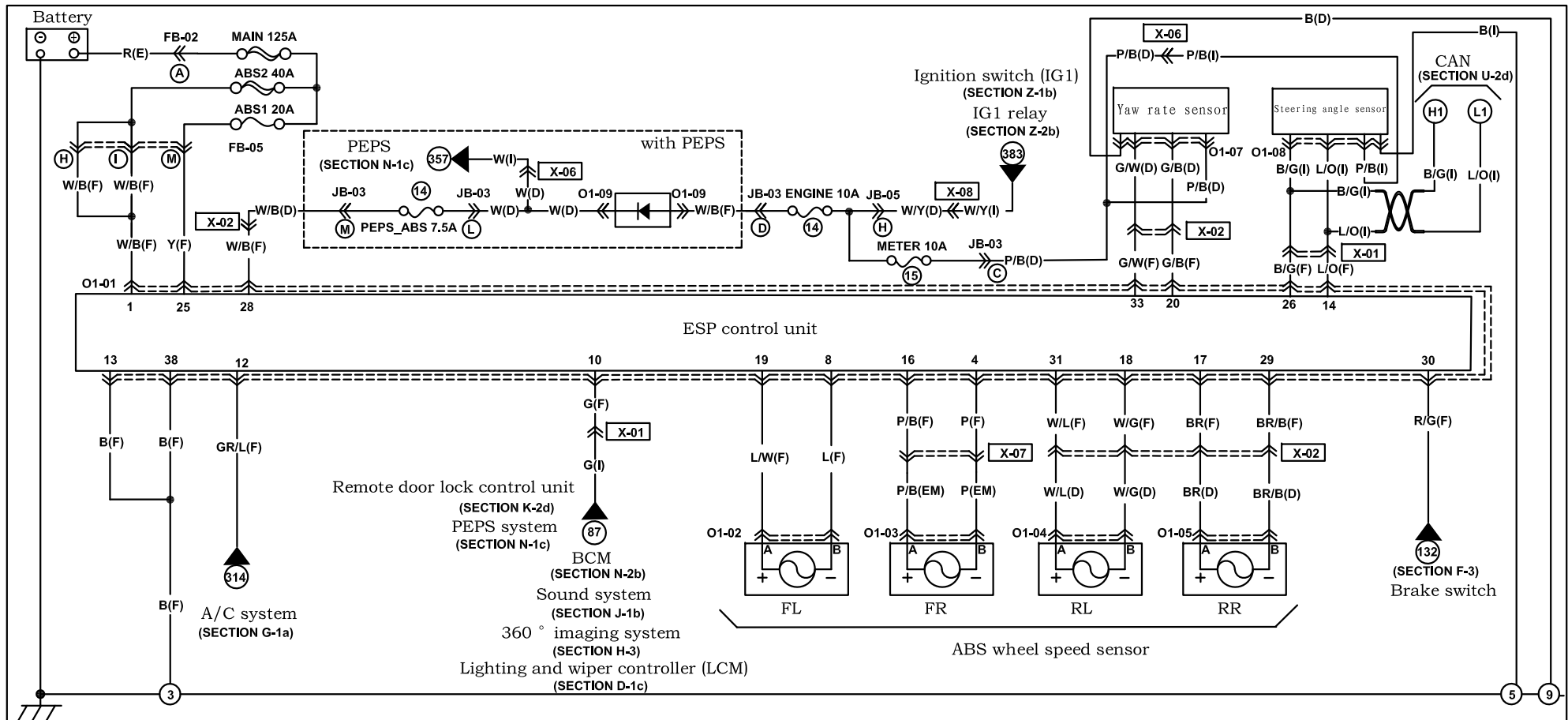


EM harness (EM) - Front harness (F)

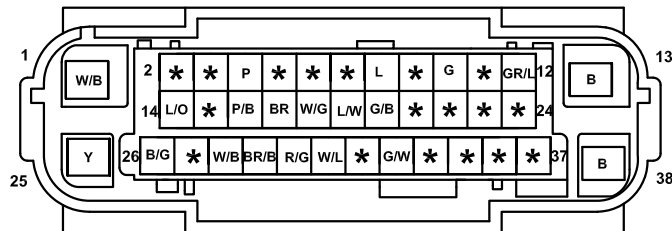


# Anti-lock braking system (1.8T)

O-1b



O1-06 ESP control unit (F)



O1-02 ABS wheel speed sensor FL (EM)



O1-03 ABS wheel speed sensor FR (EM)



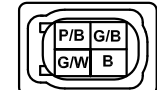
O1-04 ABS wheel speed sensor RL (D)



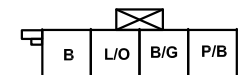
O1-05 ABS wheel speed sensor RR (D)



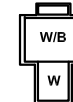
O1-07 Yaw rate sensor (D)



O1-08 Steering angle sensor (I)

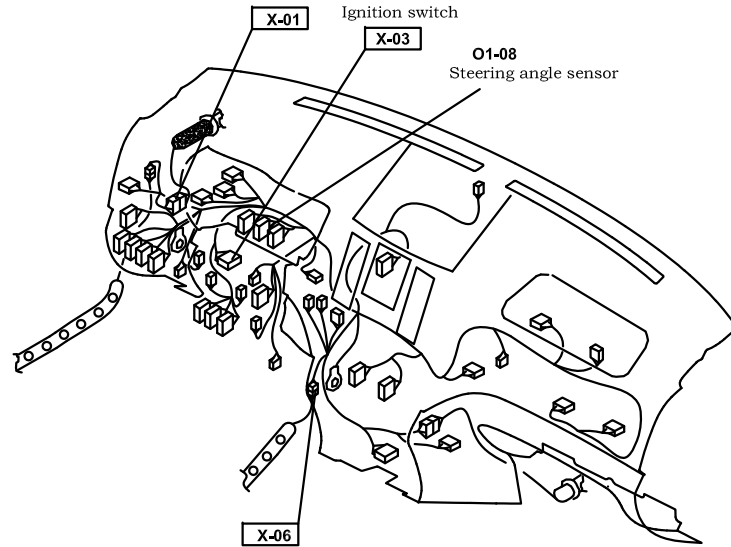


O1-09 Diode (D)

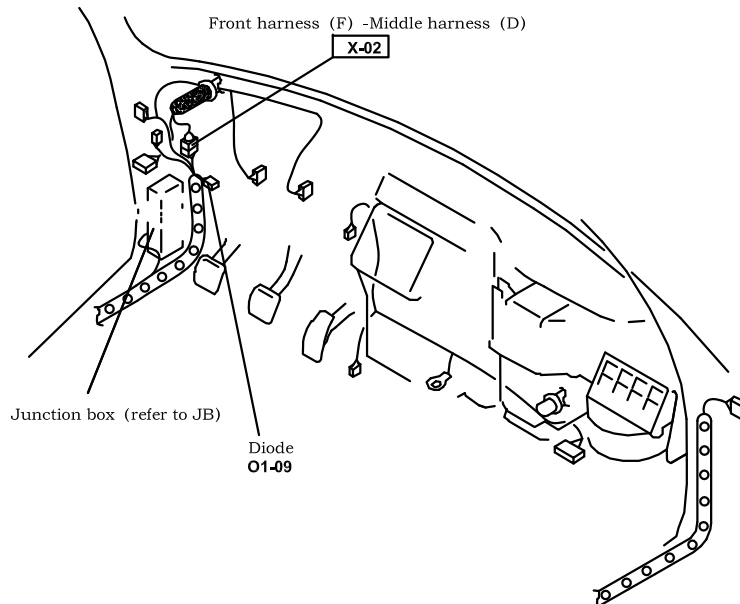


Harness mark:  (F)  (E)  (D)  (R)

Front harness (F) - Instrument harness (I)



Middle harness (D) - Instrument harness (I)



ABS wheel speed sensor FR

O1-03

ESP control unit

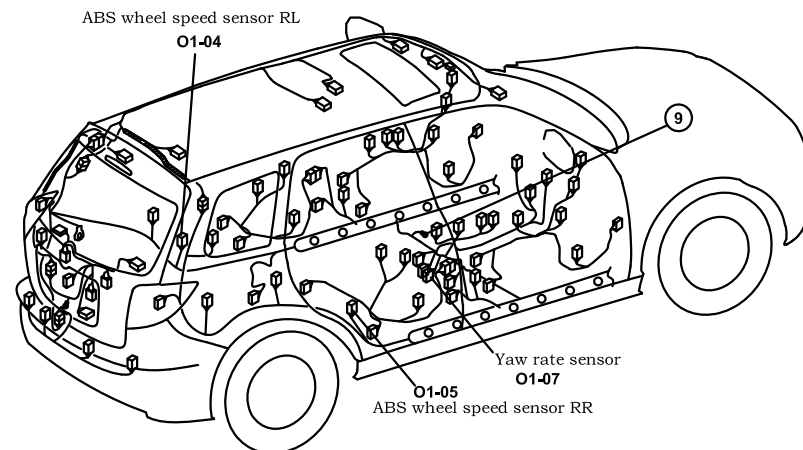
O1-06

ABS wheel speed sensor FL

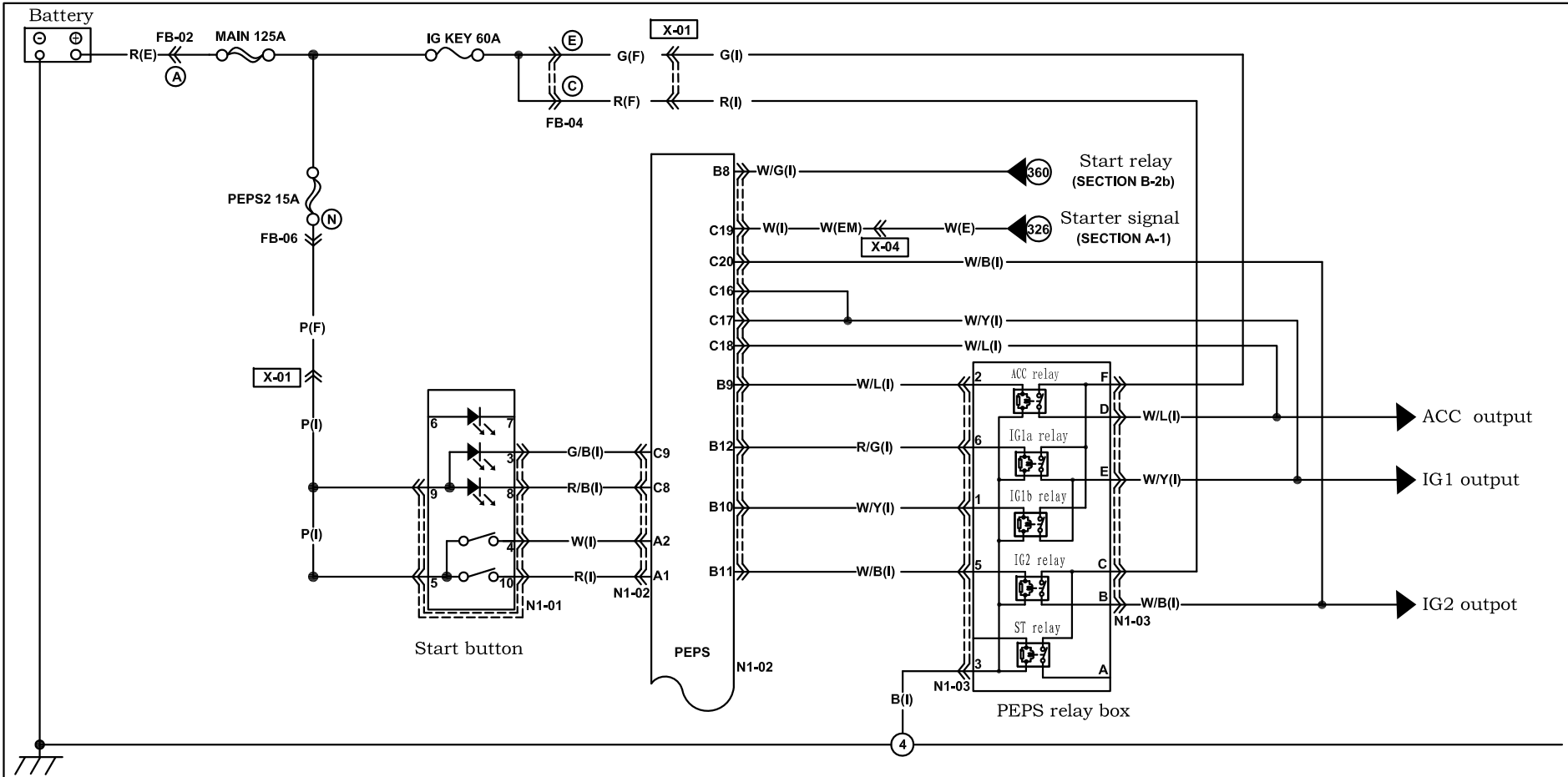
O1-02

Fuse box (refer to FB)

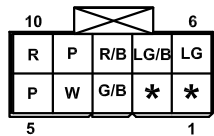
EM harness (EM) - Front harness (F)



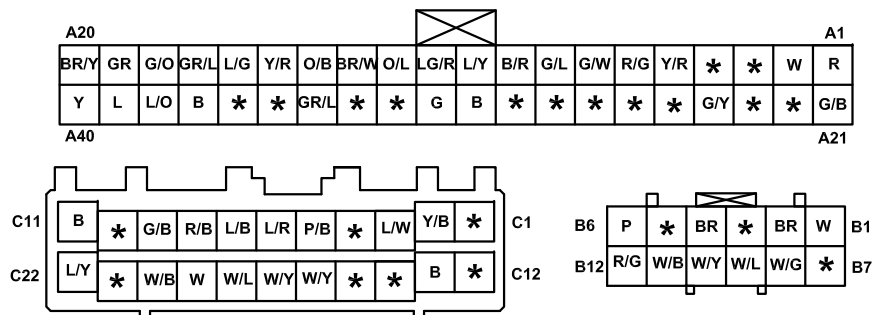
## Smart key system (PEPS)



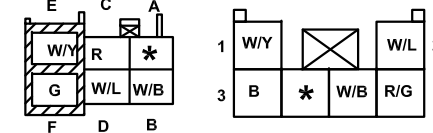
N1-01 Start button (I)

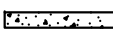
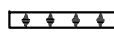
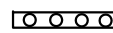
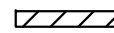


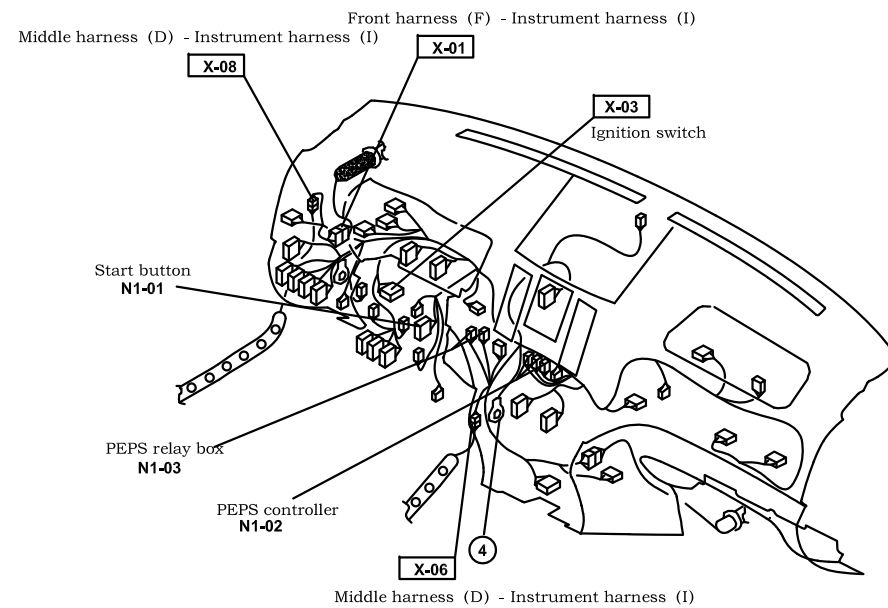
N1-02 PEPS controller (I)



N1-03 PEPS relay box (I)

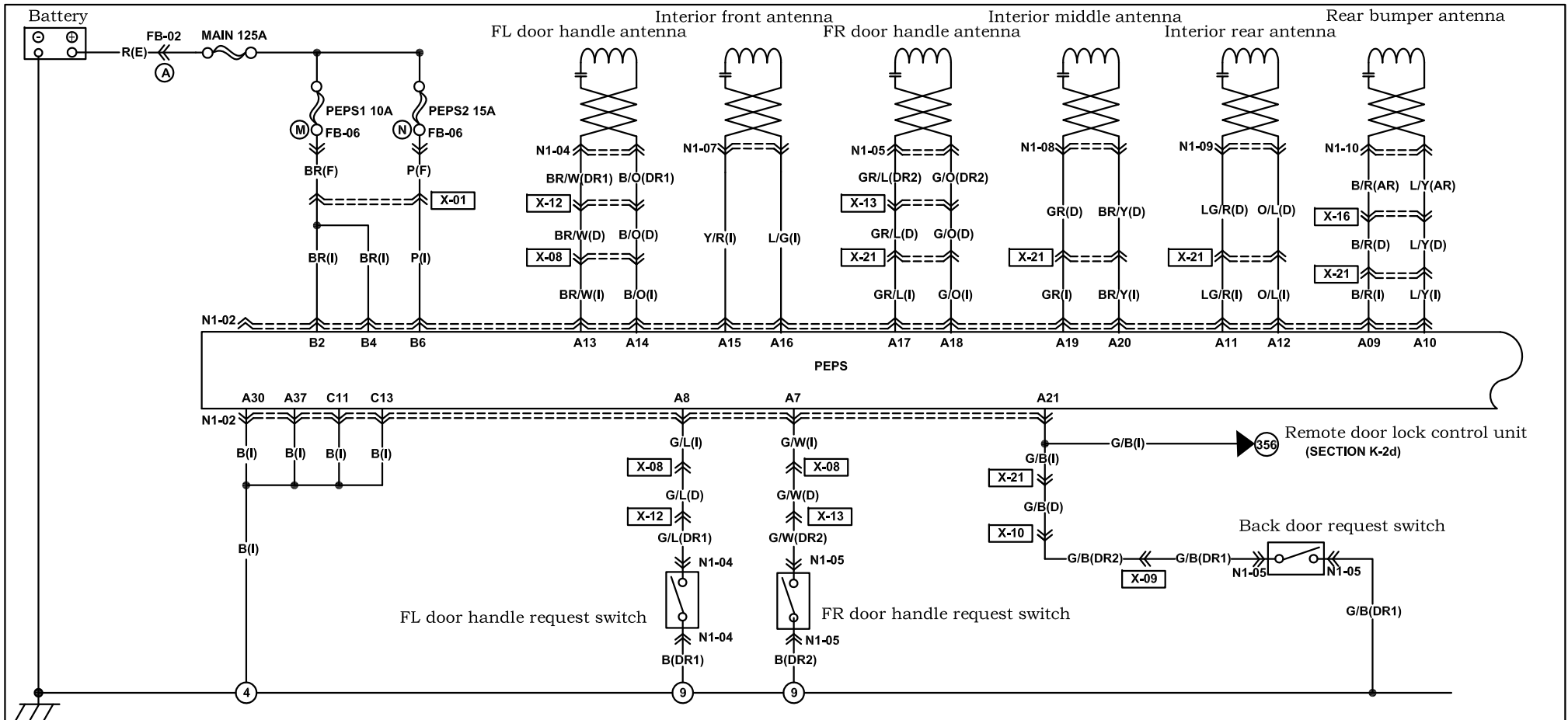


Harness mark:  (F)  (E)  (D)  (R)

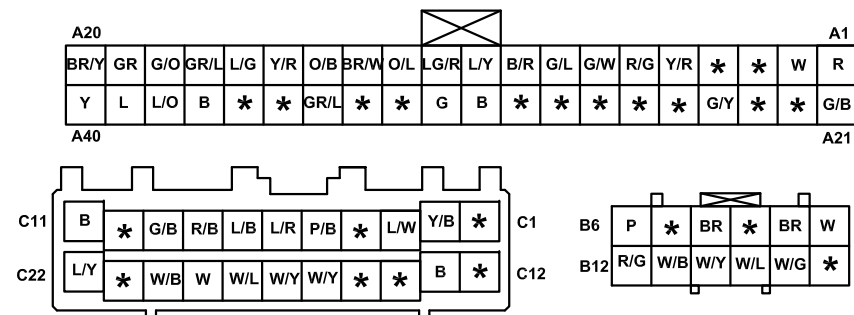


## Smart key system (PEPS)

N-1b

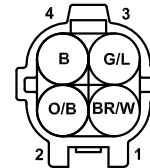


N1-02 PEPS controller (I)



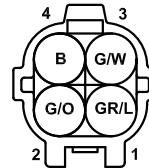
N1-04

FL door handle request switch(DR1)



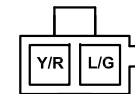
N1-05

FR door handle request switch(DR2)



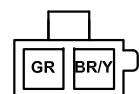
N1-07

Interior front antenna(I)



N1-08

Interior middle antenna(D)

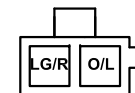


N1-05 Back door request switch (R1#)



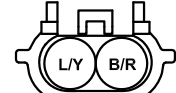
N1-09

Interior rear antenna(D)



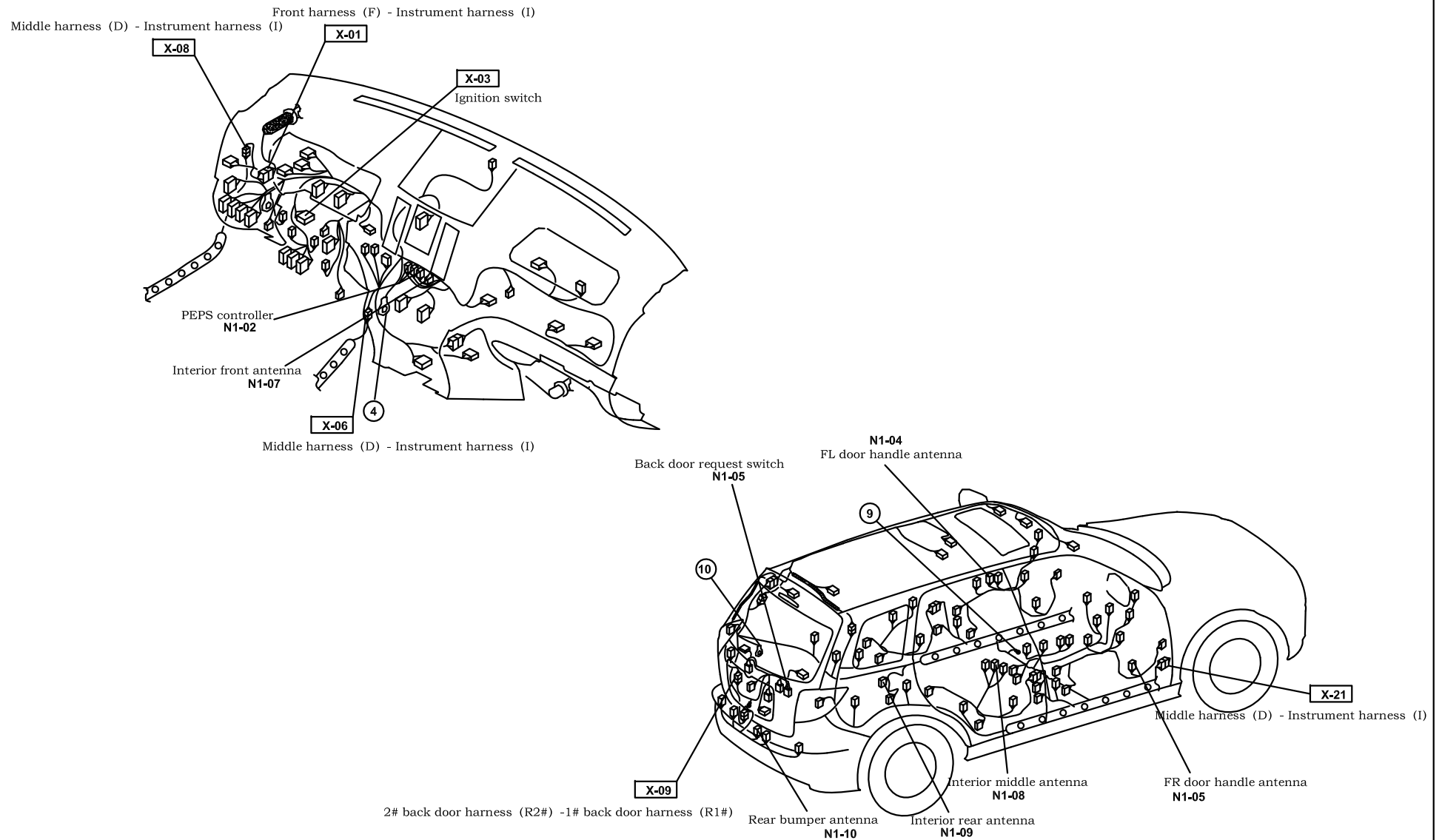
N1-10

Rear bumper antenna(AR)

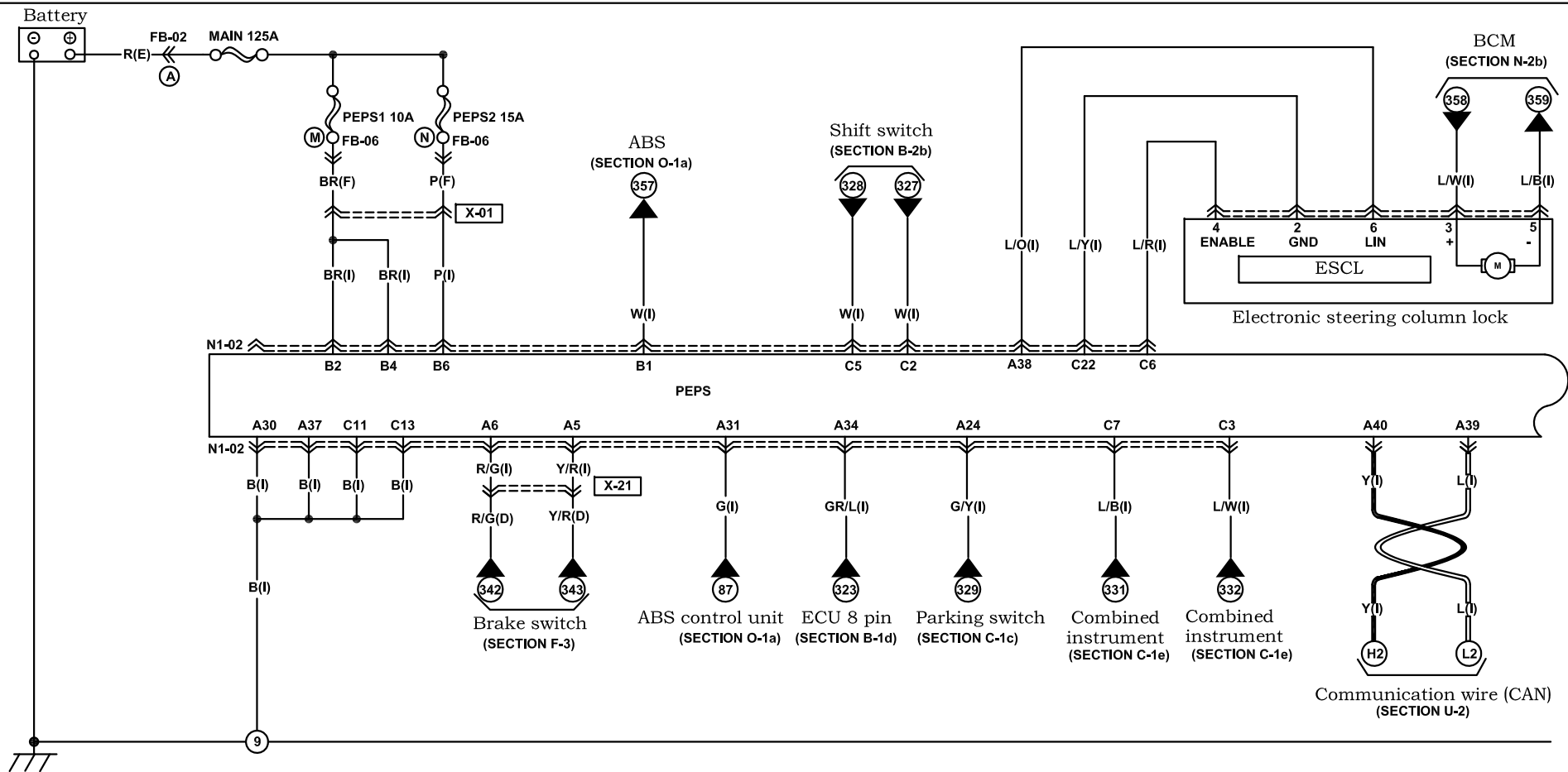




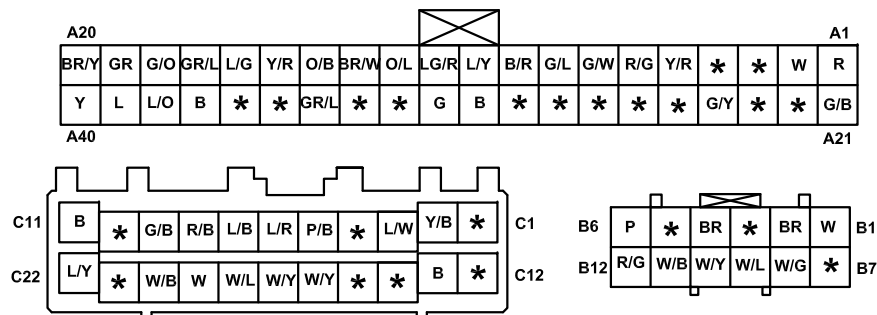
Harness mark:  (F)  (E)  (D)  (R)



## Smart key system (PEPS)

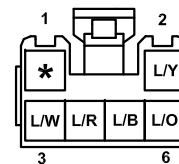




N1-02 PEPS controller (I)

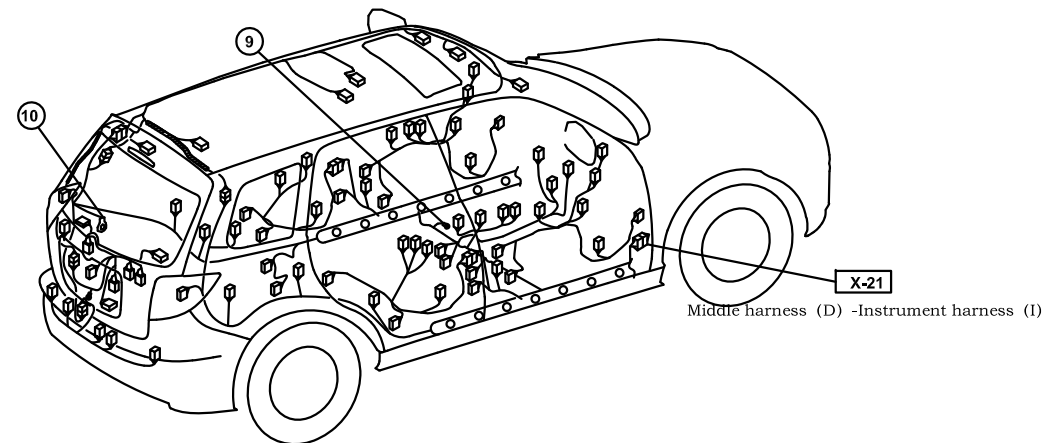
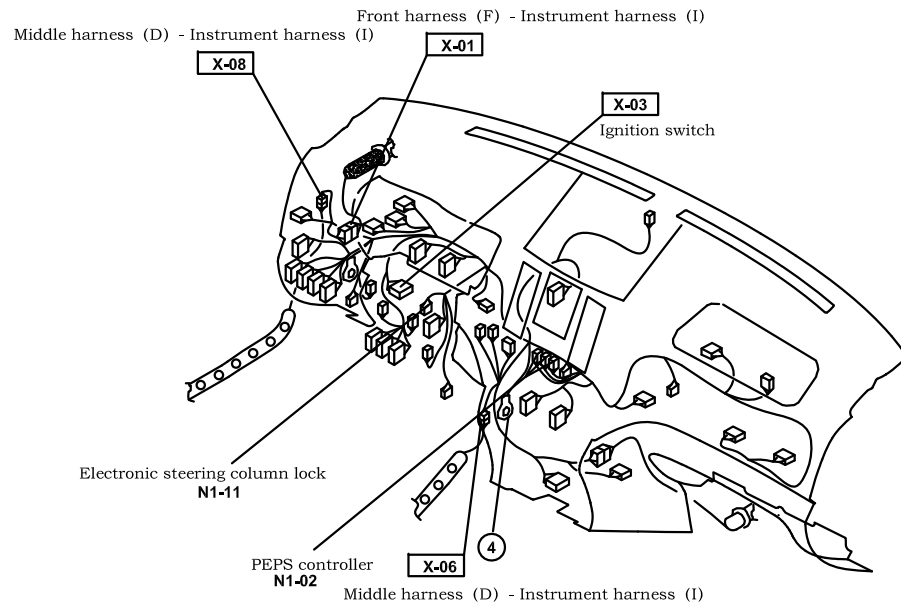


N1-11

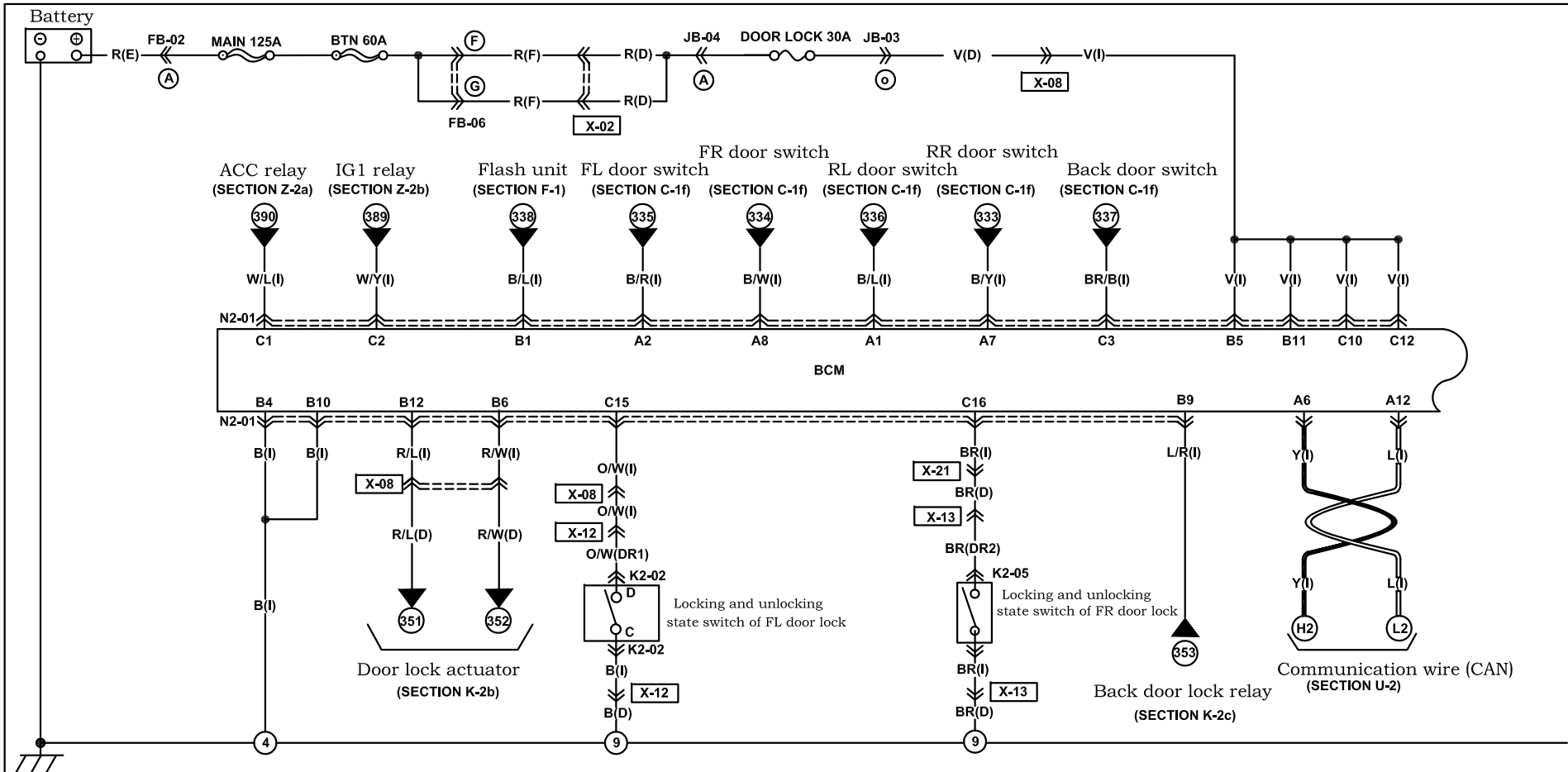
Electronic steering column lock (I)



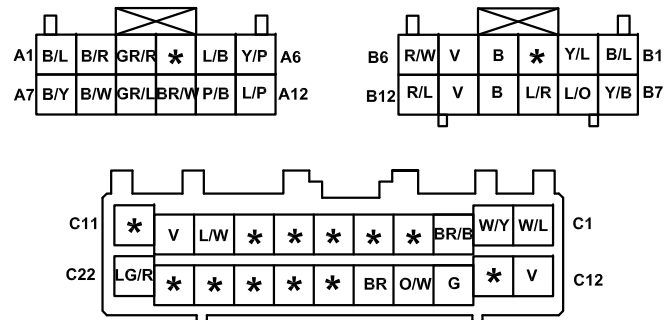
Harness mark:  (F)  (E)  (D)  (R)



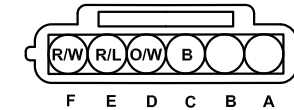
## Body control system (BCM)



N2-01 Body control system (BCM) (I)

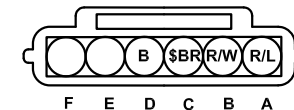


K2-02 FL door lock actuator (DR1)

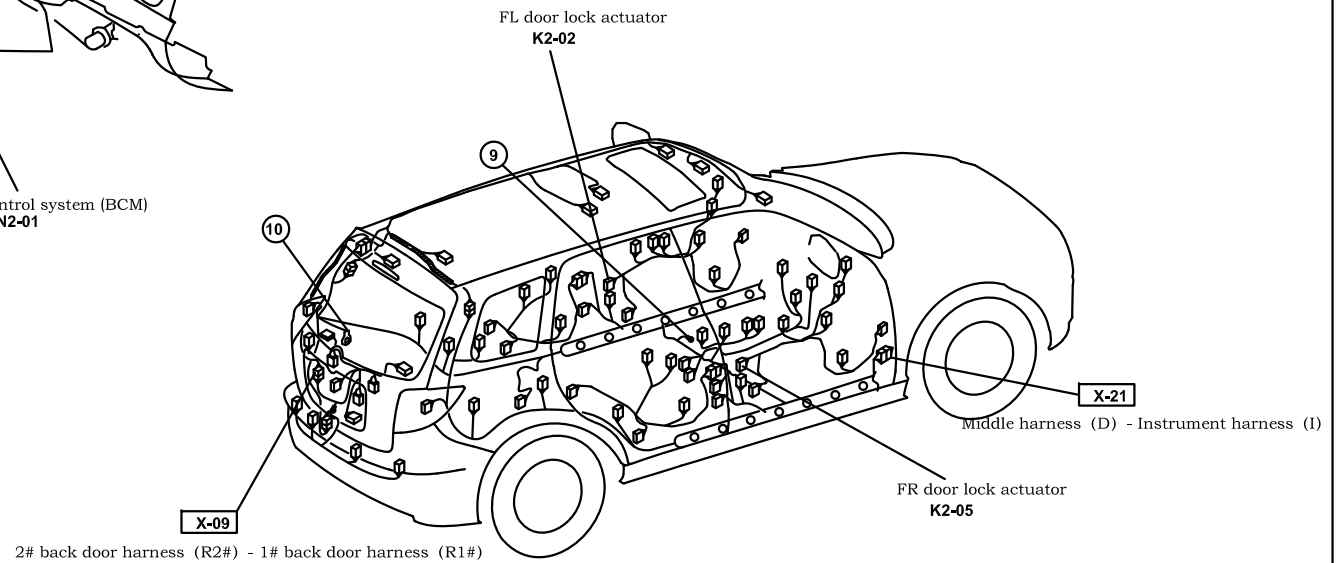
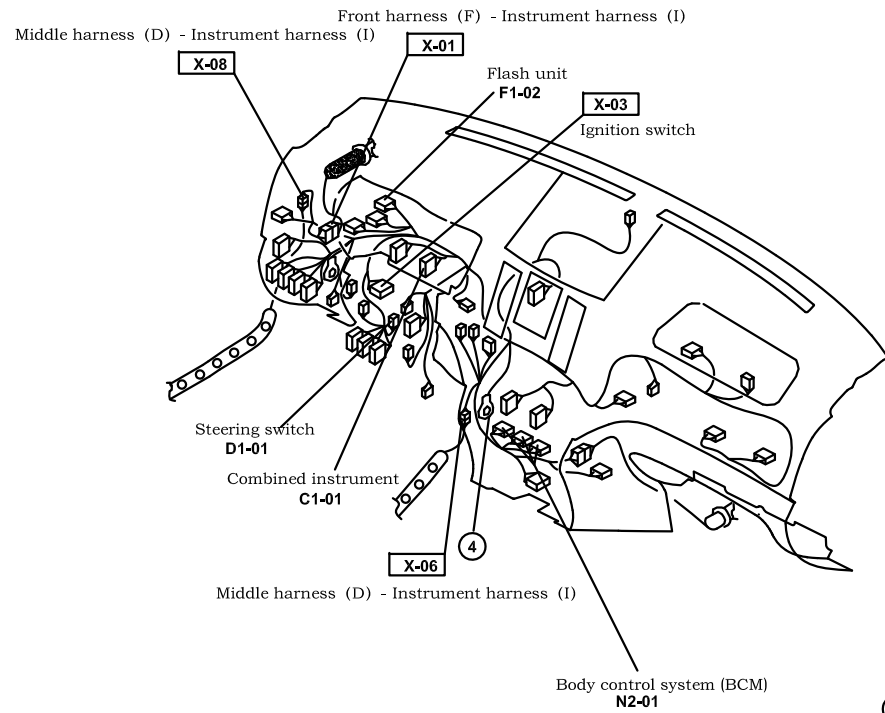


K2-05 FR door lock actuator (DR2)

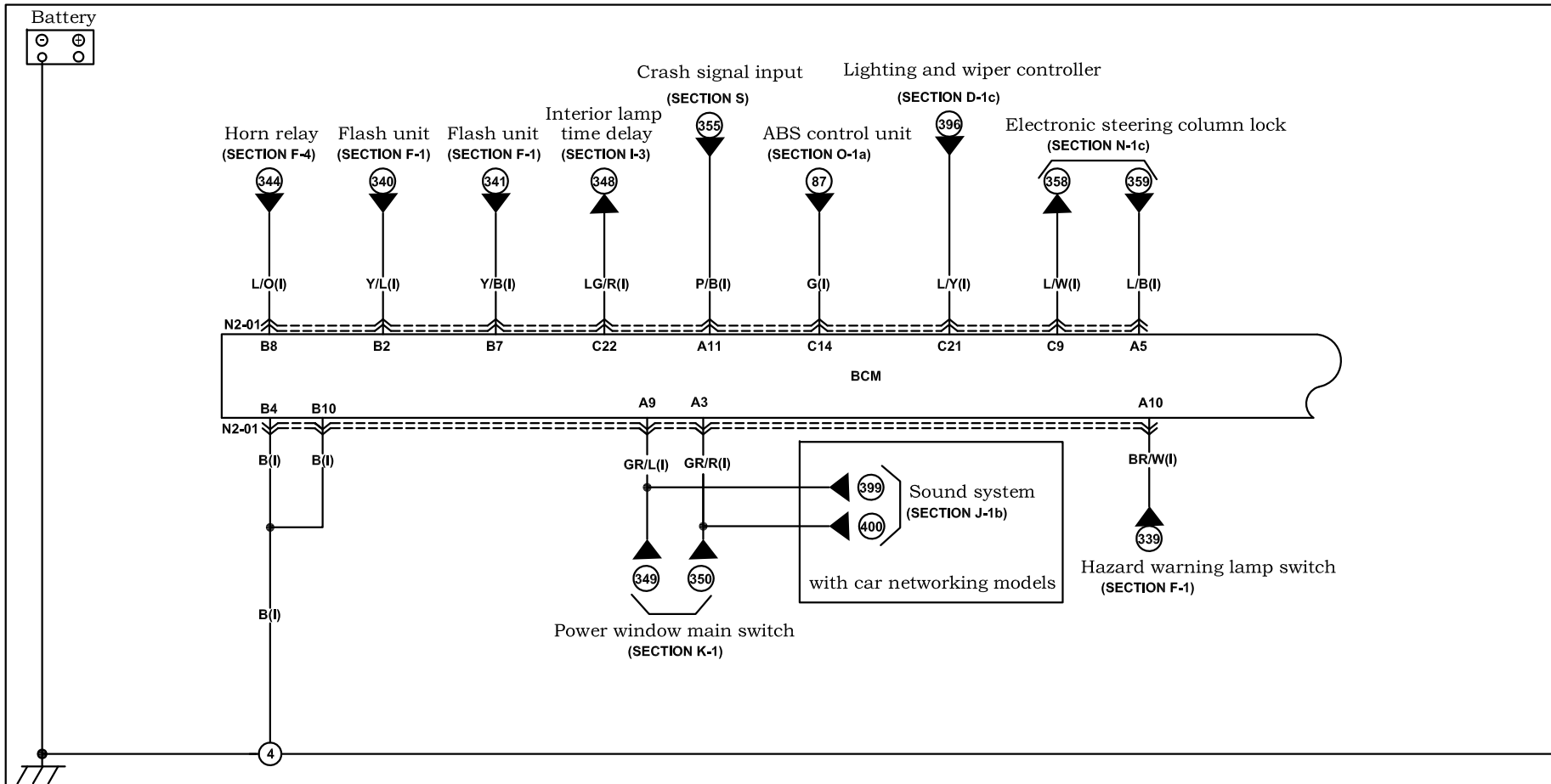
\$ with PEPS



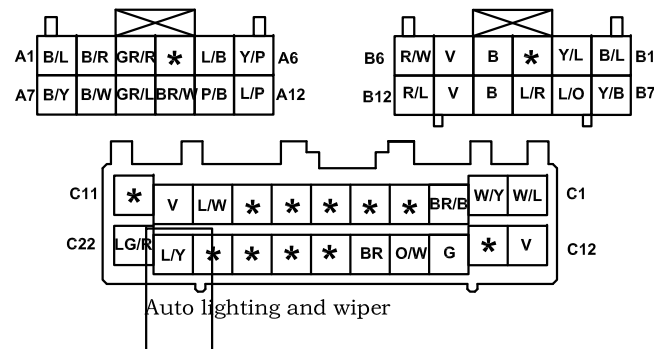
Harness mark:  (F)  (E)  (D)  (R)



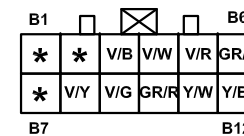
## Body control system (BCM)

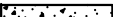





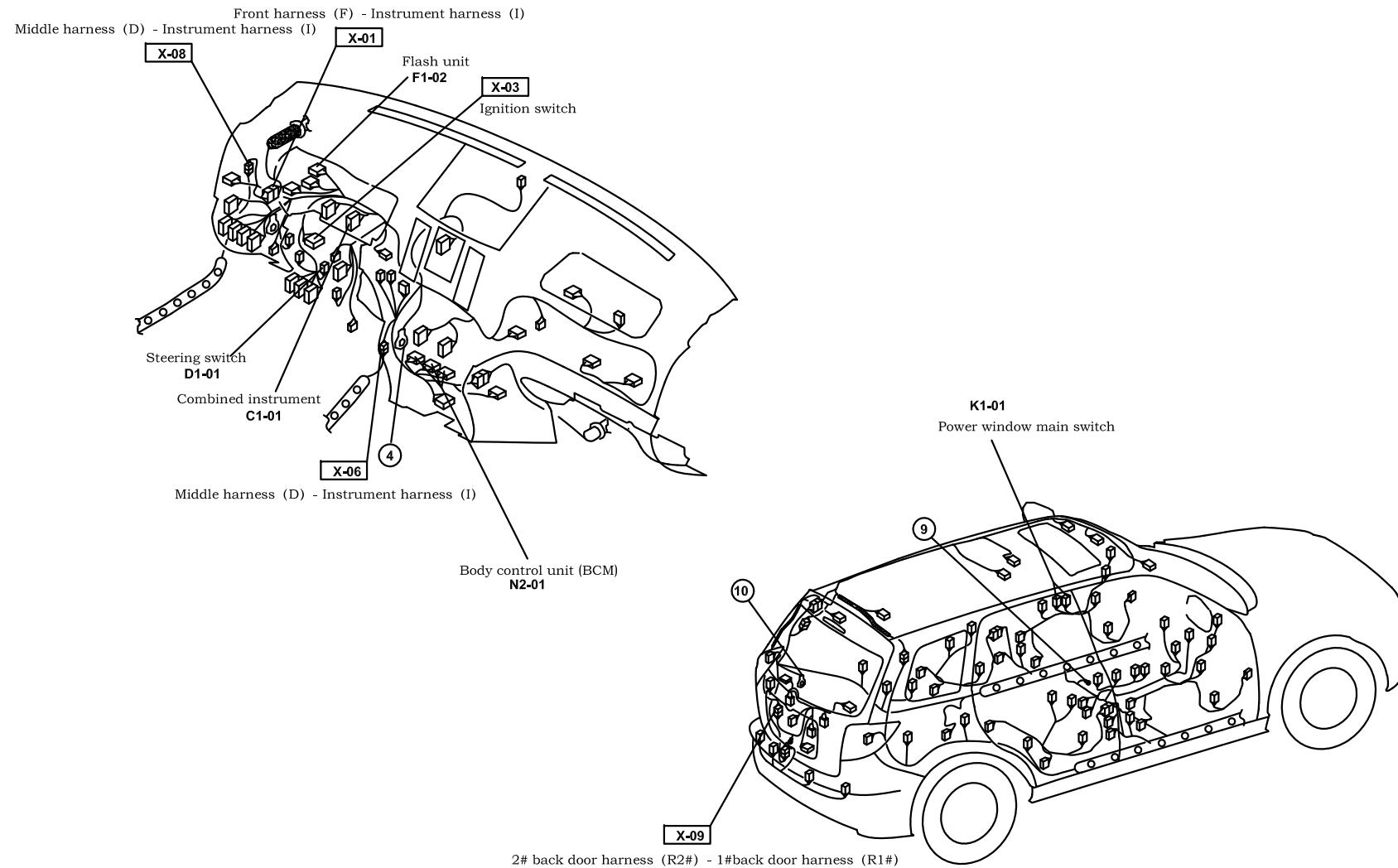
N2-01 Body control system (BCM)(I)



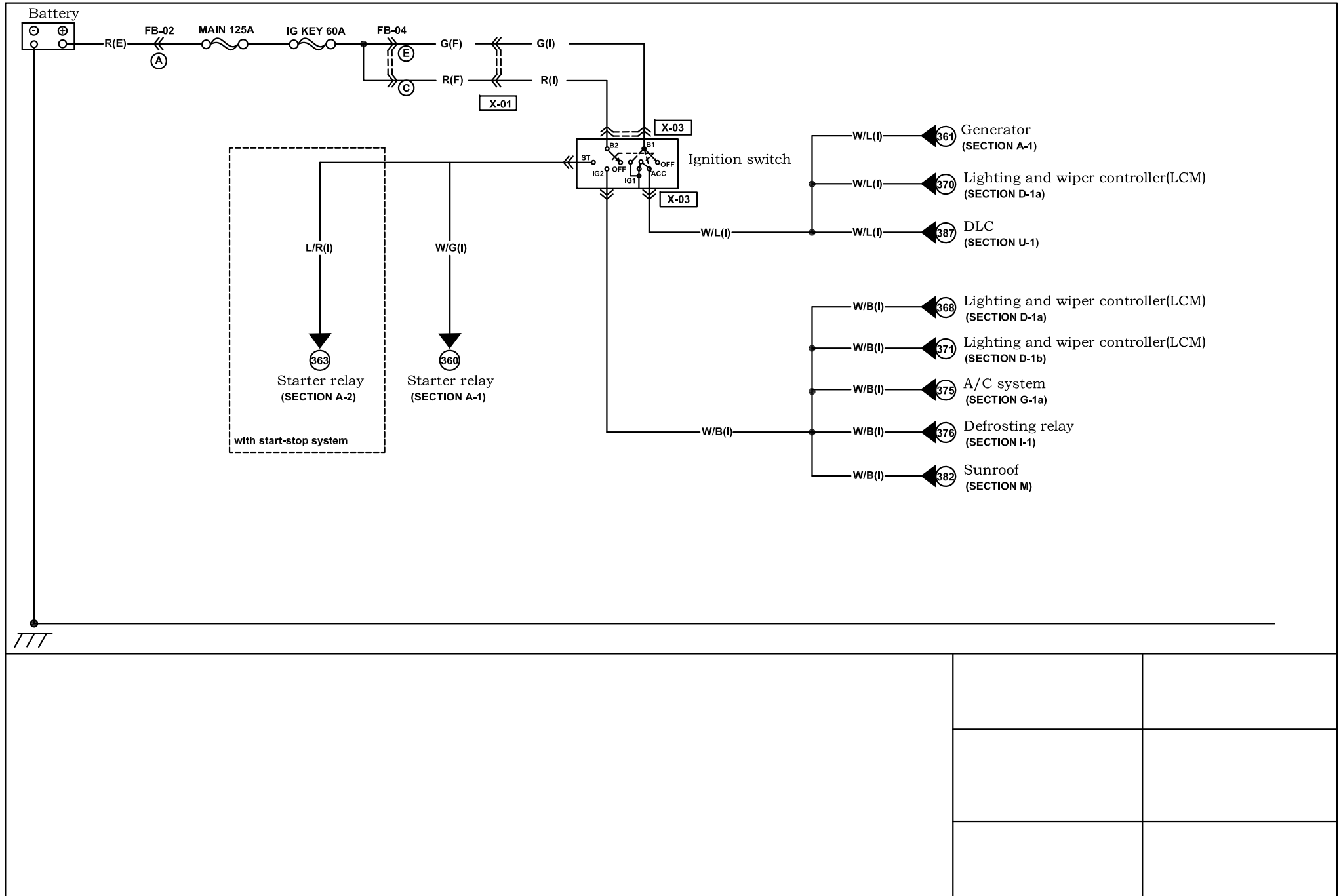
K1-01 Power window main switch (DR1)





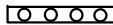
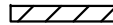
Harness mark:  (F)  (E)  (D)  (R)

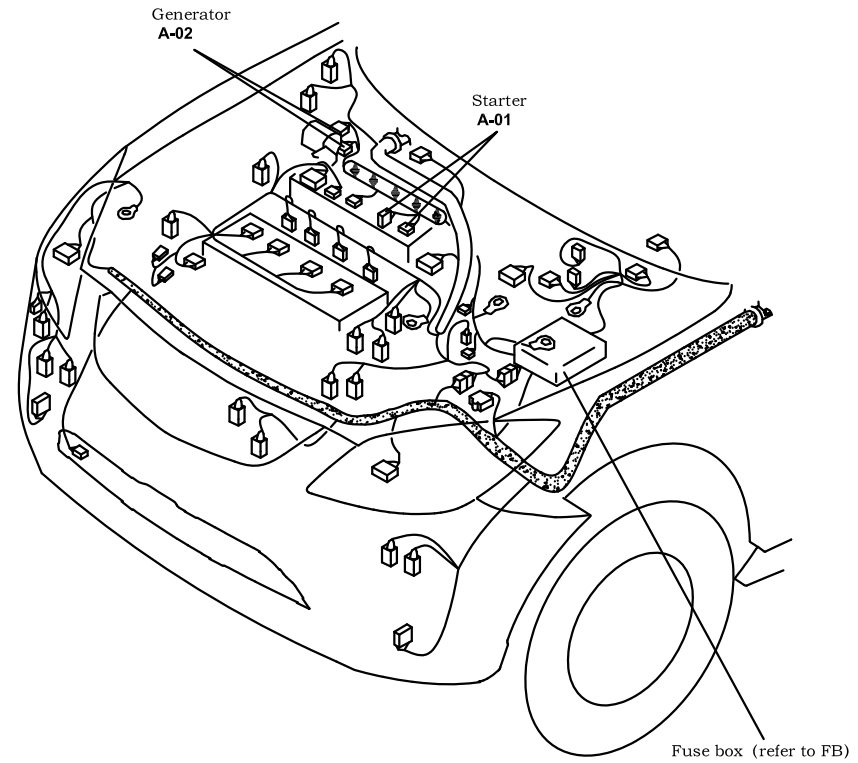
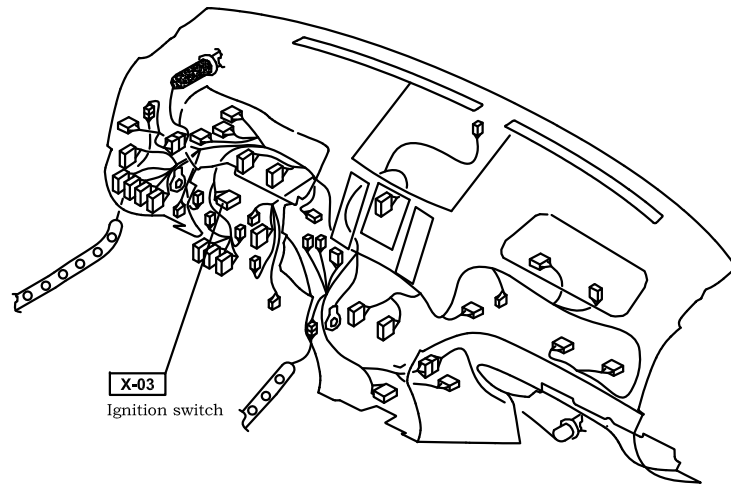


## Power supply system (without smart key)

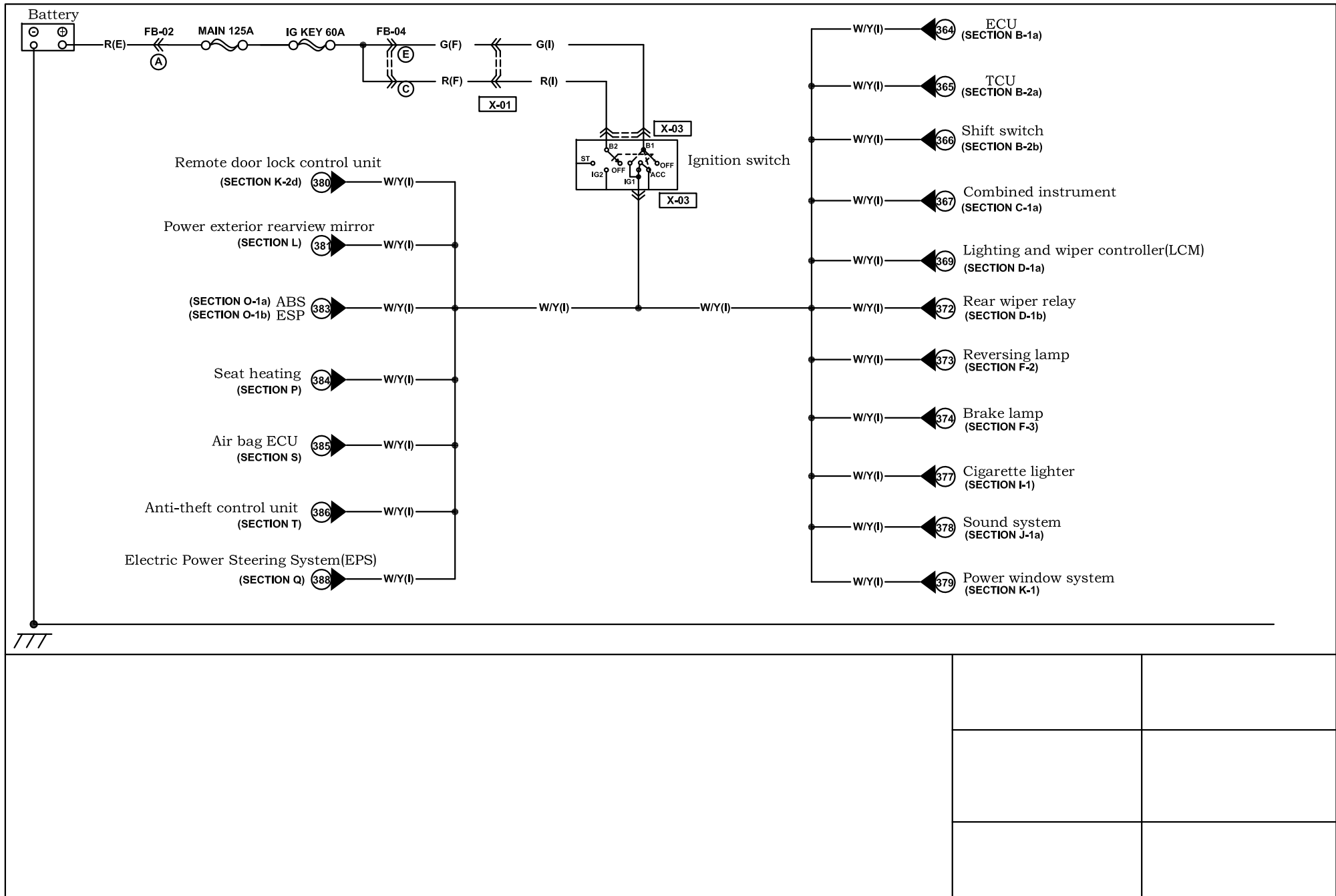




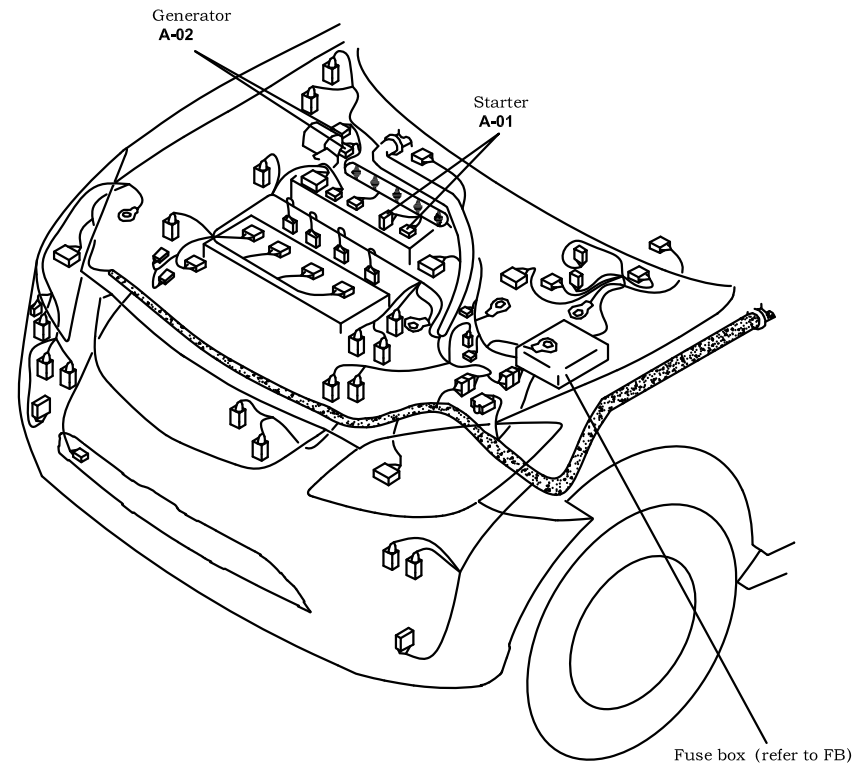
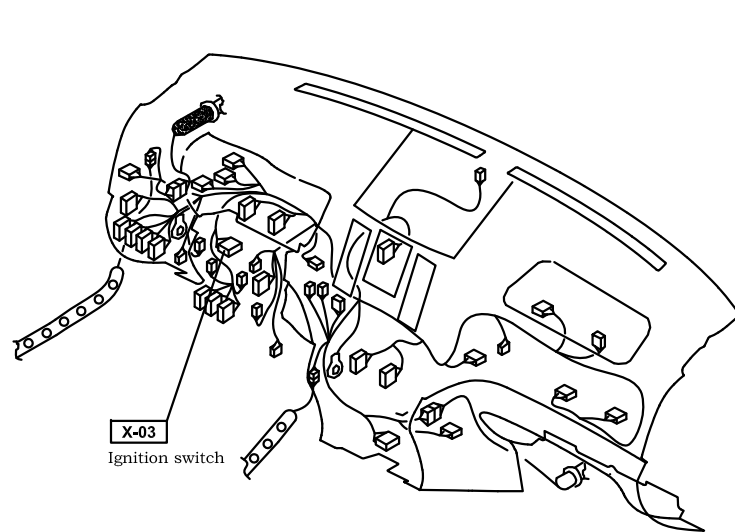
Harness mark:  (F)  (E)  (D)  (R)



## Power supply system (without smart key)



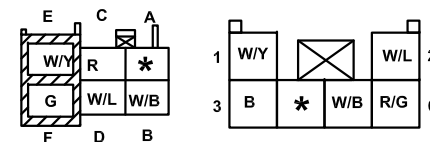
Harness mark:  (F)  (E)  (D)  (R)



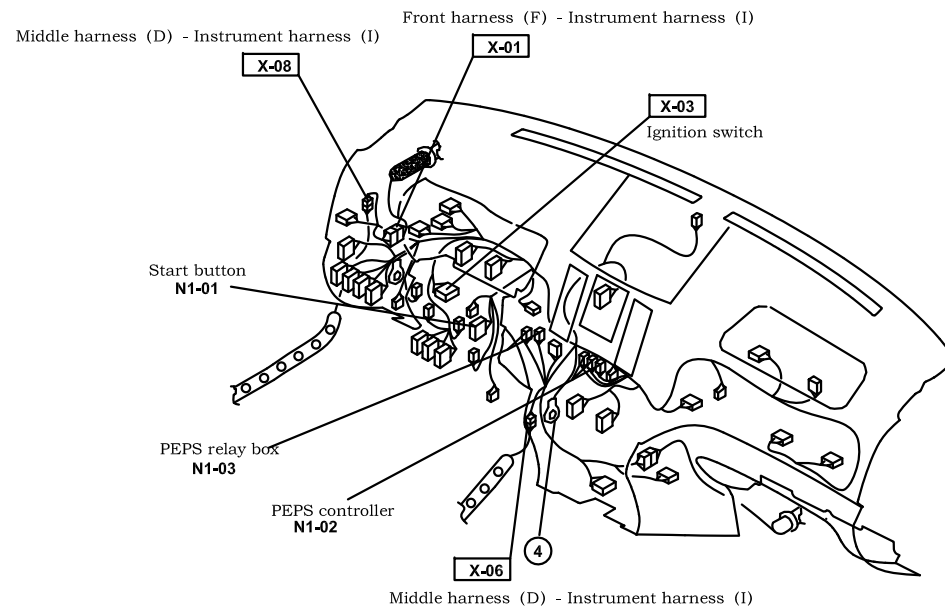
The diagram illustrates the electrical system for the PEPS (Power Entry Protection System) relay box. It shows the power source (Battery) and the main power supply (MAIN 125A) connected to the relay box through various components like fuses (FB-02, FB-04), switches (X-01), and relays (ACC, IG1a, IG1b, IG2, ST). The relay box is shown with terminals 1 through 6 and 2 through 6. The diagram is labeled with various components and their locations, such as SECTION A-1, SECTION D-1a, SECTION U-1, SECTION N-2a, SECTION D-1b, SECTION G-1a, SECTION I-1, and SECTION M.

**Components and Connections:**

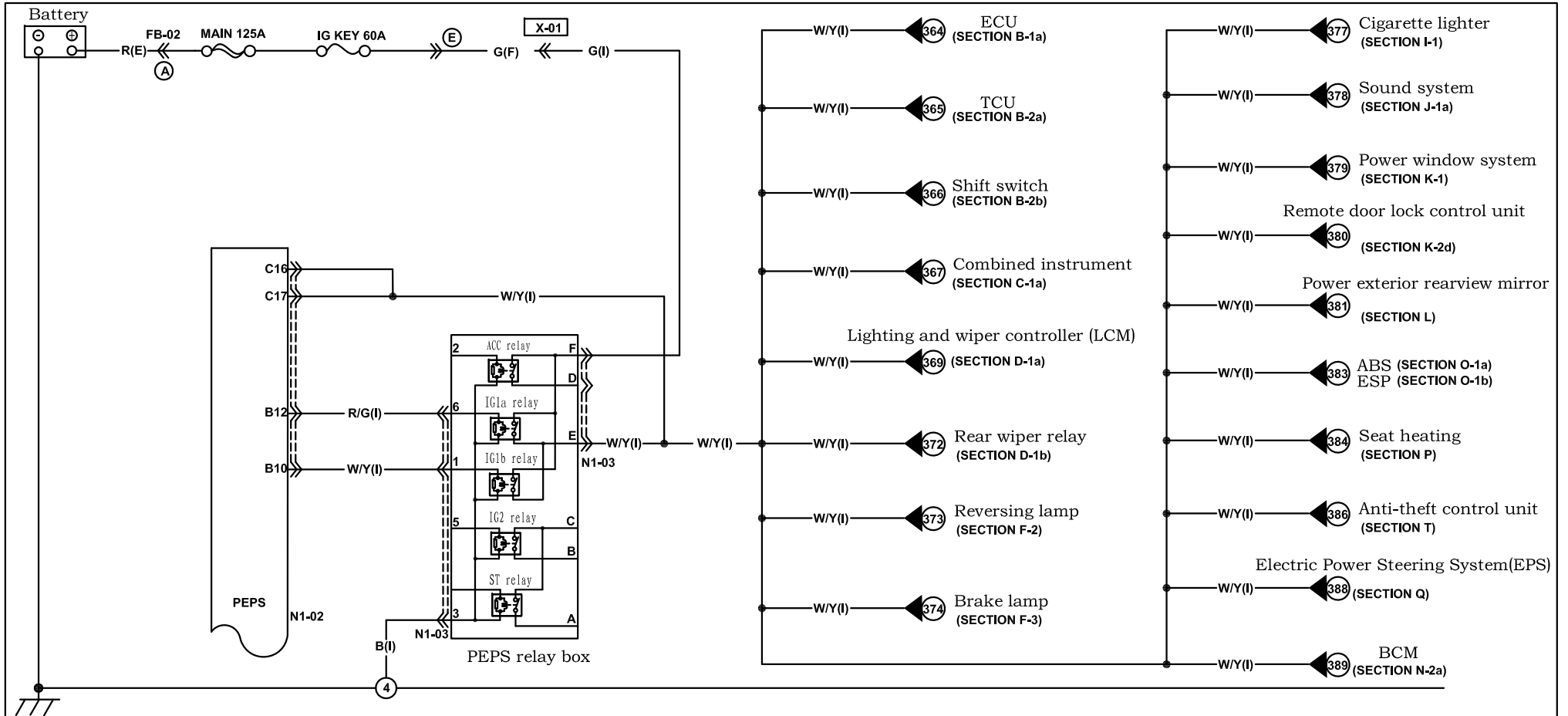
- Battery:** Connected to the main power supply (MAIN 125A) through a fuse (FB-02) and a switch (X-01).
- MAIN 125A:** Connected to the relay box through a fuse (FB-04) and a switch (X-01).
- IG KEY 60A:** Connected to the relay box through a switch (X-01).
- Relays:** ACC relay, IG1a relay, IG1b relay, IG2 relay, ST relay.
- Switches:** X-01.
- Wiring:** W/L(I), W/B(I), R(E), R(F), G(I), R(I).
- PEPS relay box:** Contains terminals 1 through 6 and 2 through 6.
- Other components:** Generator (SECTION A-1), Lighting and wiper controller (LCM) (SECTION D-1a), DLC (SECTION U-1), BCM (SECTION N-2a), Lighting and wiper controller (LCM) (SECTION D-1a), Lighting and wiper controller (LCM) (SECTION D-1b), A/C system (SECTION G-1a), Defrosting relay (SECTION I-1), Sunroof (SECTION M).



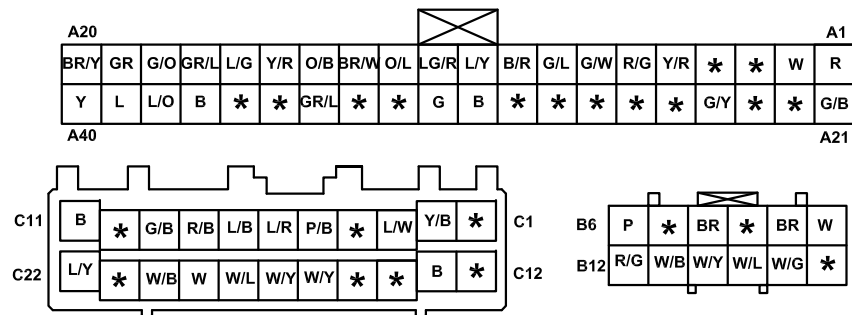
Harness mark:  (F)  (E)  (D)  (R)



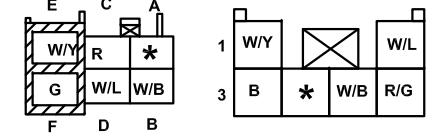
## Power supply system (with smart key)




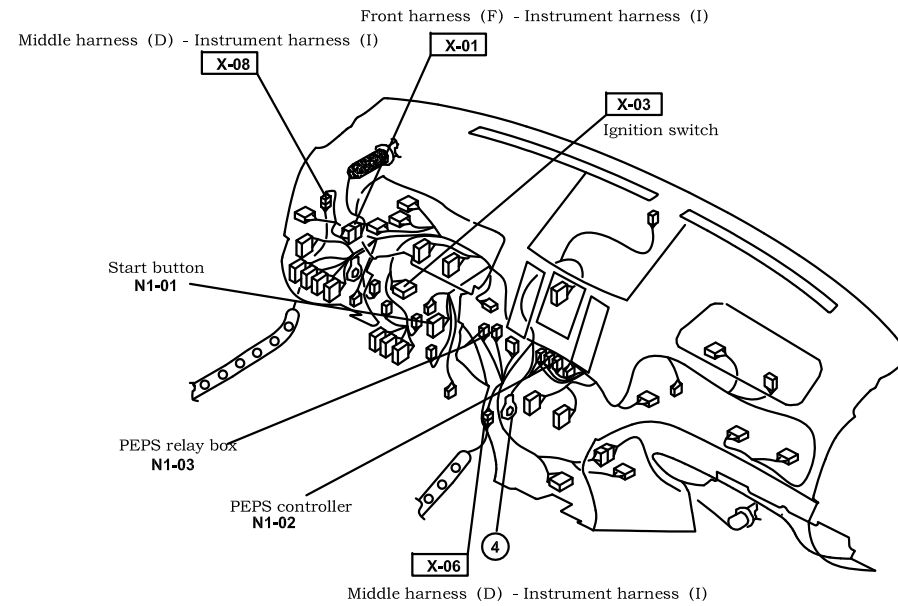
N1-02 PEPS controller (I)



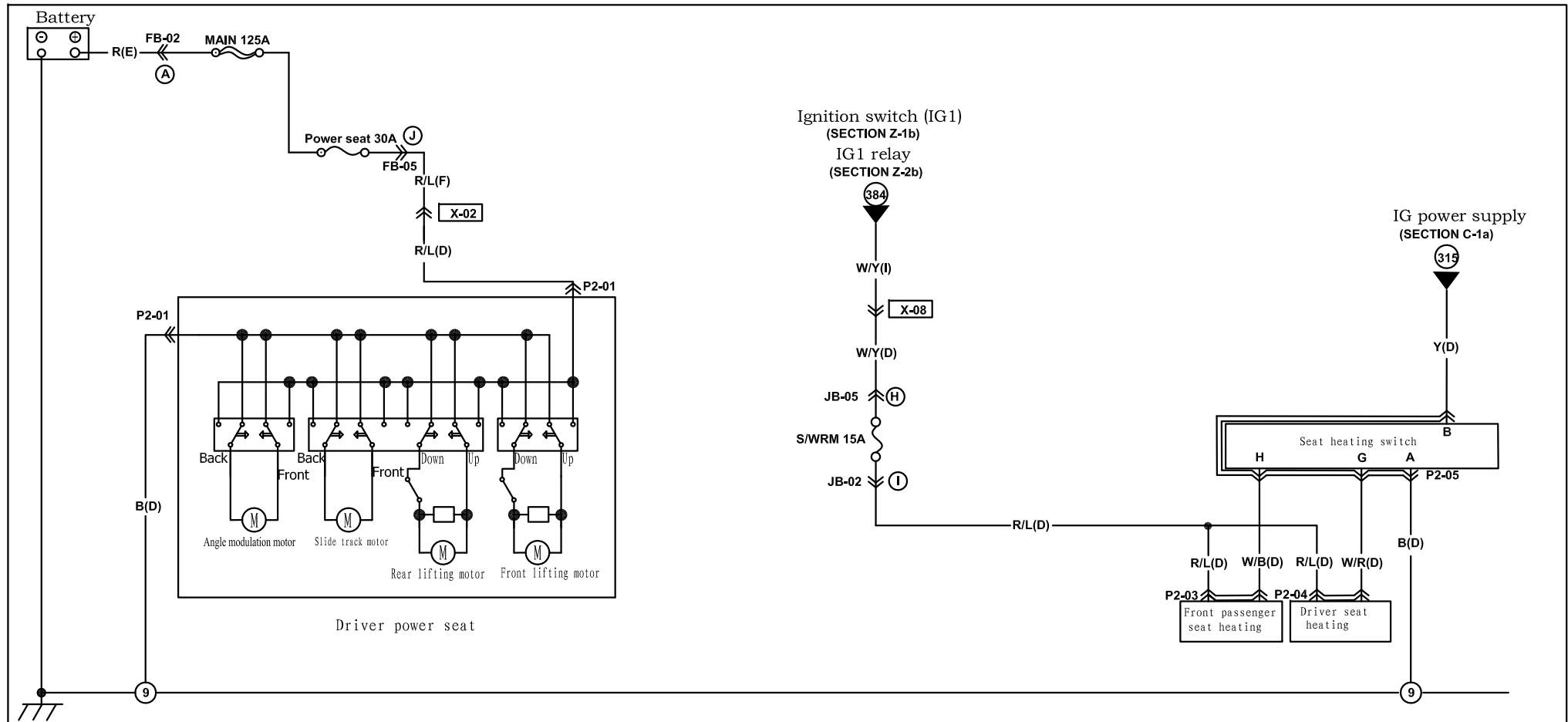
N1-03 PEPS relay box (I)



Harness mark:  (F)  (E)  (D)  (R)



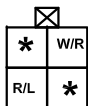
# Power seat and seat heating



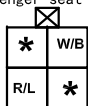
P2-01 Driver power seat (D)



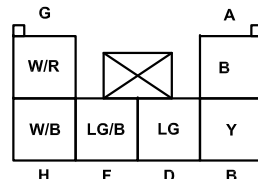
P2-03 Driver seat heating (D)




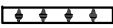

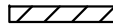
P2-04 Front passenger seat heating (D)

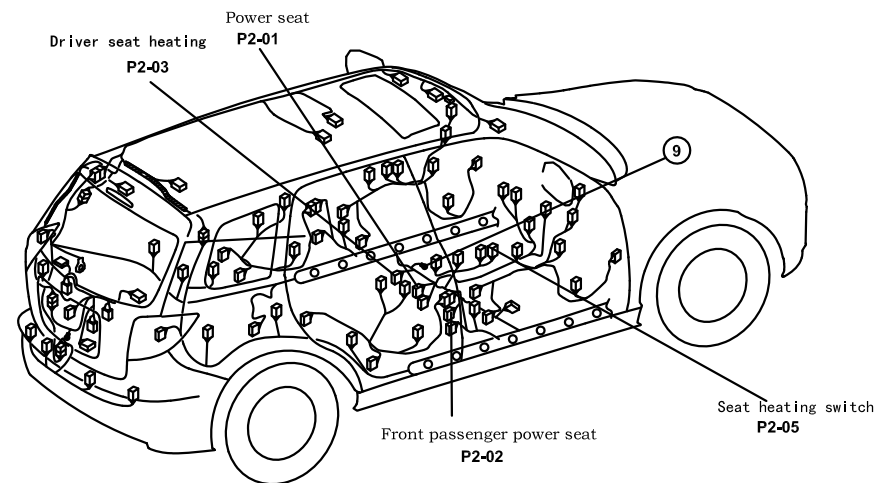
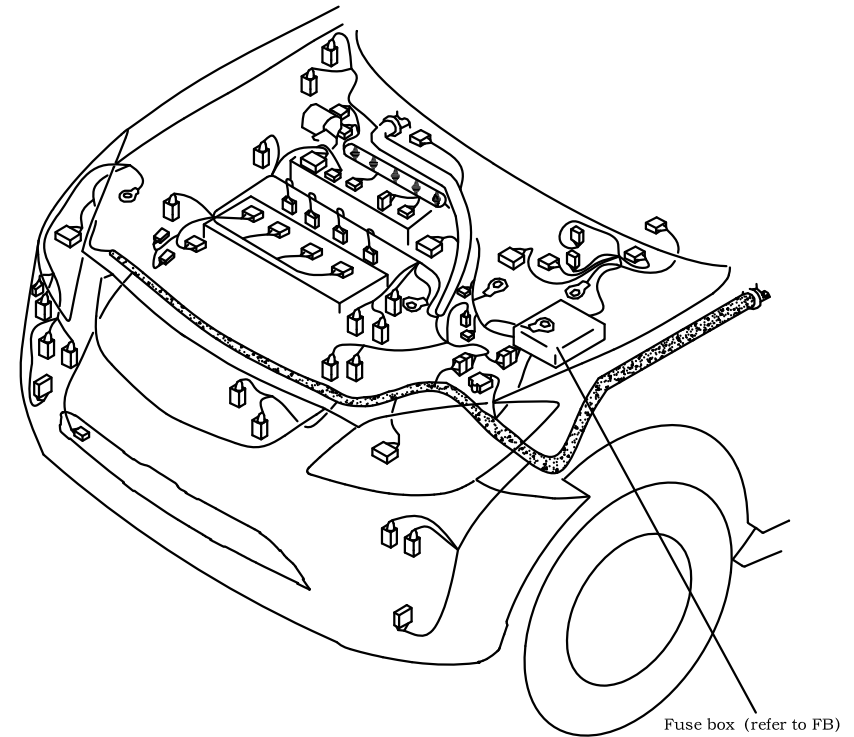
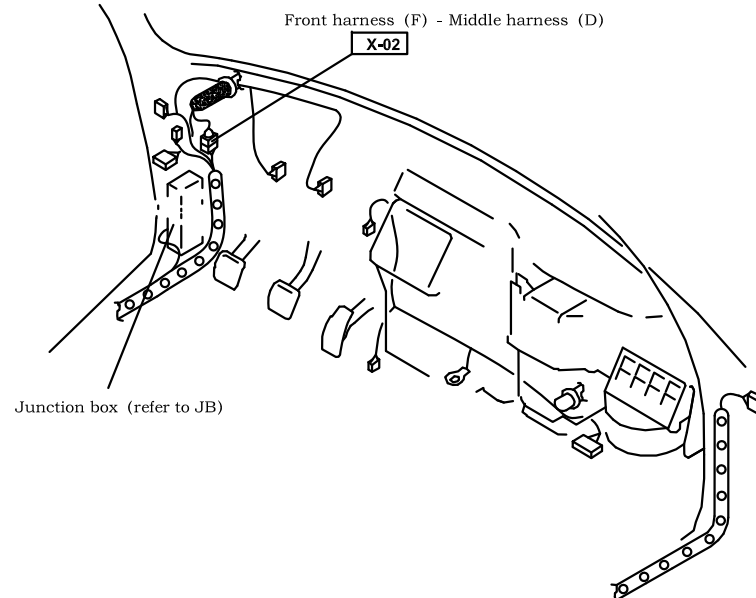


P2-05 Seat heating switch (D)





Harness mark:  (F)  (E)  (D)  (R)

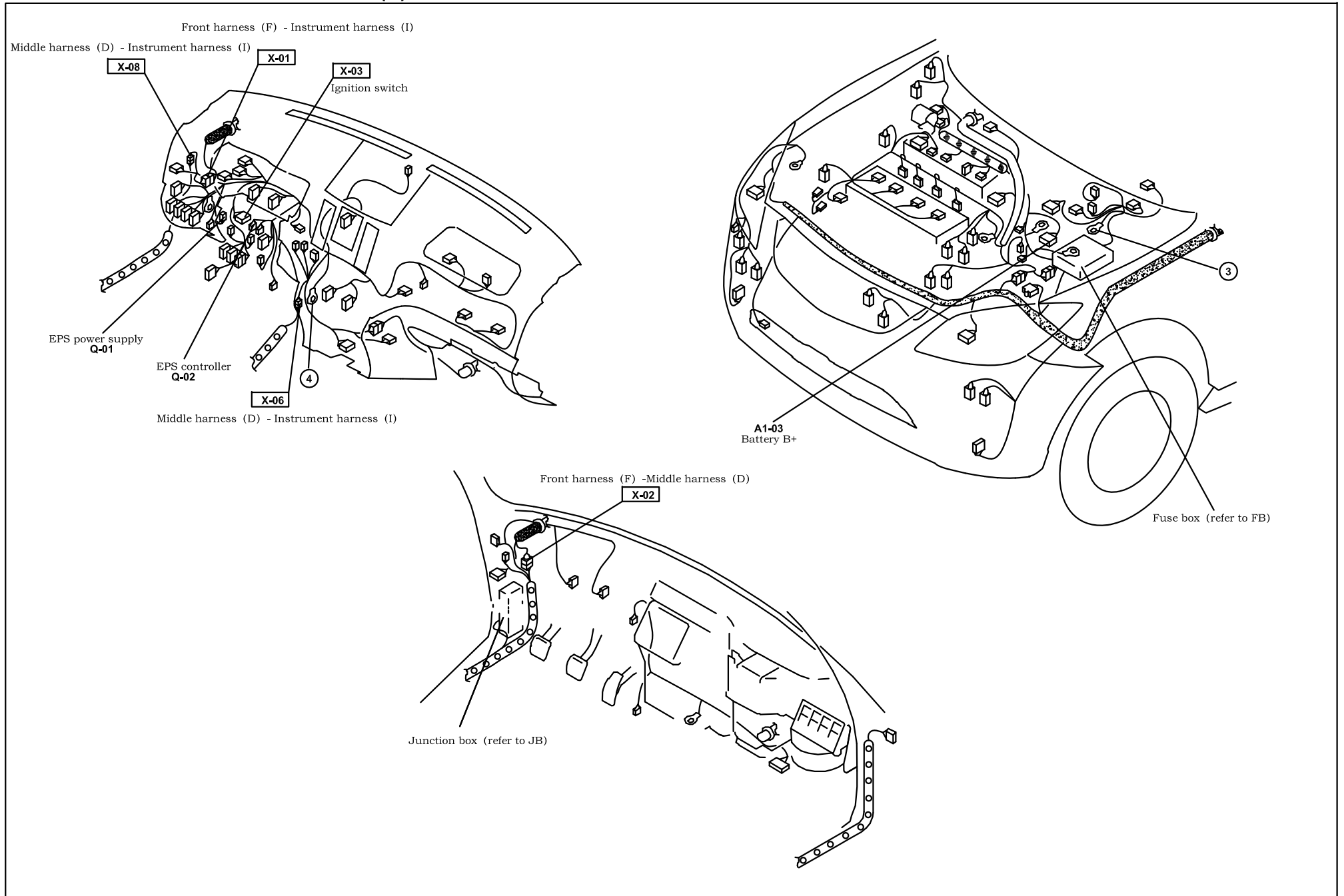


The diagram illustrates the wiring for an electric power steering (EPS) system. Key components and their connections are as follows:

- Battery:** Provides power to the system. A main ground connection is labeled 15.
- EPS 80A:** A fuse protecting the power line from the battery.
- Ignition switch (IG1) and IG1 relay:** Control the power flow to the EPS unit. The relay is labeled 388.
- Communication wire (CAN):** Labeled L1, H1, L/O(I), and B/G(I), it connects the EPS unit to the vehicle's CAN network.
- Electric power steering control unit (EPS):** The central control unit, featuring terminals A, B, C, and D. It receives power from the battery and ignition switch, and manages the motor and sensors.
- Sensors:**
  - Resolver sensor:** Outputs six signals: COS+, COS-, SIN+, SIN-, Exciter+, and Exciter-.
  - Torque sensor:** Outputs four signals: TSS, TSM, TSV, and TSE.
- EPS motor:** A three-phase motor connected to the EPS unit via U, V, and W lines.

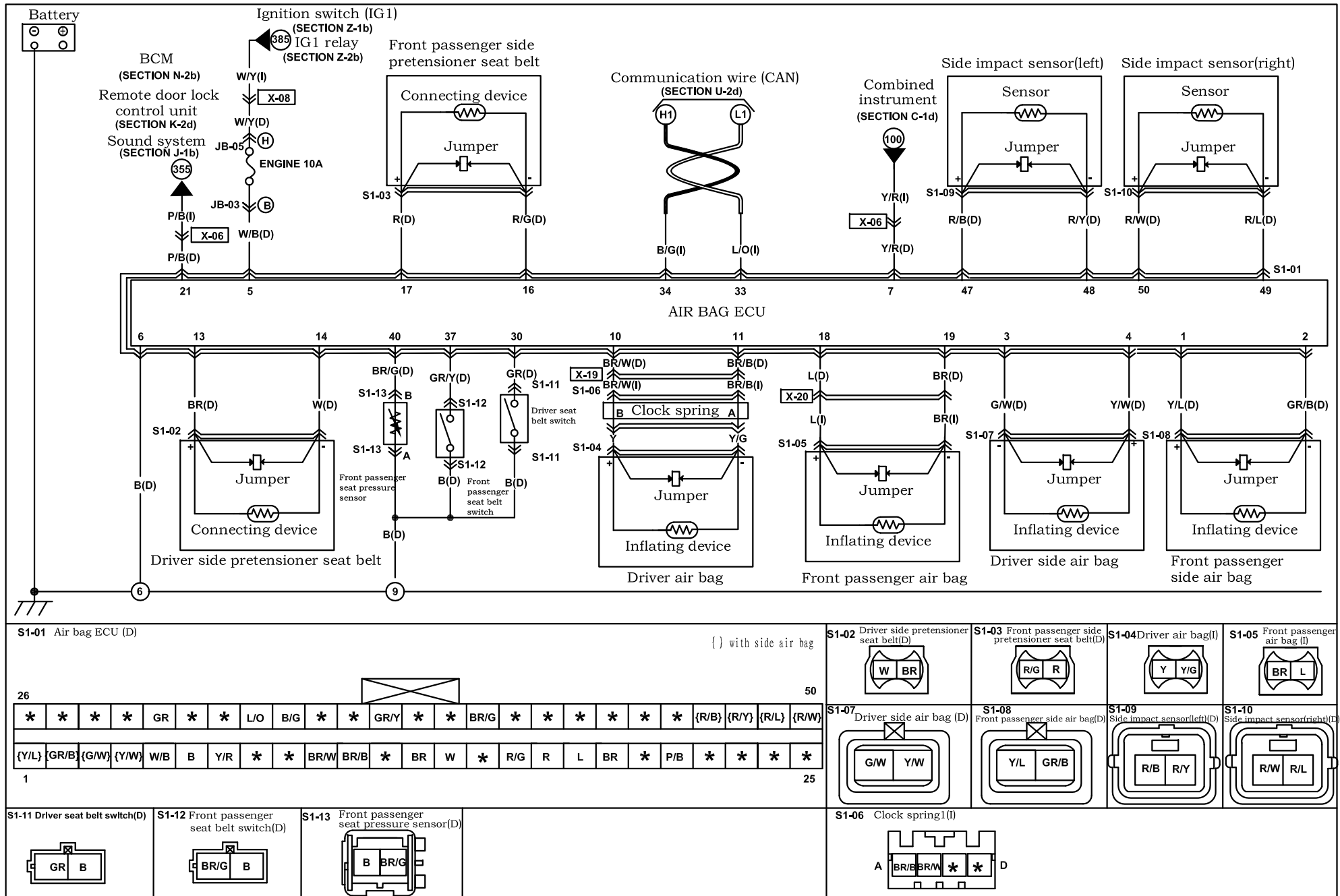
<input type="checkbox"/> F	<input type="checkbox"/> E	<input type="checkbox"/> D	<input type="checkbox"/> C	<input type="checkbox"/> B	<input type="checkbox"/> A
*	*	B/G	L/O	*	W/B


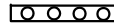

Harness mark:  (F)  (E)  (D)  (R)

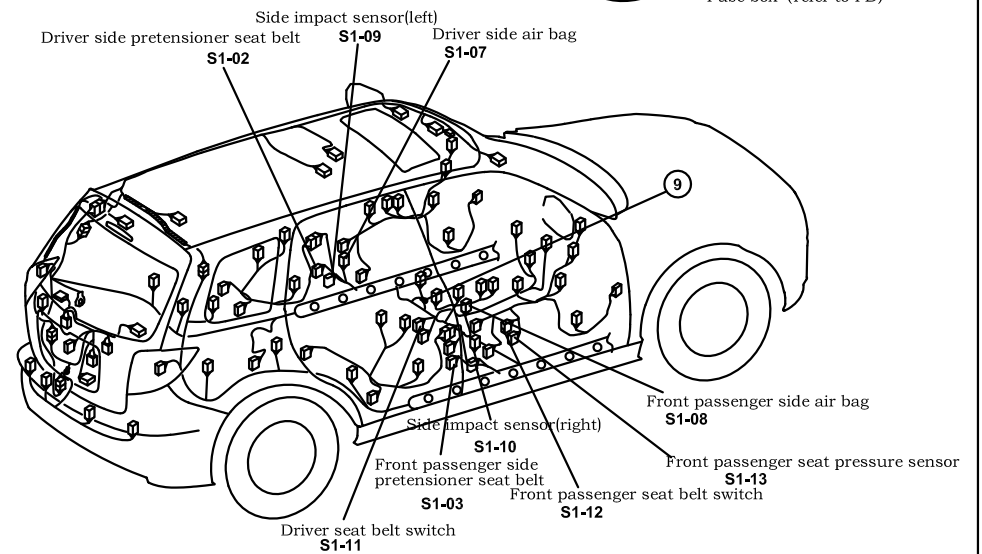
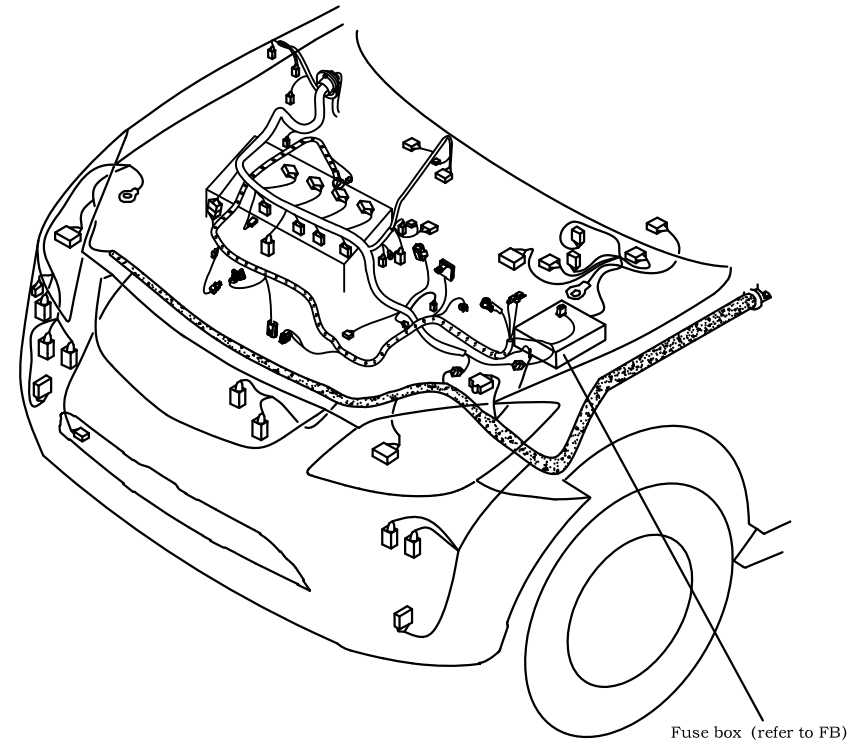
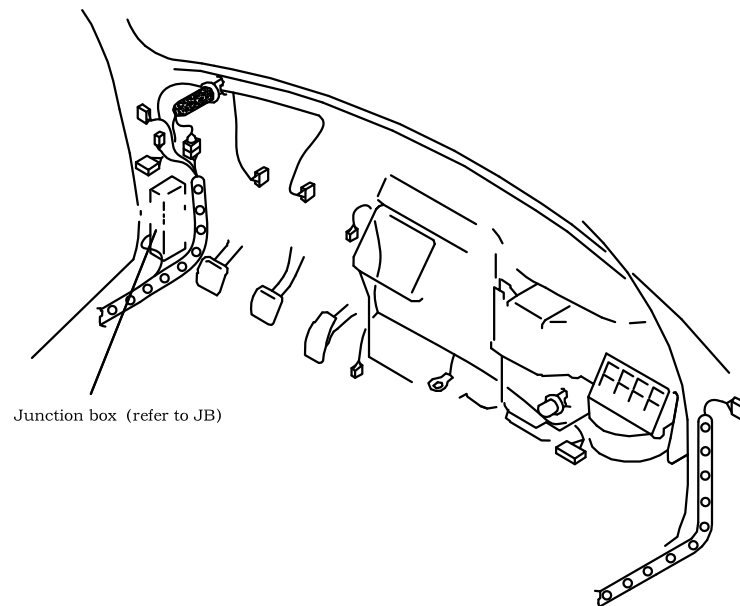
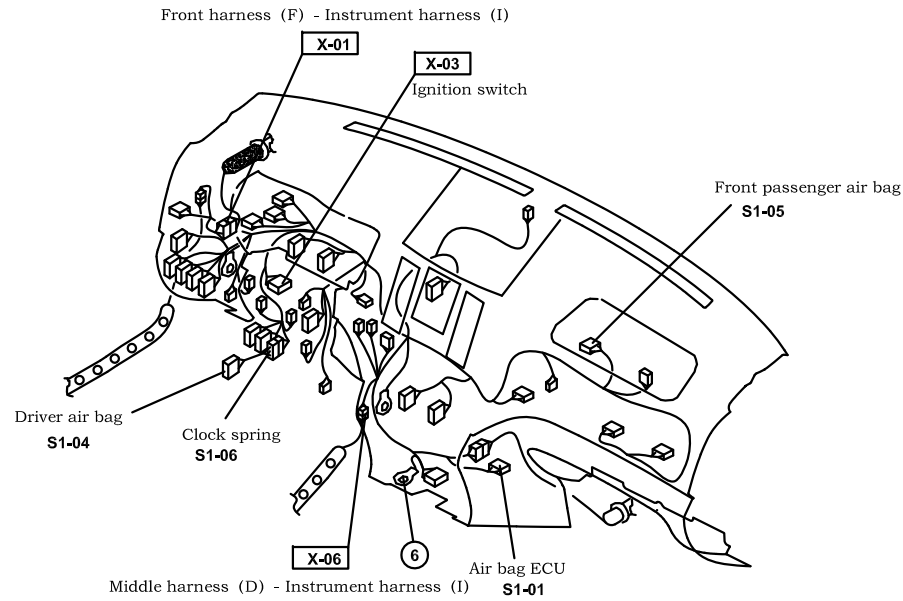


## Air bag /Seat belt pretensioner system (1.8T)

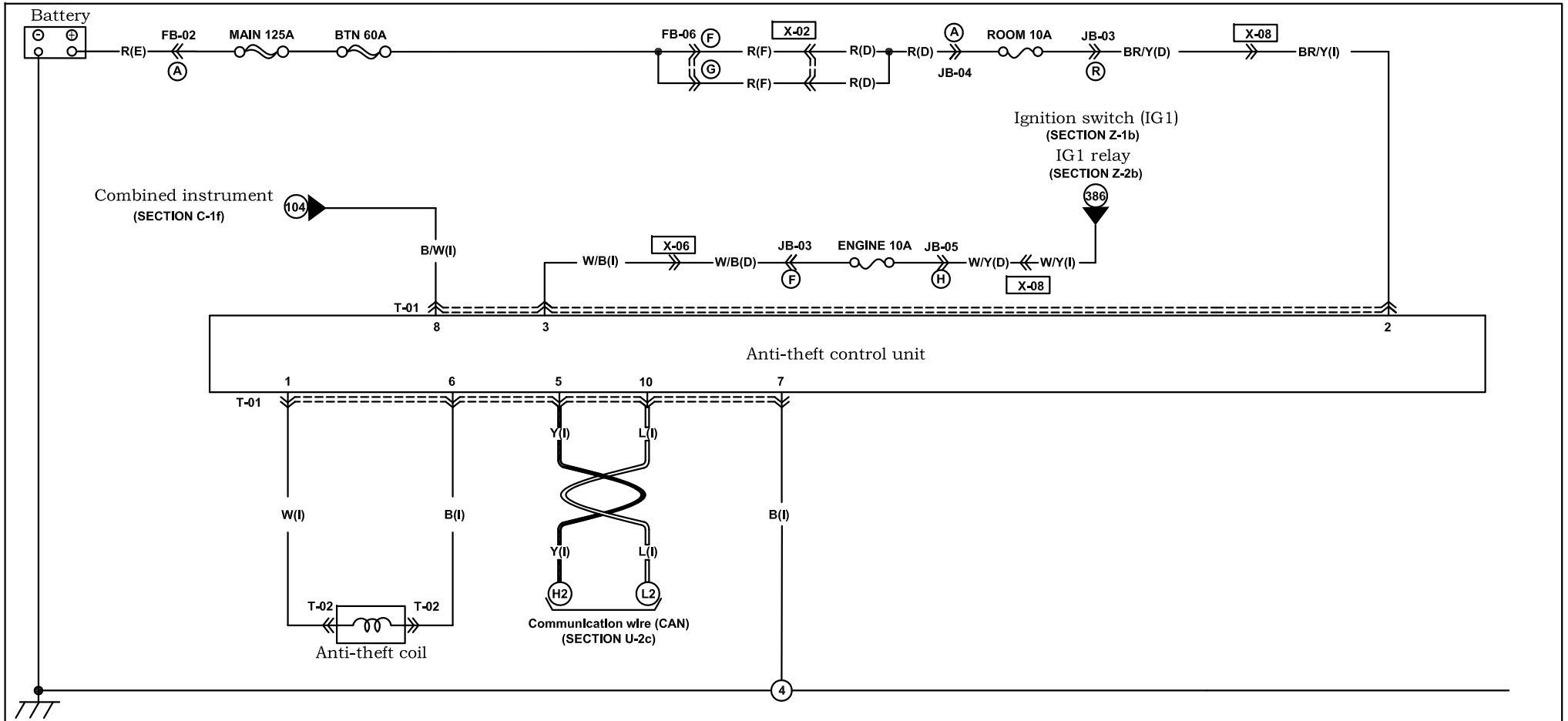
S-1



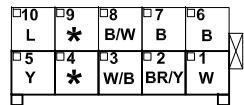
Harness mark:  (F)  (E)  (D)  (R)



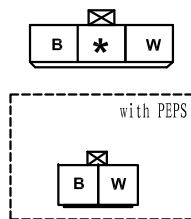
# Anti-theft system (1.8T)



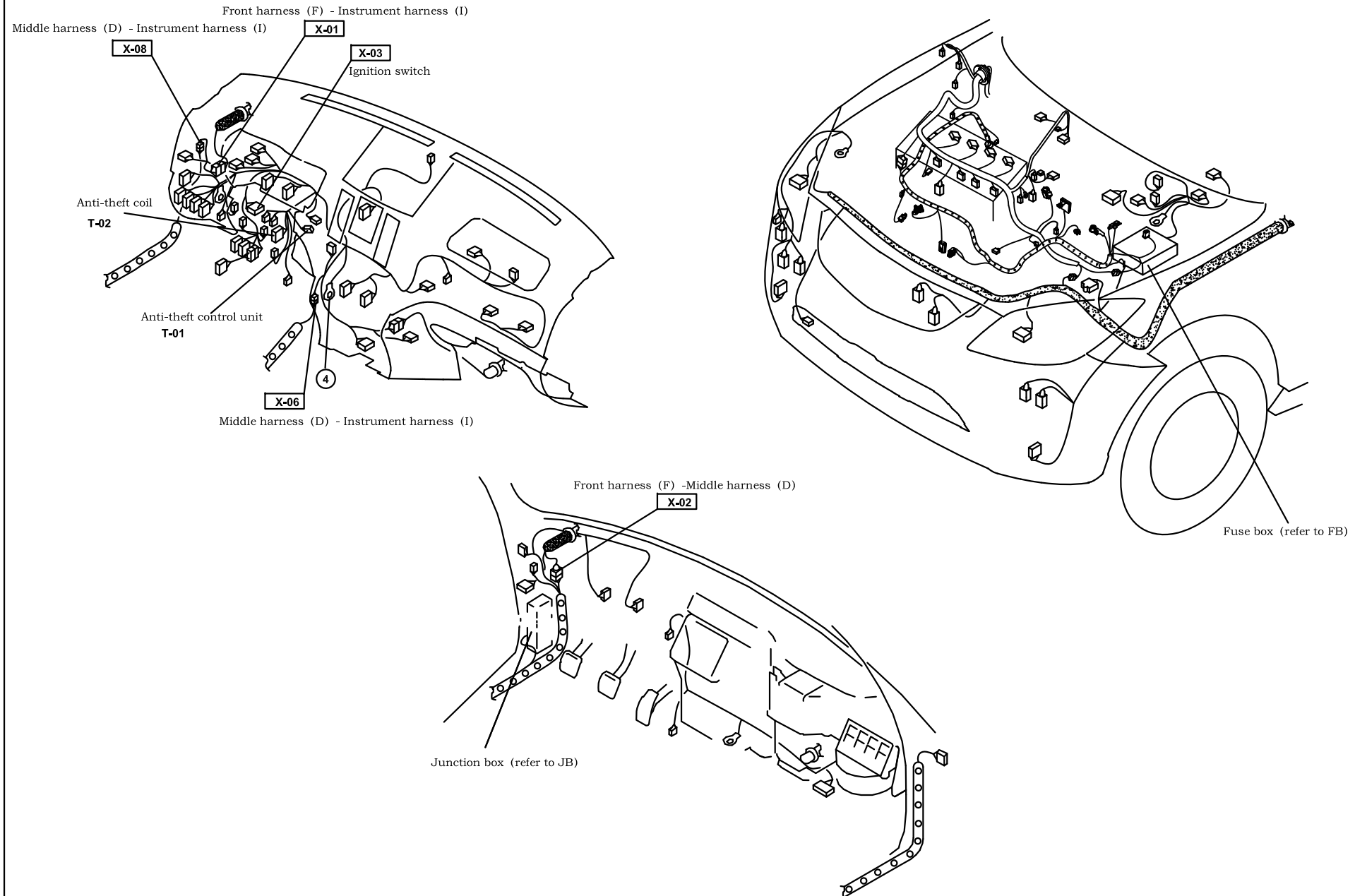
T-01 Anti-theft control unit (I)



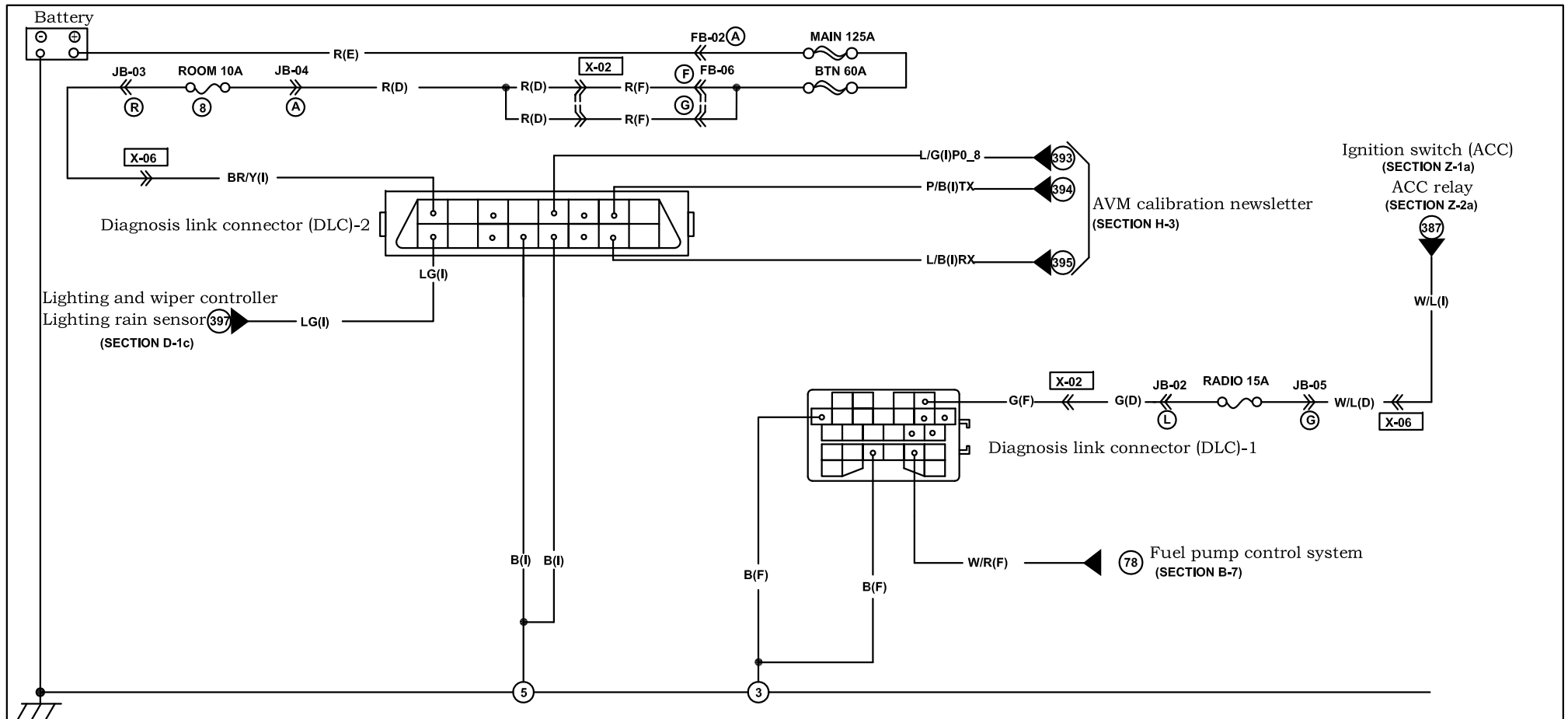
T-02 Anti-theft coil (I)



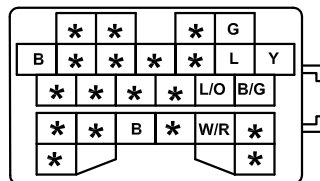
Harness mark:  (F)  (E)  (D)  (R)



## Diagnosis link connector (DLC)(1.8T)

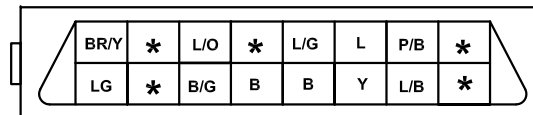


U-01 Diagnosis link connector (DLC)-1 (EM)



Note: view from the harness terminal

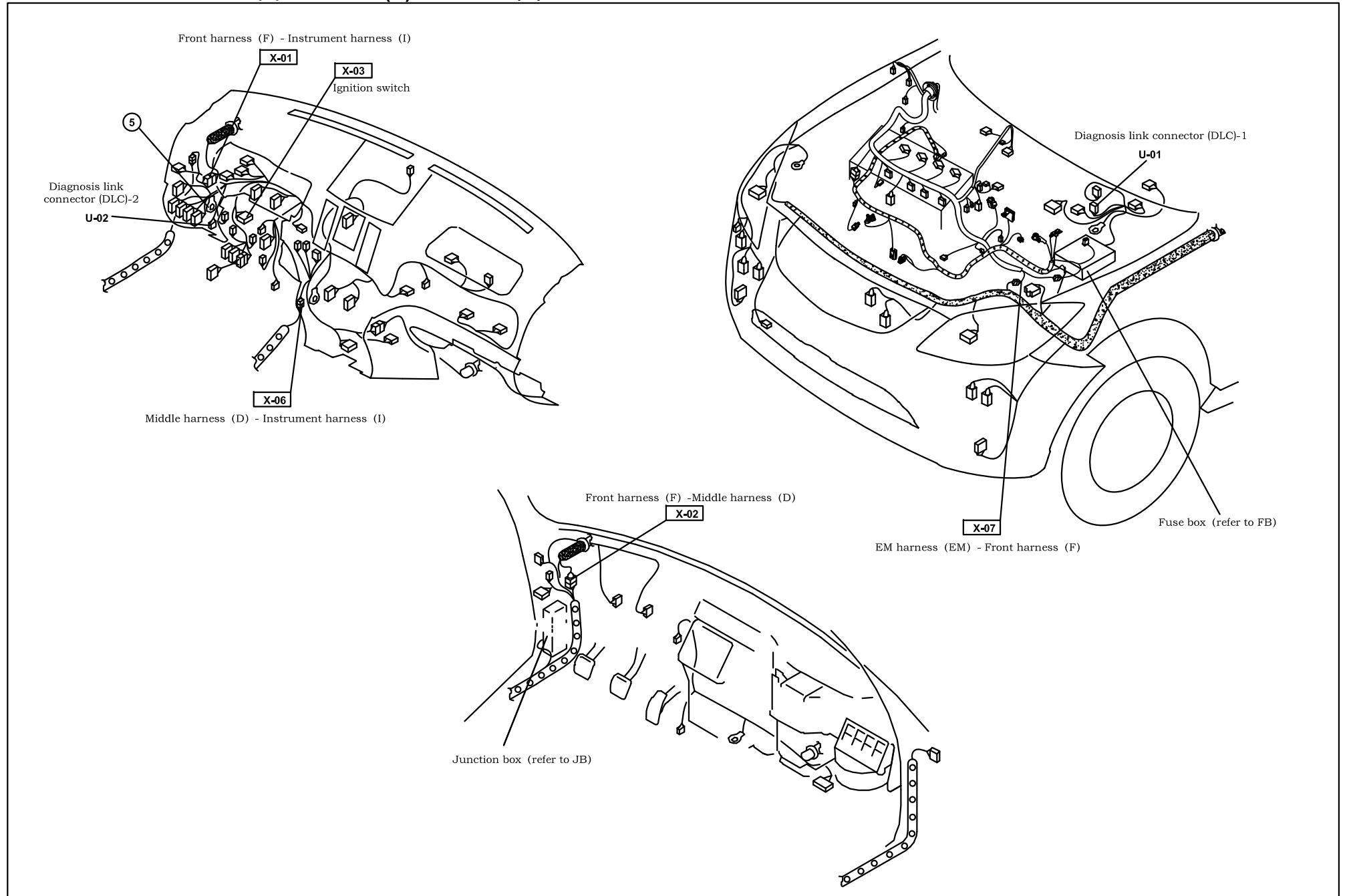
U-02 Diagnosis link connector (DLC)-2(I)



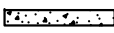
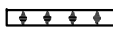
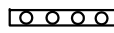
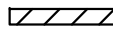
Note: view from the harness terminal

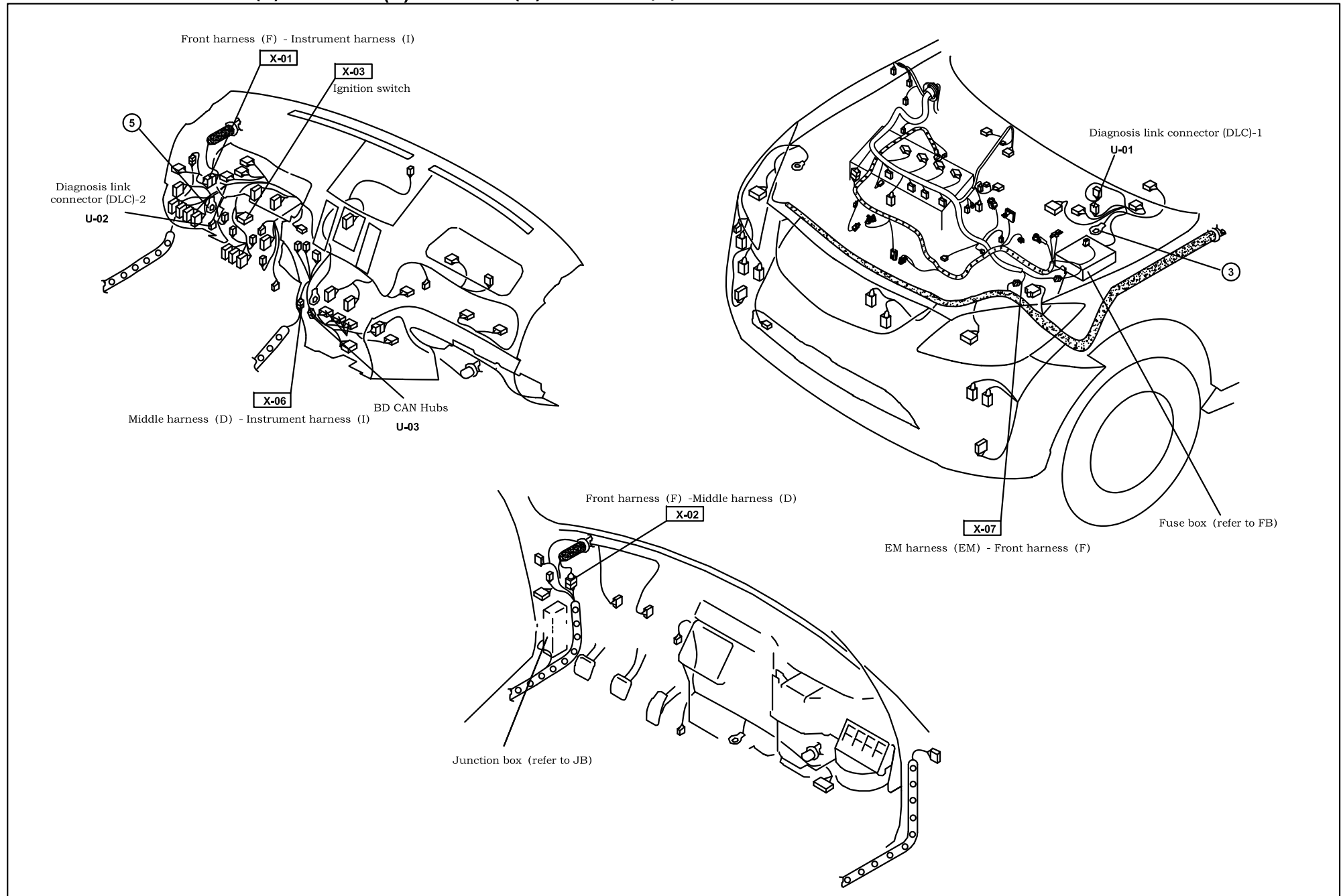


Harness mark: (F) (E) (D) (R)

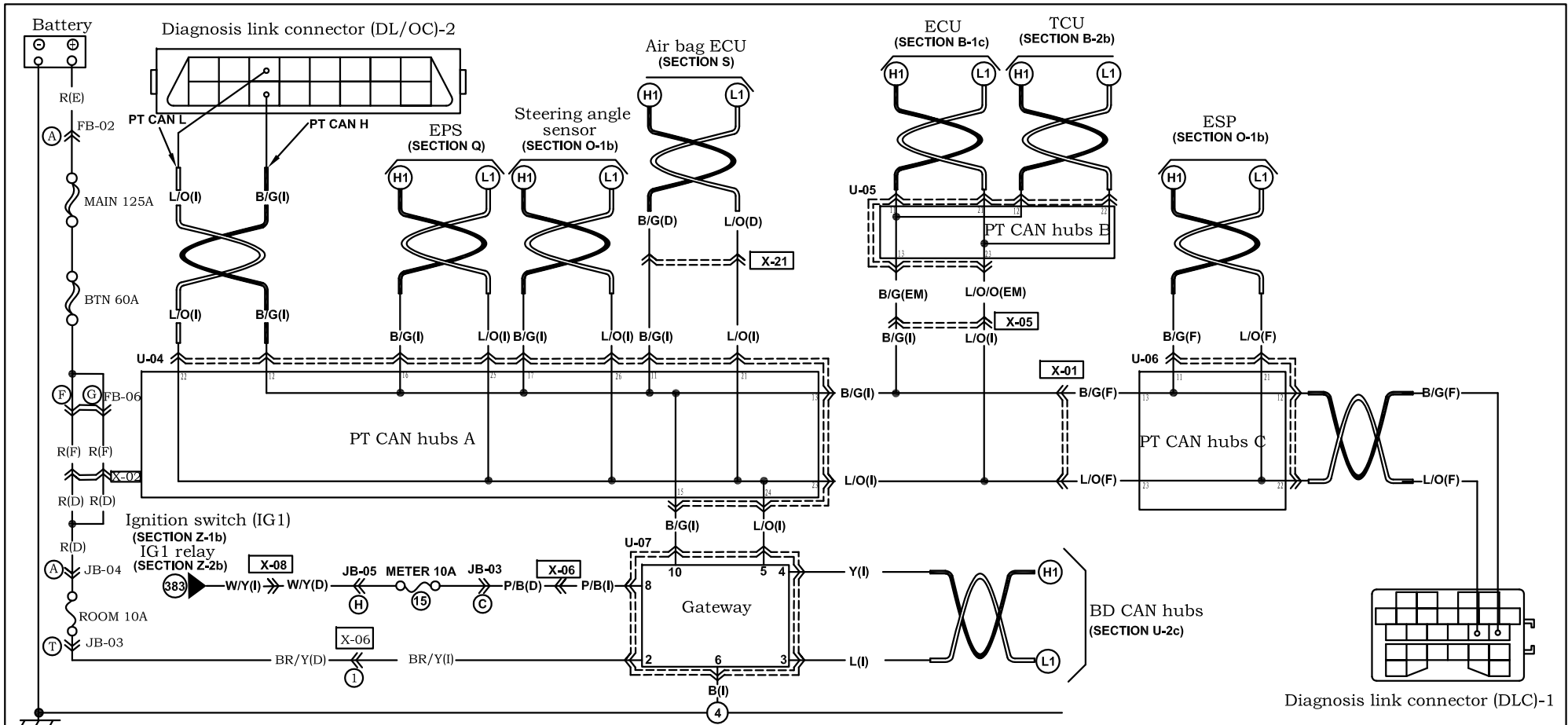




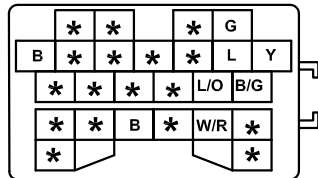
Harness mark:  (F)  (E)  (D)  (R)



# Communication wire (CAN)(1.8T)

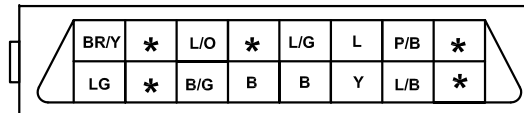


U-01 Diagnosis link connector (DL/OC)(EM)



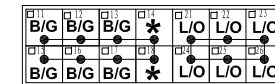
Note: view from the harness terminal

U-02 Diagnosis link connector(DL/OC)-2(I)

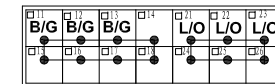


Note: view from the harness terminal

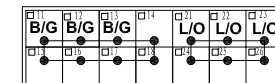
U-04 PT CAN hubs A



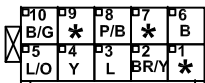
U-05 PT CAN hubs B



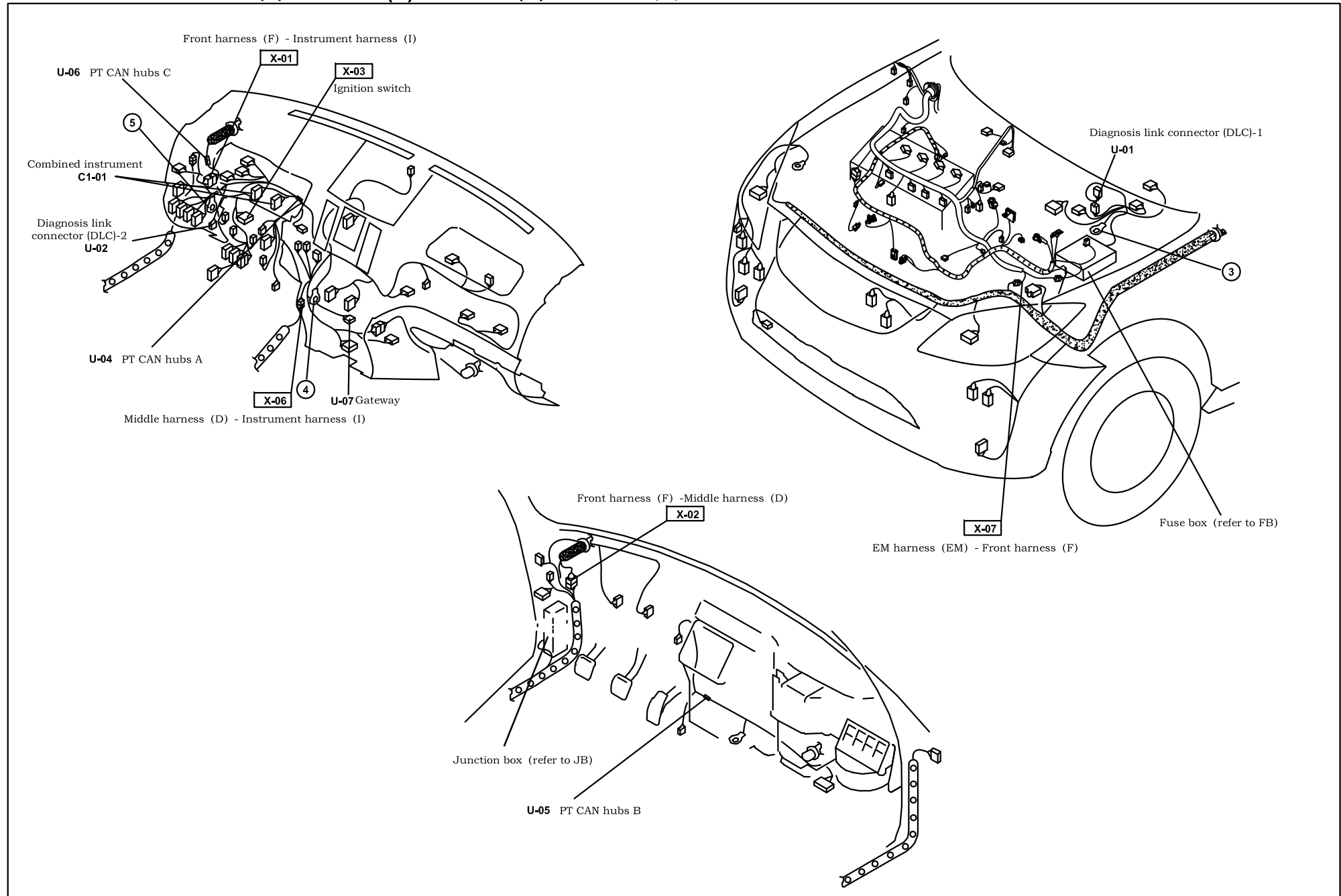
U-06 PT CAN hubs C



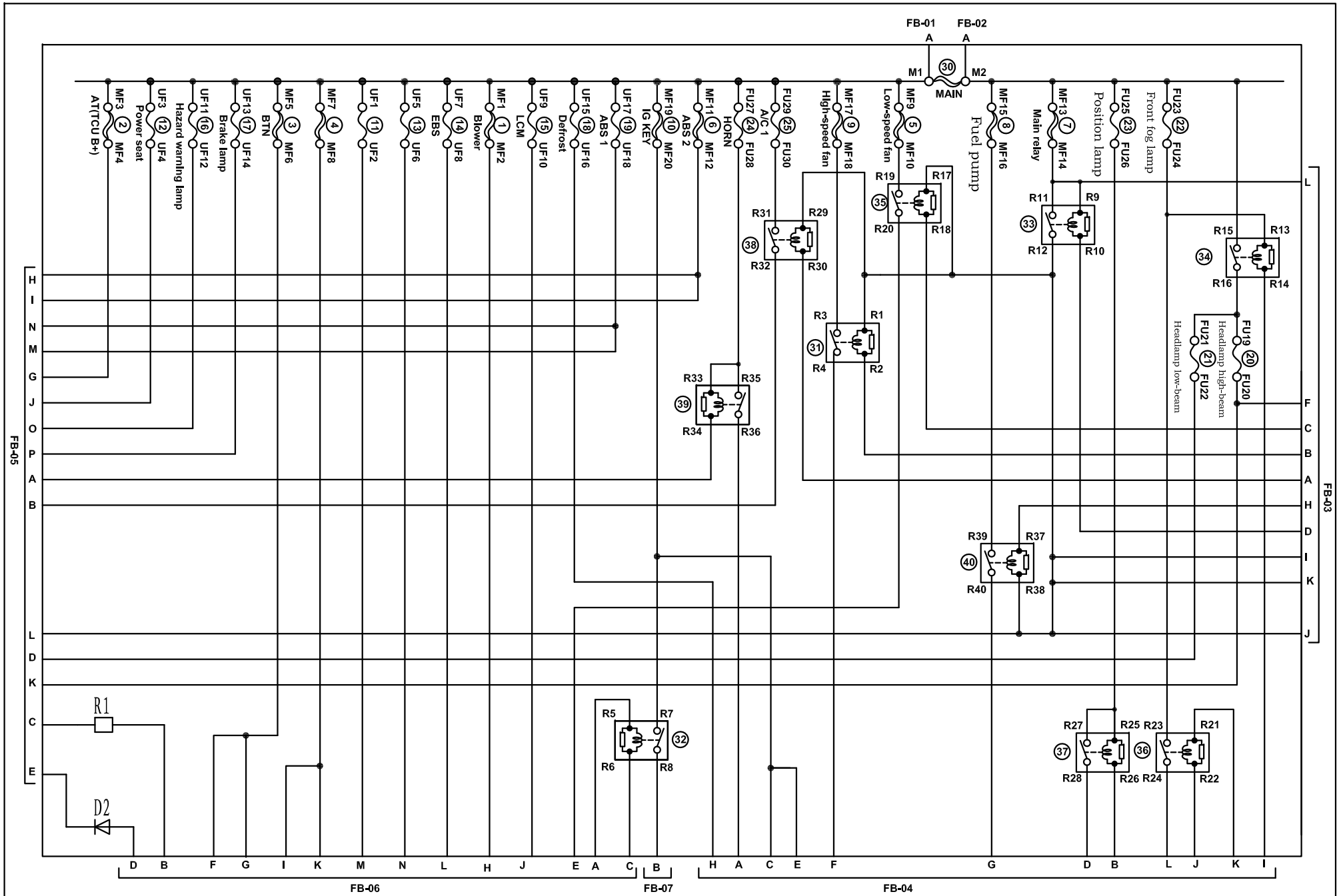
U-07 Gateway



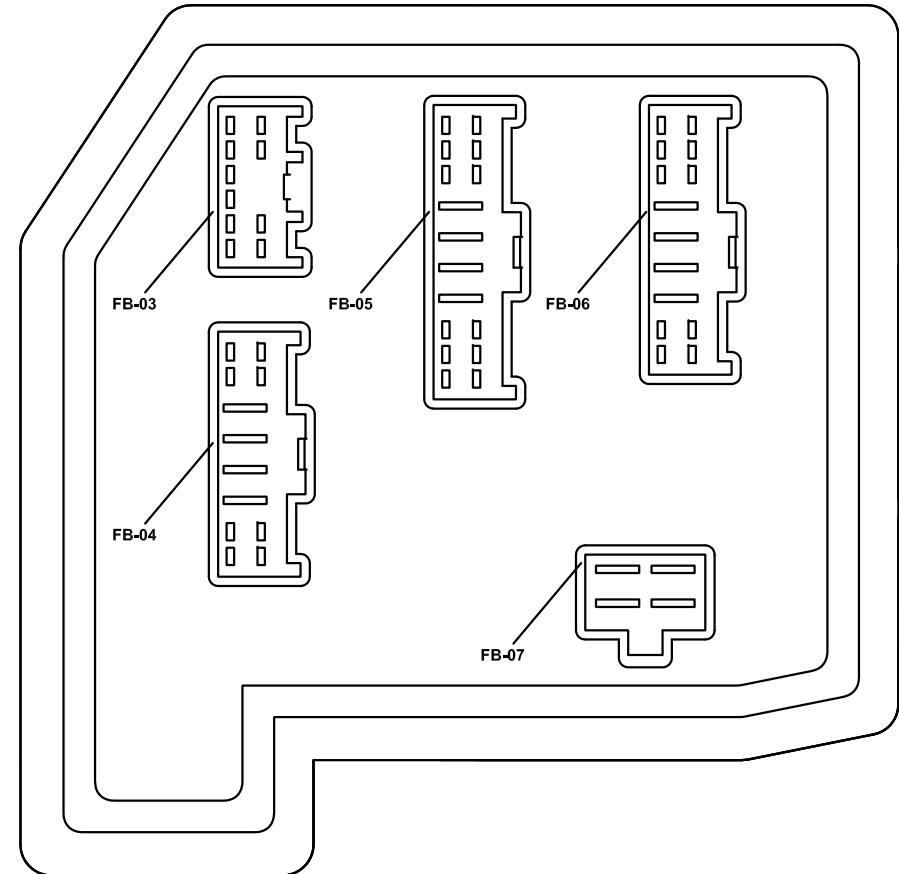
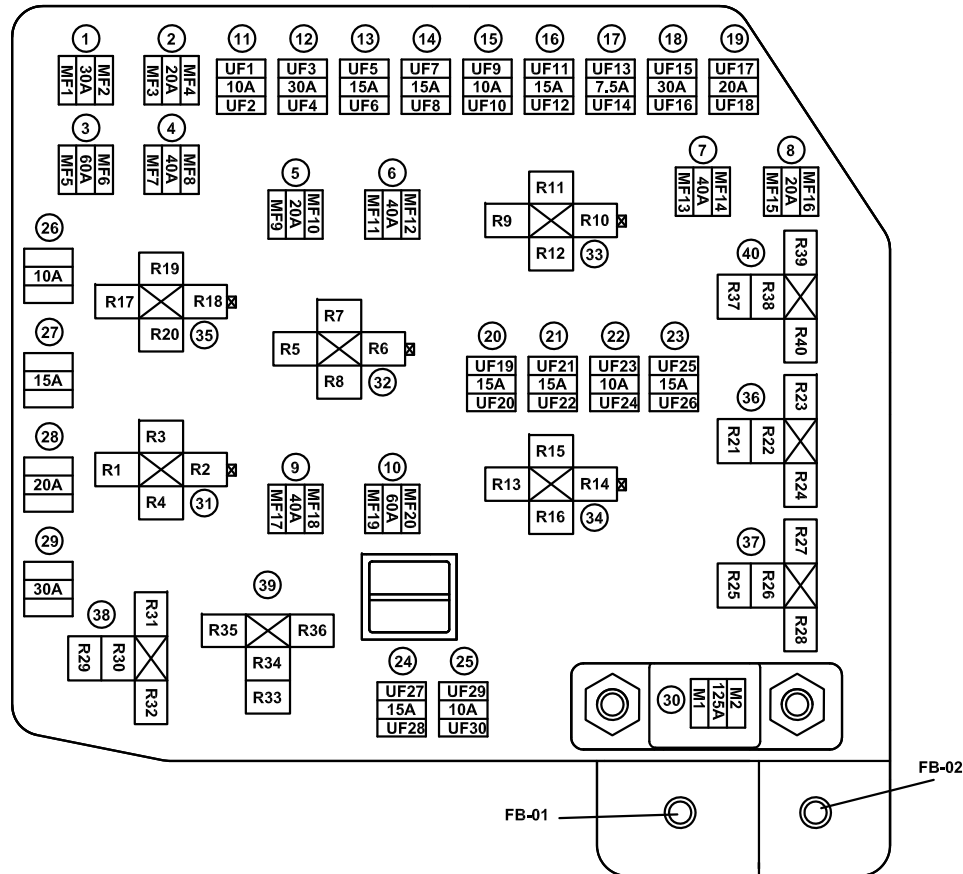
Harness mark:  (F)  (E)  (D)  (R)



# Fuse box wiring diagram (1.8T)



# Fuse box (1.8T)



No.	Fuse name	No.	Fuse name	No.	Fuse name	No.	Relay name
1	Blower	11	PEPS 1	21	Headlamp low-beam	31	Fan
2	AT(TCU B+)	12	Power seat(main)	22	Front fog lamp	32	Start
3	BTN	13	PEPS 2	23	Position lamp	33	Main relay
4	*	14	EBS	24	HORN	34	Headlamp
5	Vacuum pump	15	LCM	25	AC 1	35	Vacuum pump
6	ABS 2	16	Hazard warning lamp	26	*	36	Front fog lamp
7	Main relay	17	Brake lamp	27	*	37	Position lamp
8	Fuel pump	18	Defrost	28	*	38	Compressor
9	Fan	19	ABS 1	29	*	39	Horn
10	IG KEY	20	Headlamp high-beam	30	Main fuse	40	Fuel pump

# Fuse box (1.8T)

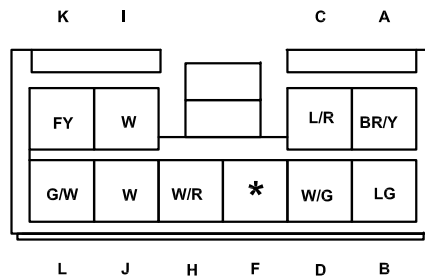
**FB-01** Engine harness (E)



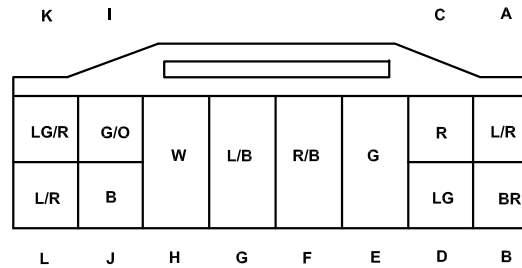
**FB-02** Engine harness (E)



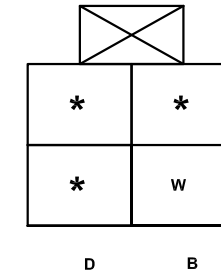
**FB-03** EM harness (EM)



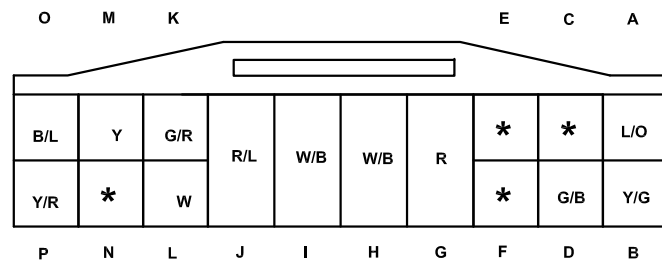
**FB-04** Front harness (F)



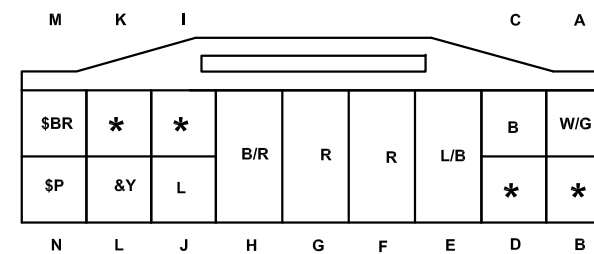
**FB-07** Engine harness (E)



**FB-05** Front harness (F)



**FB-06** Front harness (F)

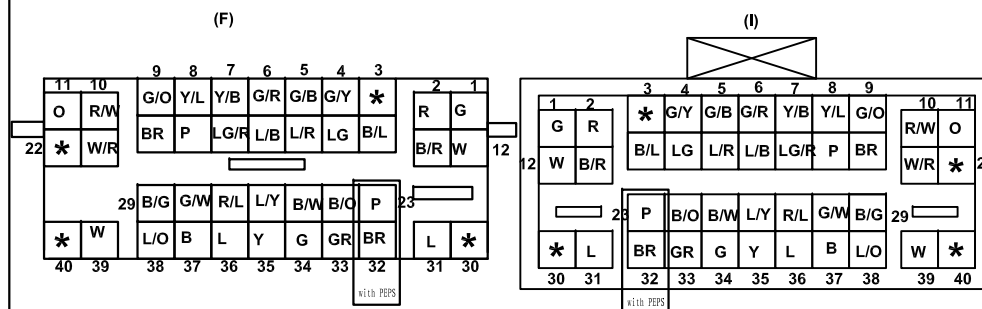


\$ with PEPS  
& with start-stop

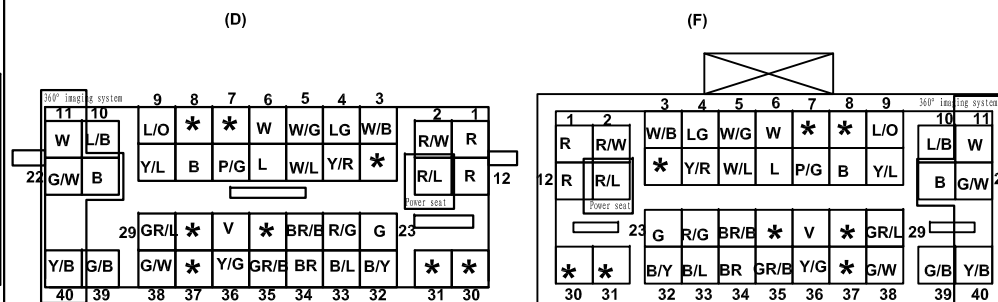


## Common connector list (1.8T)

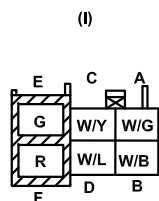
**X-01** Front harness (F) - Instrument harness (I)



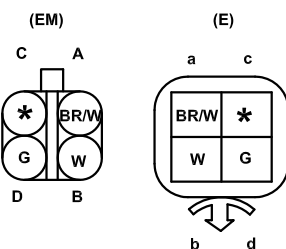
**X-02** Front harness (F) -Middle harness (D)



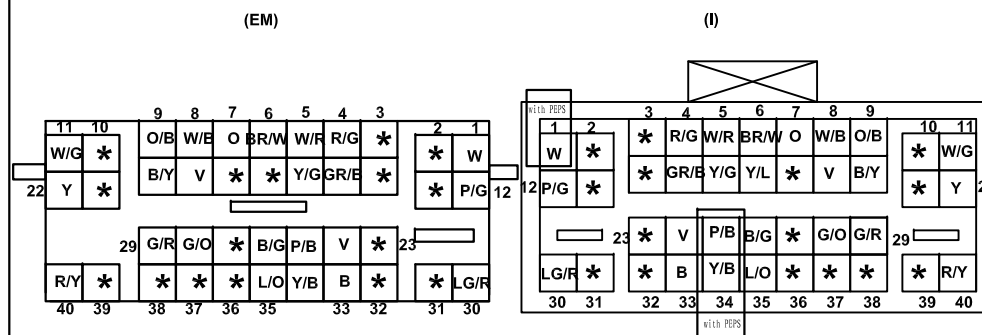
**X-03** Ignition switch (I) & with start-stop



**X-04** Engine harness (E) - EM harness (EM) & with start-stop

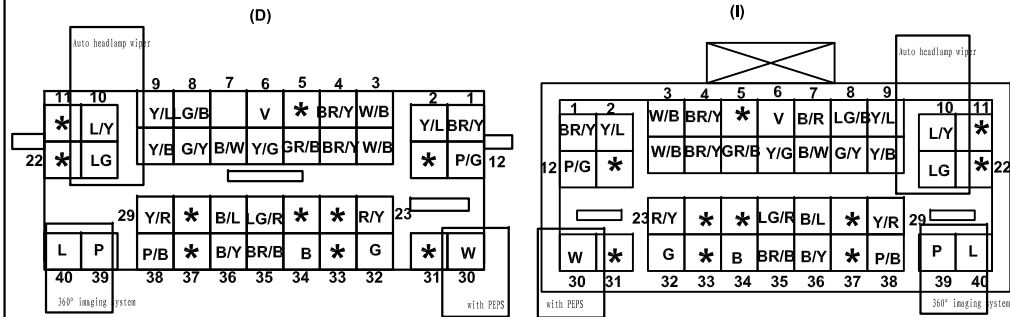


**X-05** EM harness (EM) - Instrument harness (I)

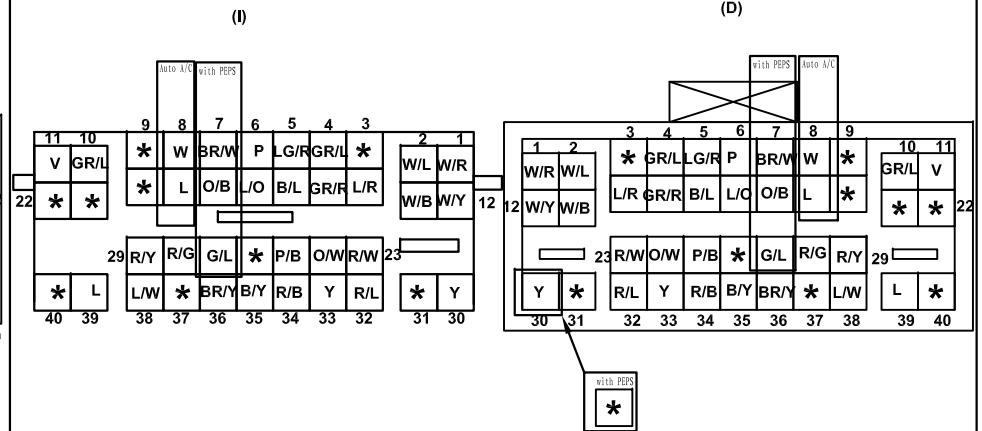


# Common connector list (1.8T)

**X-06** Middle harness (D) - Instrument harness (I)

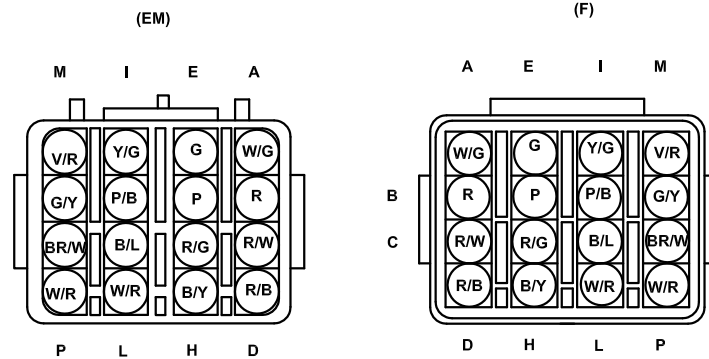


**X-08** Middle harness (D) - Instrument harness (I)



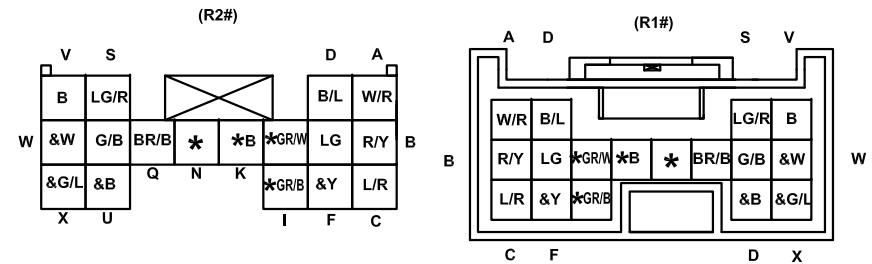
**X-07** EM harness (EM) - Front harness (F)

< > with AT



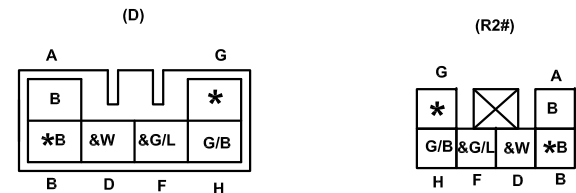
**X-09** 1# back door harness (R1#) -2# back door harness (R2#)

\* with reversing camera  
& with 360° imaging system



**X-10** Middle harness(D) -2# back door harness (R2#2)

\* with reversing camera  
& with 360° imaging system

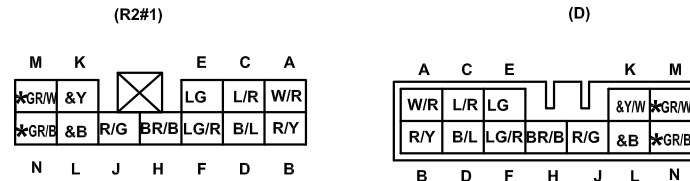


# Common connector list (1.8T)

X-3

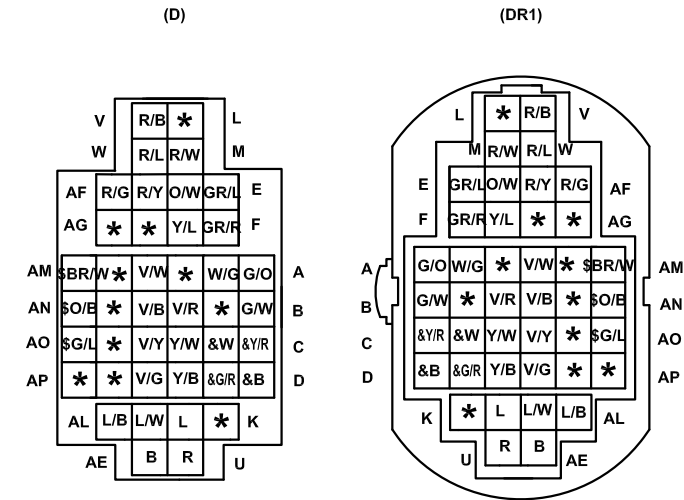
X-11 2# back door harness (R2#1) -Middle harness (D)

\* with reversing camera  
& with 360° imaging system



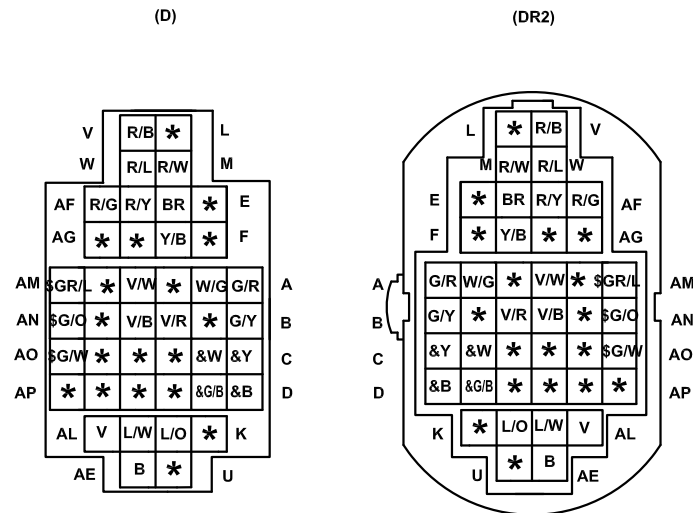
X-12 Middle harness (D) -Front door harness (DR1)

\$ with PEPS  
& with 360° imaging system

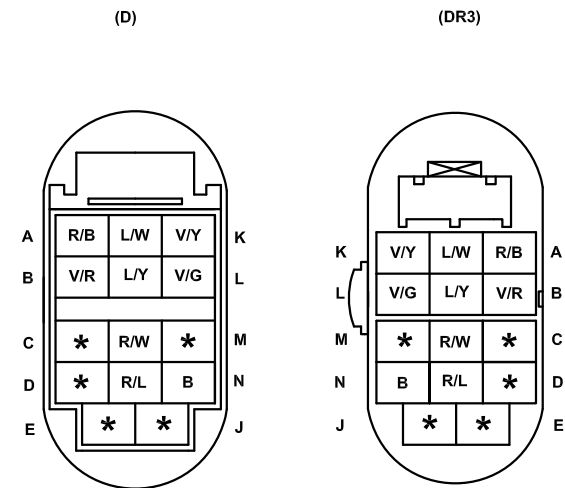


X-13 Middle harness (D) - Front door harness (DR2)

\$ with PEPS  
& with 360° imaging system

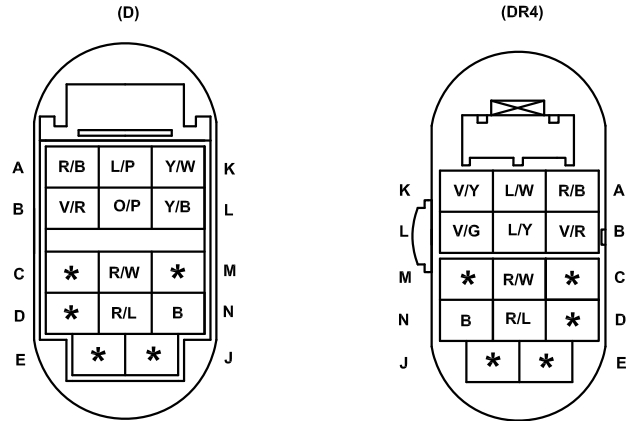


X-14 Middle harness (D) -Rear left door harness (DR3)

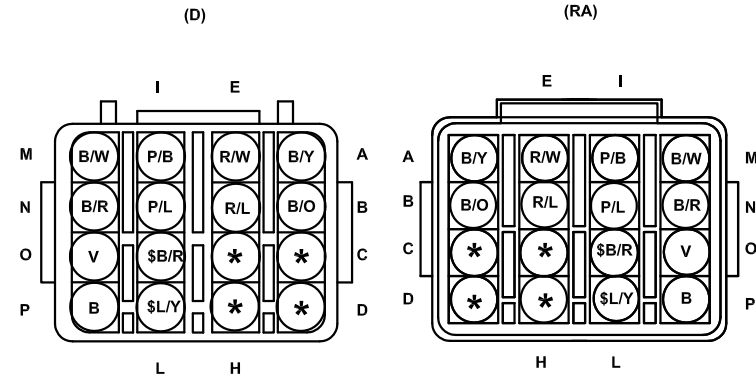


# Common connector list (1.8T)

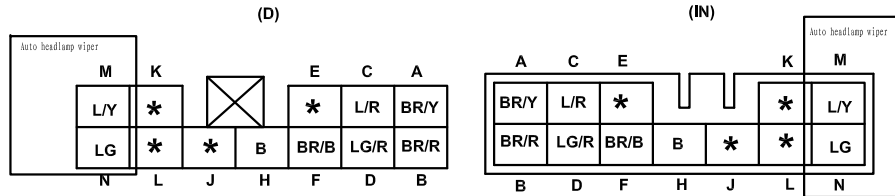
**X-15** Middle harness (D) -Rear right door harness (DR4)



**X-16** Middle harness (D) - Reversing radar harness (RA)



**X-17** Middle harness (D) -Interior harness (IN)



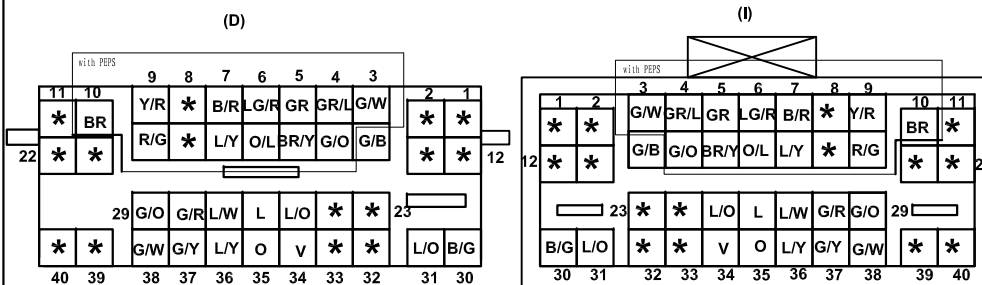
**X-19** Middle harness (D) -Instrument harness (I)



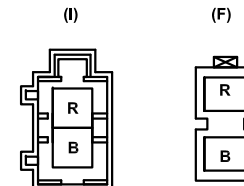
**X-20** Middle harness (D) -Instrument harness (I)



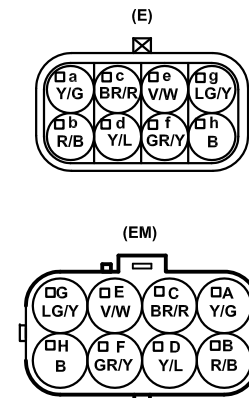
**X-21** Middle harness (D) -Instrument harness (I)

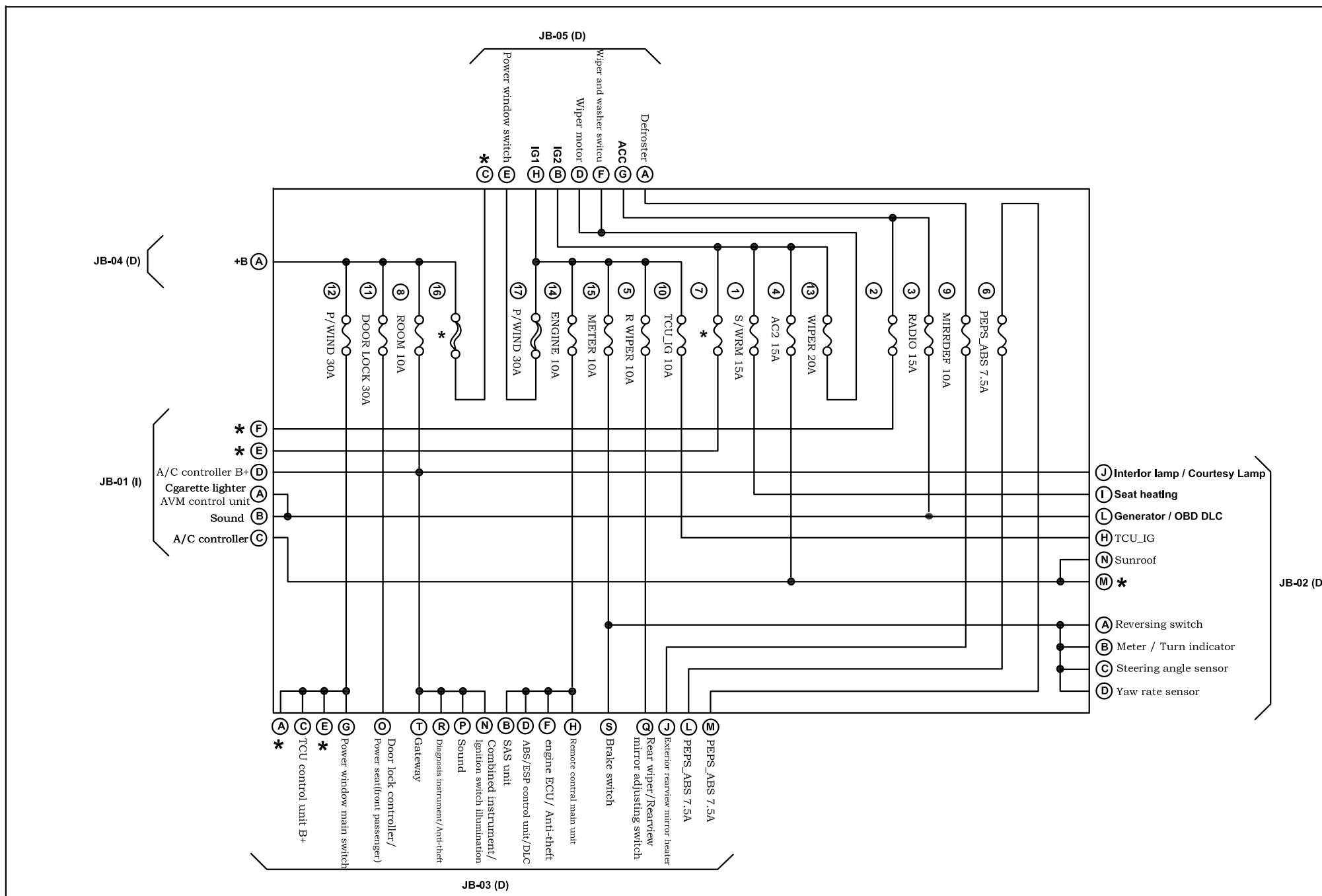


**X-22** Instrument harness (I) -Front harness (F)



**X-23** Engine harness (E) -EM harness (EM)





Junction box (1.8T)

