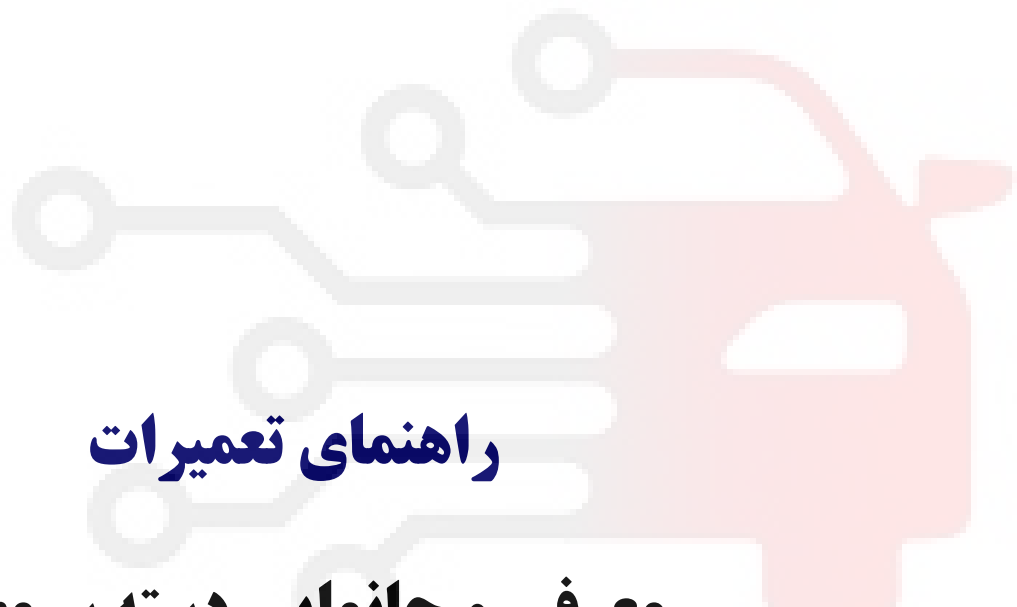




راهنمای تعمیرات

معرفی و جانمایی دسته سیمها و

نقشه‌های الکتریکی

هایما S7 توربوشارژر

راهنمای معرفی و جانمایی دسته سیمها و نقشه های

الکتریکی خودروی هایما (S7) توربوشارژر

دیجیتال خودرو

digital khodro

فهرست

فارسی	code	English
اتصالات بدنه	Y	Ground Point
شماتیک دسته سیم ها	W-1 W-2	Electric Harness Schematic
سیستم شارژ و سیستم استارت	A-1	Charging System & Starting System
سیستم start/stop	A-2	Start-stop Start-up System
سیستم سوخت رسانی و موتور	B-3a B-3b B-3c B-3d	Engine Control System (1.8T)
گیربکس اتوماتیک	B-4a B-4b B-4c	Transmission Control System(1.8T-6AT)
پمپ بنزین	B-7	Fuel Pump Control System
سیستم خنک کننده موتور	B-8 a	Fan Control System / Vacuum pump (1.8T)
جلو آمپر	C-1a C-1b C-1c C-1d C-1e C-1f	Combination Instrument (1.8T)
برف پاک کن و شیشه شور جلو	D-1a D-1c	Windshield Wiper And Washer
برف پاک کن و شیشه شور عقب	D-1b	Rear- window Wiper And Washer
چراغهای اصلی	E-1	Headlamp
تنظیم ارتفاع چراغ های اصلی	E-2	Headlamp Beam level Adjusting System
چراغهای مه شکن جلو و عقب	E-5	Front/ Rear Fog Lamp
چراغهای جانبی	E-7	License Plate Lamp/Position Lamp/ Tail Lamp/Daytime Running Lamp
چراغهای راهنما و فلاشر	F-1	Turn Indicator And Hazard Warning Lamp
چراغ دنده عقب	F-2	Reversing Lamp
چراغ ترمز	F-3	Brake Lamp
بوق	F-4	Horn
سیستم تهویه مطبوع	G-1a G-1b	Air Conditioning System
کمپرسور کولر	G-2	Compressor Control System

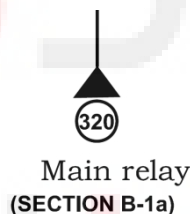
Reversing Radar System	H-1	سیستم هشدار موانع عقب
Rear Vision System	H-2	سیستم دوربین دنده عقب
360° imaging System(1.8T)	H-3	دوربین 360°
Cigarette Lighter / Rear Defroster System	I-1	فندک و گرمکن شیشه عقب
Illumination Lamp	I-2a I-2b I-2c	چراغهای روشنایی داشبورد
Interior Lamp/ Reading Lamp/ Trunk Lamp	I-3	چراغهای سقفی و صندوق
Sound System	J-1a J-1b	سیستم صوتی و تصویری
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
Anti-lock Braking System	O-1a O-1b	سیستم ESP و ABS
Smart Key System (PEPS)	N-1a N-1b N-1c	سیستم کلید هوشمند
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)
Power Seat And Seat Heating	P	صندلی ها
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 U-2b	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 :



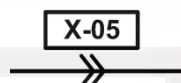
در نقشه با کد B-1a که یکی از نقشه های سیستم سوخت رسانی و موتور میباشد نیز همین شماره (320) جهت ردیابی و قطعه مرتبط (سوئیچ Start-Stop) در نقشه سیستم Start-Stop با کد A-2 نوشته شده است.



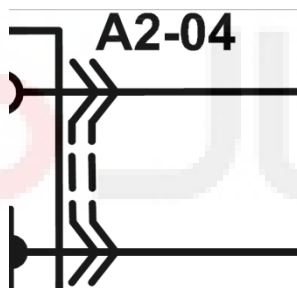
بر روی هر سیم کدی وجود دارد که نشان دهنده رنگ و دسته سیم آن می باشد. حروف خارج از پرانتز یعنی در این مثال B/W نشان دهنده رنگ سیم و همچنین حروف داخل پرانتز نشان دهنده دسته سیم می باشد. جدول معرفی کد رنگ ها و دسته سیم ها در صفحات اولیه کتاب آورده شده است.

—————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.

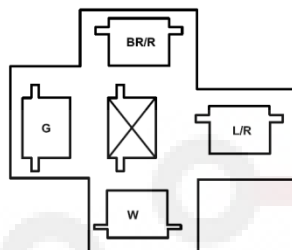


برای نشان دادن کانکتور ها از علامتهایی نظیر علامت زیر استفاده می شود. به طور مثال علامت زیر نشان دهنده آنست که کد کانکتور قطعه مذکور A2-04 می باشد و هر دو سیم بالایی و پایینی در آن قرار دارند. مشخصات کلی هر کانکتور، در پایین صفحه همان نقشه ای که در آن بکار رفته است وجود دارد.

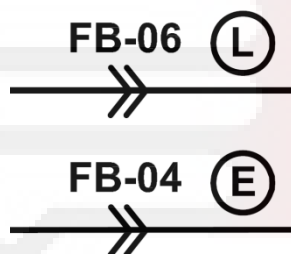


در نقشه های دسته سیم از شماره سیم استفاده نشده است و جهت ردیابی هر مسیر تنها به رنگ سیم و محل قرار گیری در کانکتور بسنده شده است. مانند شکل زیر که کانکتور A2-04 را که مربوط به رله Start-Stop می باشد را نشان داده است.

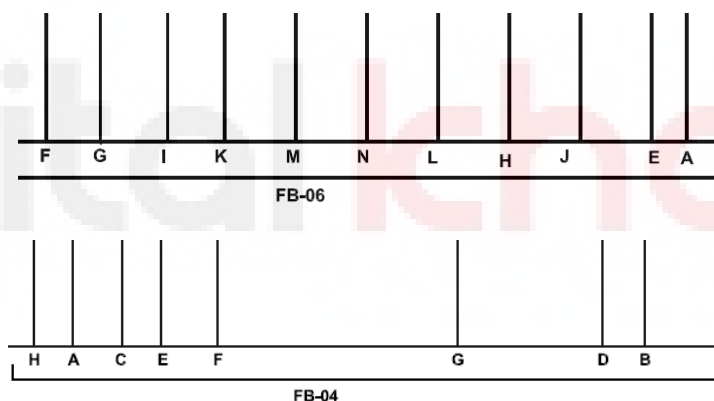
A2-04 Start-stop control relay (EM)



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.



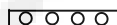
به طور مثال خط ارتباط بالایی نشاندهنده این است که به نقشه FB در بخش FB-06 خط L و برای ارتباط پایینی در نقشه FB در بخش FB-04 خط E مراجعه گردد.

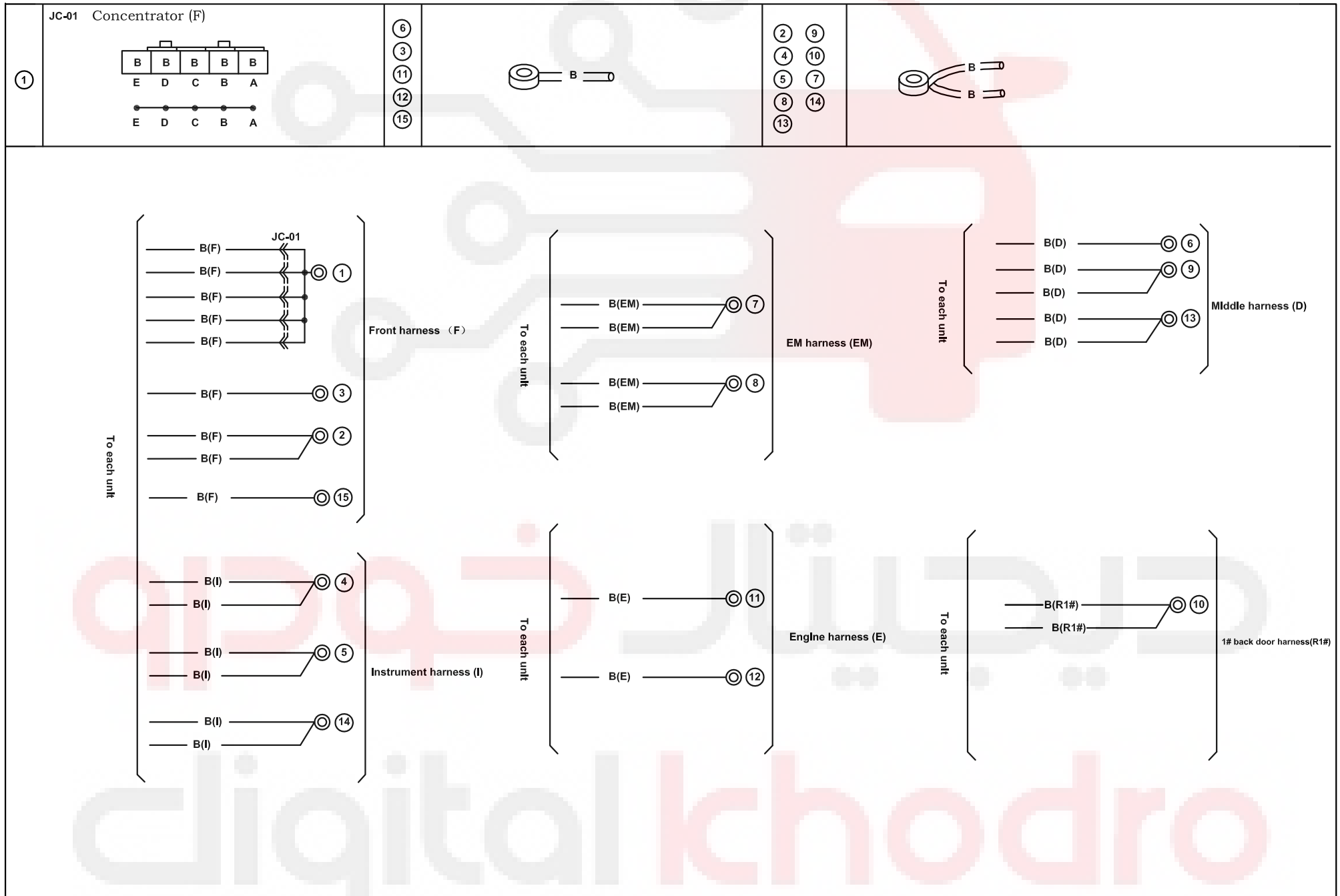


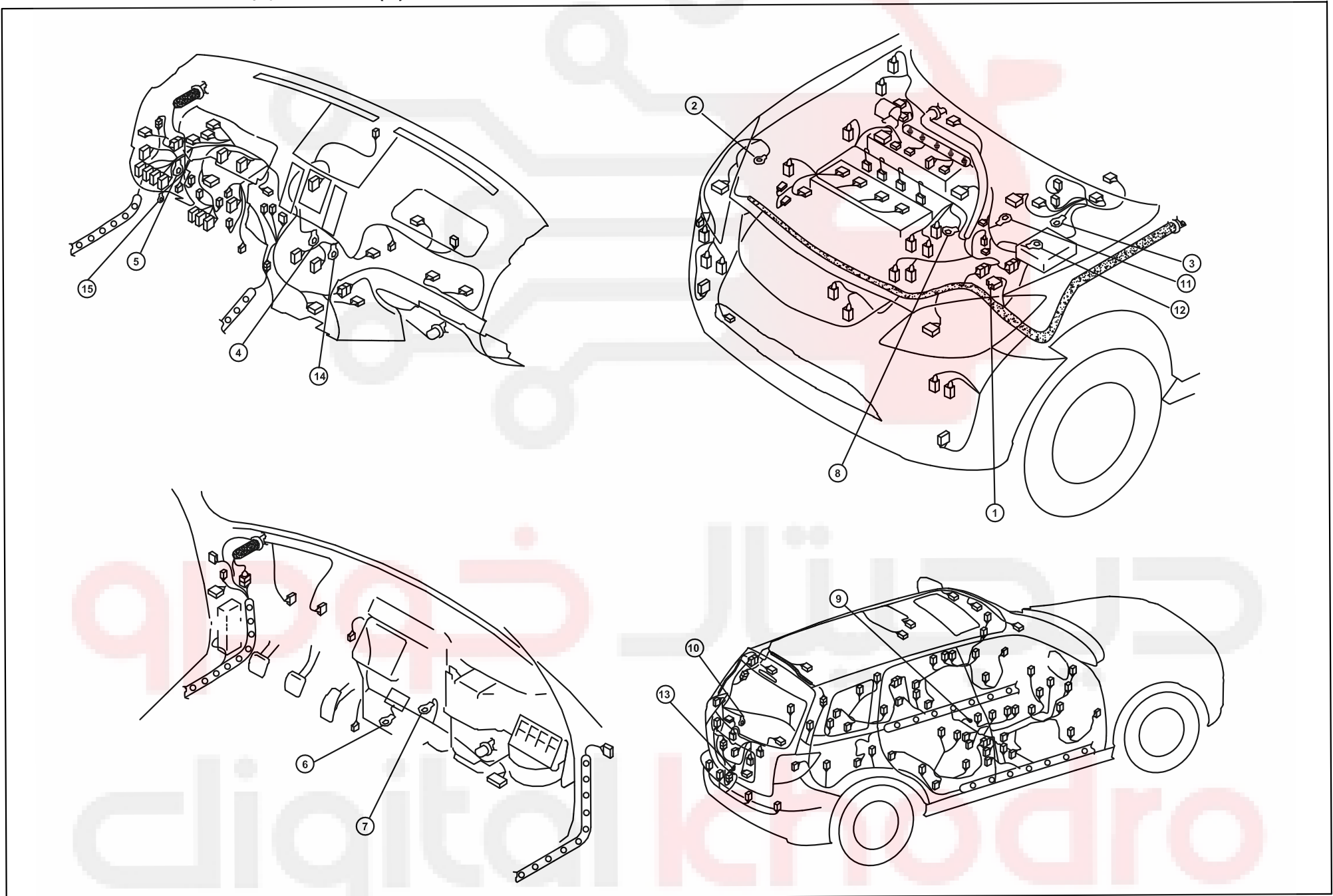
General Wire Color Code

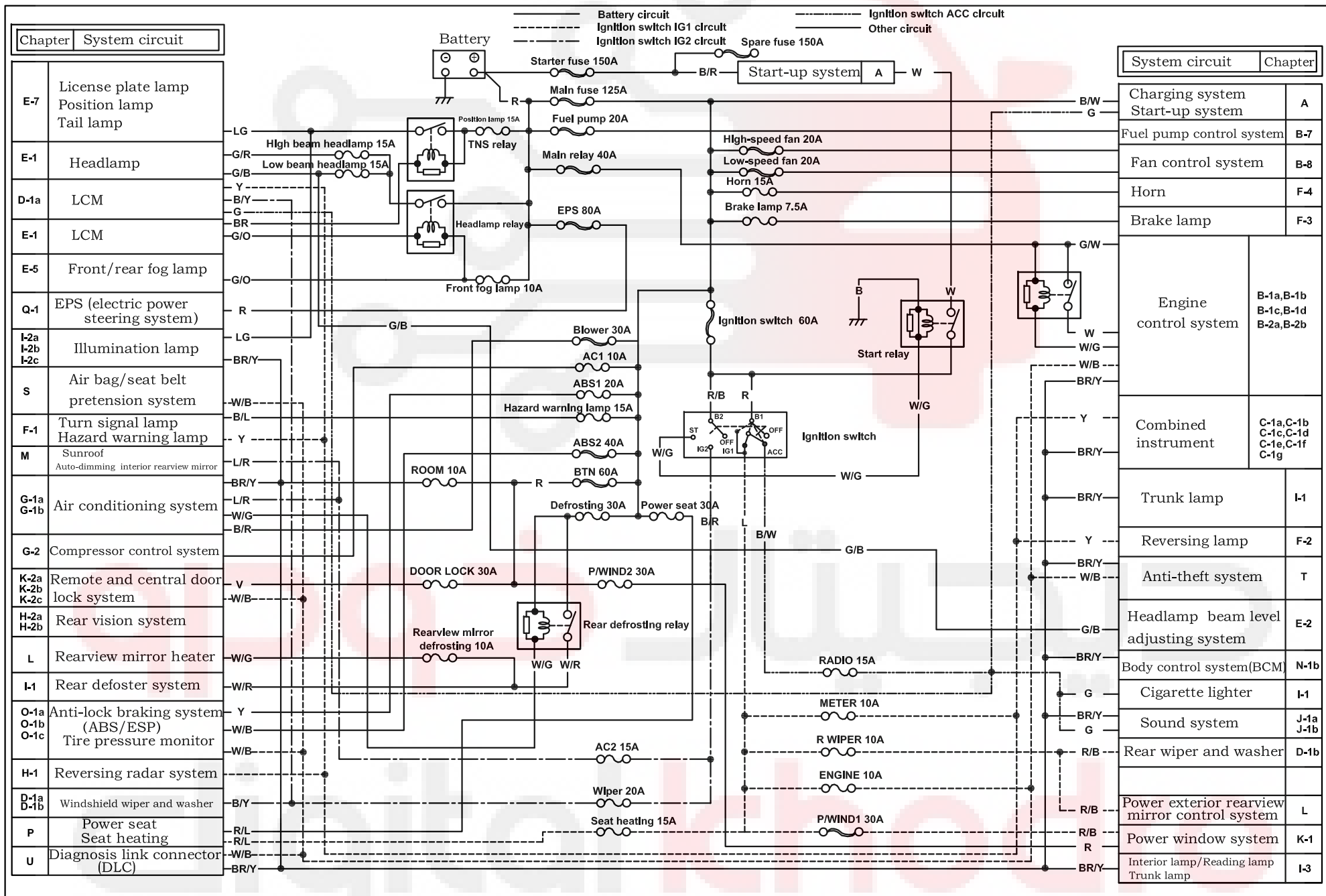
Color	Code	Color	Code
Black	B	Light Green	LG
Brown	BR	Orange	O
Dark blue	DL	Pink	P
Dark Green	DG	Red	R
Gray	GR	Sky Blue	SB
Green	G	Violet	V
Light blue	LB	White	W
Blue	L	Yellow	Y

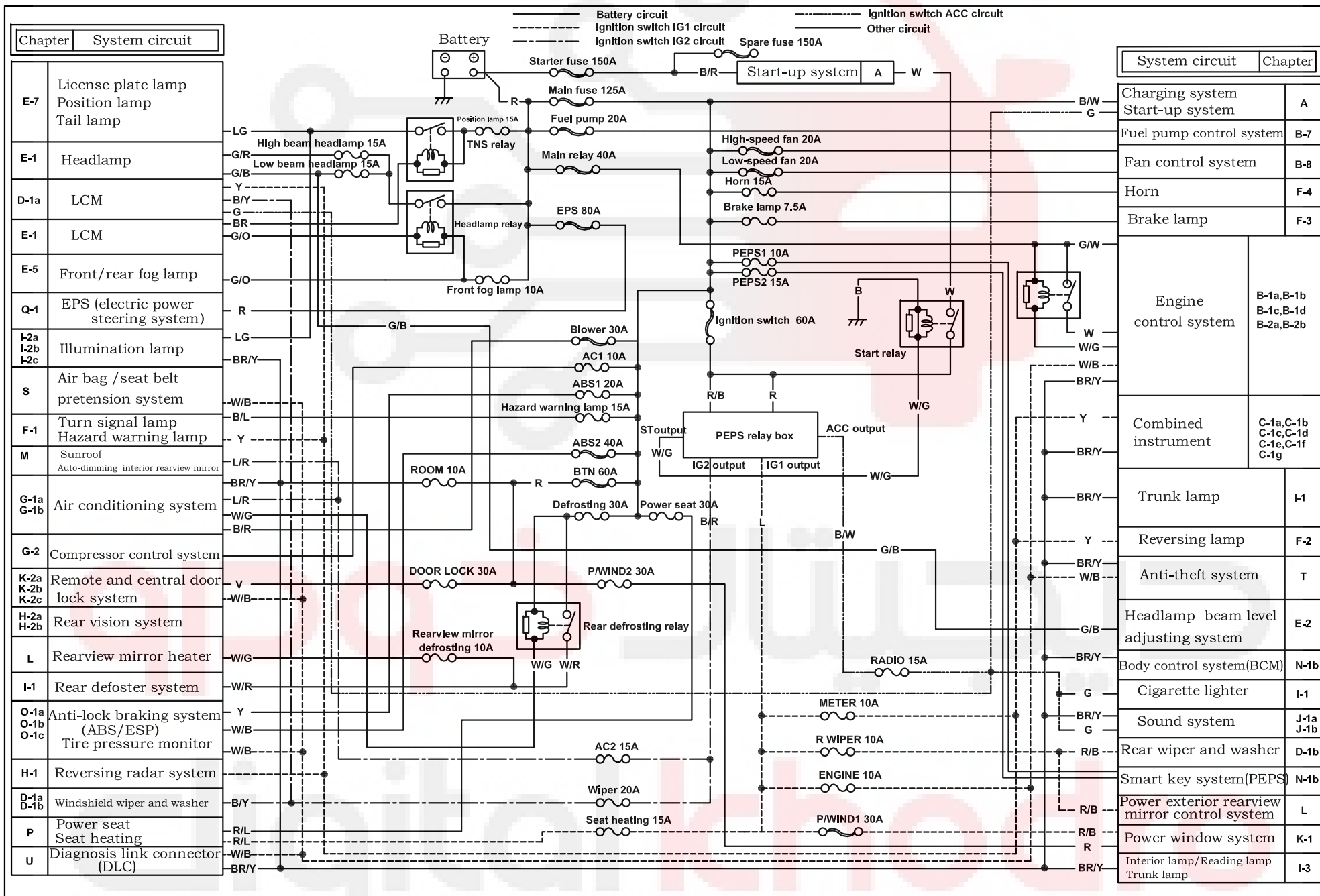
Harness symbol

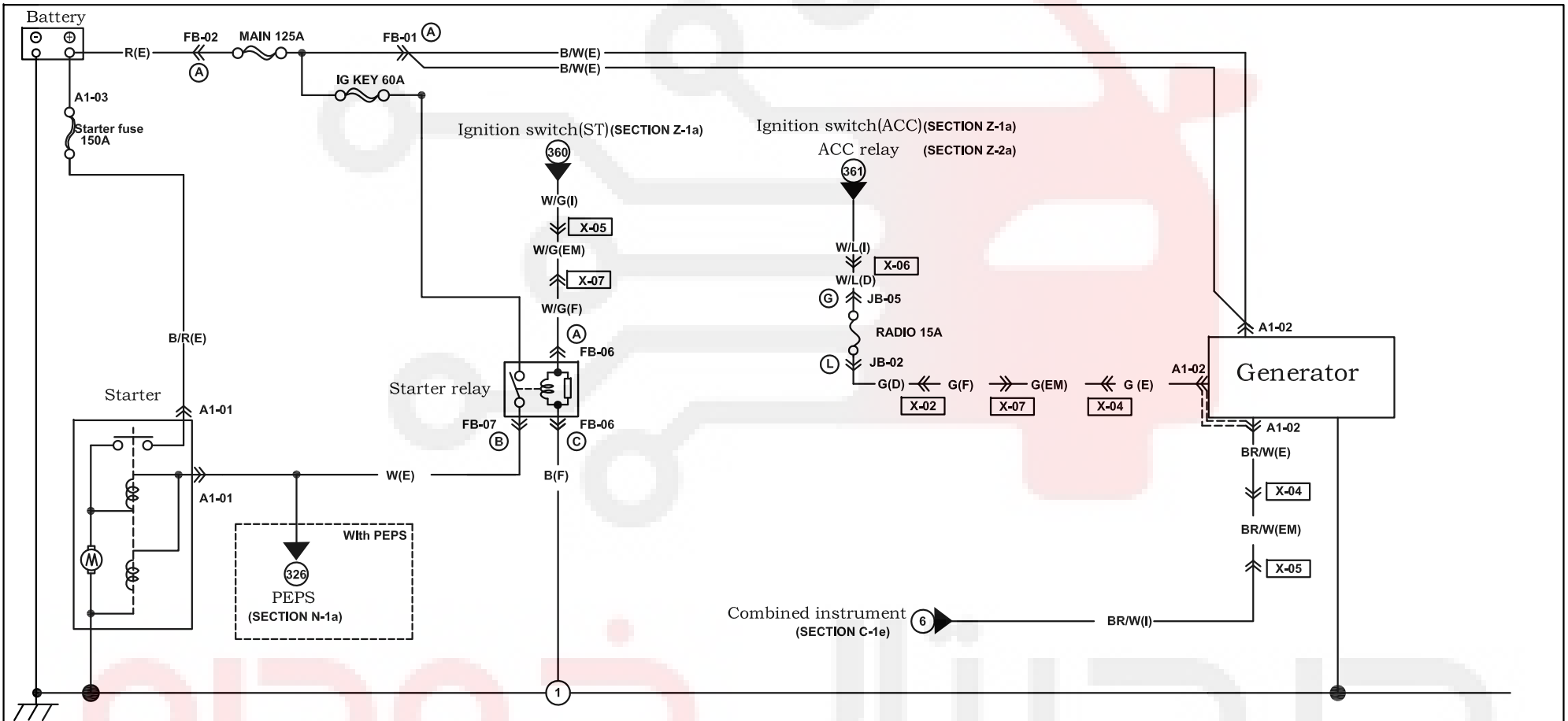
Name	Symbol	Name	Symbol
Front harness	F 	Grounding harness	EA
Engine harness	E 	Interior harness	IN
EM harness	EM	Reversing radar harness	RA
Middle harness	D 	2# Back door harness	R2#
Rear harness	R 	1# Back door harness	R1#
Front left door harness	DR1		
Front right door harness	DR2		
Rear left door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

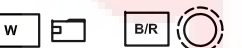
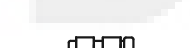




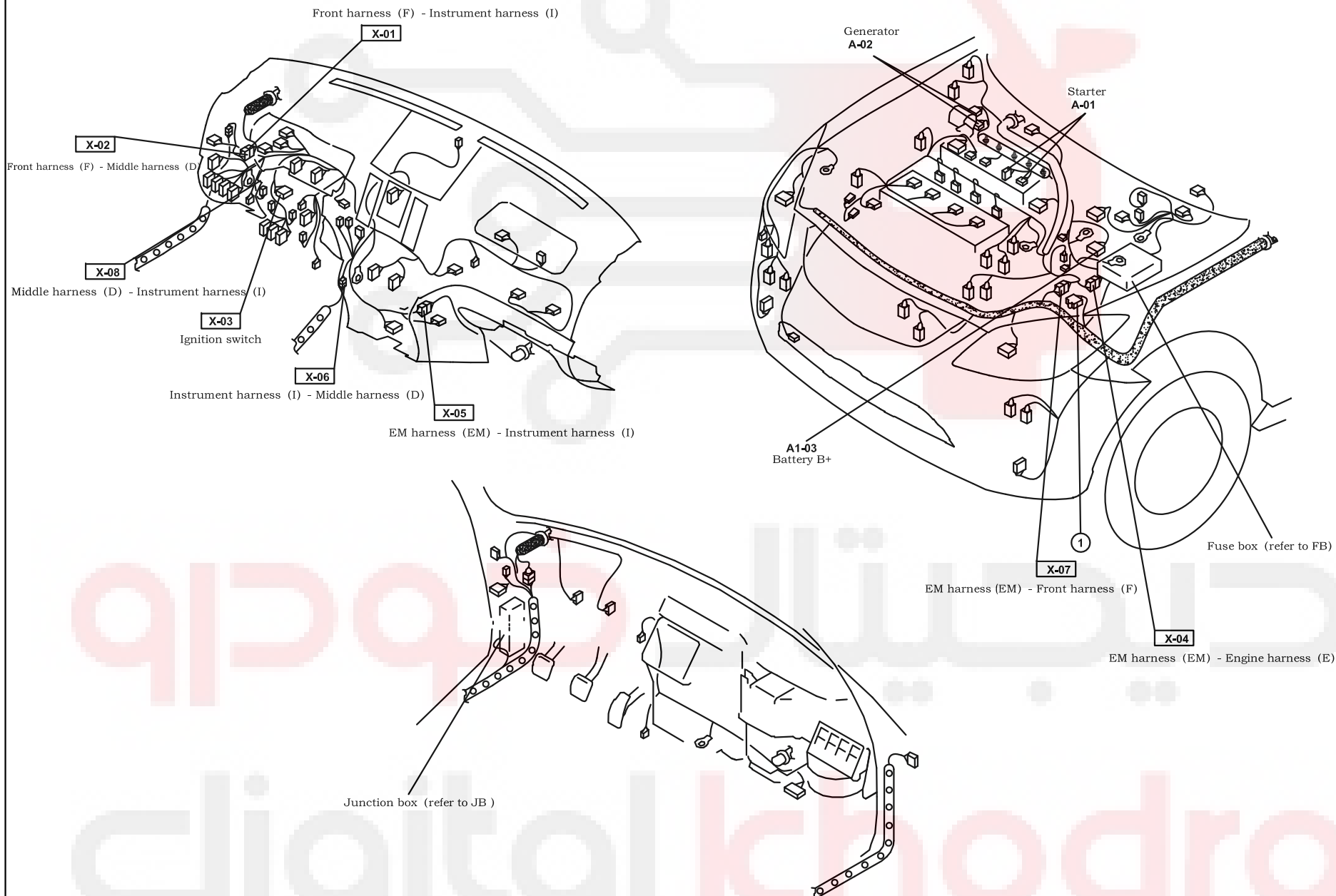


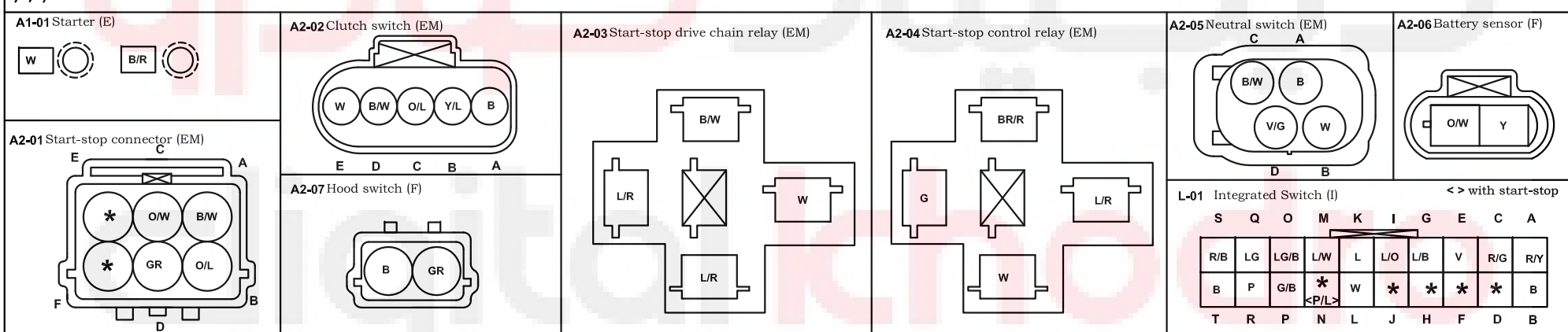
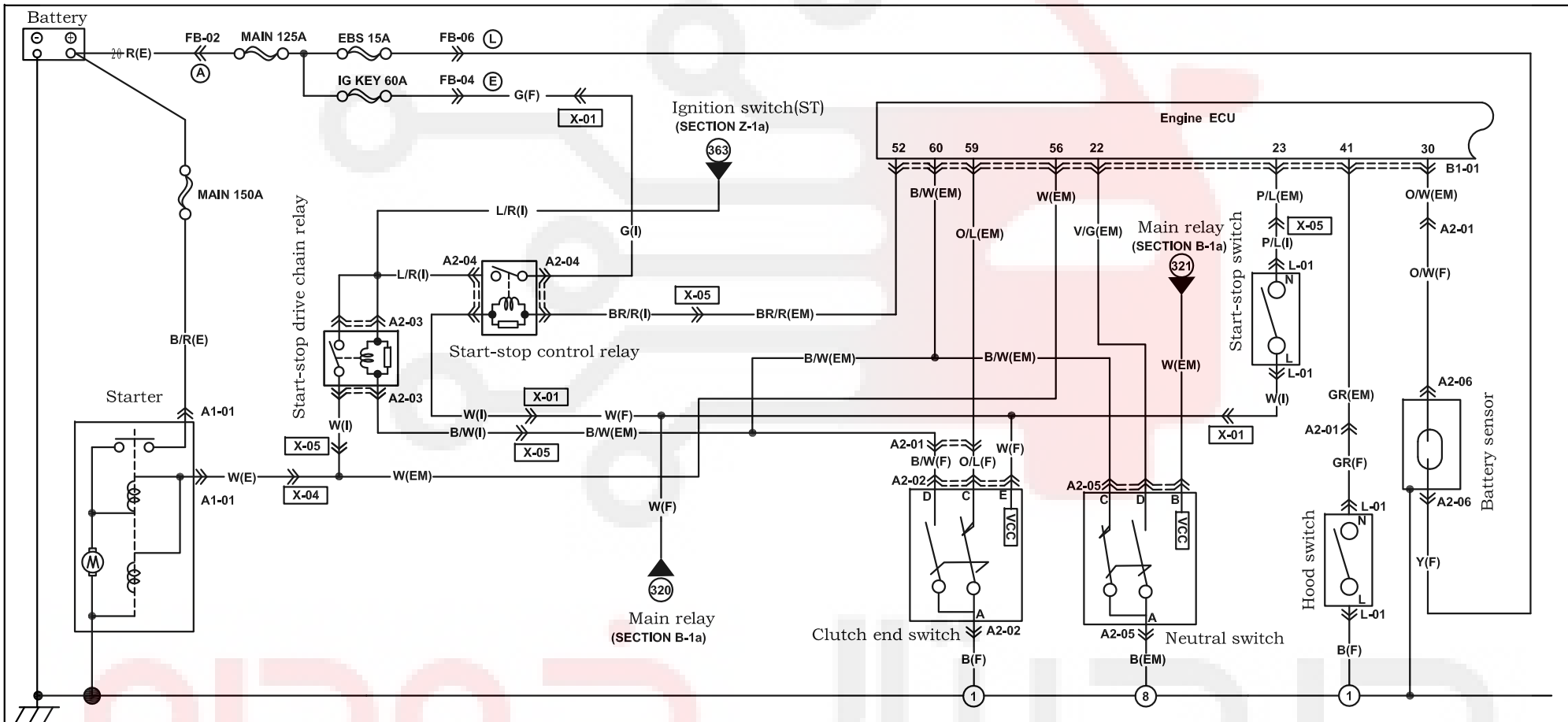


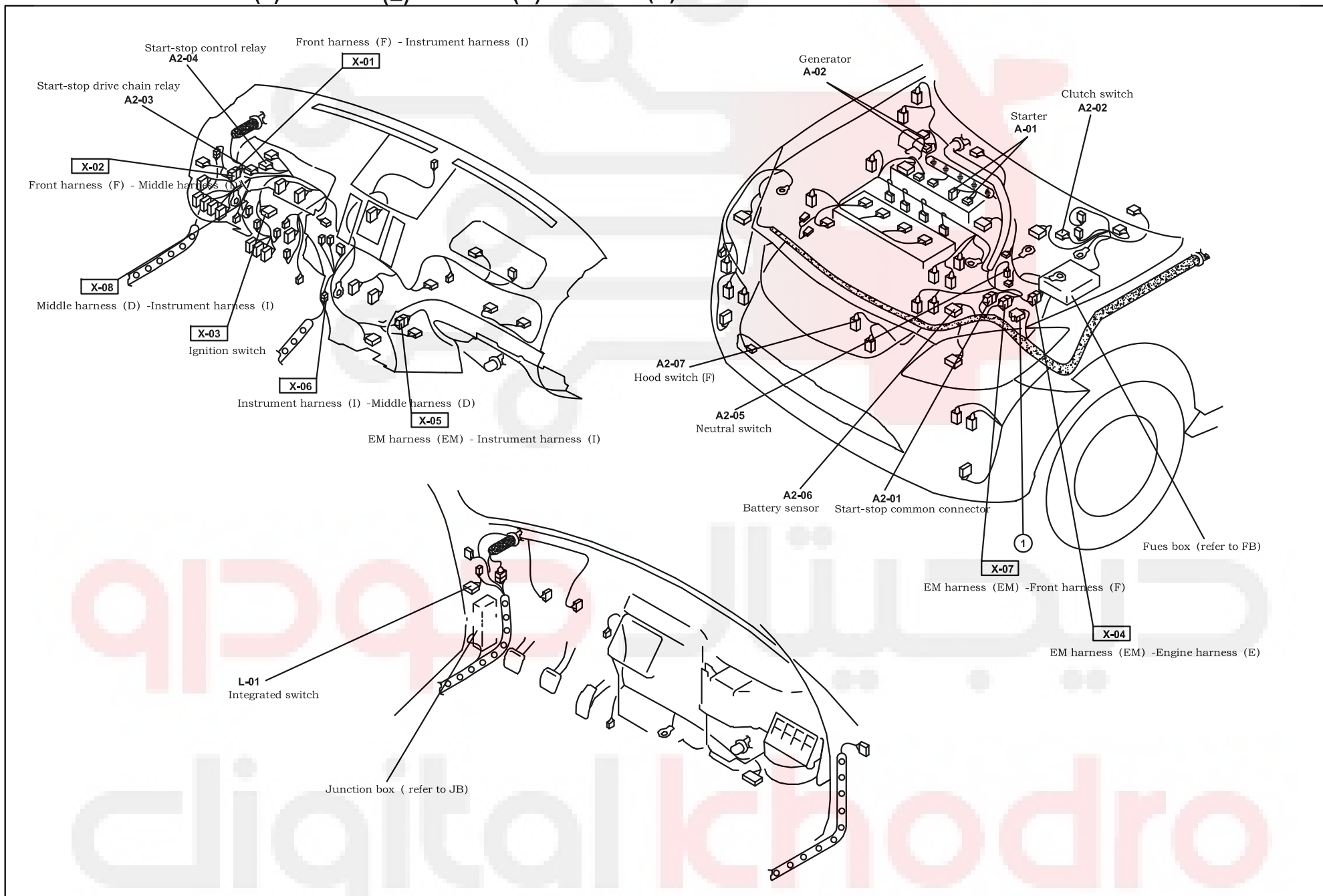


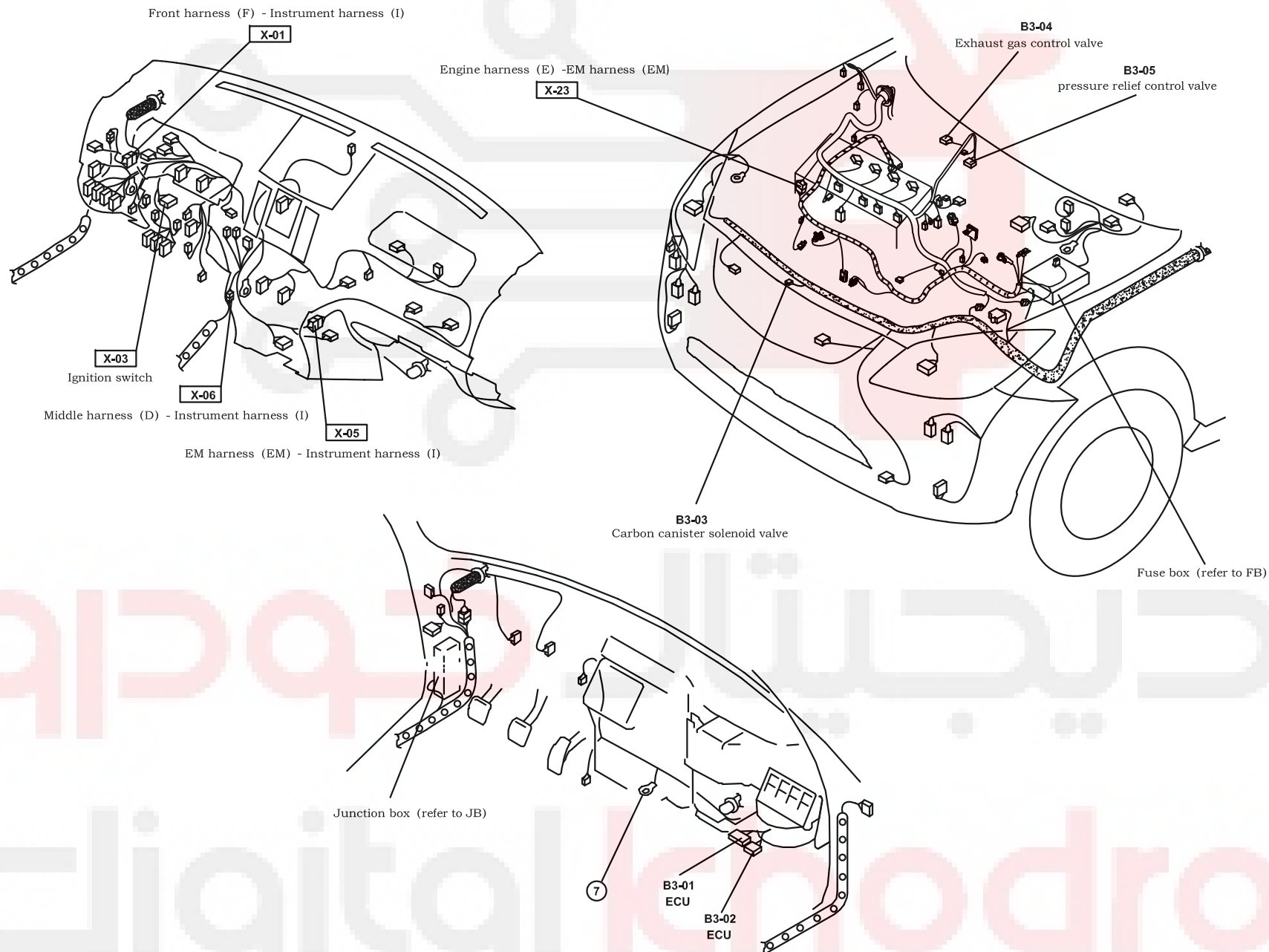
A1-01 Starter (E)	A1-02 Generator (E)	A1-02 Generator (E)	A1-03 Battery B+ (E)			
						

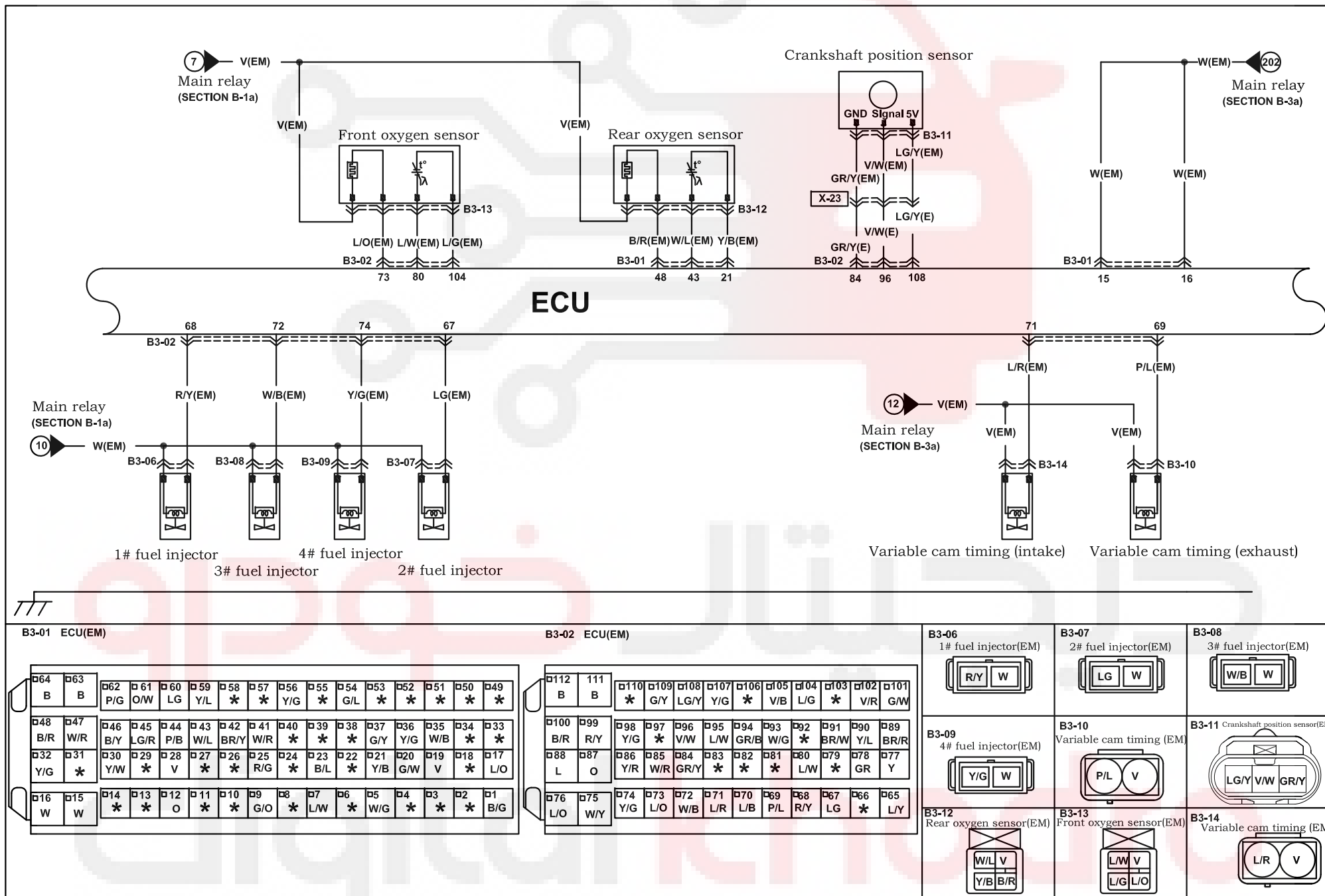
Harness mark: (F) (E) (D) (R)

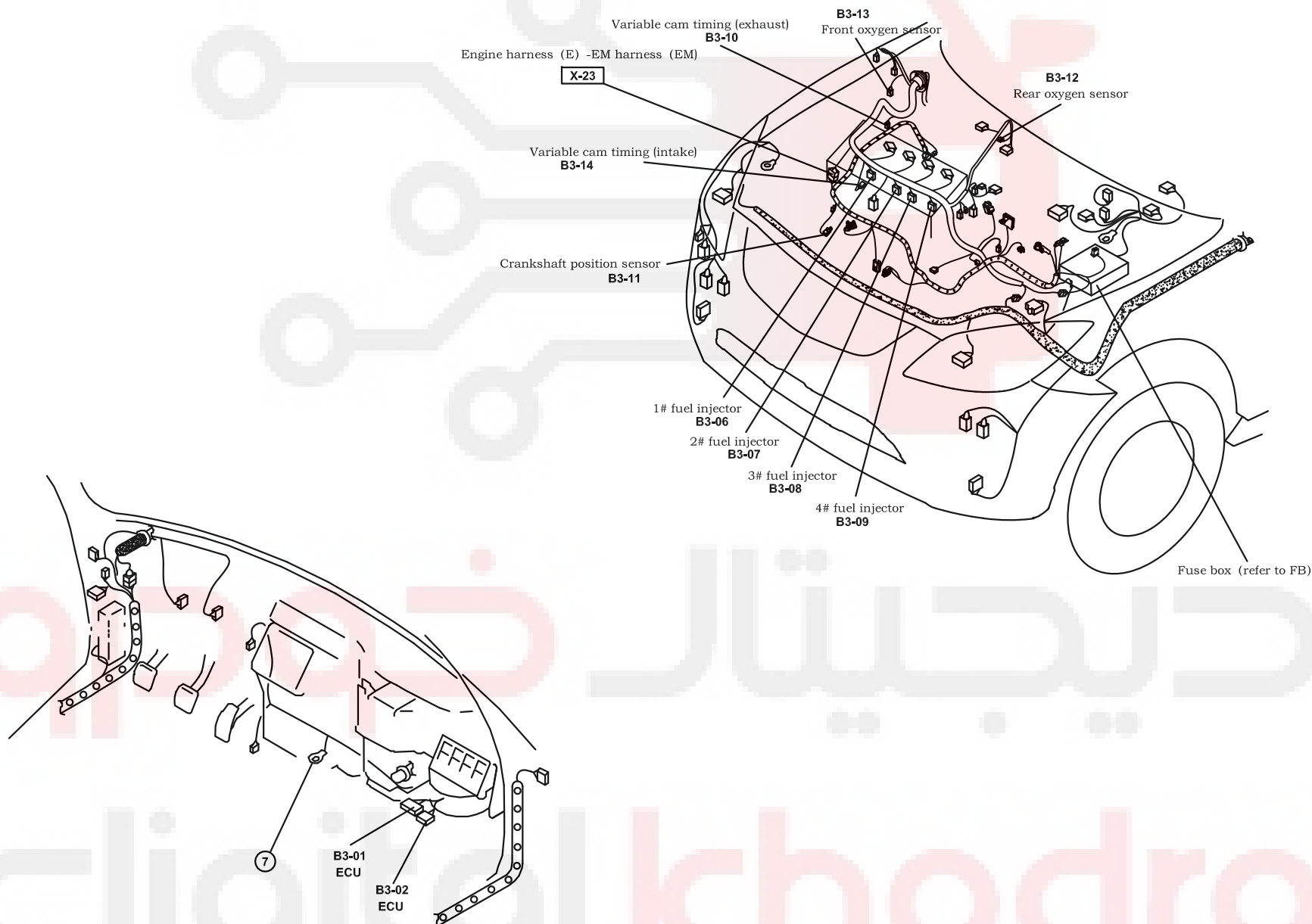


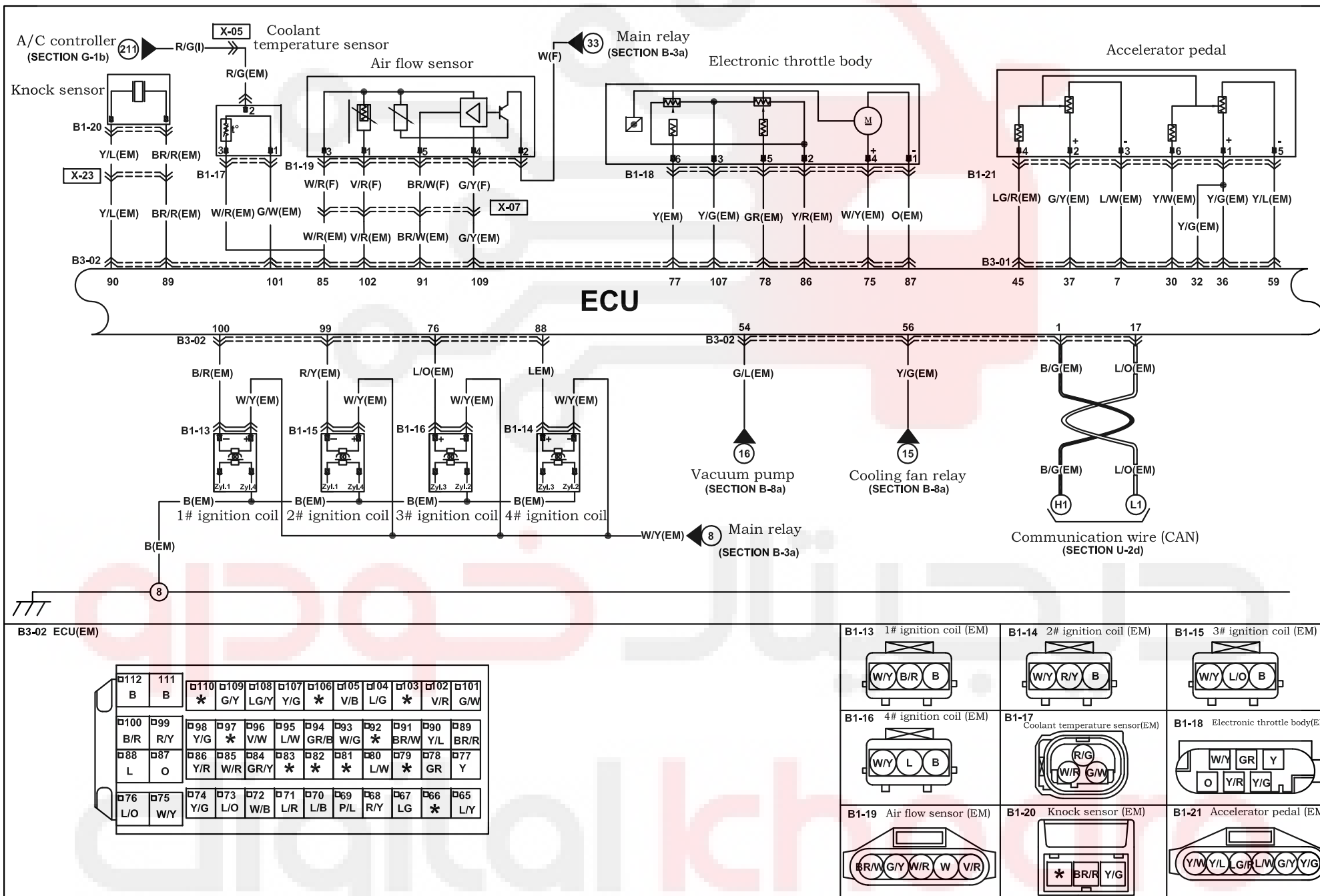


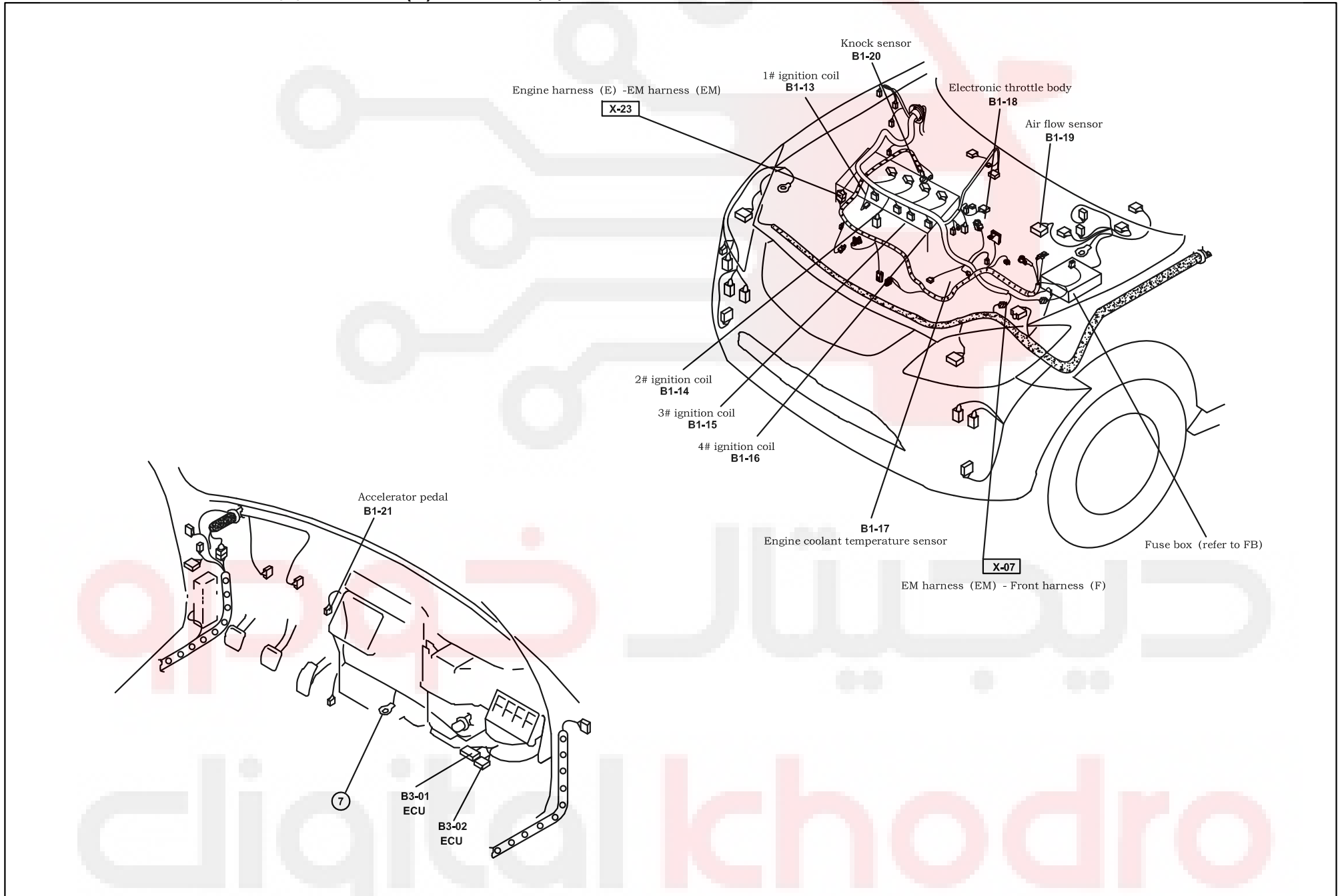


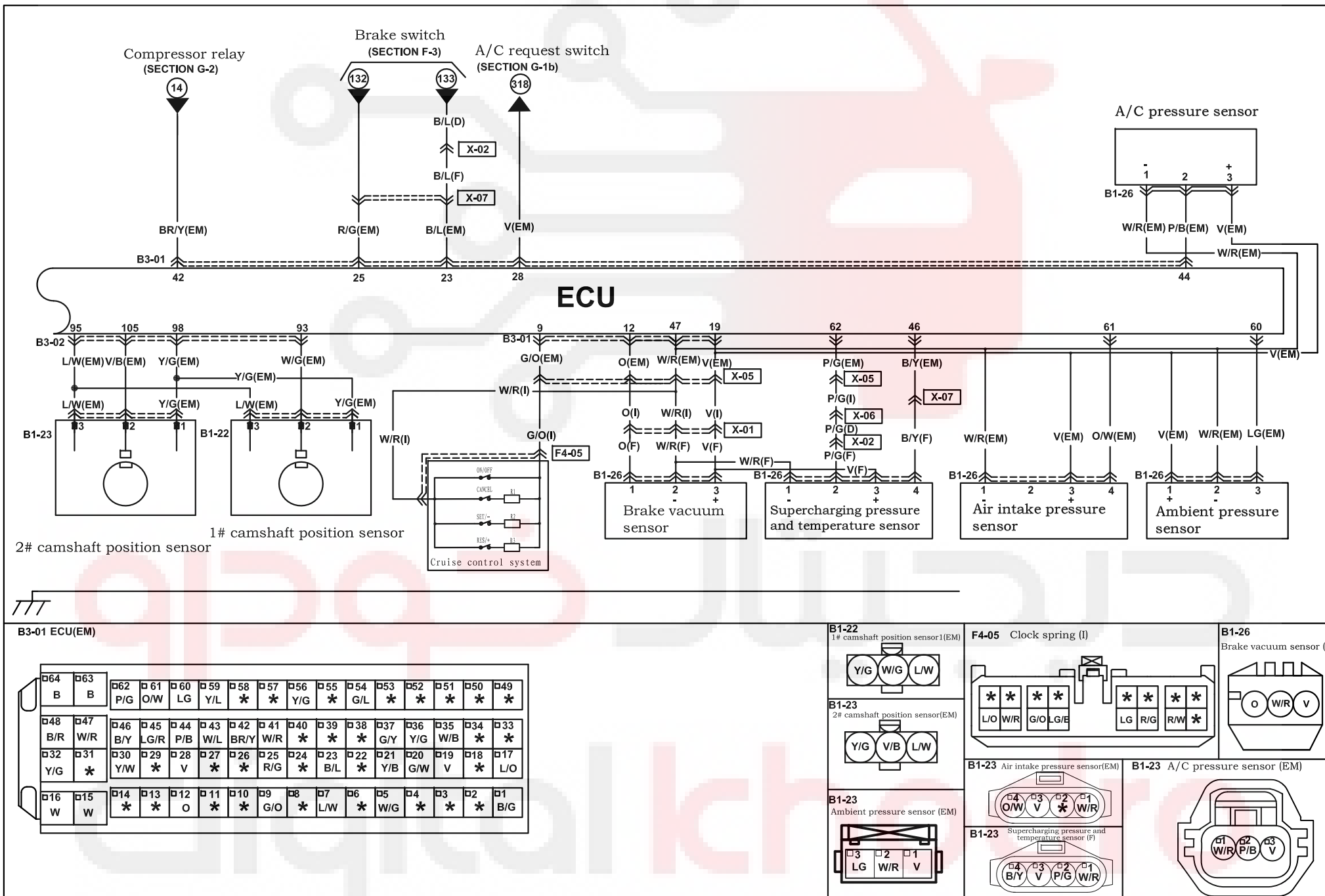


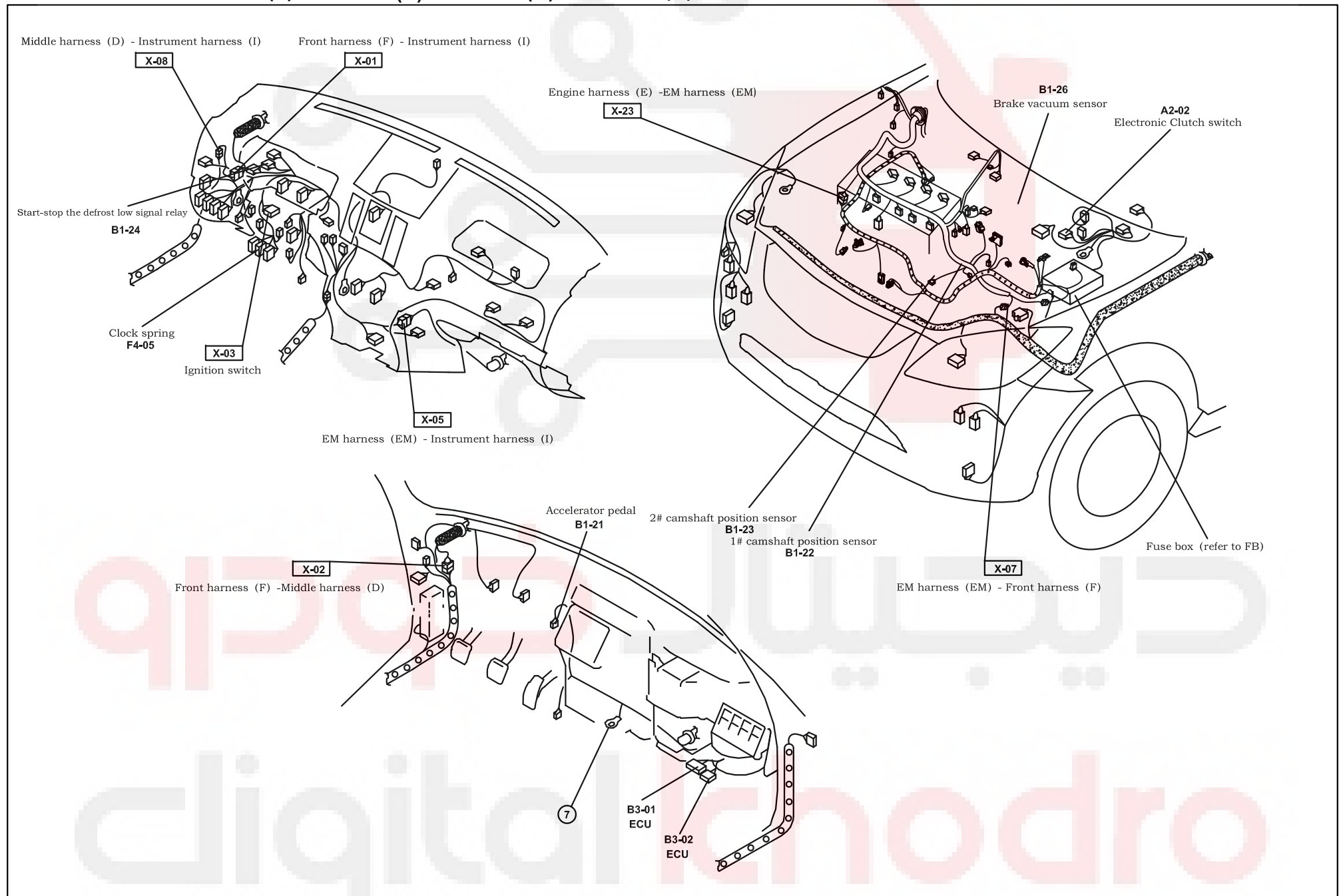






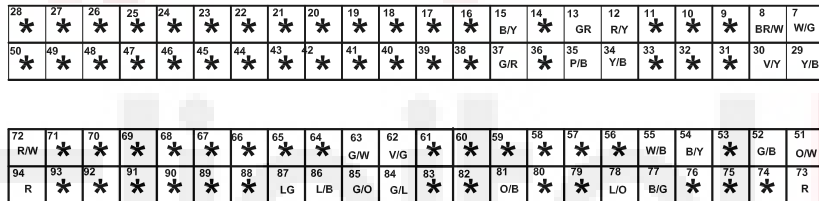






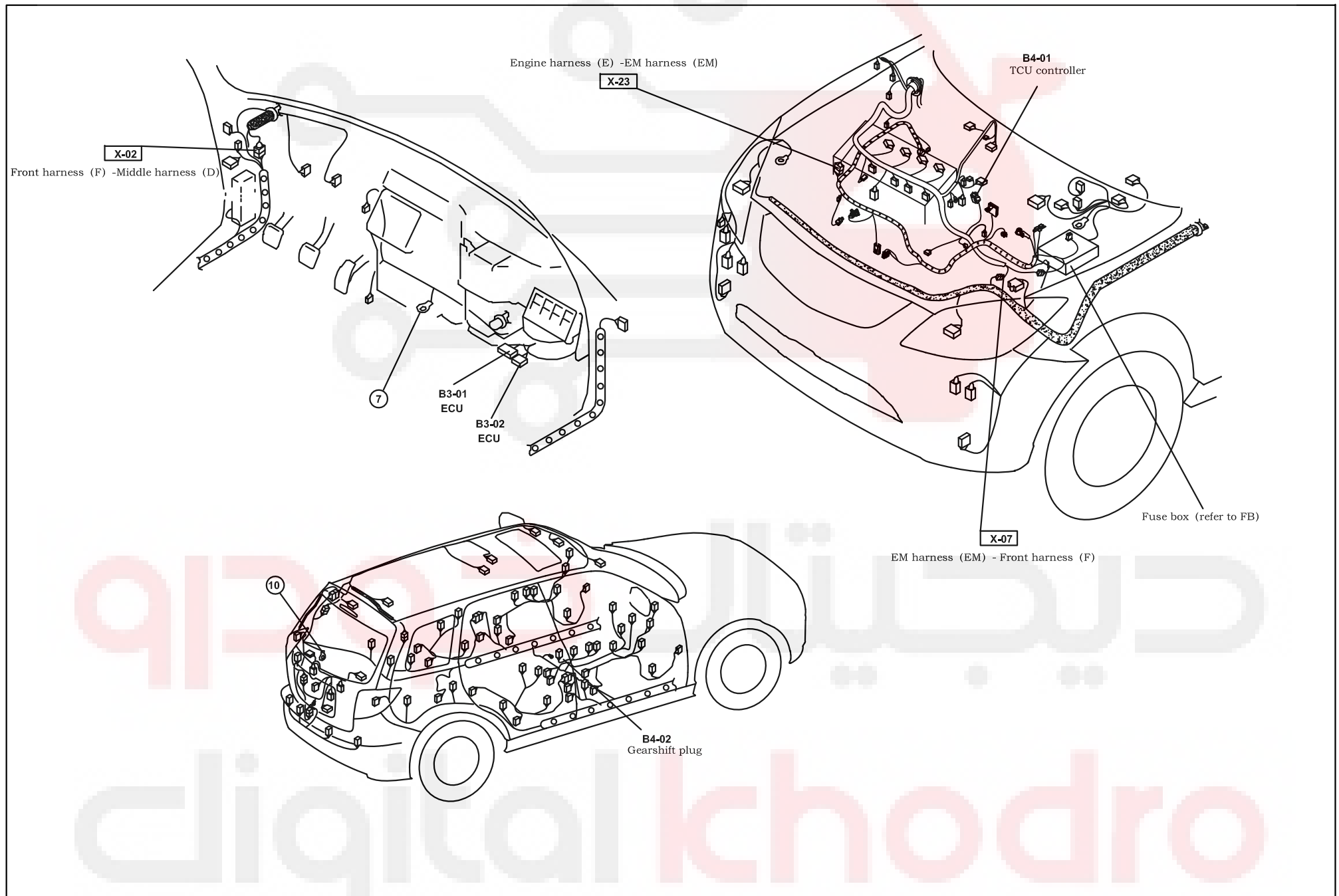


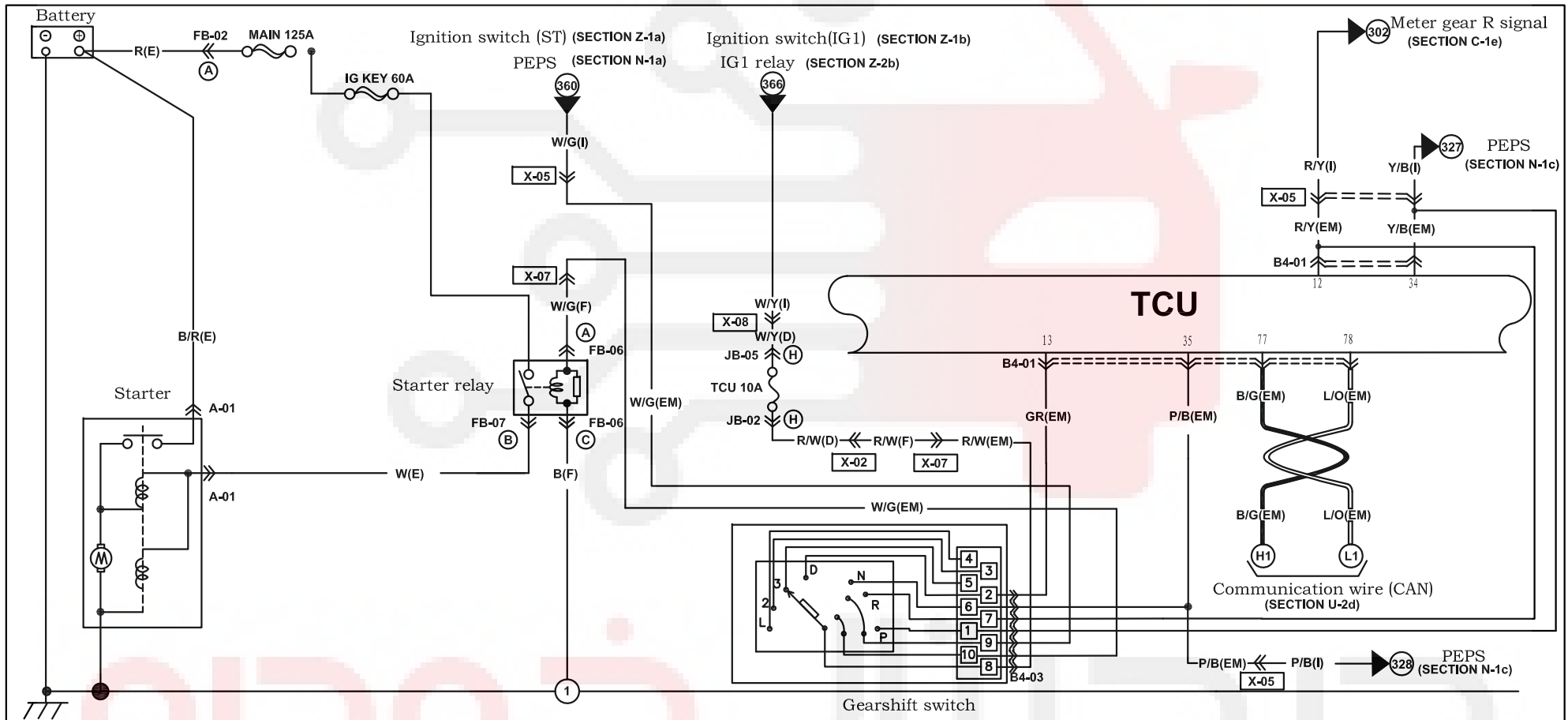
B4-01 TCU(EM)



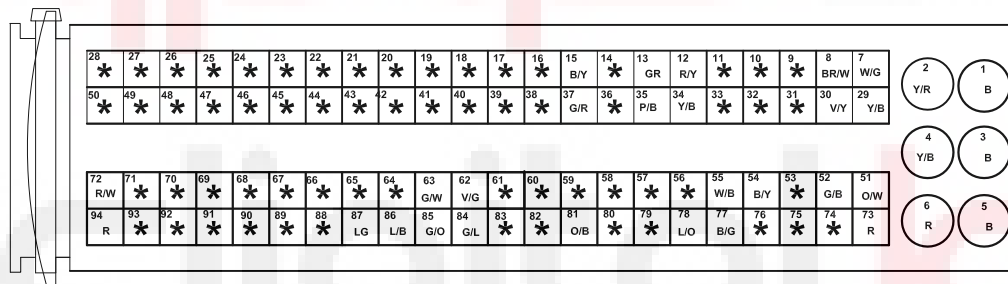
B4-02	Gearshift plug (I)
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G	LG			B	B/Y
H	LG/B	*	G/R	*	O/B

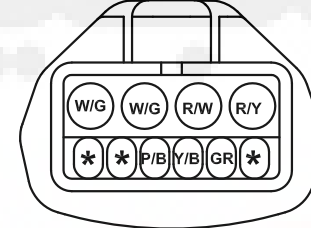


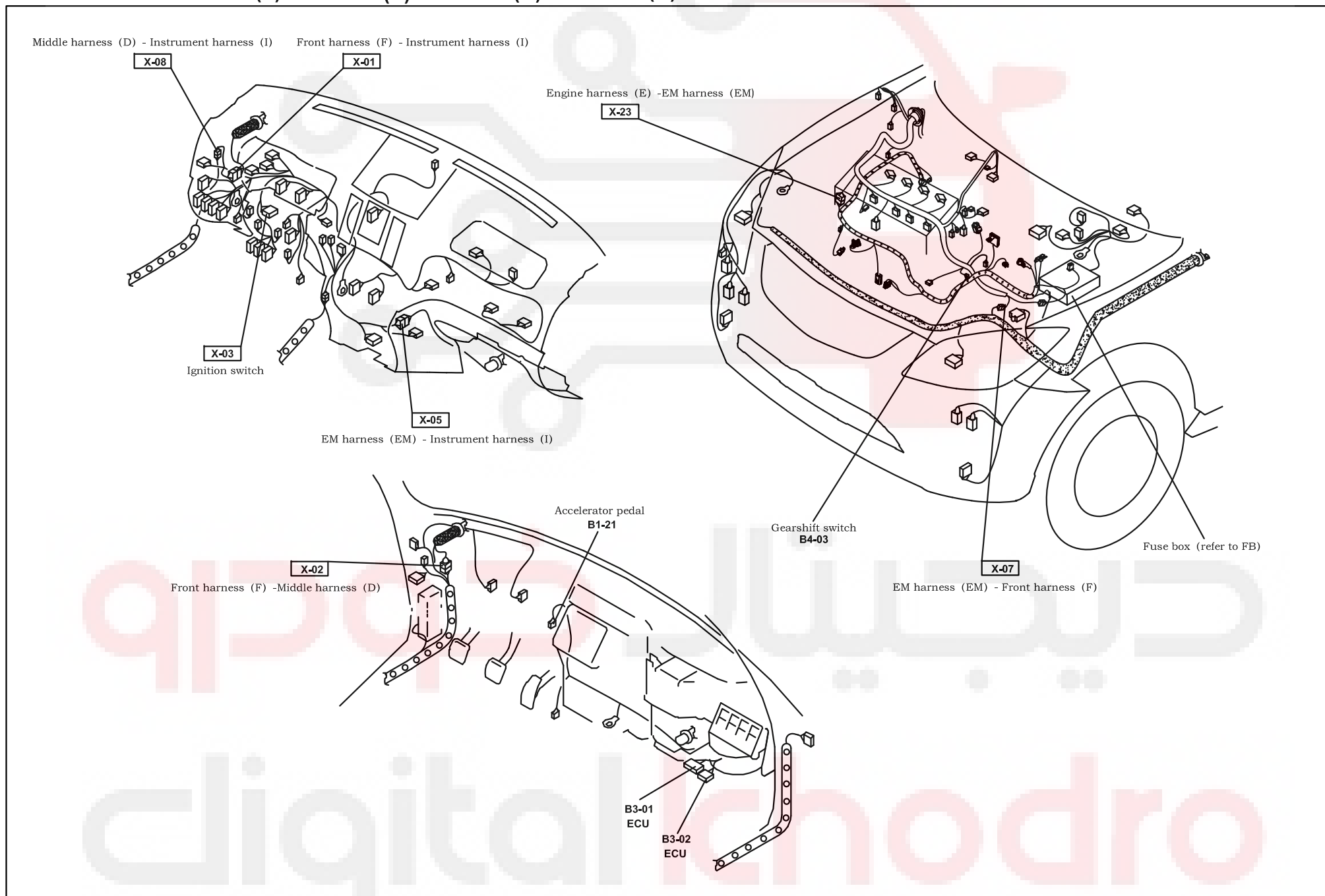


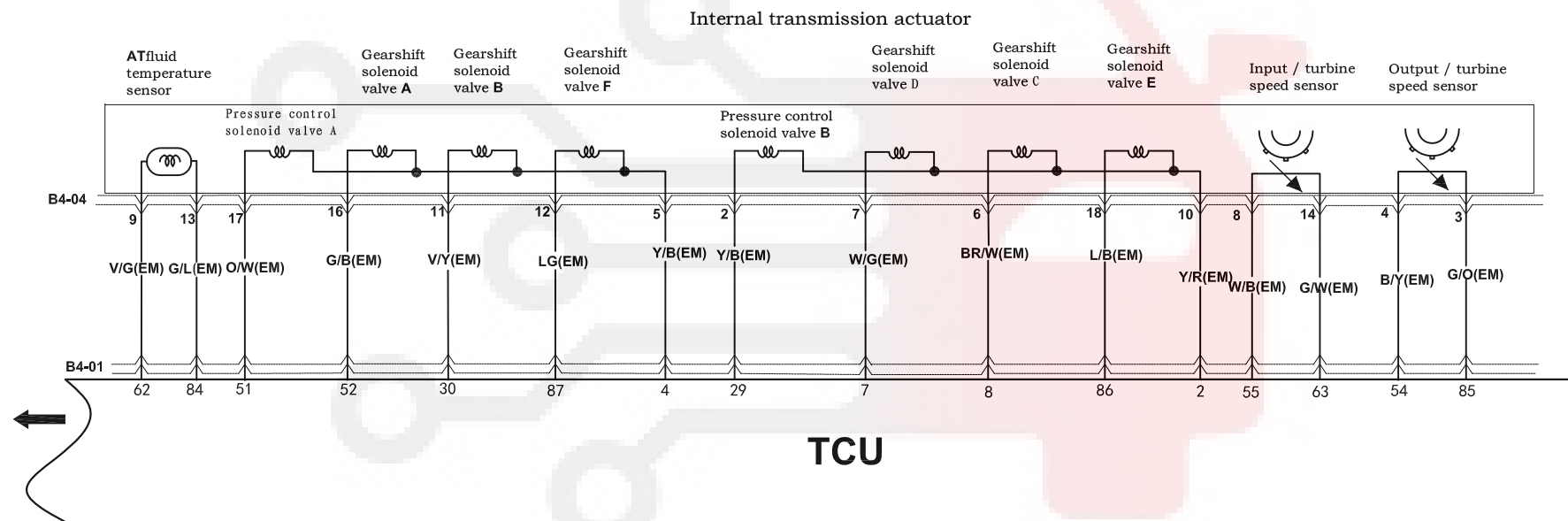
B4-01 TCU(EM)



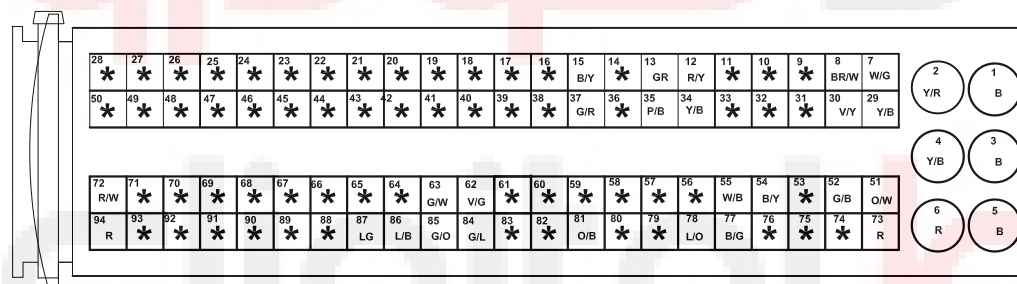
B4-03 Gearshift switch (EM)



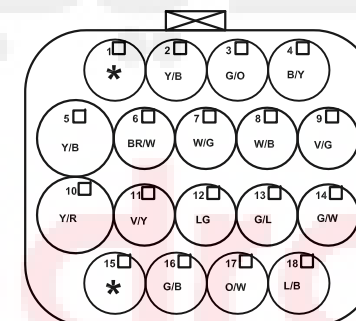


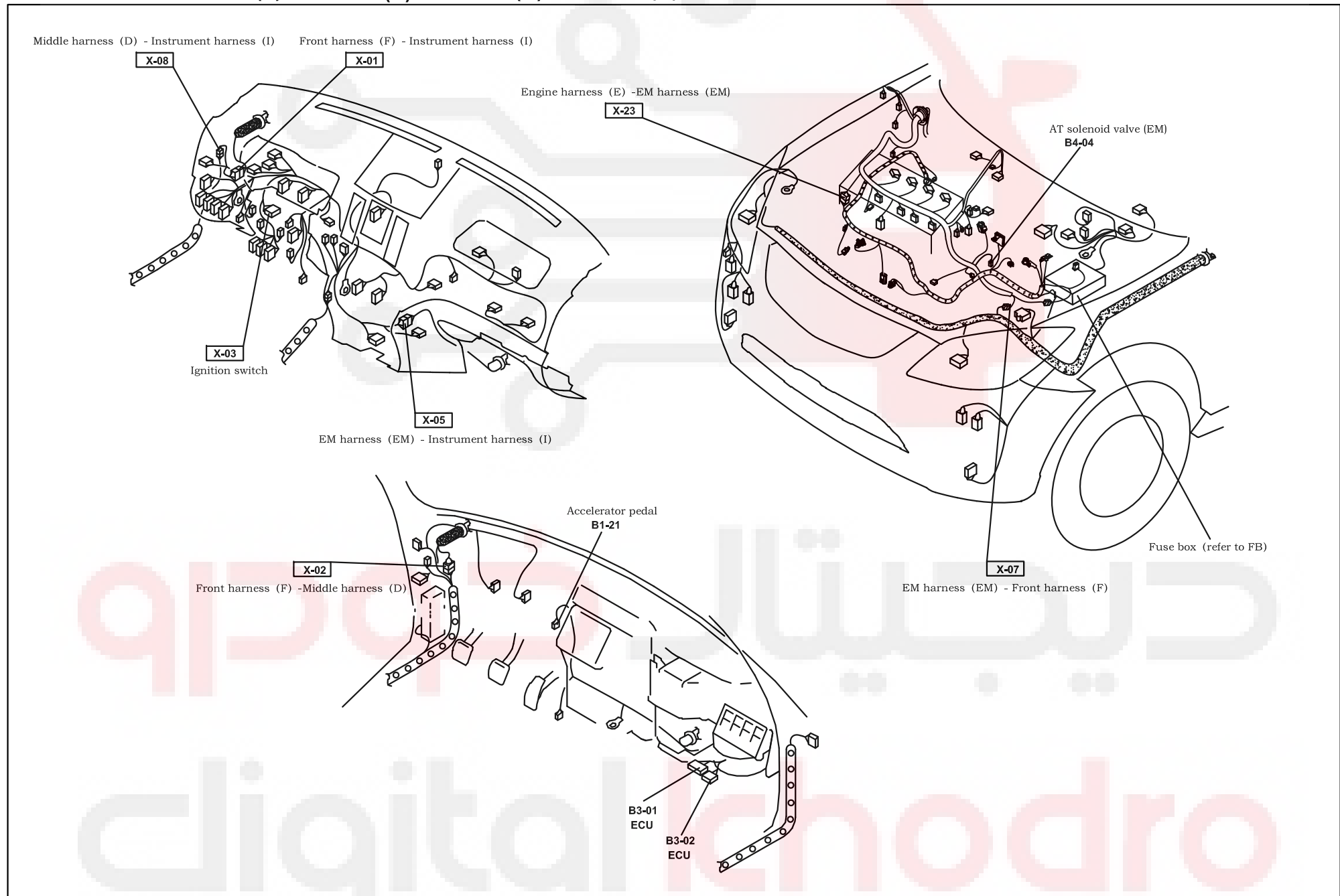


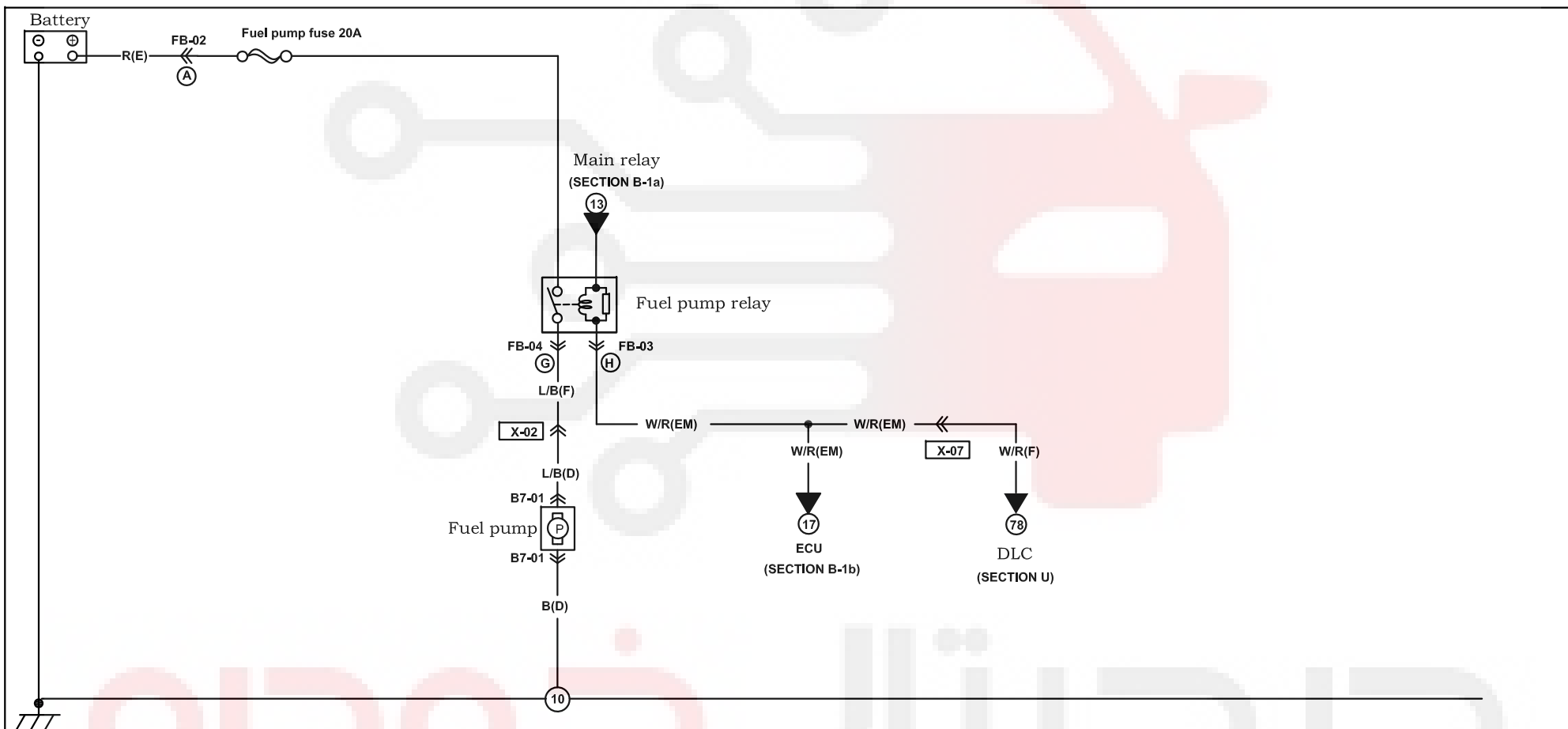
B4-01 TCU(EM)



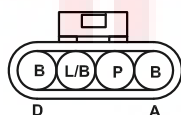
B4-04 AT solenoid valve (EM)

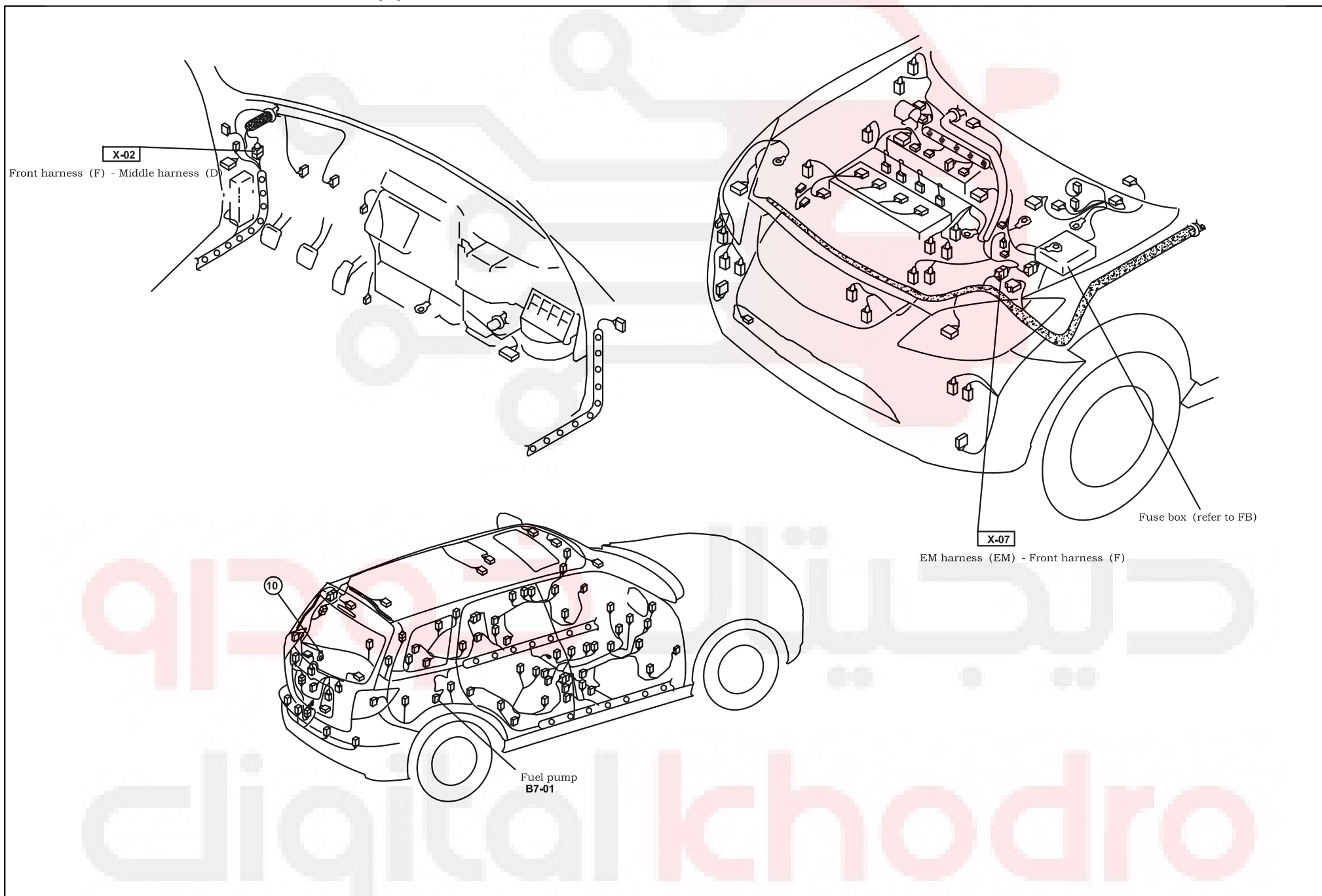


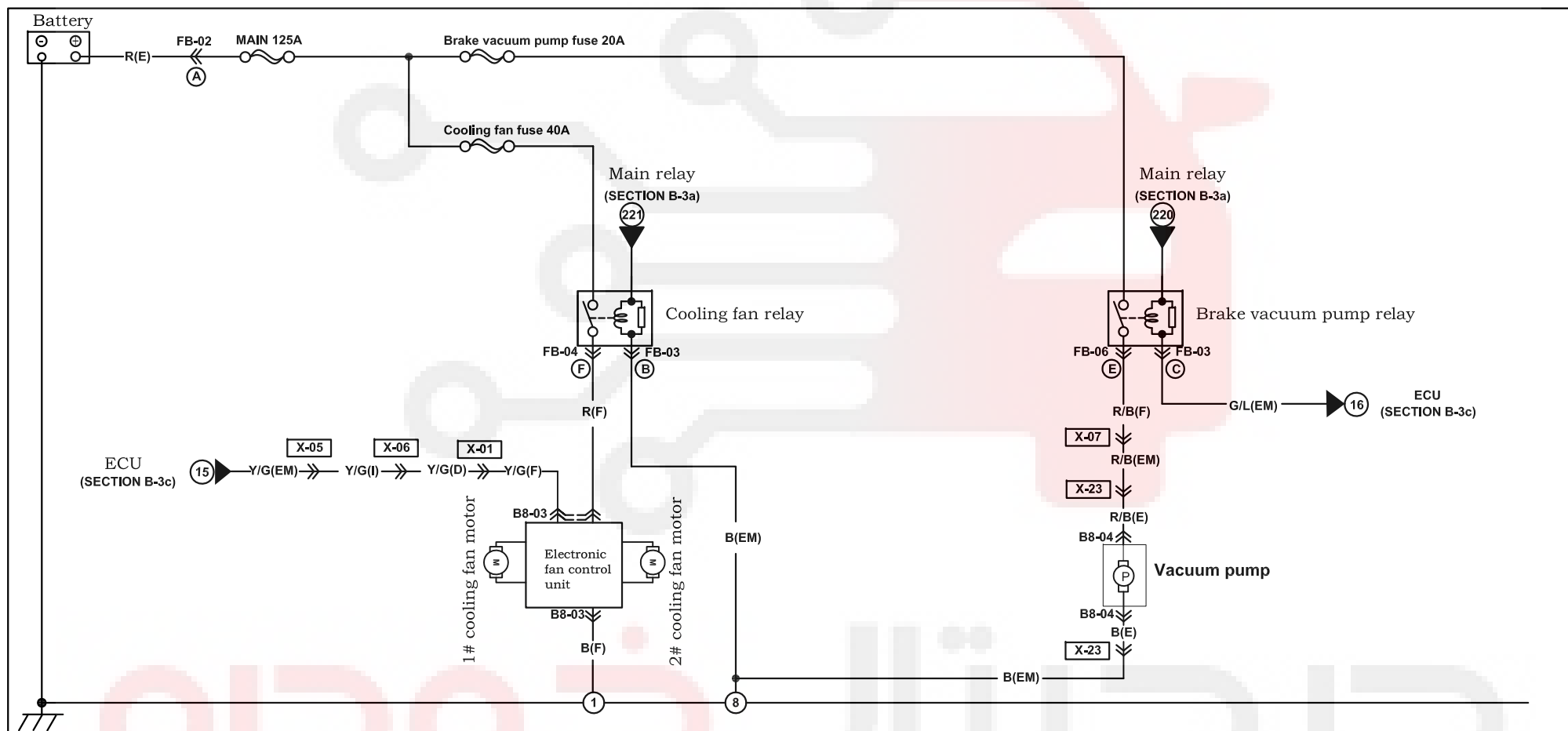




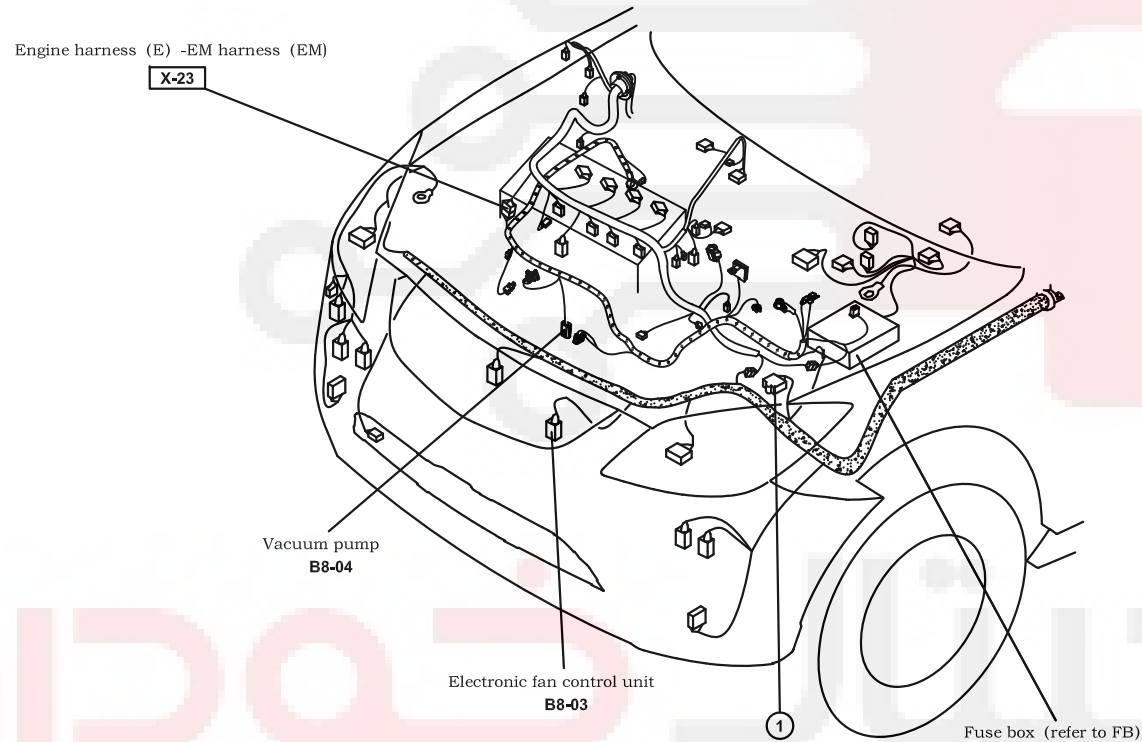
B7-01 Fuel pump (D)

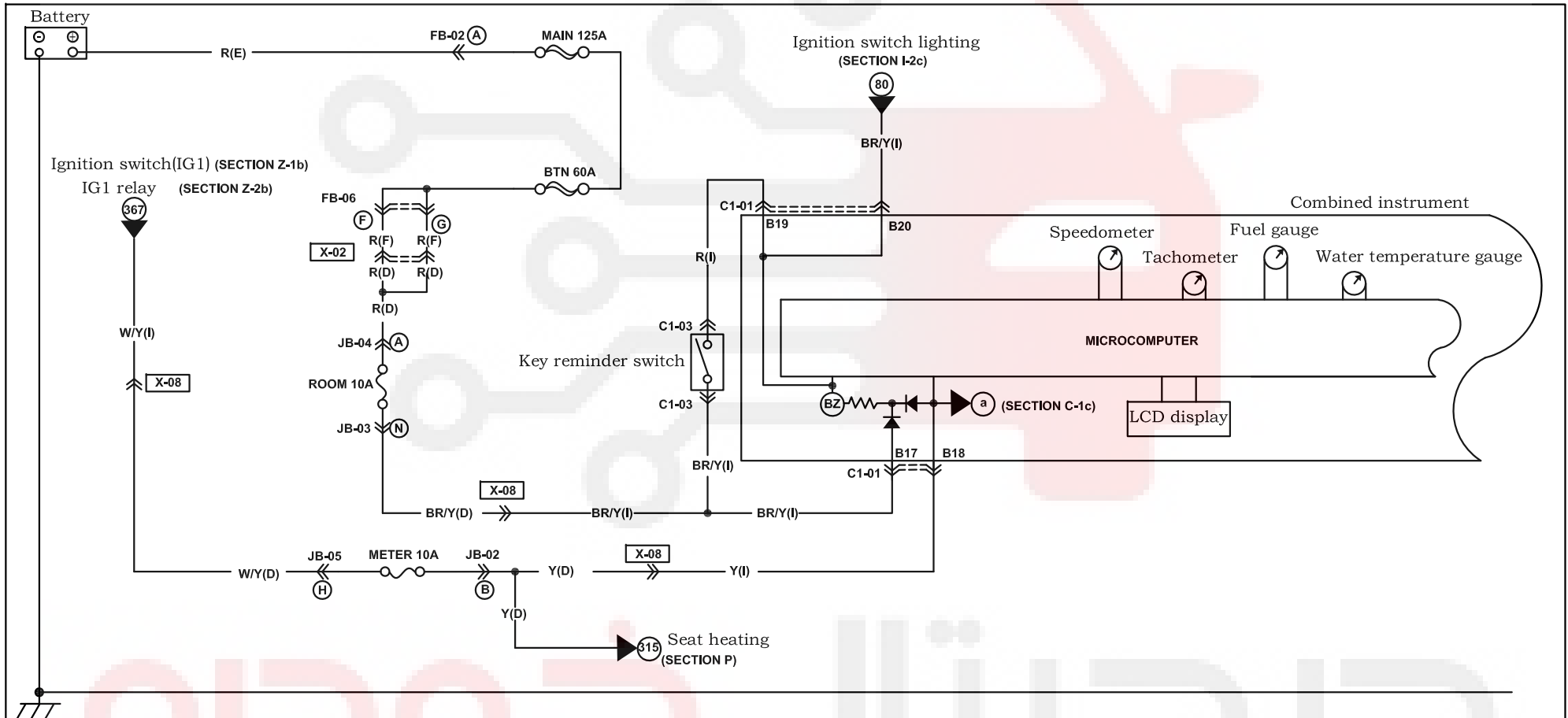






B8-03 Electronic fan control unit(F) 	B8-04 Vacuum pump (E) 					





C1-01 Combined instrument (I)

() with ESP

C1-01 Combined instrument (I)

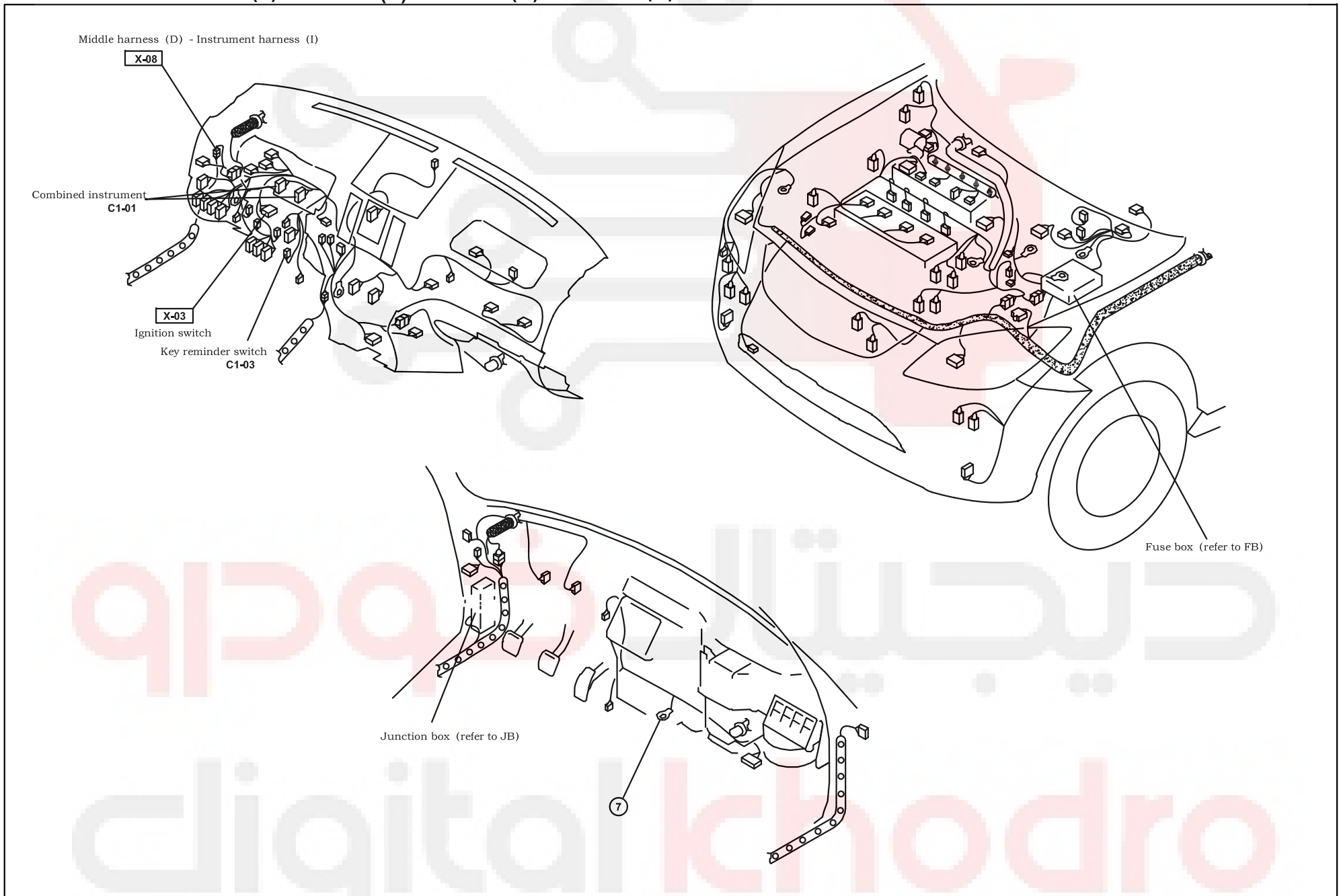
\$ with PEPS
@ with ignition switch

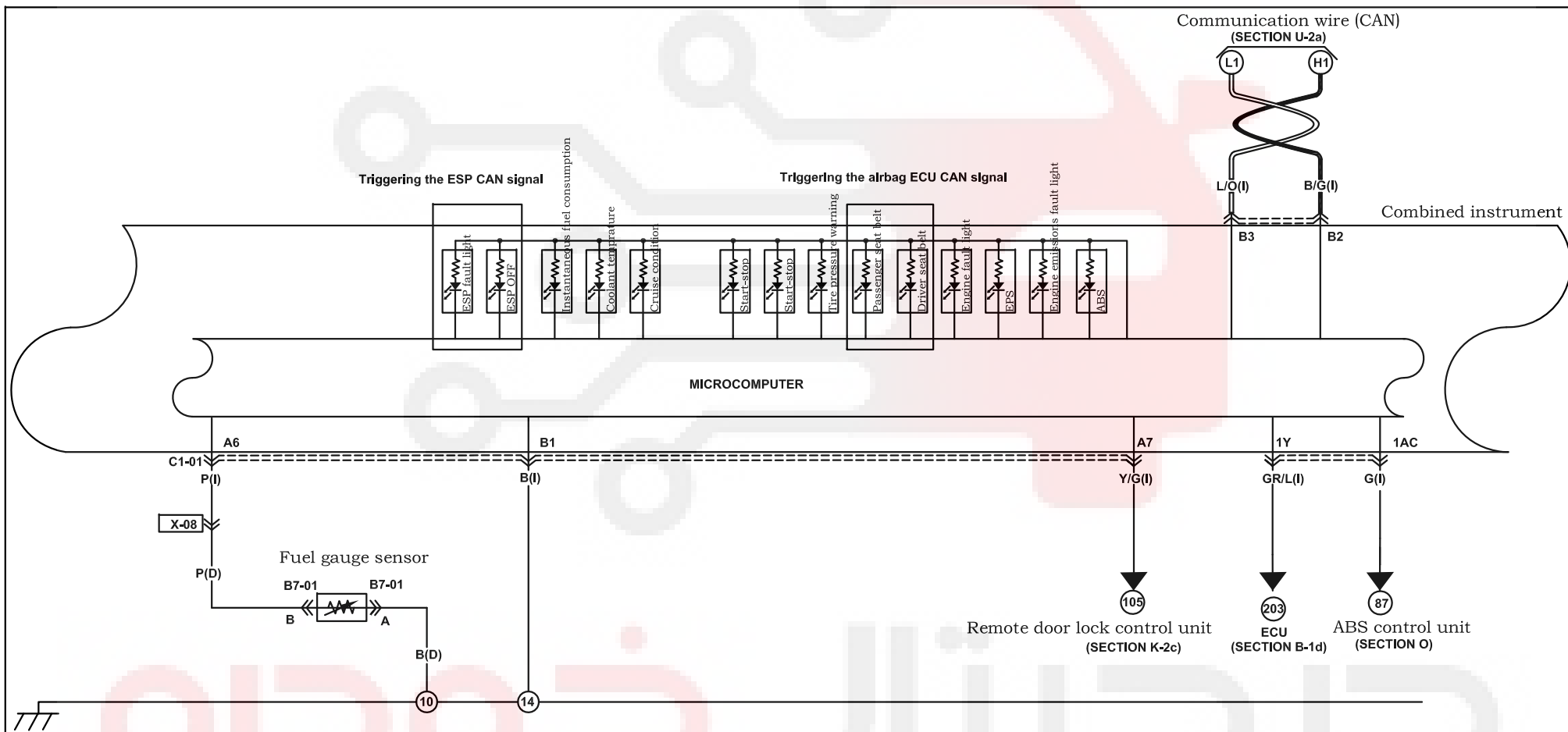
C1-03 Key reminder switch (I)



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

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





C1-01 Combined instrument (I)

() with ESP

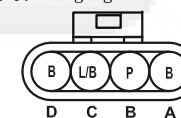
A1	B/Y	B/L	B/W	B/R	R/Y	P	Y/G	*	*	*	*	*	*	*	A16
A17	LG	LG/B	*	*	*	*	*	*	*	*	*	G/B	LG/R	G/W	A32

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	B16
B17	BR/Y	Y	@R	@V/W	BR/E	*	*	*	*	*	*	*	*	*	*	*	B32

B7-01 Fuel gauge sensor (D)

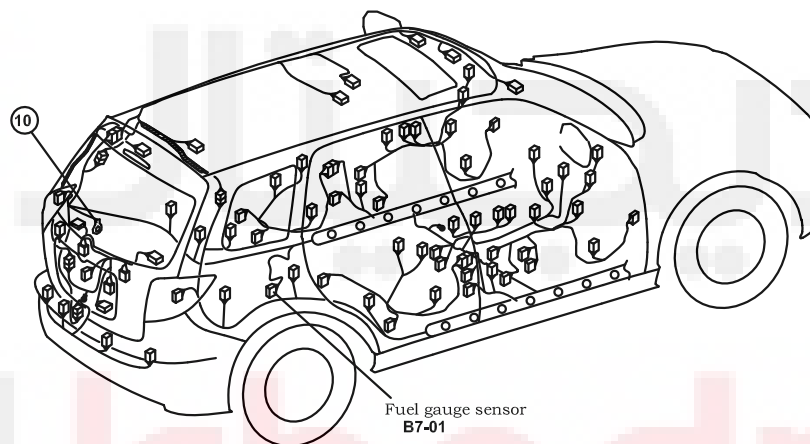


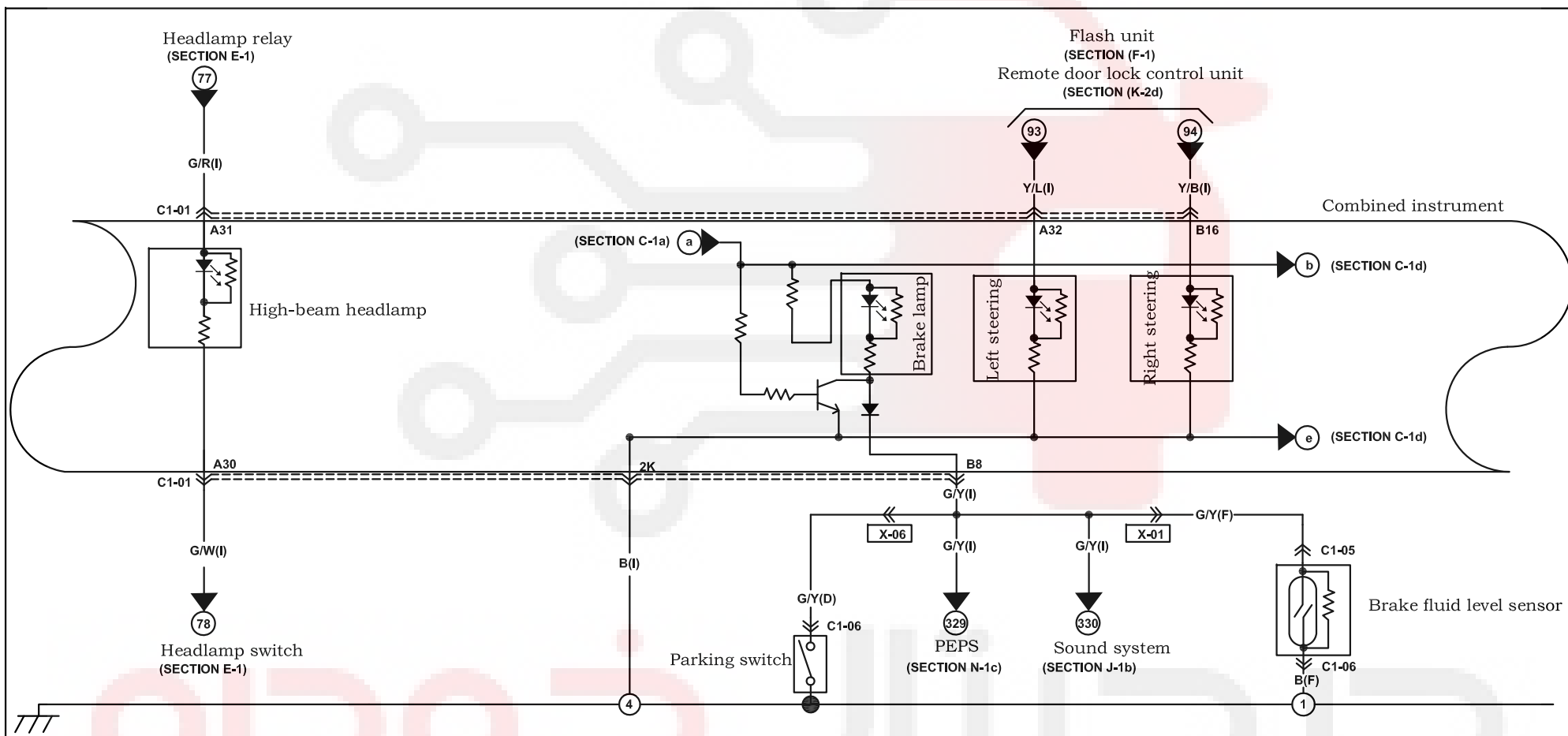
Middle harness (D) - Instrument harness (I)

X-08

Combined instrument
C1-01

4





C1-01 Combined instrument (I)

() with ESP

C1-01 Combined instrument (I)

\$ with PEPS
@ with ignition switch

C1-05 Brake fluid level sensor (F)

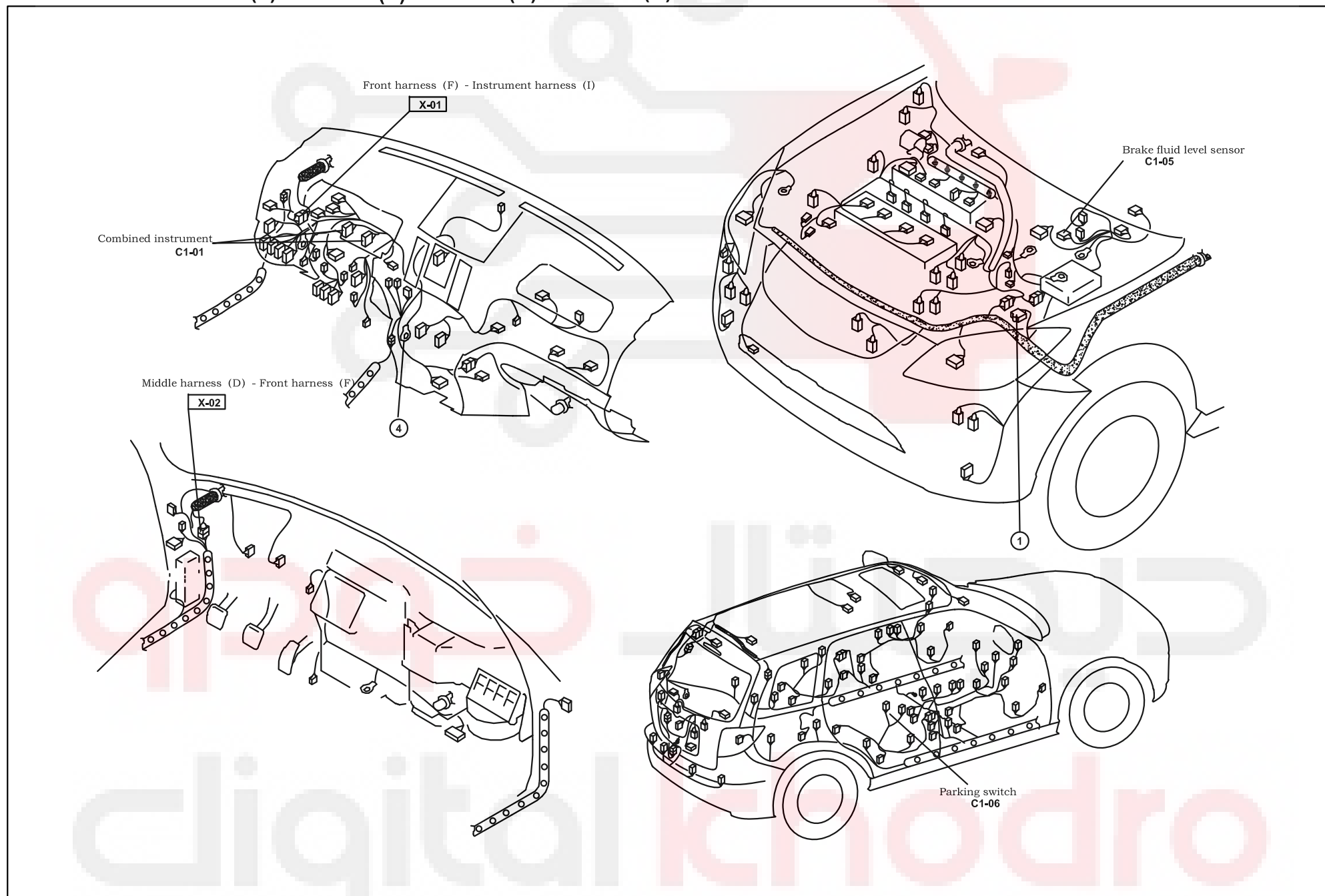


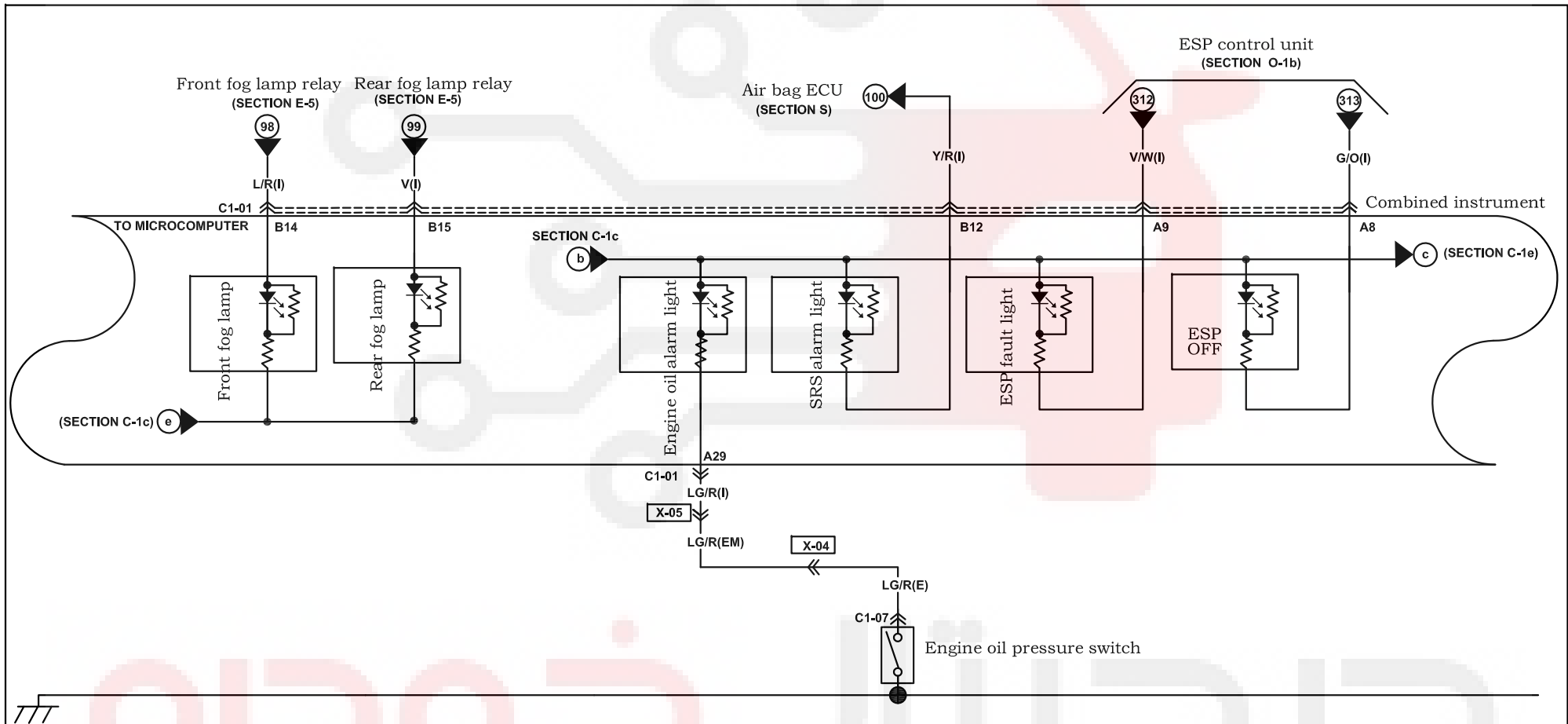
C1-06 Parking switch (D)



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

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





C1-01 Combined instrument (I)

() with ESP

A1

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

A17

C1-01 Combined instrument (I)

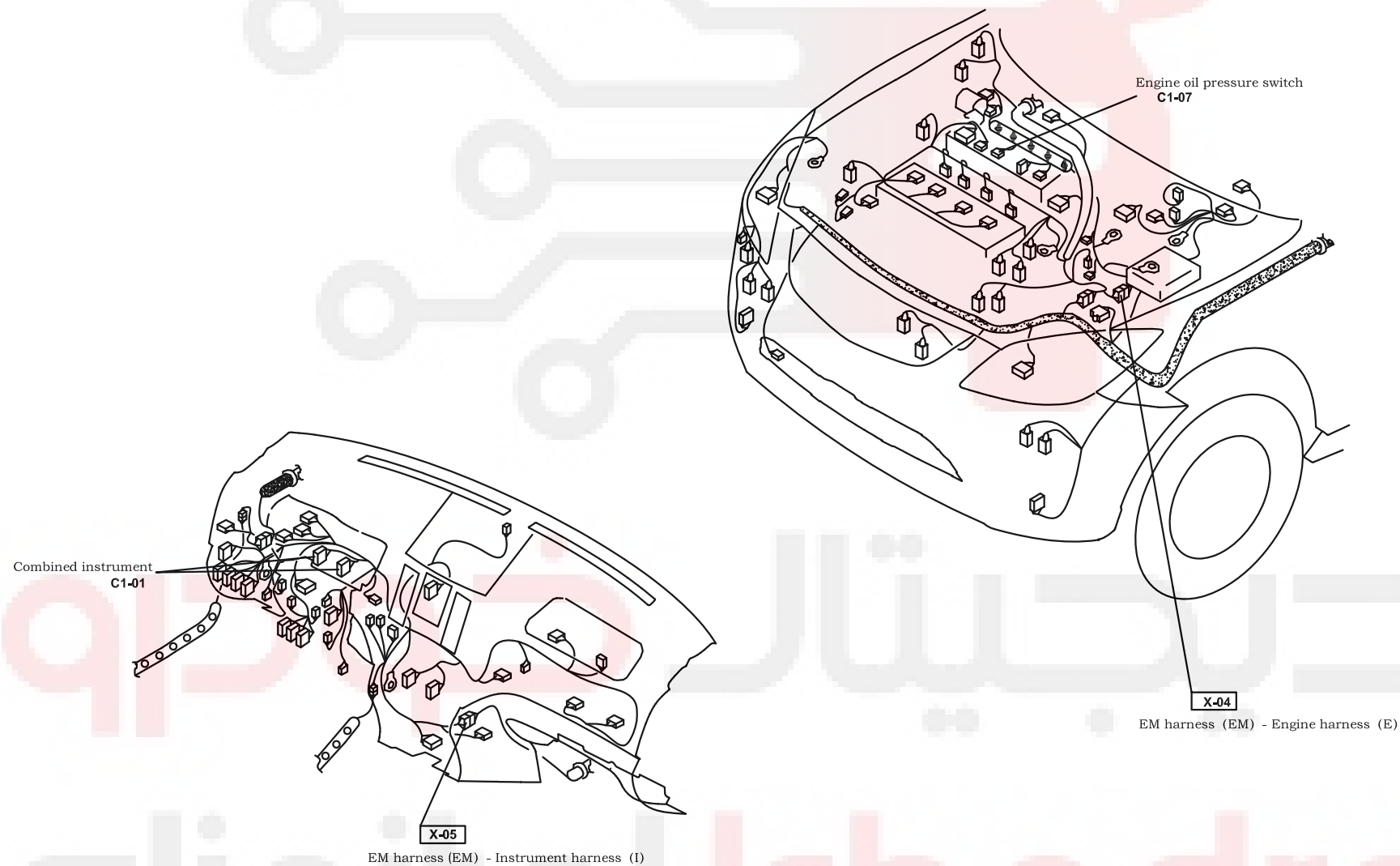
\$ with PEPS
@ with ignition switch

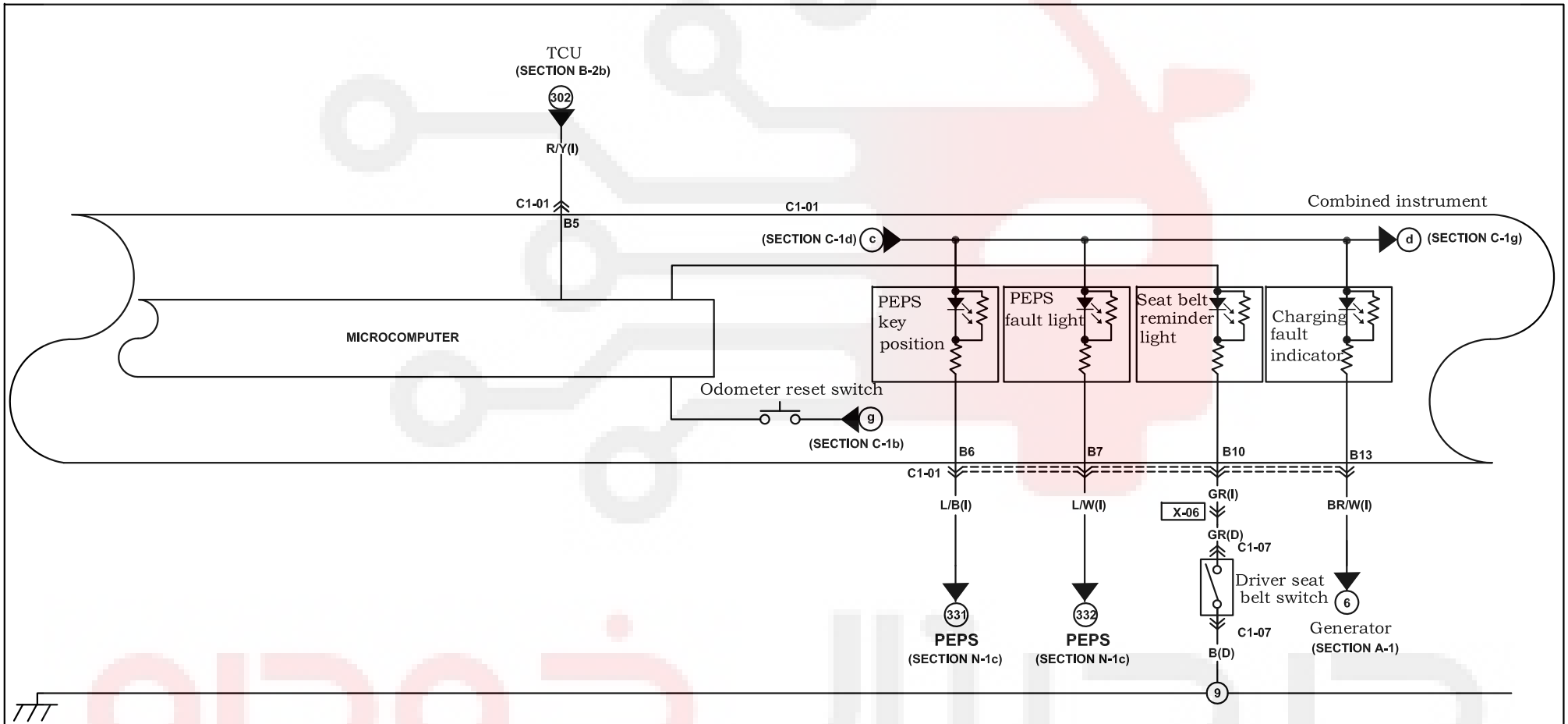
B1

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
BR/Y	Y	@R	@V/W	BR/E	*	*	*	*	*	*	*	*	*	*	*	*

B17

C1-07 Engine oil pressure switch(E)





C1-01 Combined instrument (I)

() with ESP

C1-01 Combined instrument (I)

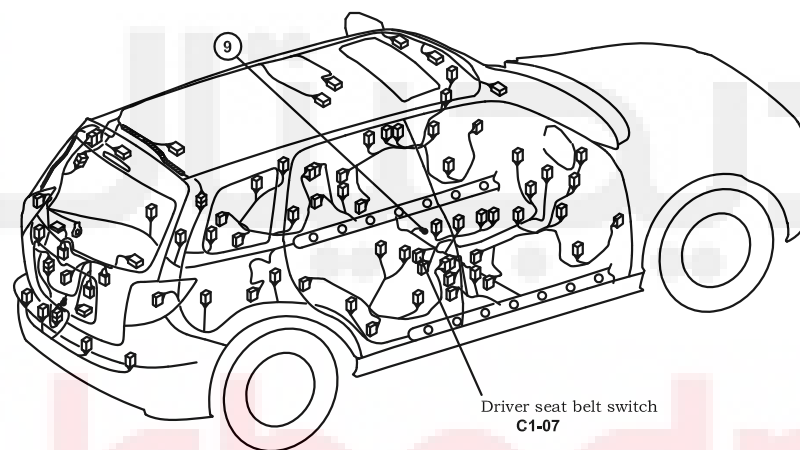
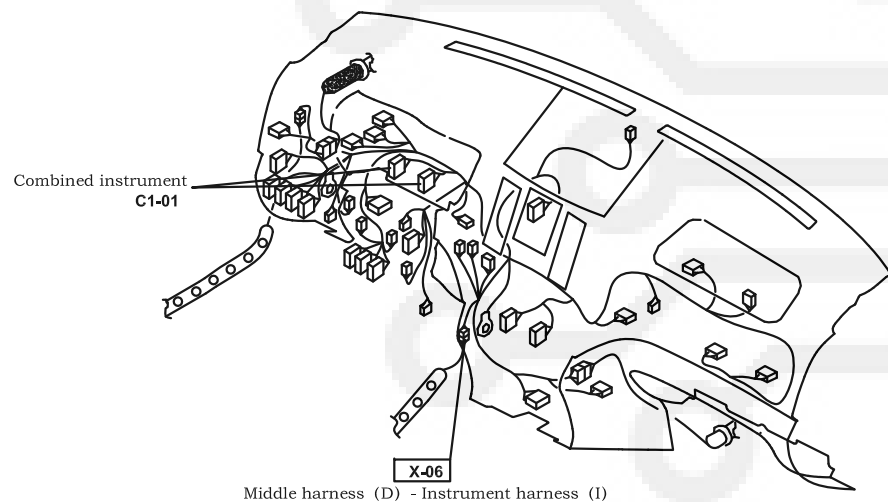
\$ with PEPS
@ with ignition switch

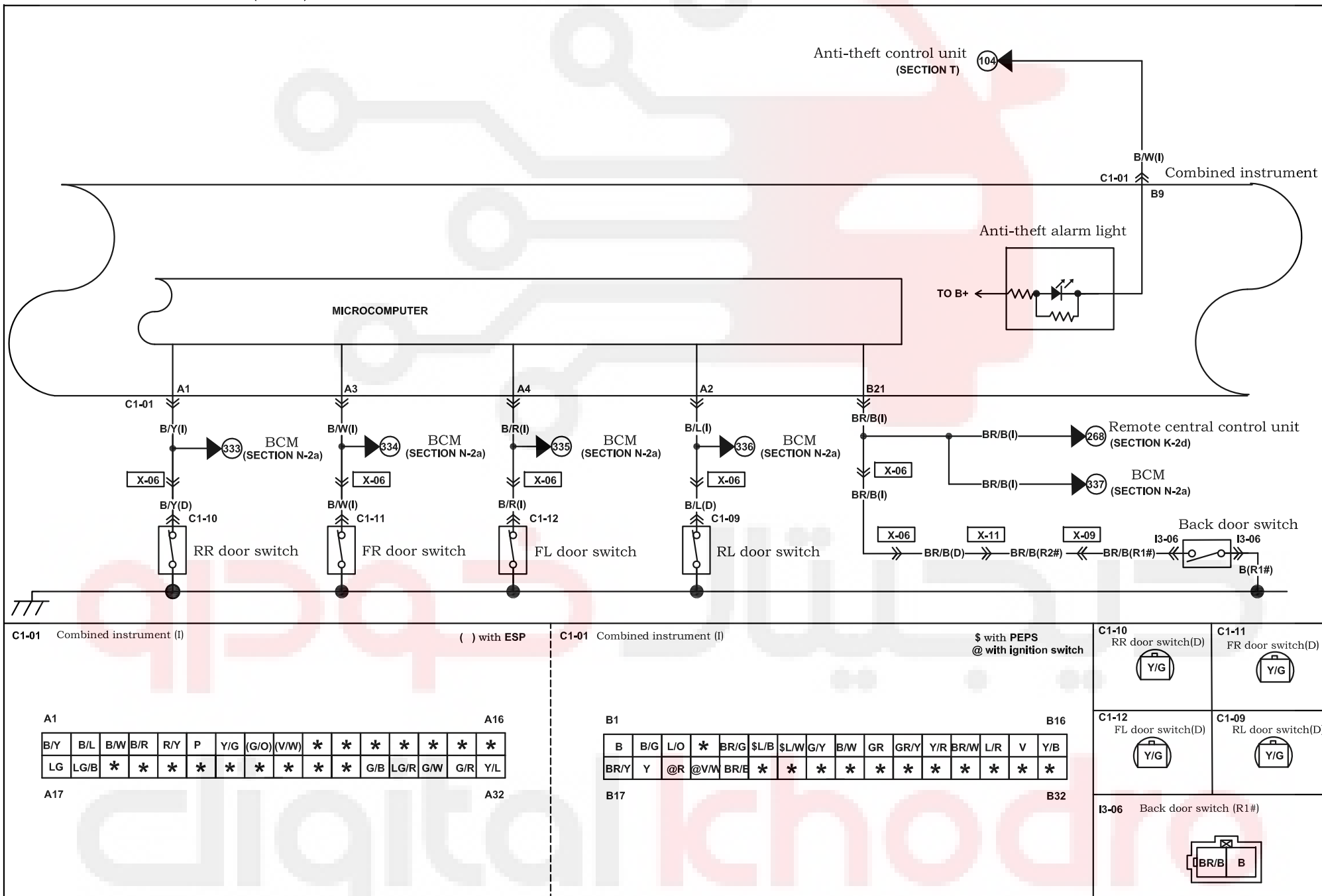
C1-07 Driver seat belt switch (D)

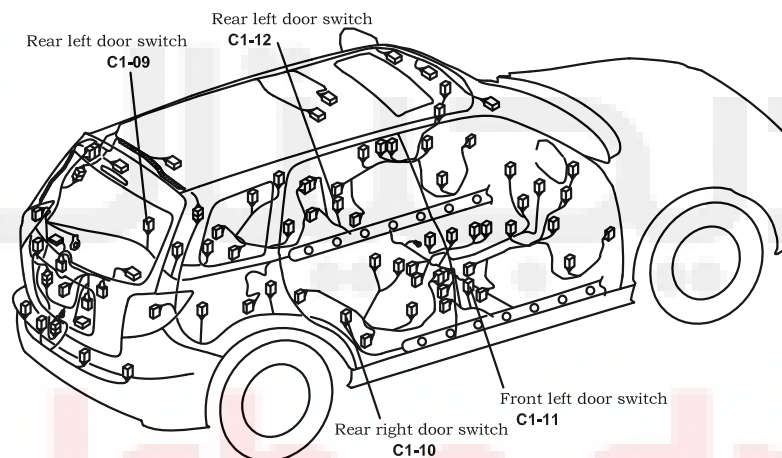
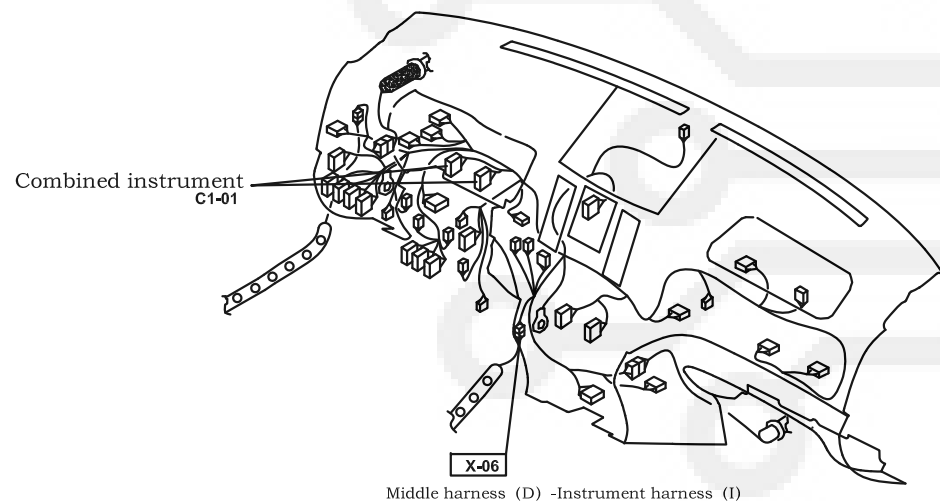


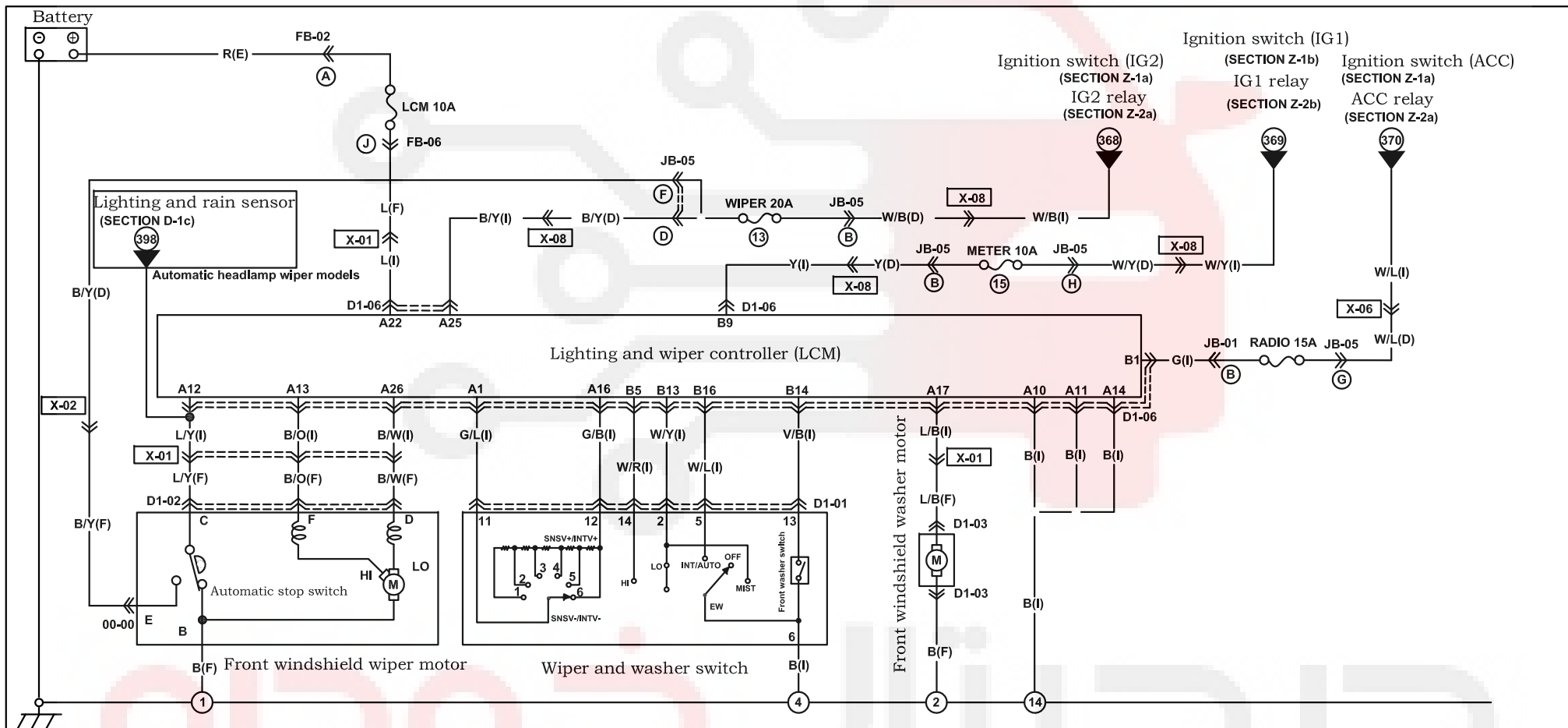
A1	B/Y	B/L	B/W	B/R	R/Y	P	Y/G	(G/O)	(V/W)	*	*	*	*	*	*	A16
A17	LG	LG/B	*	*	*	*	*	*	*	*	*	G/B	LG/R	G/W	G/R	Y/L
A17	A32															A32

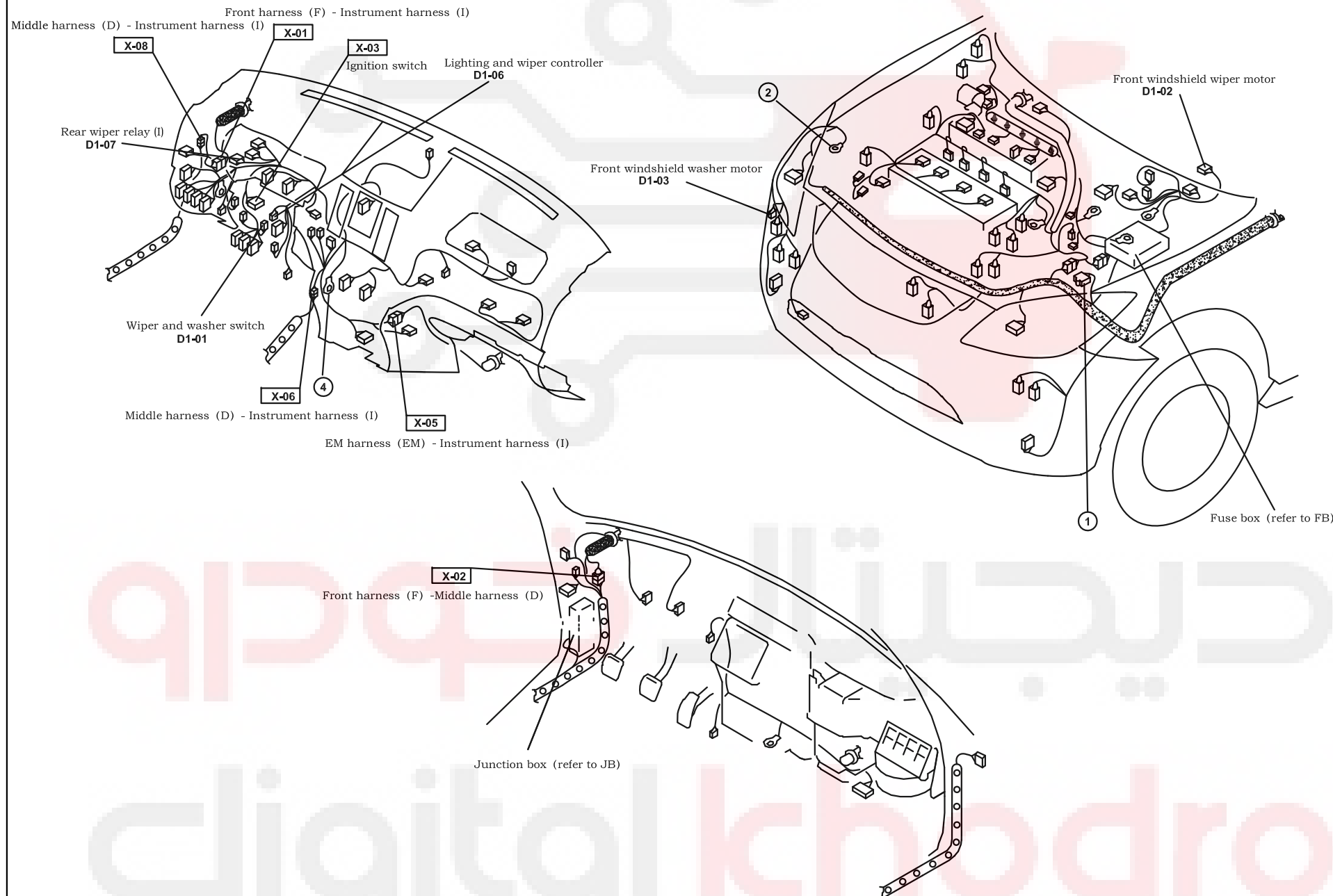
B1															B16		
B	B/G	L/O	*	BR/G	\$L/B	\$L/W	G/Y	B/W	GR	GR/Y	Y/R	BR/W	L/R	V	Y/B		
BR/Y	Y	@R	@V/W	BR/E	*	*	*	*	*	*	*	*	*	*	*		
B17															B32		

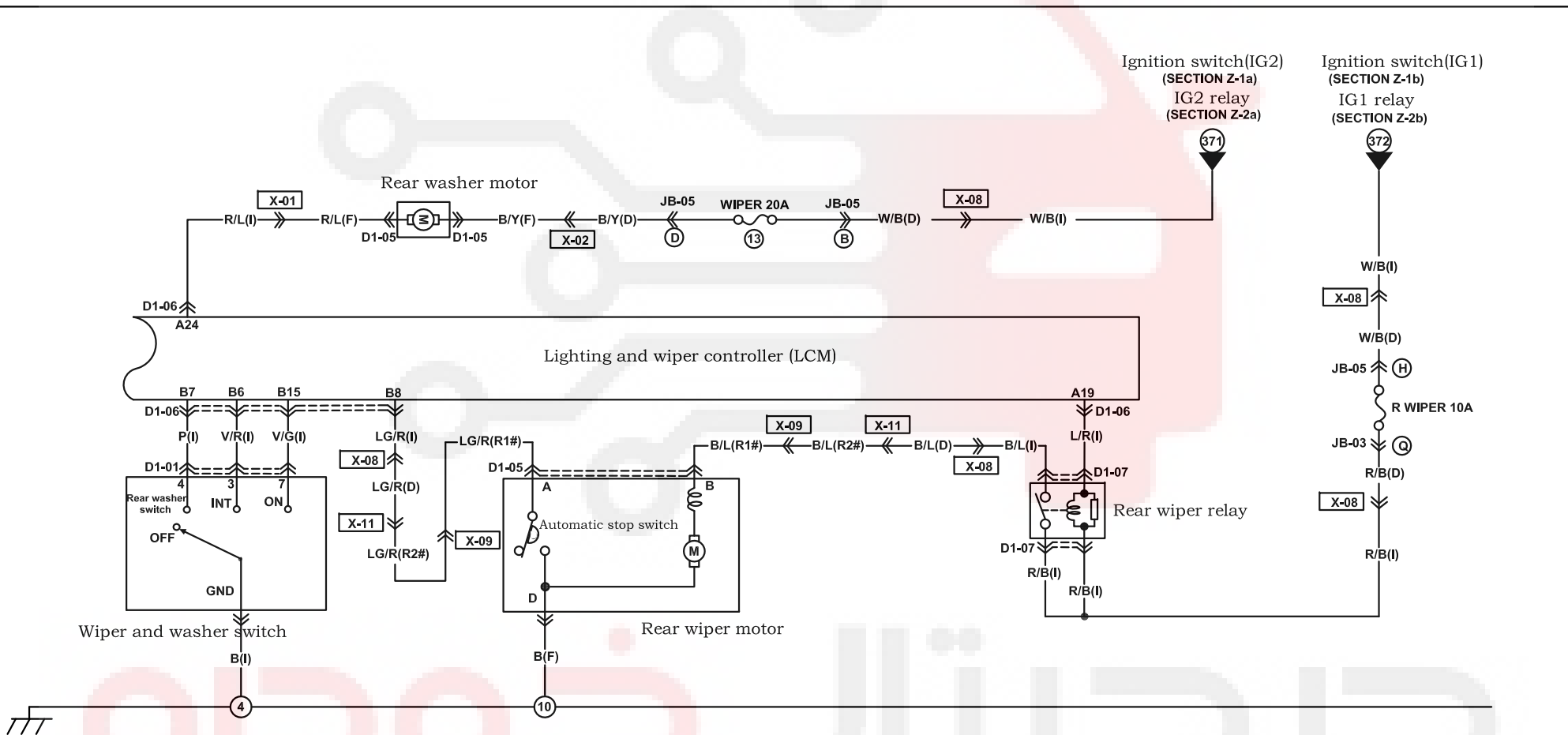












D1-01 Wiper and washer switch (I)

8								1
*	V/G	B	W/L	P	V/R	W/Y	*	
*	*	W/R	V/B	G/B	G/L	*	*	
16								9

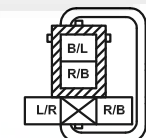
D1-04 Rear-window wiper motor

*	LG/R
B	B/L

D1-05 Rear-window washer motor (F)

B/Y
R/L

D1-07 Rear wiper relay (I)

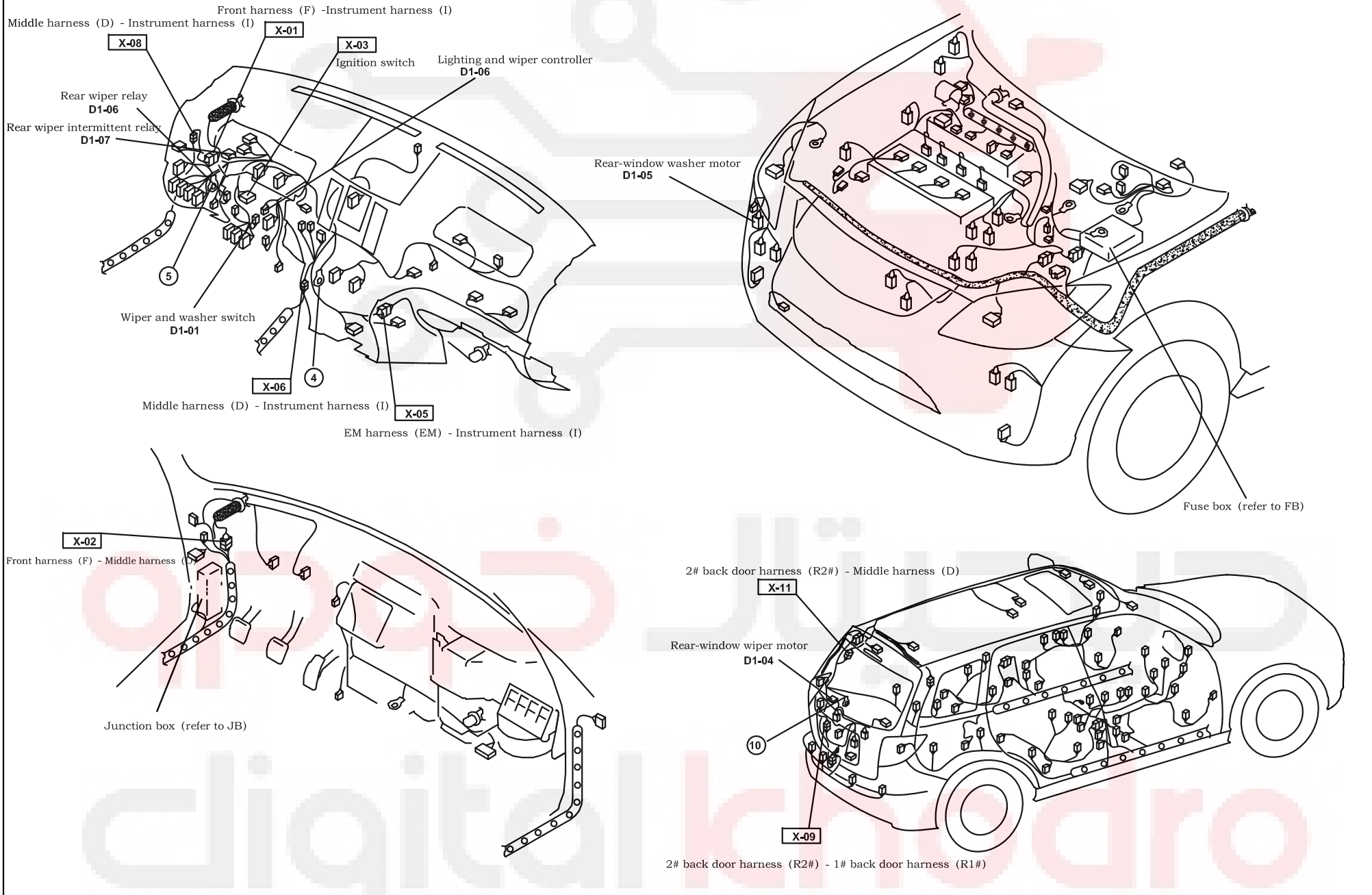


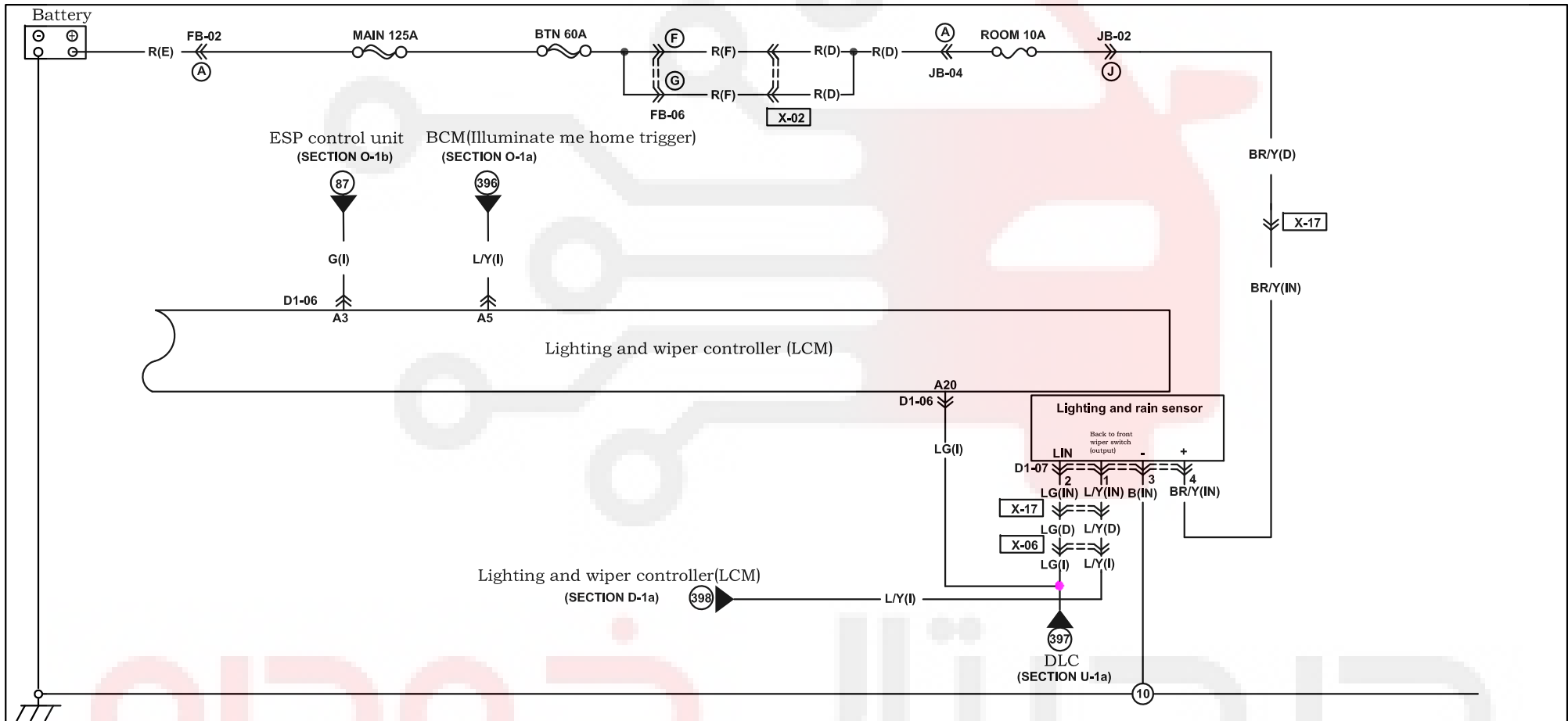
D1-06 Lighting and wiper controller (I)

A13	B/O	L/Y	B	B	L/O	Y/G	L/G	P/L	*	BR	*	G/O	G/L	A1
A26	B/W	B/Y	R/L	V	L	GR	*	L/R	LG/R	L/B	G/B	G/W	B	A14

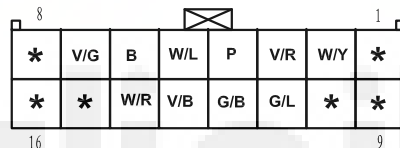
D1-06 Lighting and wiper controller (I)

B1	G	L	L/Y	L/R	W/R	V/R	P	LG/R	B8
B9	Y	L/B	LG	L/W	W/Y	V/B	V/G	W/L	B16

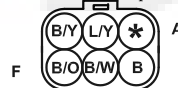




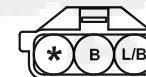
D1-01 Wiper and washer switch (I)



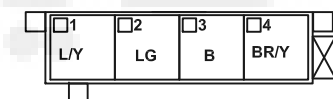
D1-02 Front windshield wiper motor (F)



D1-03 Front windshield washer motor (F)



D1-07 Lighting and rain sensor (IN)

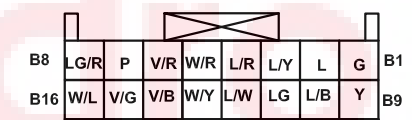


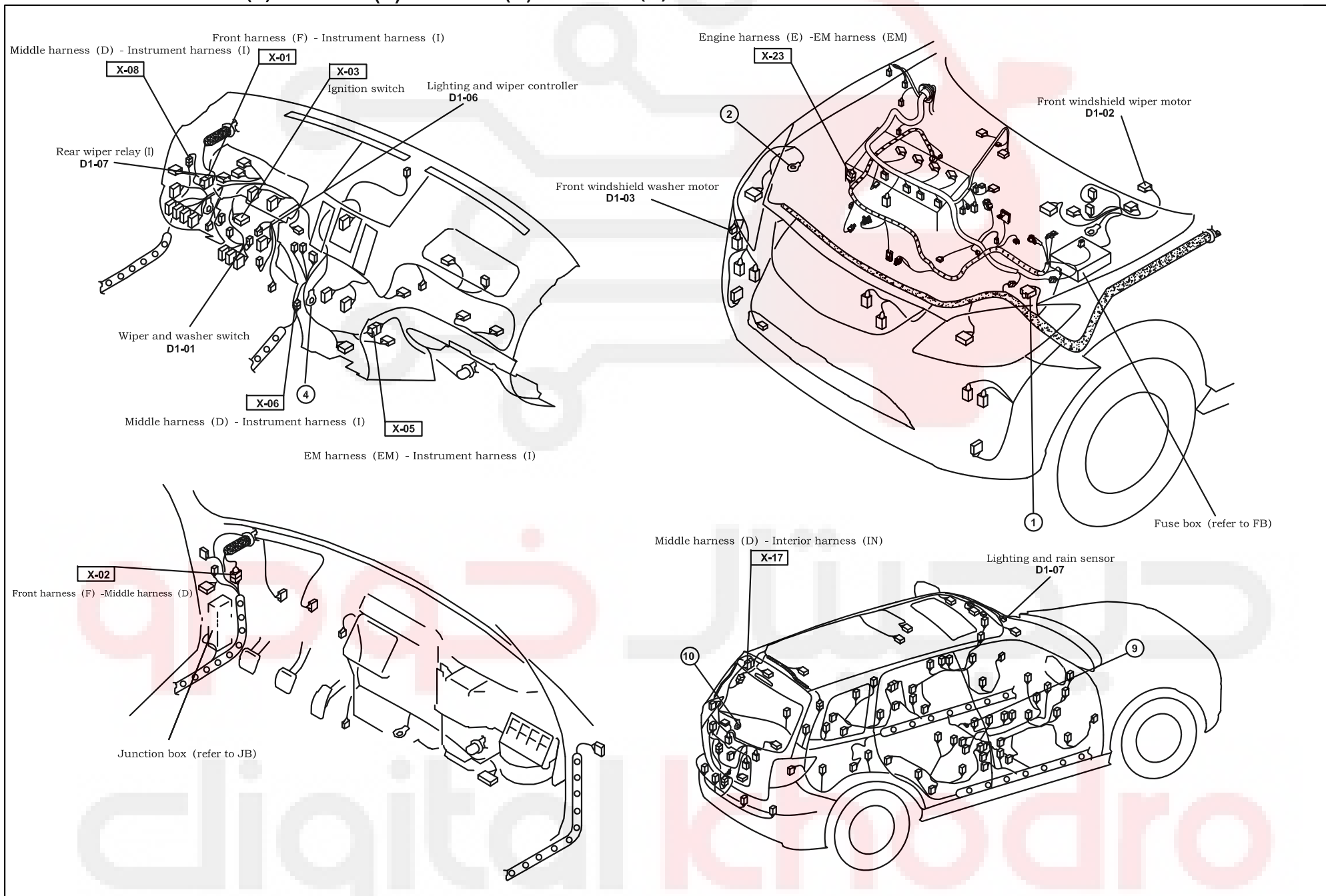
D1-06 Lighting and wiper controller (I)

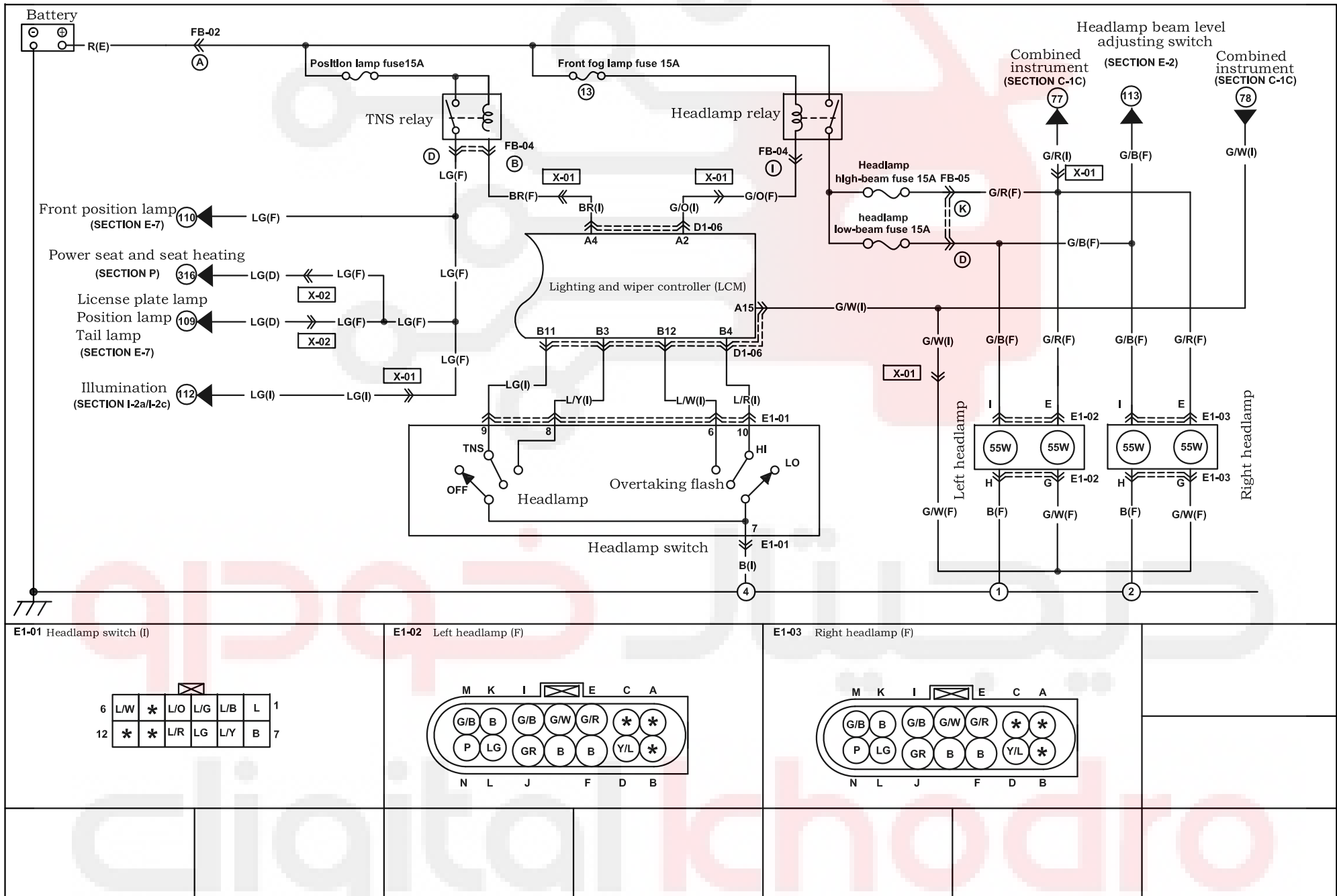
\$Automatic headlamp wiper models

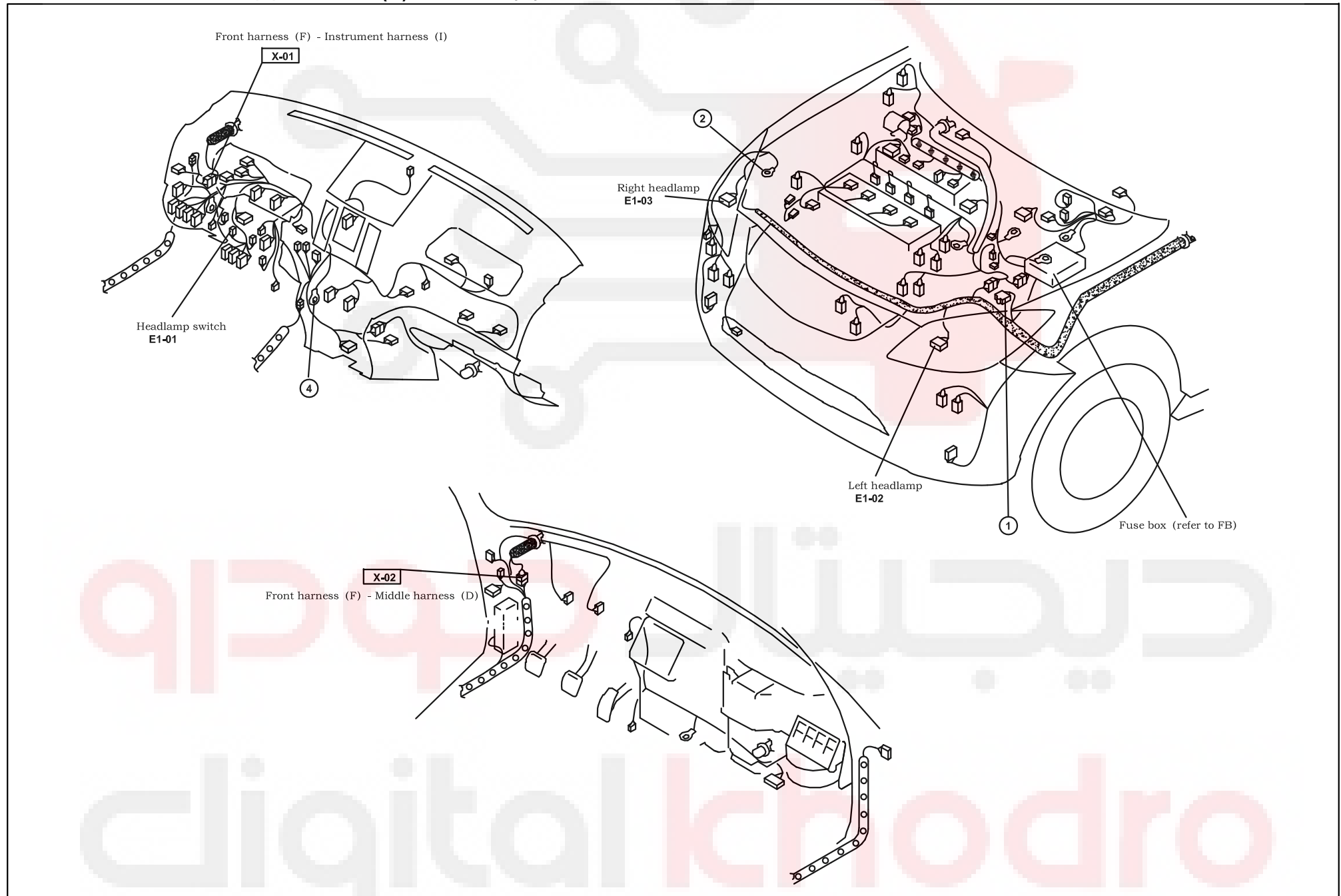


D1-06 Lighting and wiper controller (I)

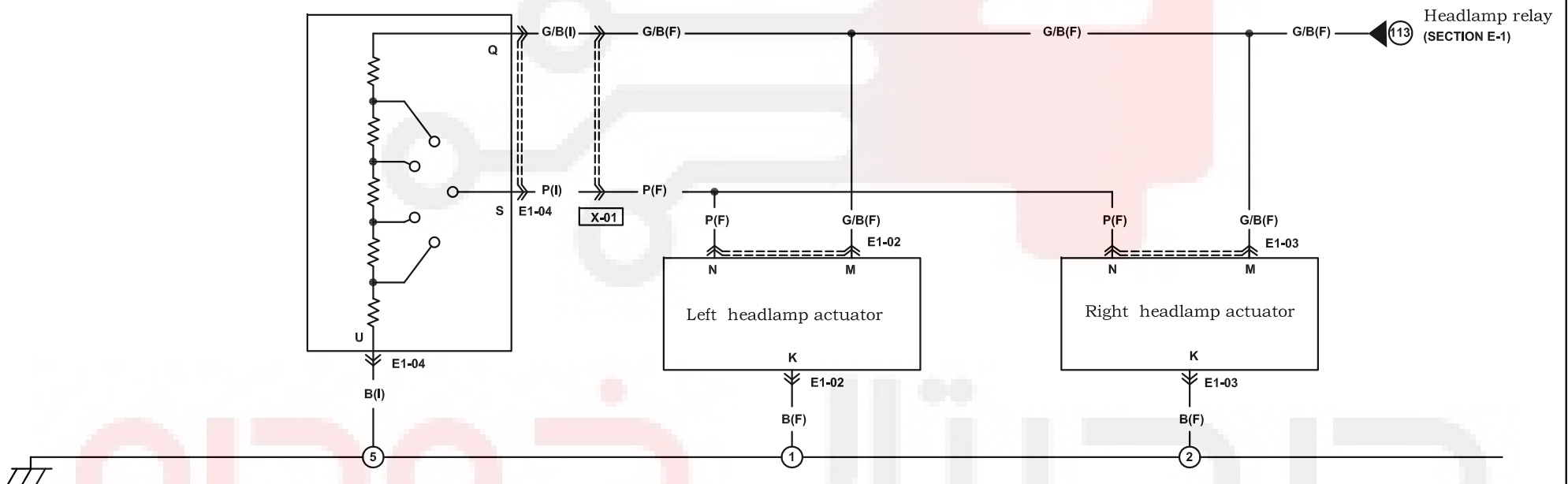








Headlamp beam level adjusting switch



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)

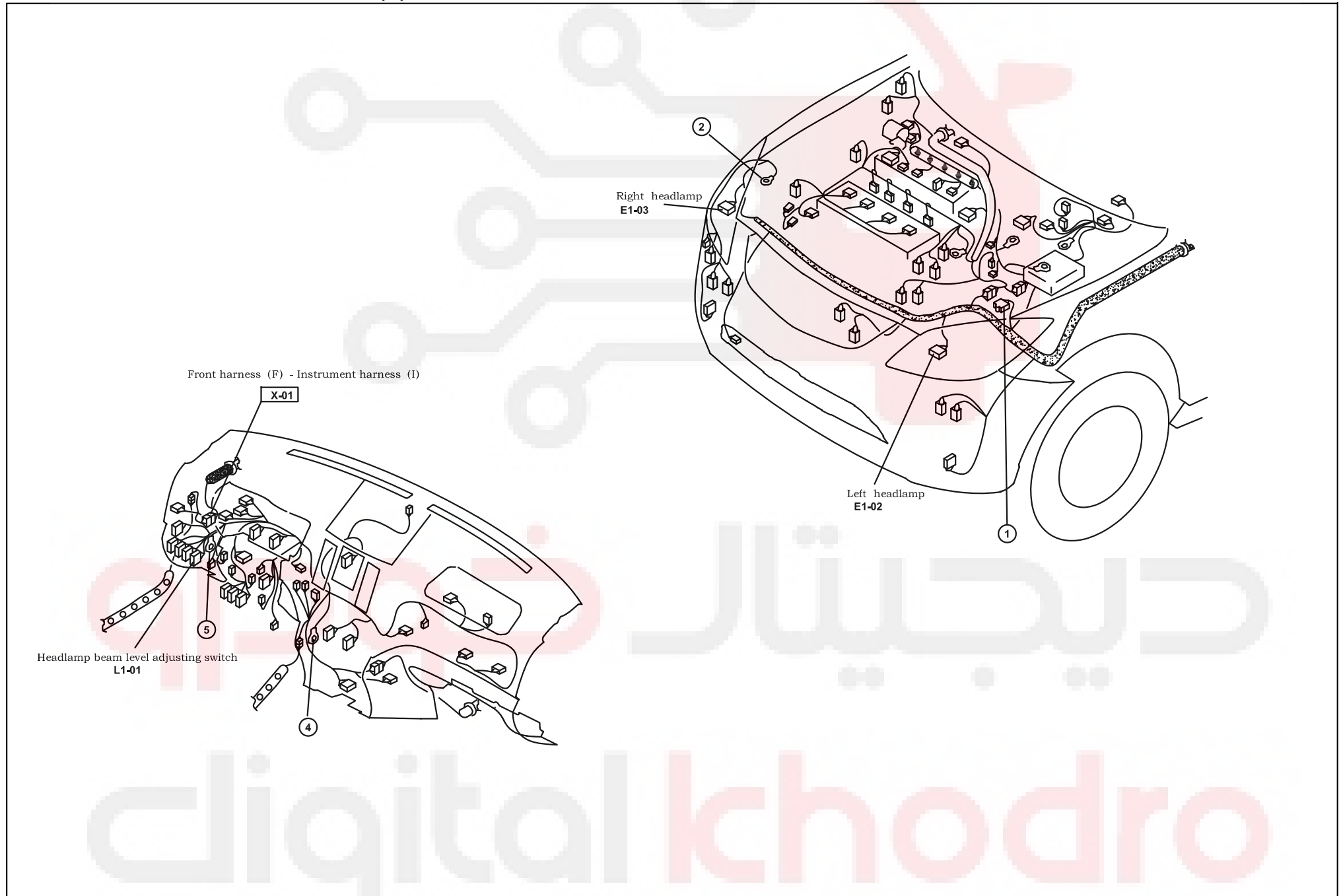
M	K	I		E	C	A
						
G/B	B	G/B	G/W	G/R	*	*
P	LG	GR	B	B	Y/L	*
N	L	J		F	D	B

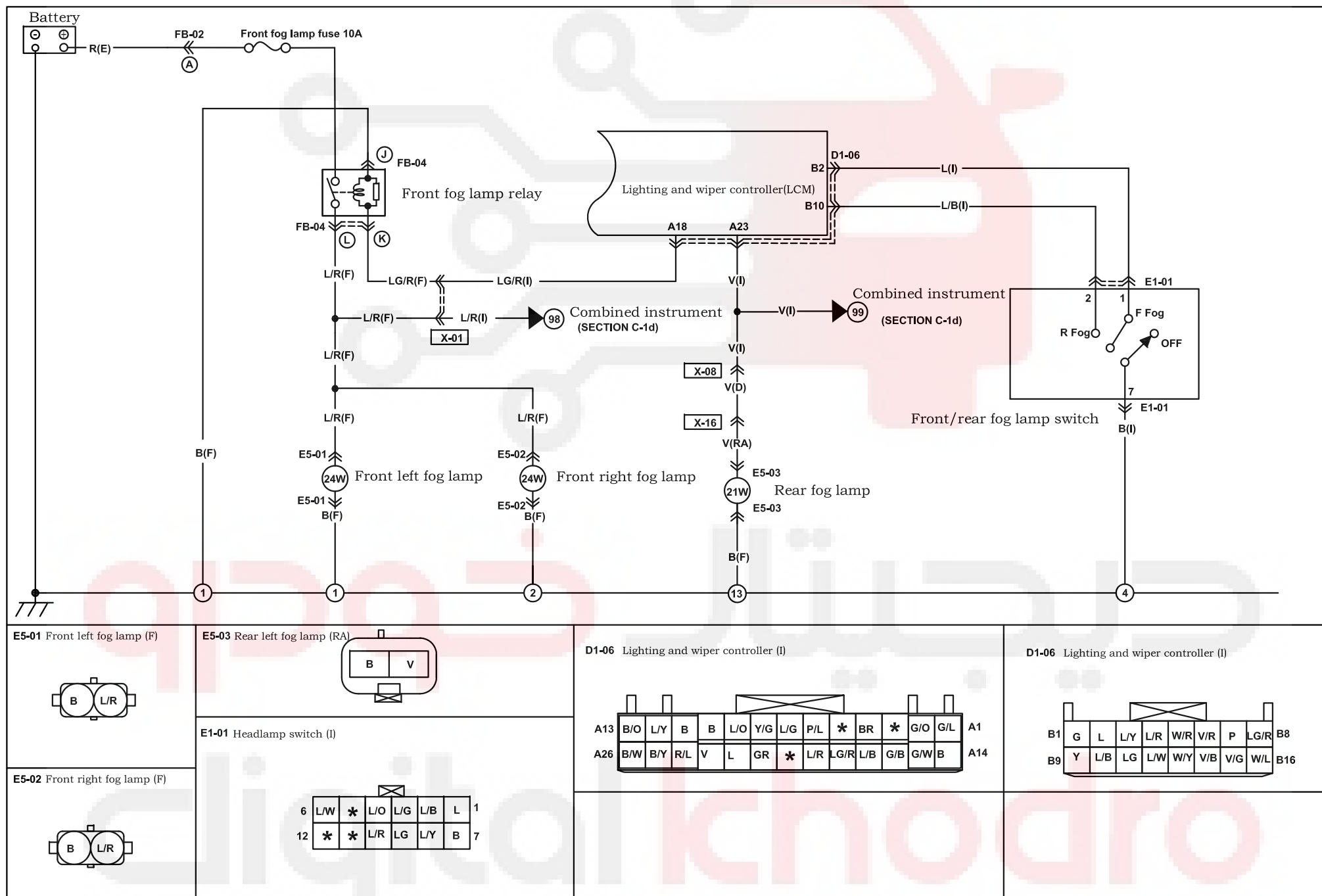
E1-03 Right headlamp (F)

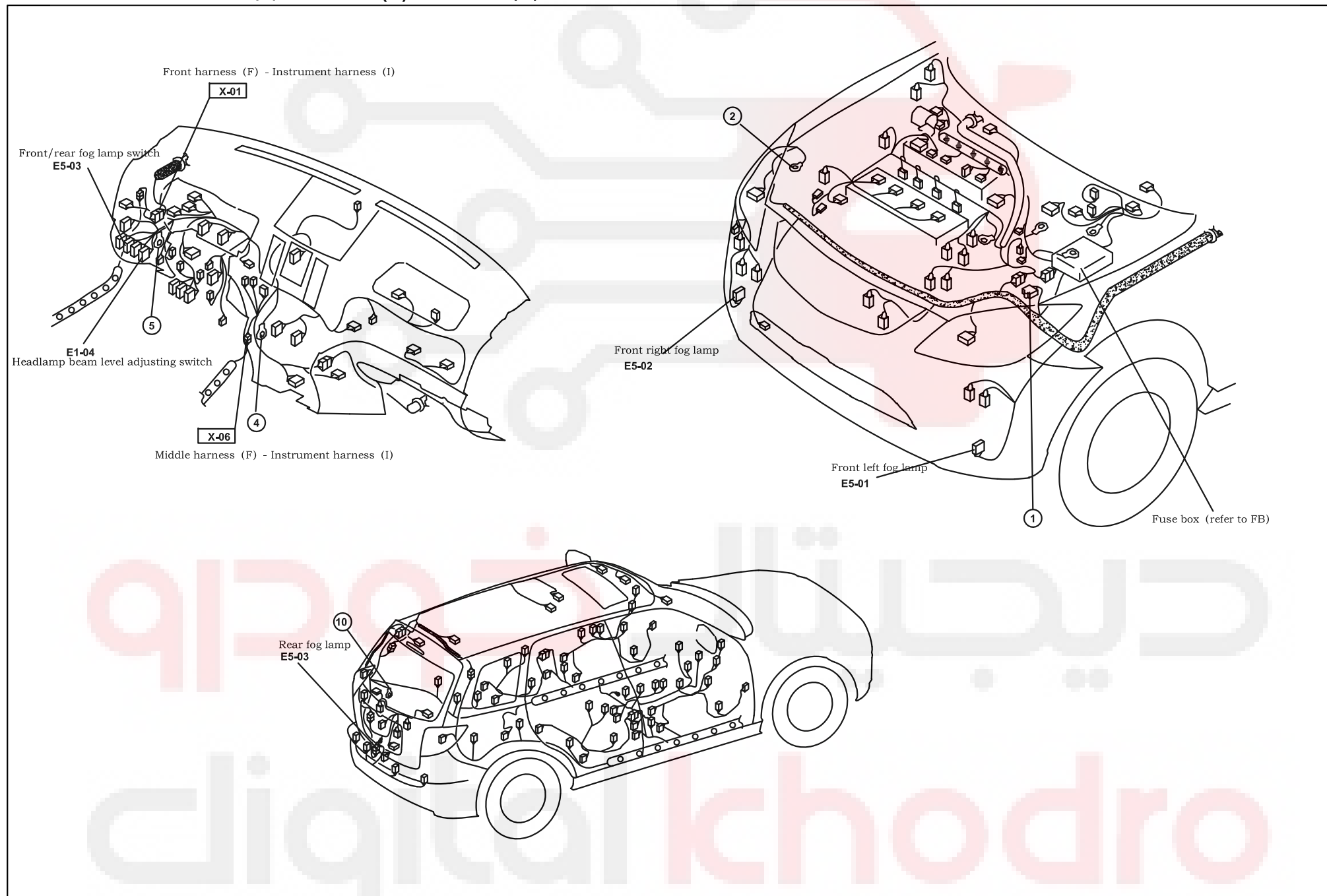
M	K	I		E	C	A
G/B	B	G/B	G/W	G/R	*	*
P	LG	GR	B	B	Y/L	*
N	L	J	F	D	B	

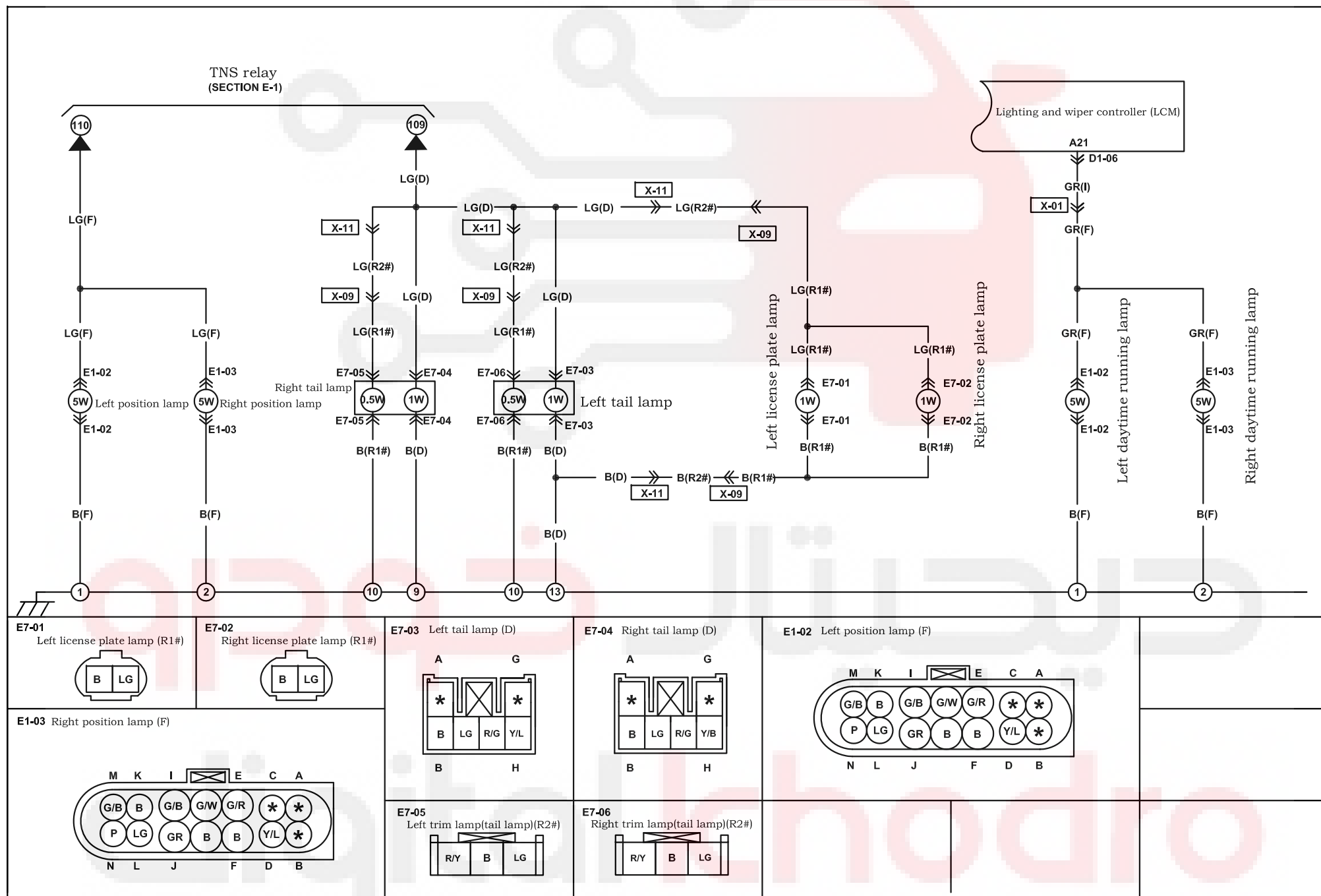
L1-01 Headlamp beam level adjusting switch (I)

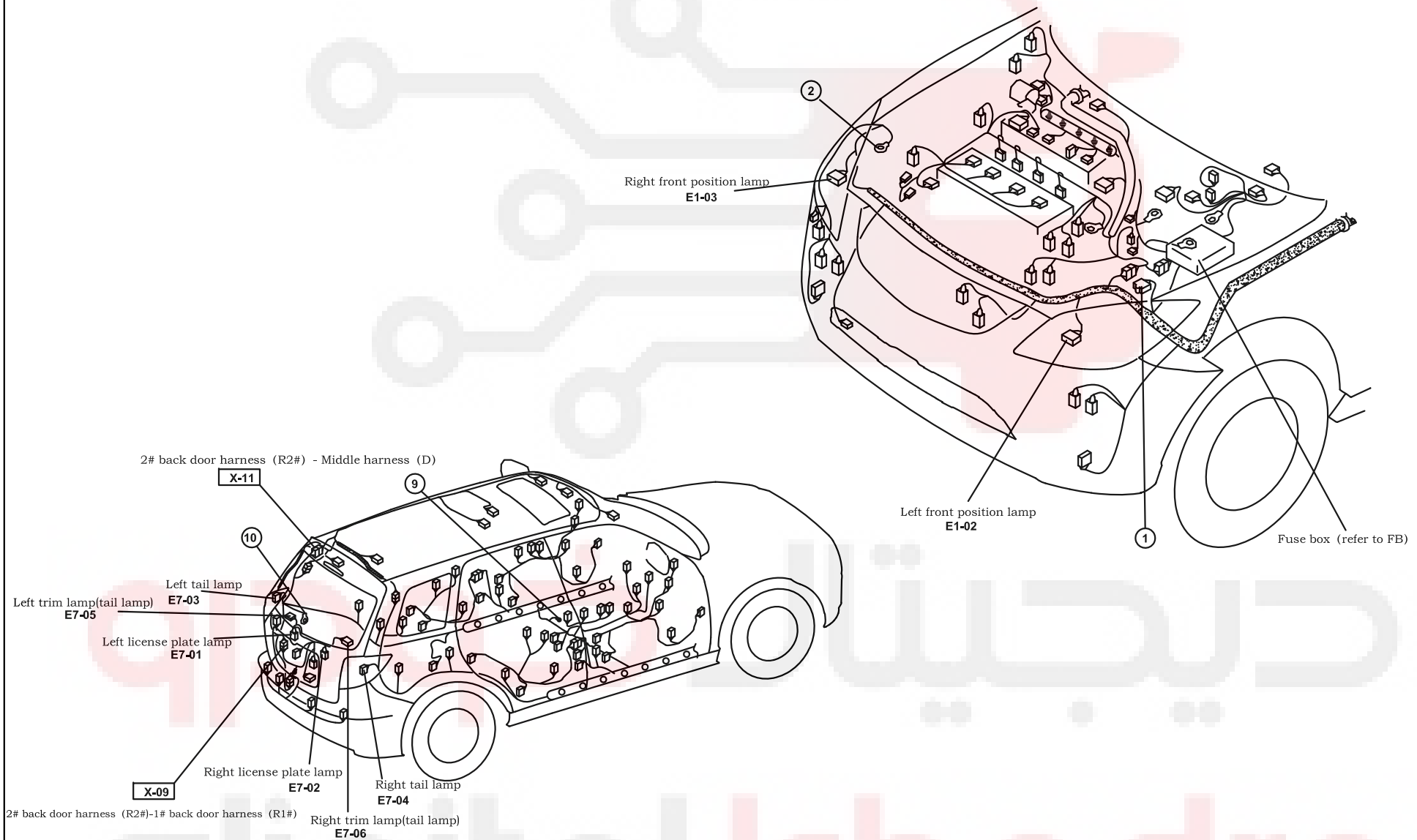
S	Q	O	M	K	I	G	E	C	A
R/B	LG	LG/B	L/W	L	L/O	L/B	V	R/G	R/Y
B	P	G/B	*	W	*	*	*	*	B
T	R	P	N	L	J	H	F	D	B

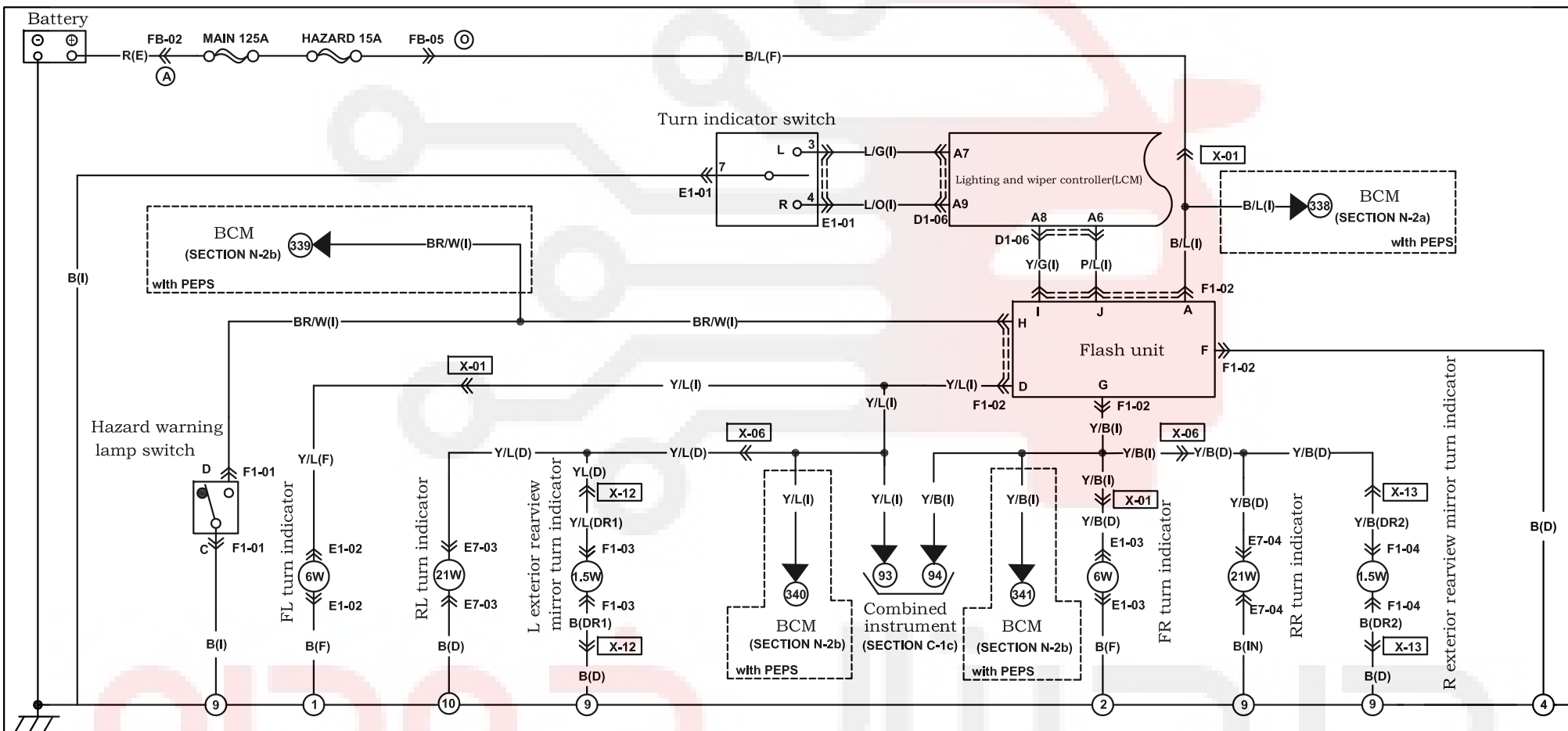




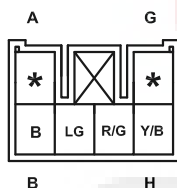




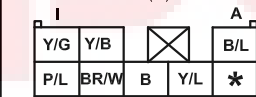




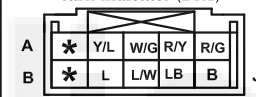
E7-04 RR turn indicator (D)



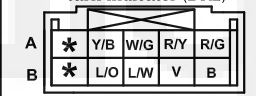
F1-02 Flash unit (D)



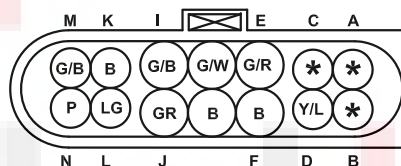
F1-03 L exterior rearview mirror turn indicator (DR1)



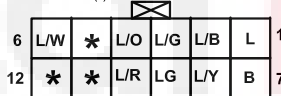
F1-04 R exterior rearview mirror turn indicator (DR2)



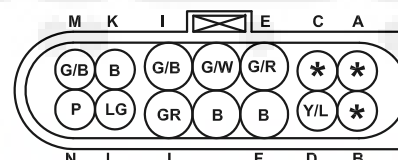
E1-02 FL turn indicator (F)



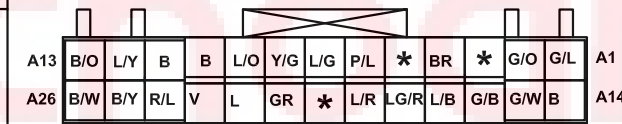
E1-01 Turn indicator switch (I)



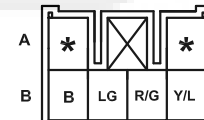
E1-03 FR turn indicator (F)



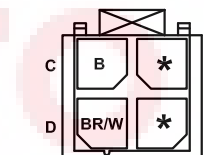
D1-06 Lighting and wiper controller (I)



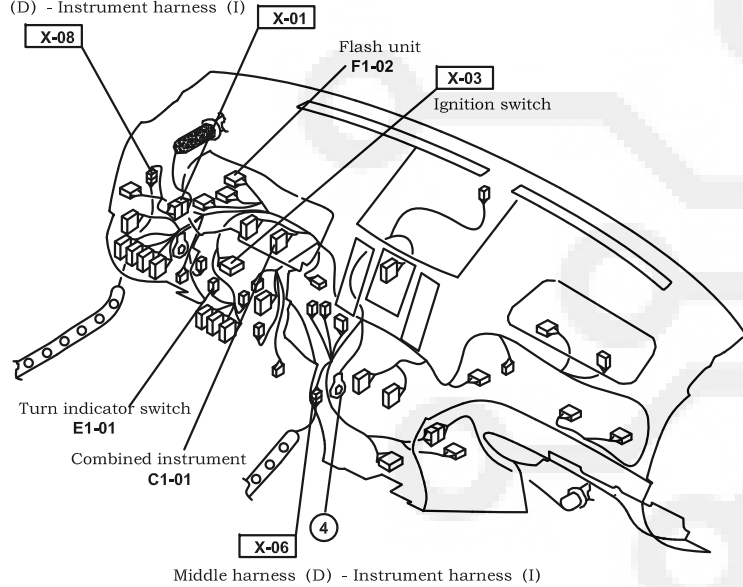
E7-03 RL turn indicator (D)



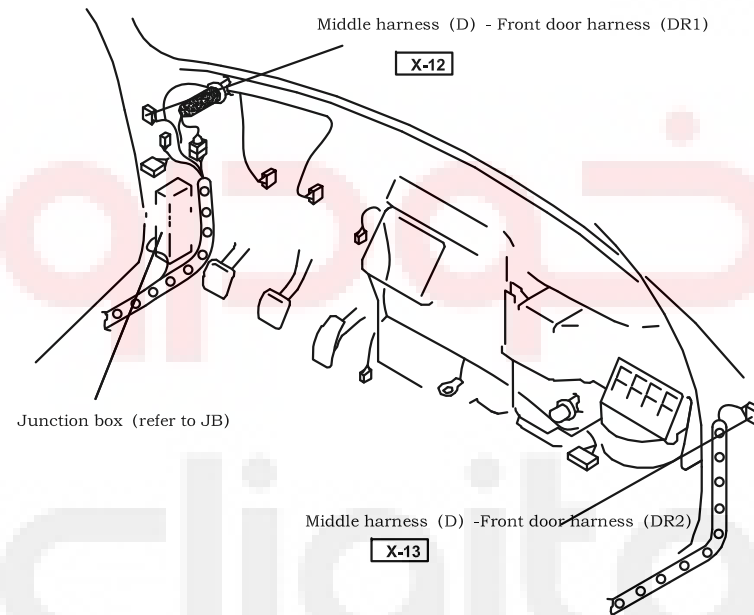
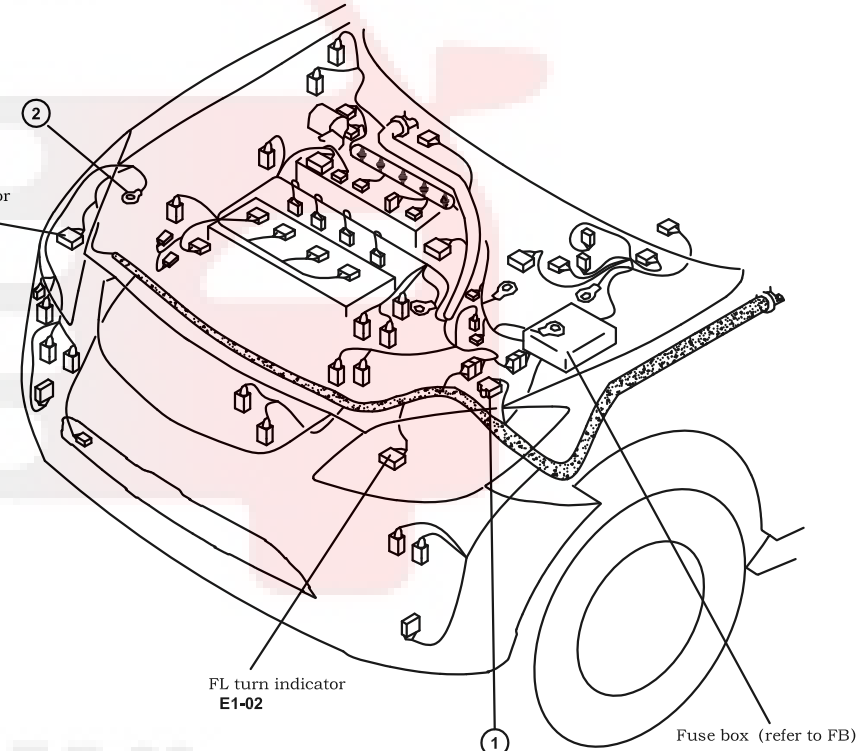
F1-01 Hazard warning lamp switch (I)



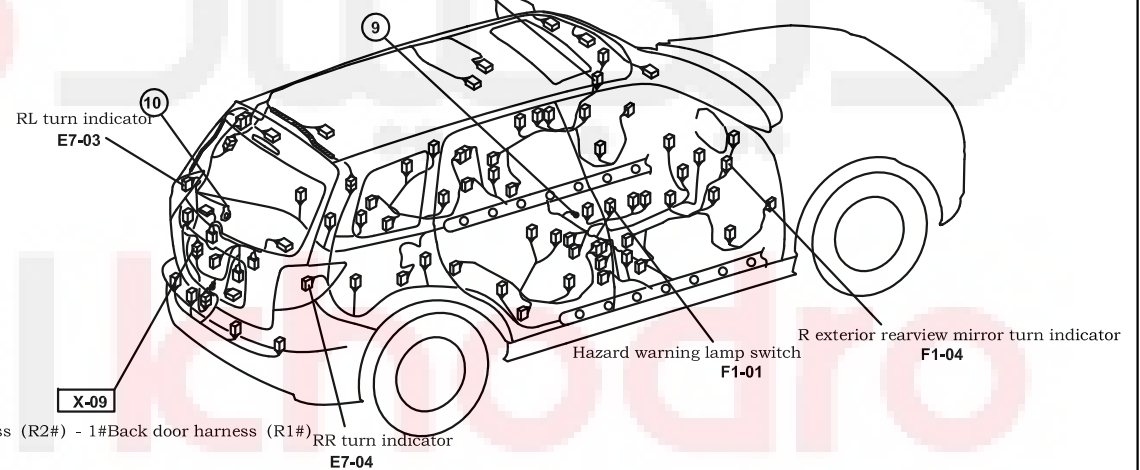
Front harness (F) - Instrument harness (I)
Middle harness (D) - Instrument harness (I)

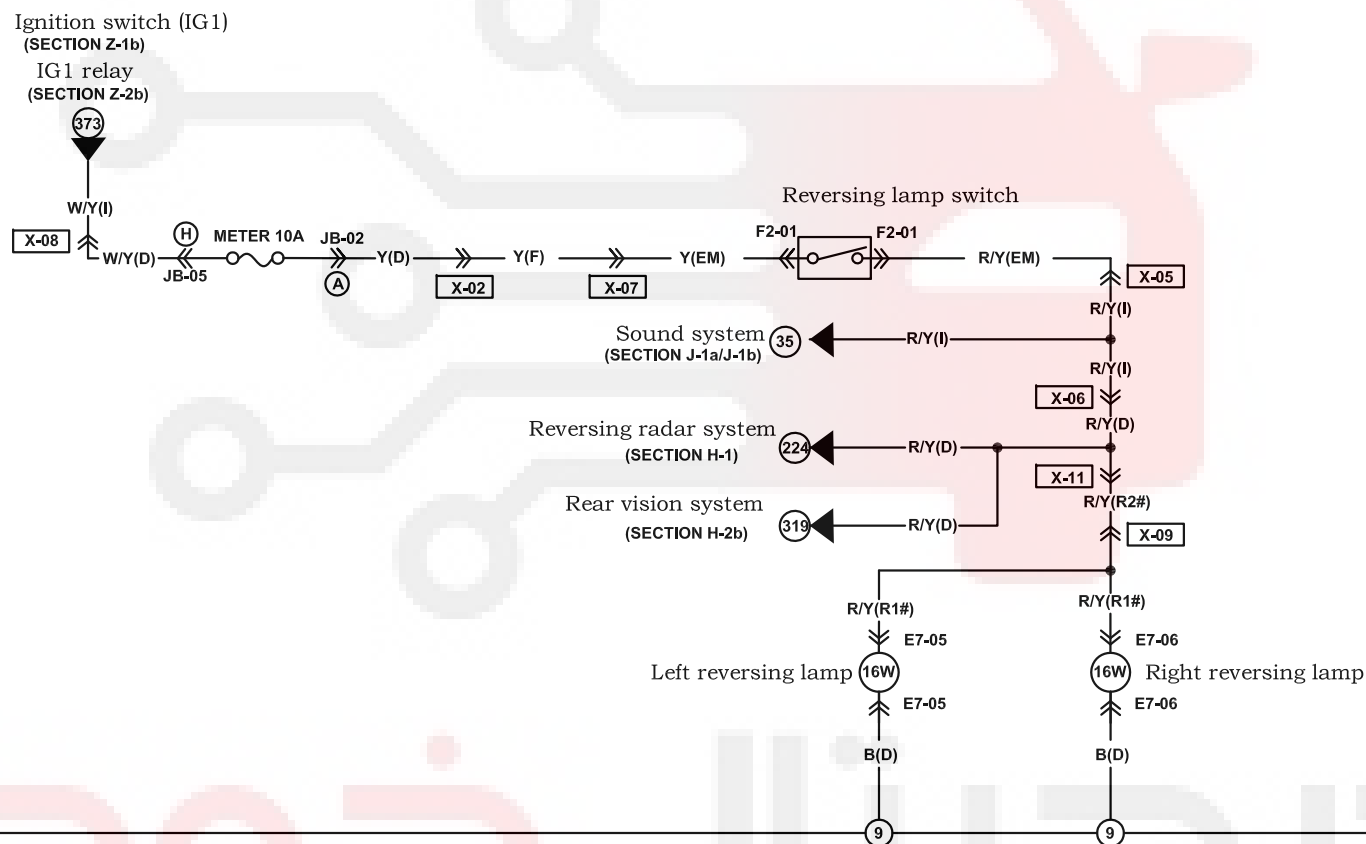


FR turn indicator
E1-03

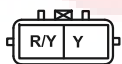


RL turn indicator
E7-03



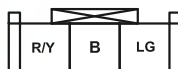


F2-01 Reversing lamp switch (EM)



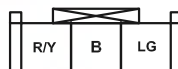
E7-05

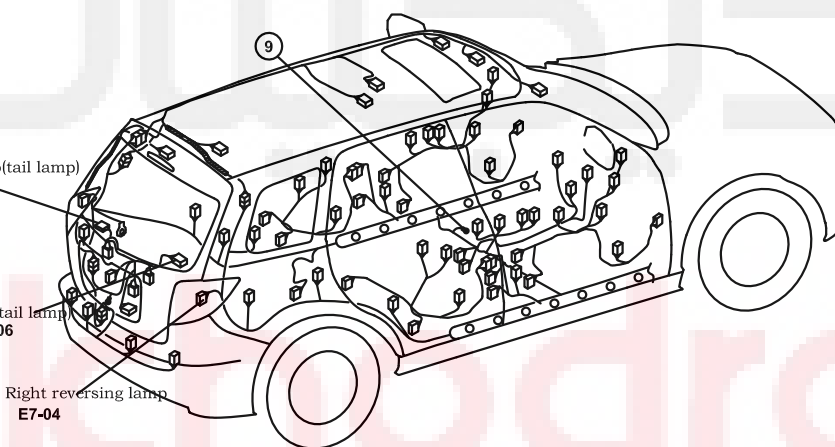
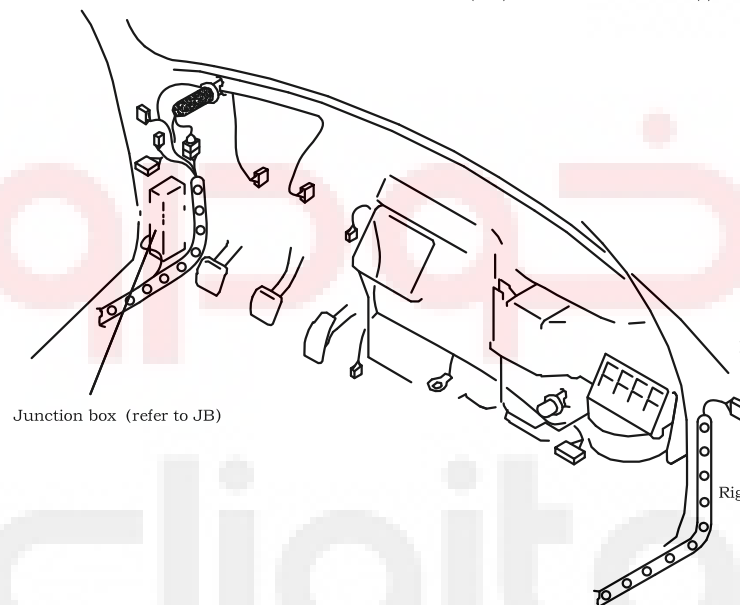
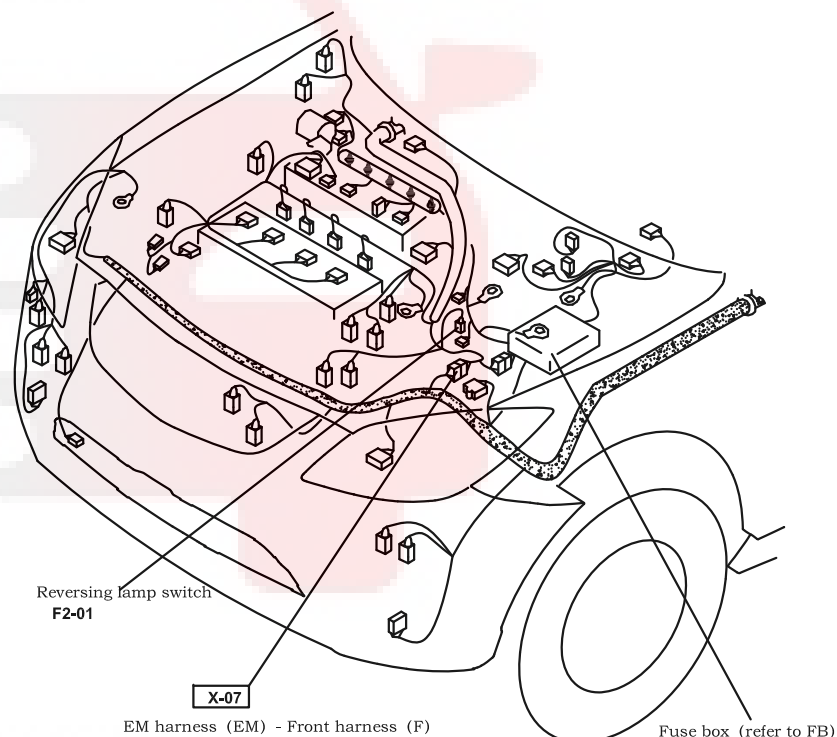
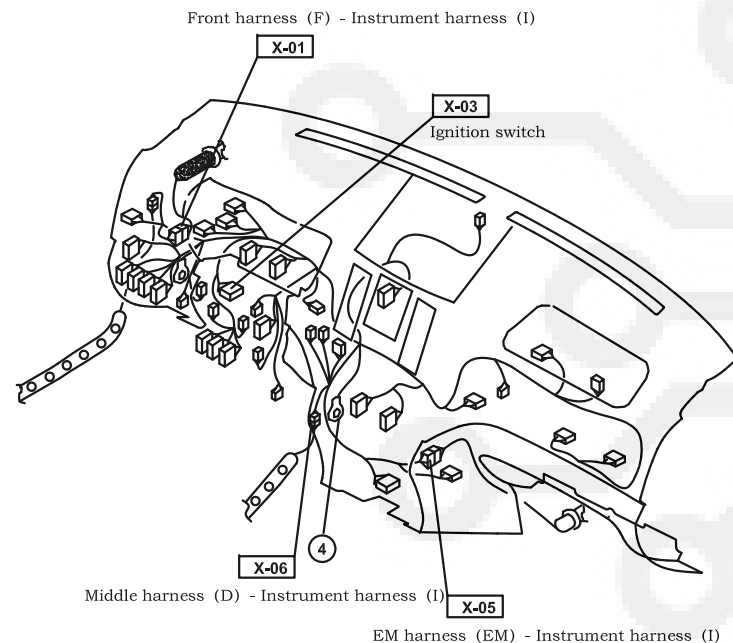
Left trim lamp(tail lamp)(R2#)

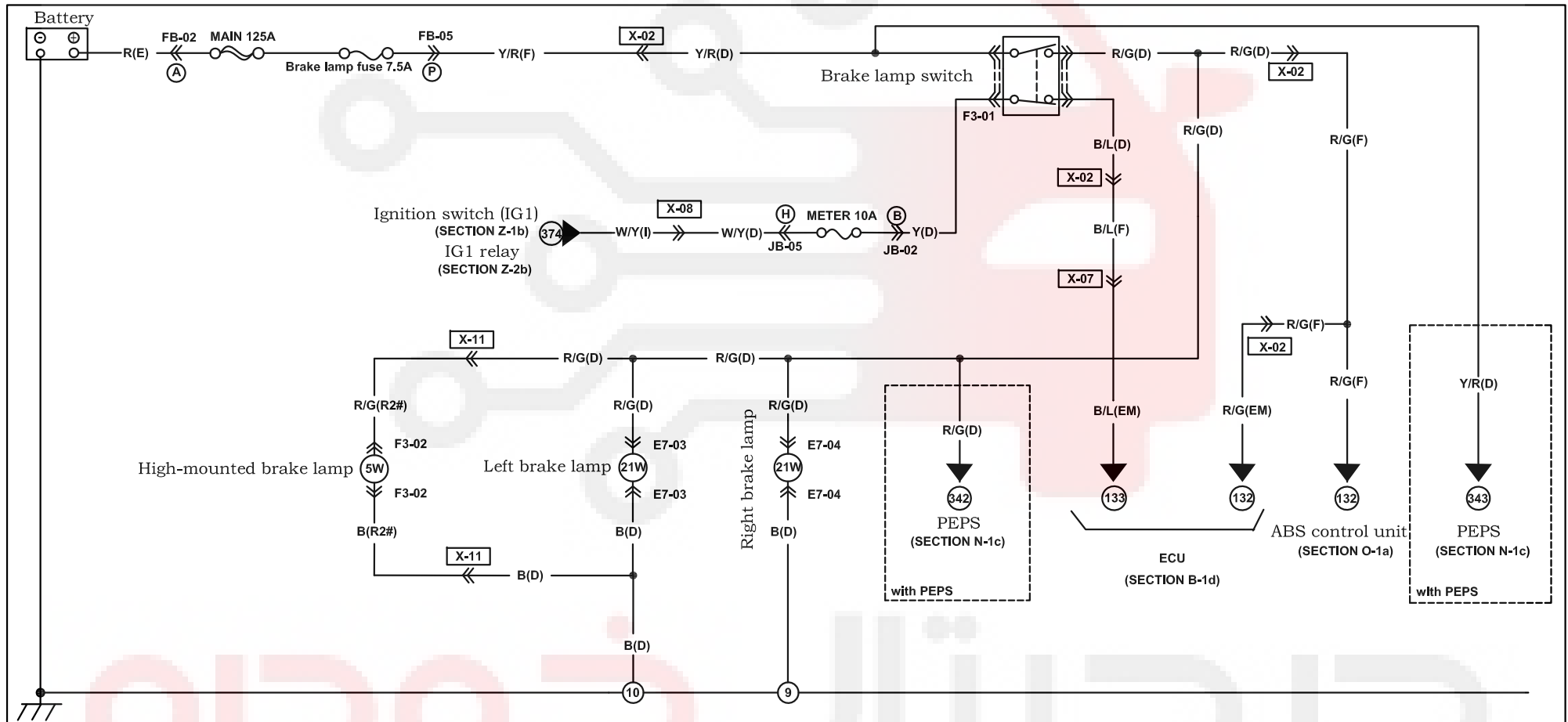


E7-06

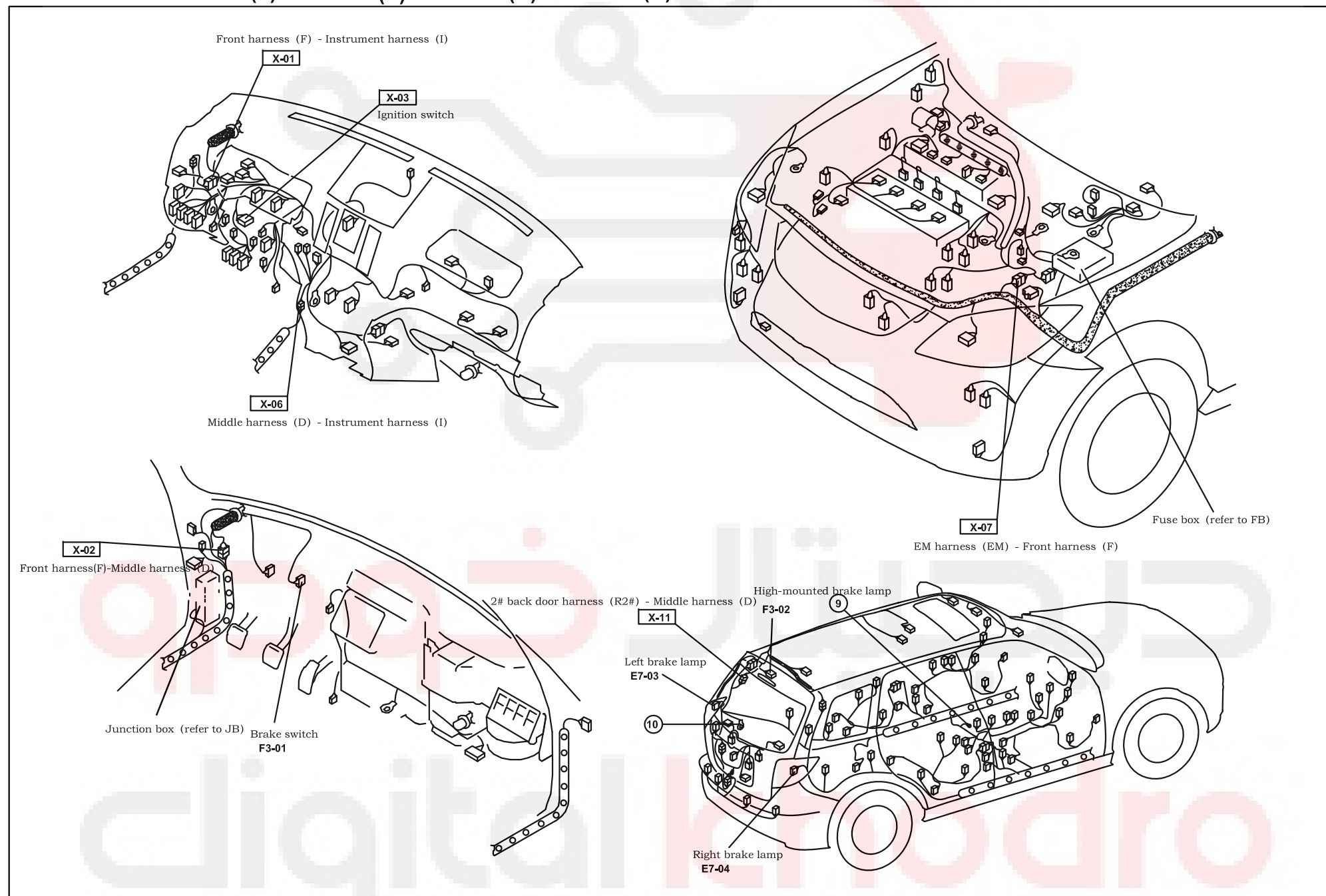
Right trim lamp(tail lamp)(R2#)

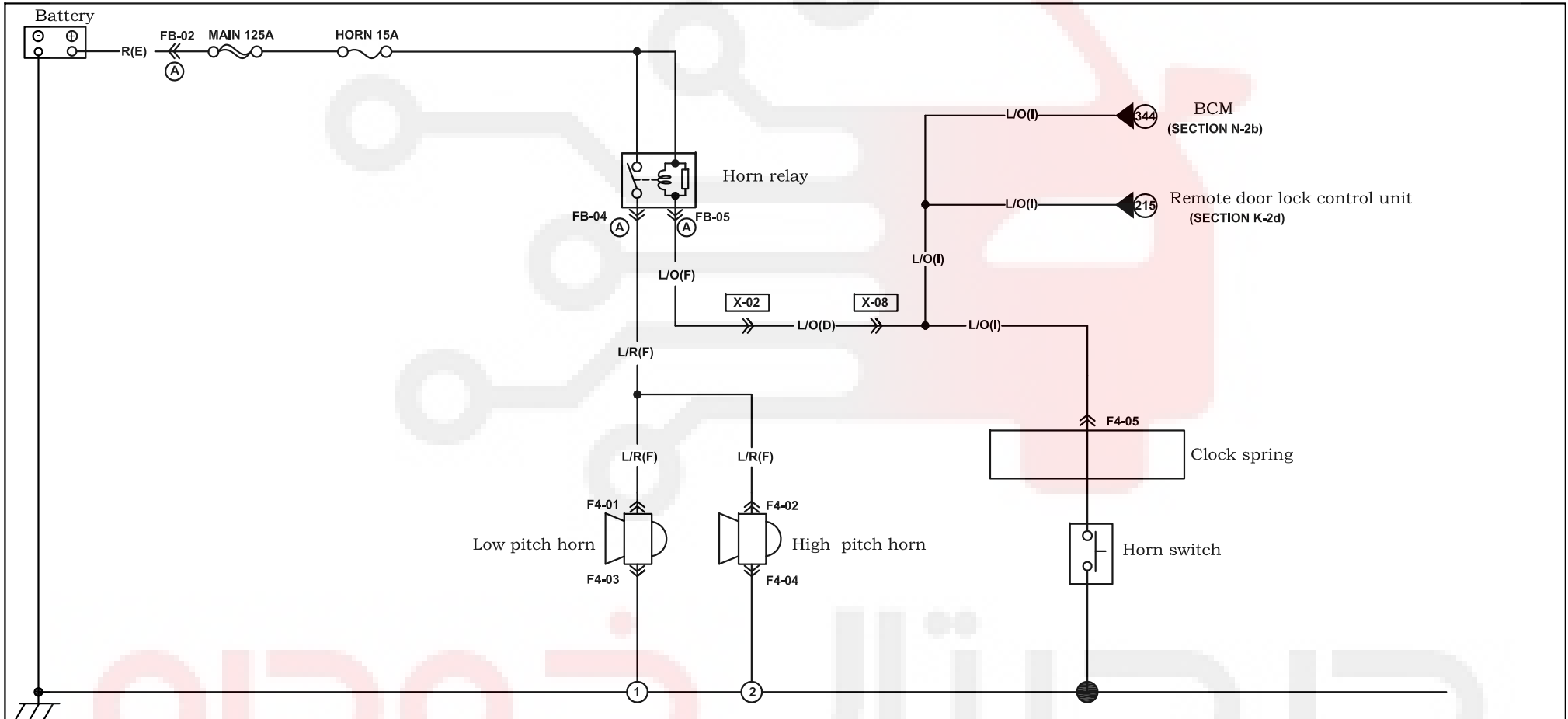




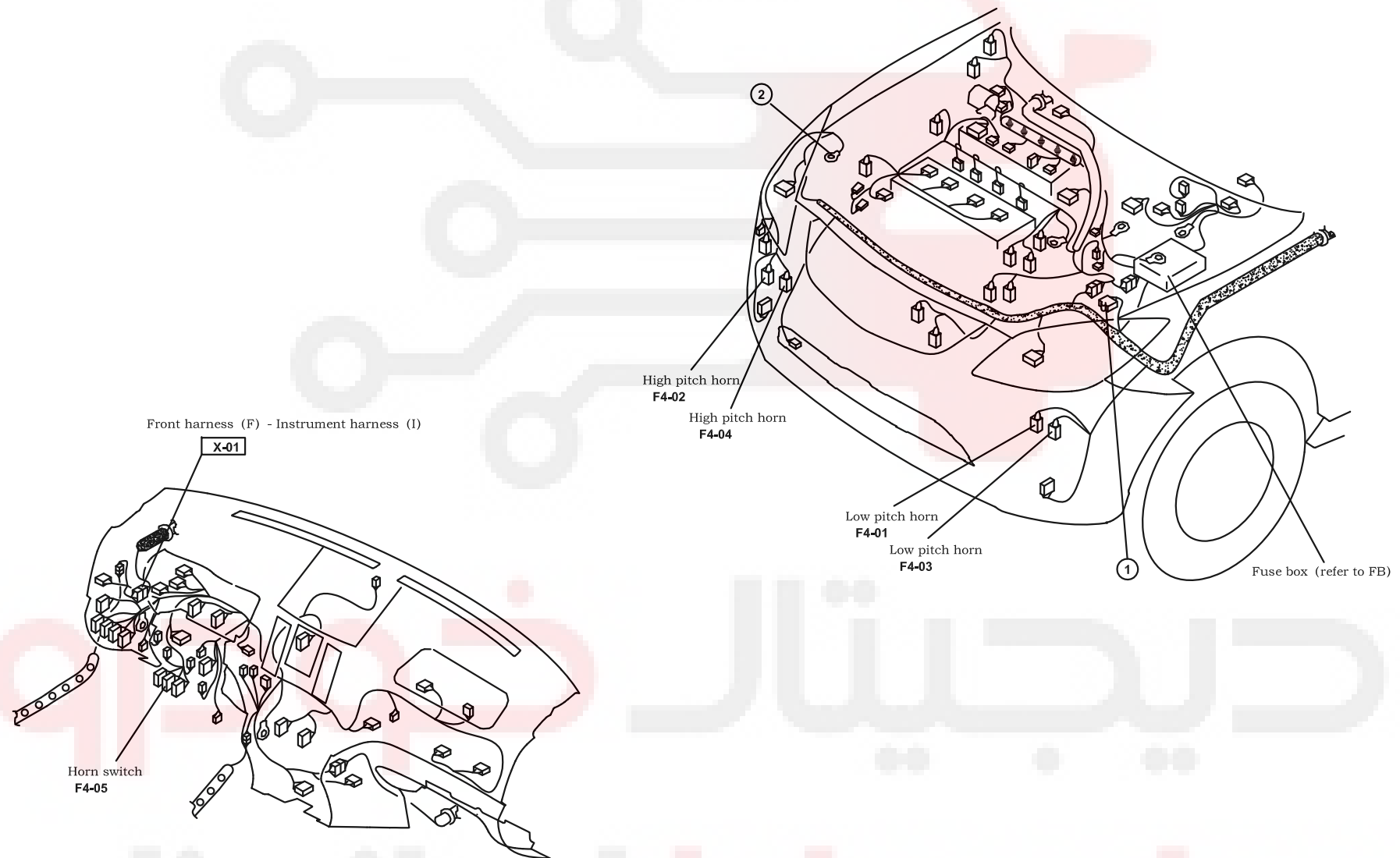


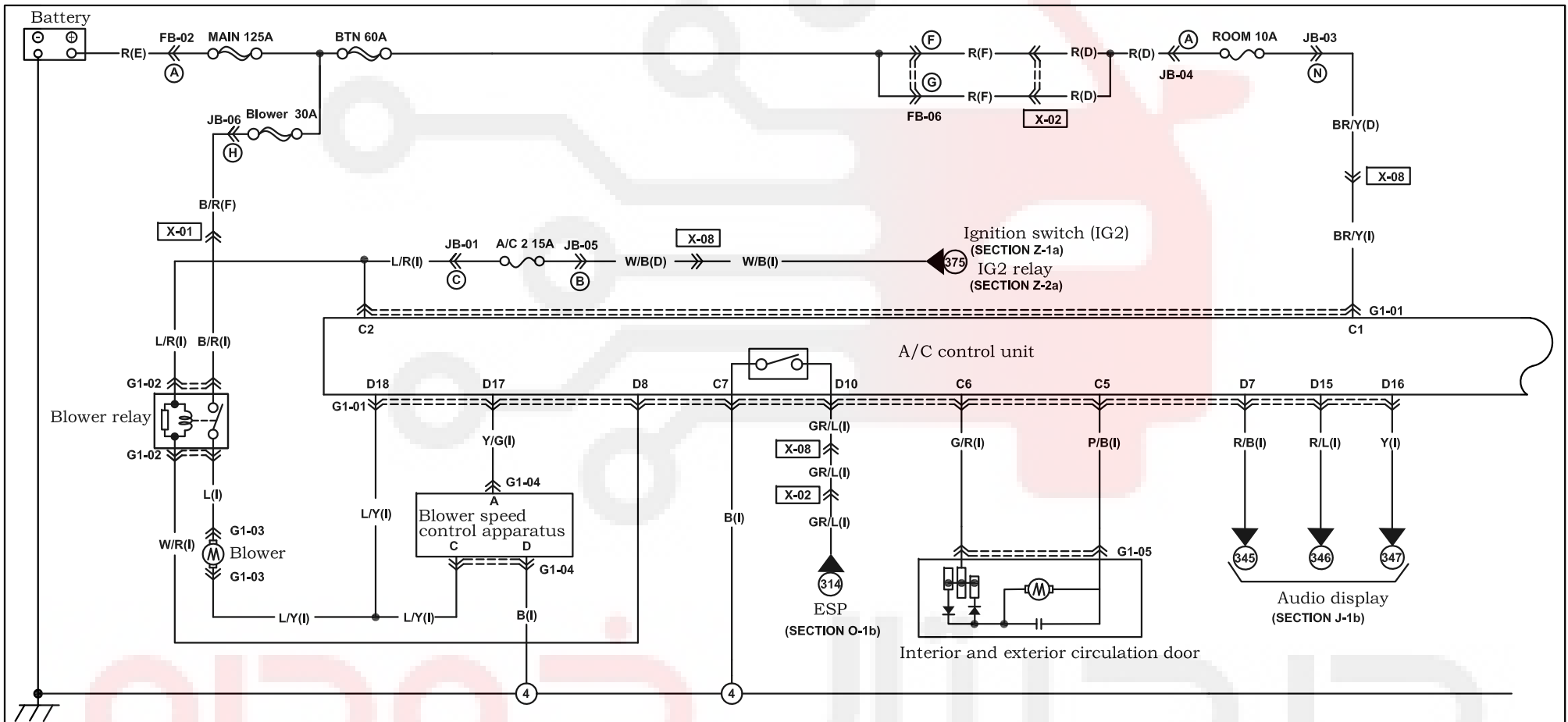
F3-01 Brake switch (D) 	F3-02 High-mounted brake lamp(R2#) 					
E7-03 Left brake lamp(D) 	E7-04 Right brake lamp(D) 					





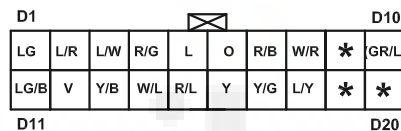
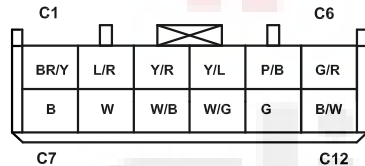
F4-01 Low pitch horn (F) 	F4-02 High pitch horn(F) 	F4-05 Clock spring (1) 		
F4-03 Low pitch horn (F) 	F4-04 High pitch horn(F) 			



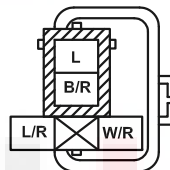


G1-01 A/C control unit (I)

() with ESP



G1-02 Blower relay (I)



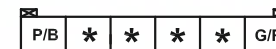
G1-03 Blower (I)

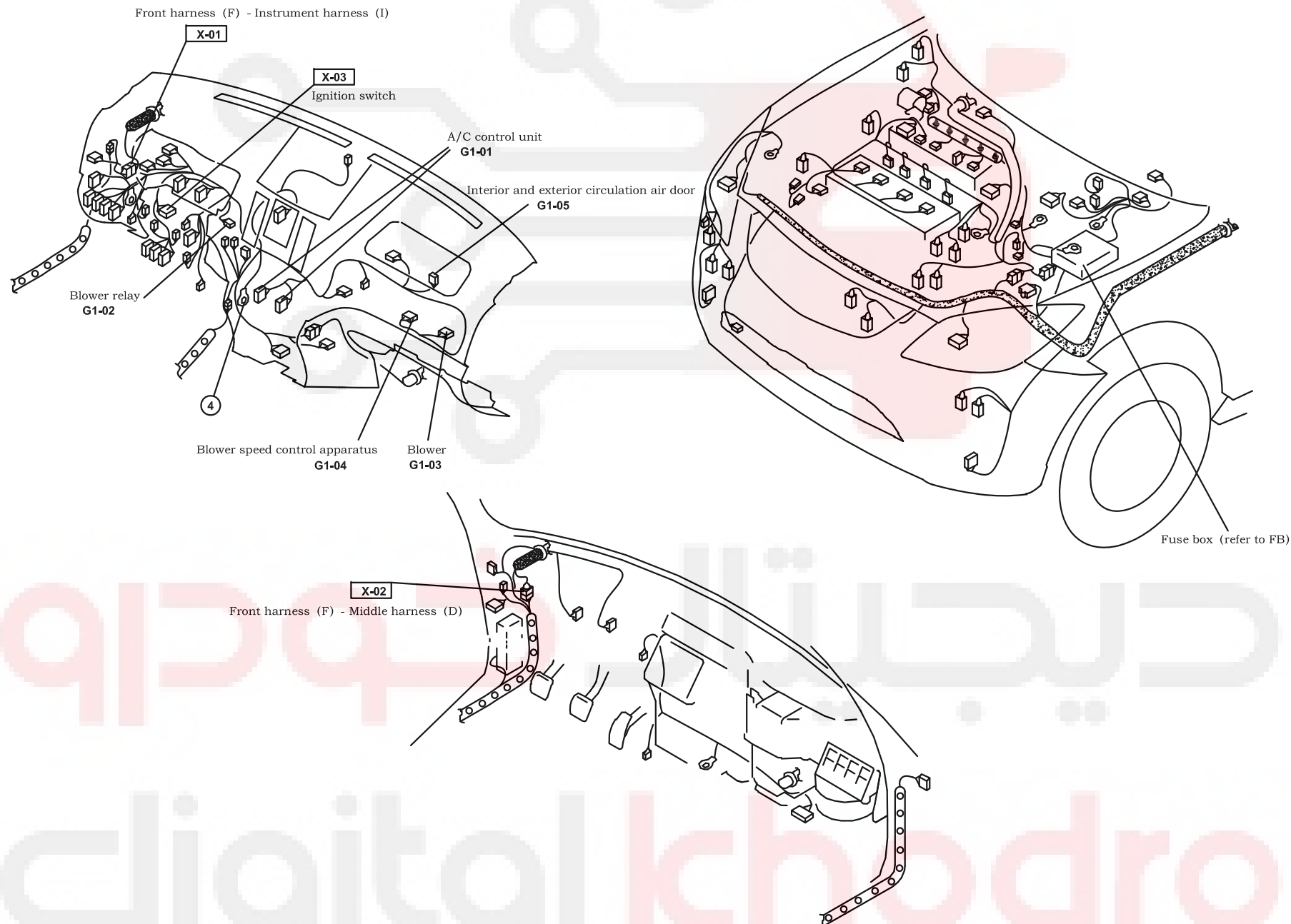


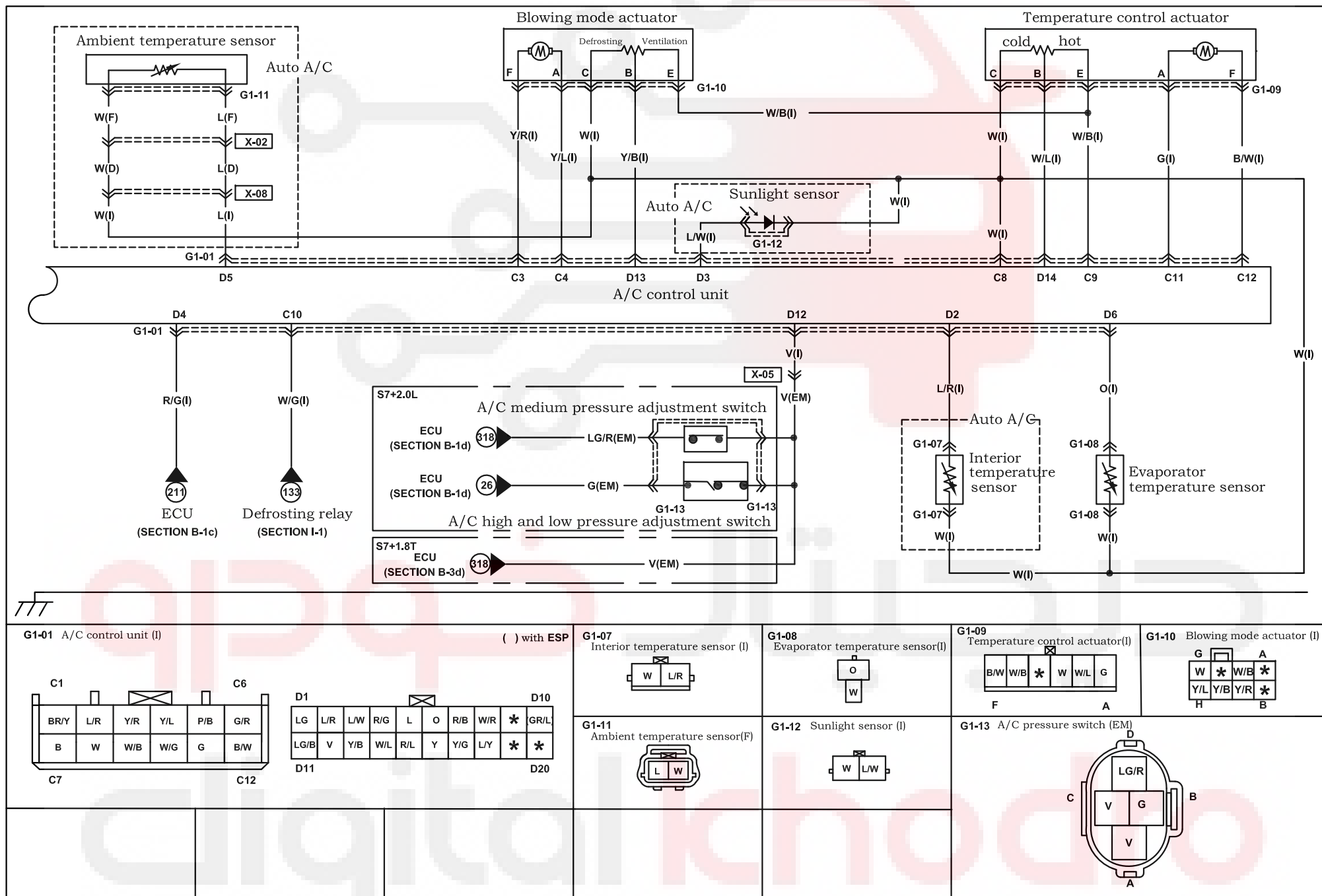
G1-04 Blower speed control apparatus(I)

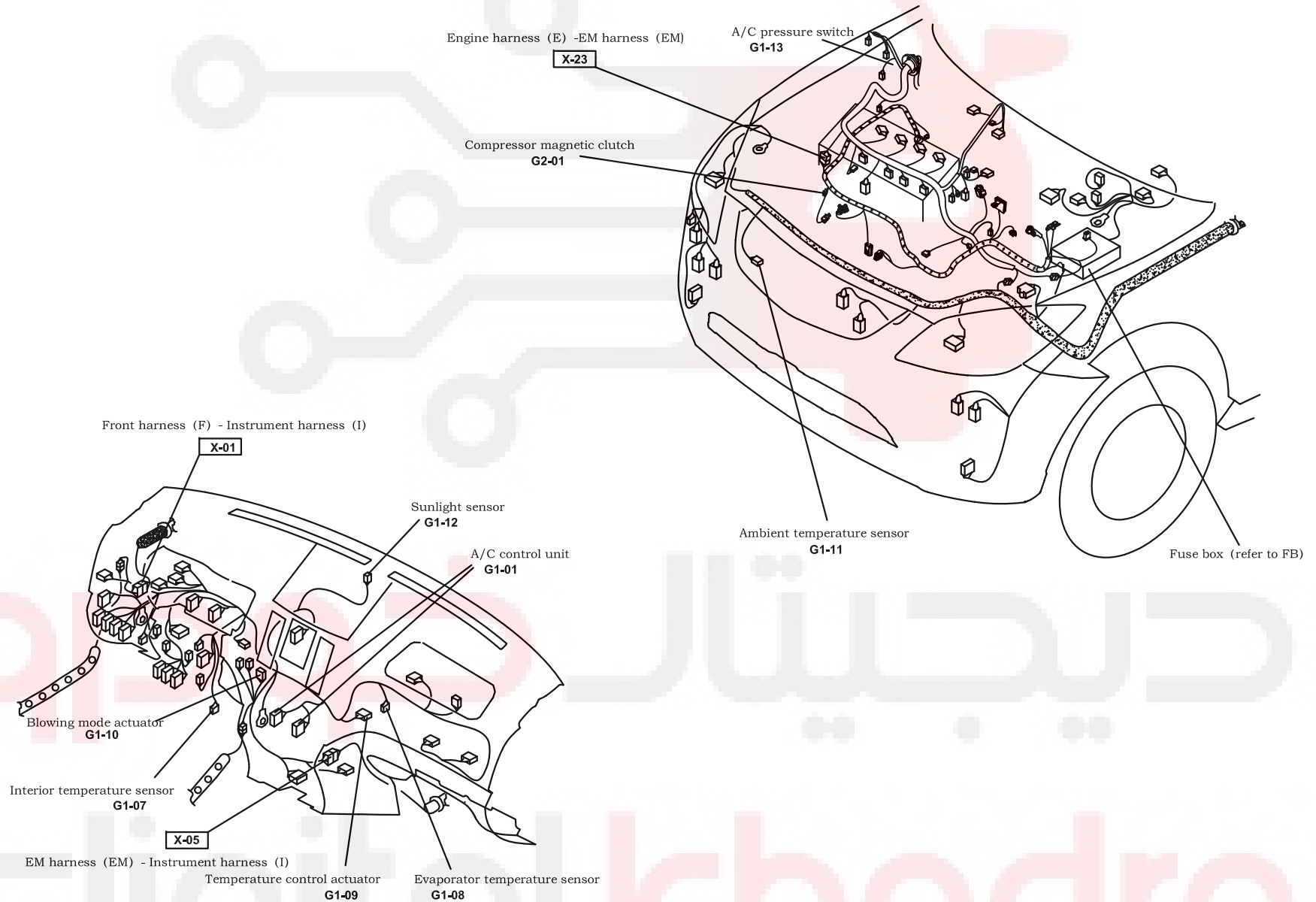


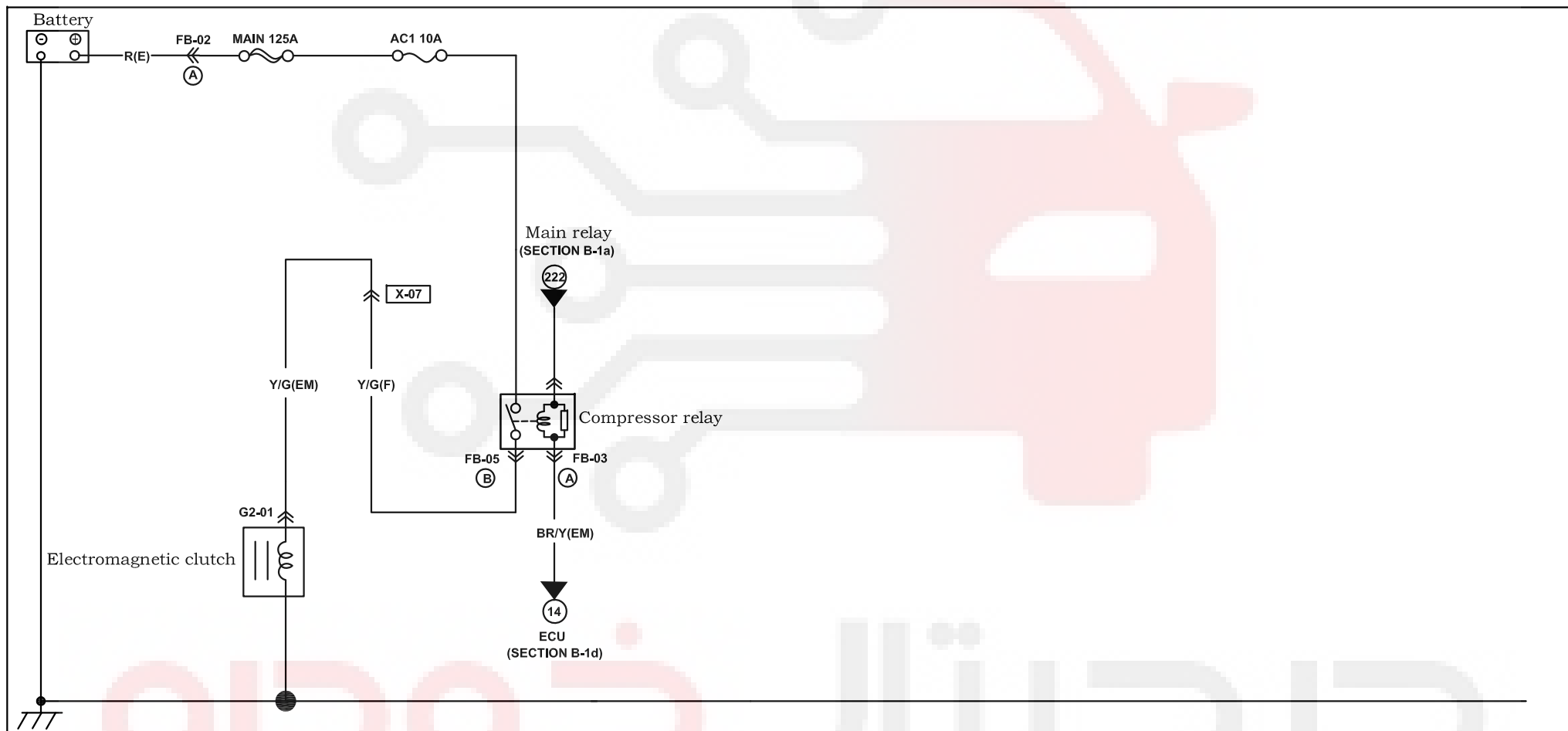
G1-05 Interior and exterior circulation door (I)



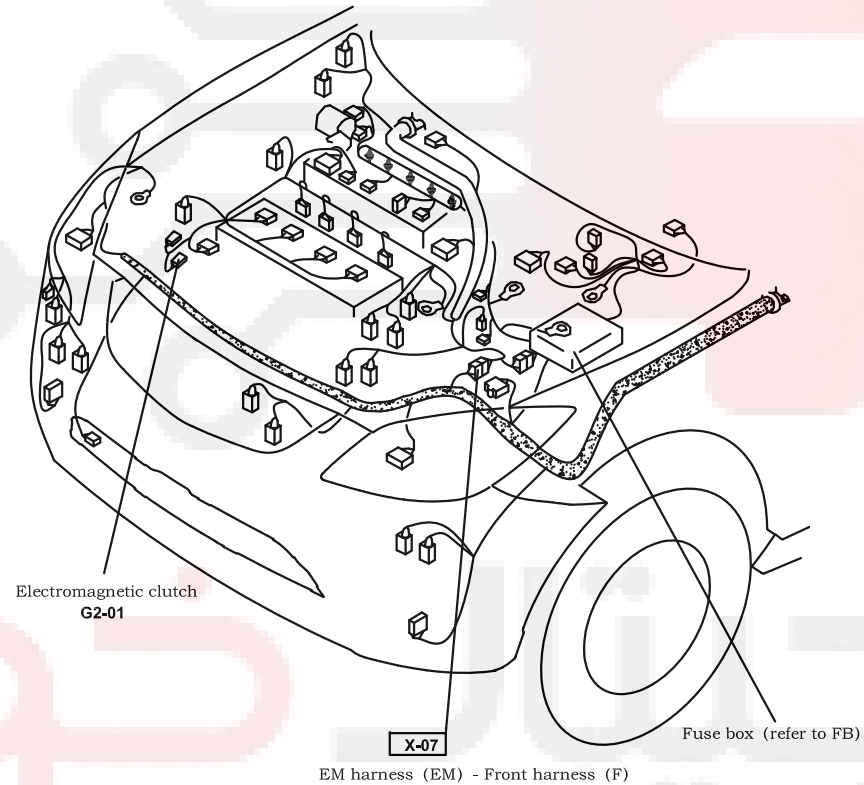




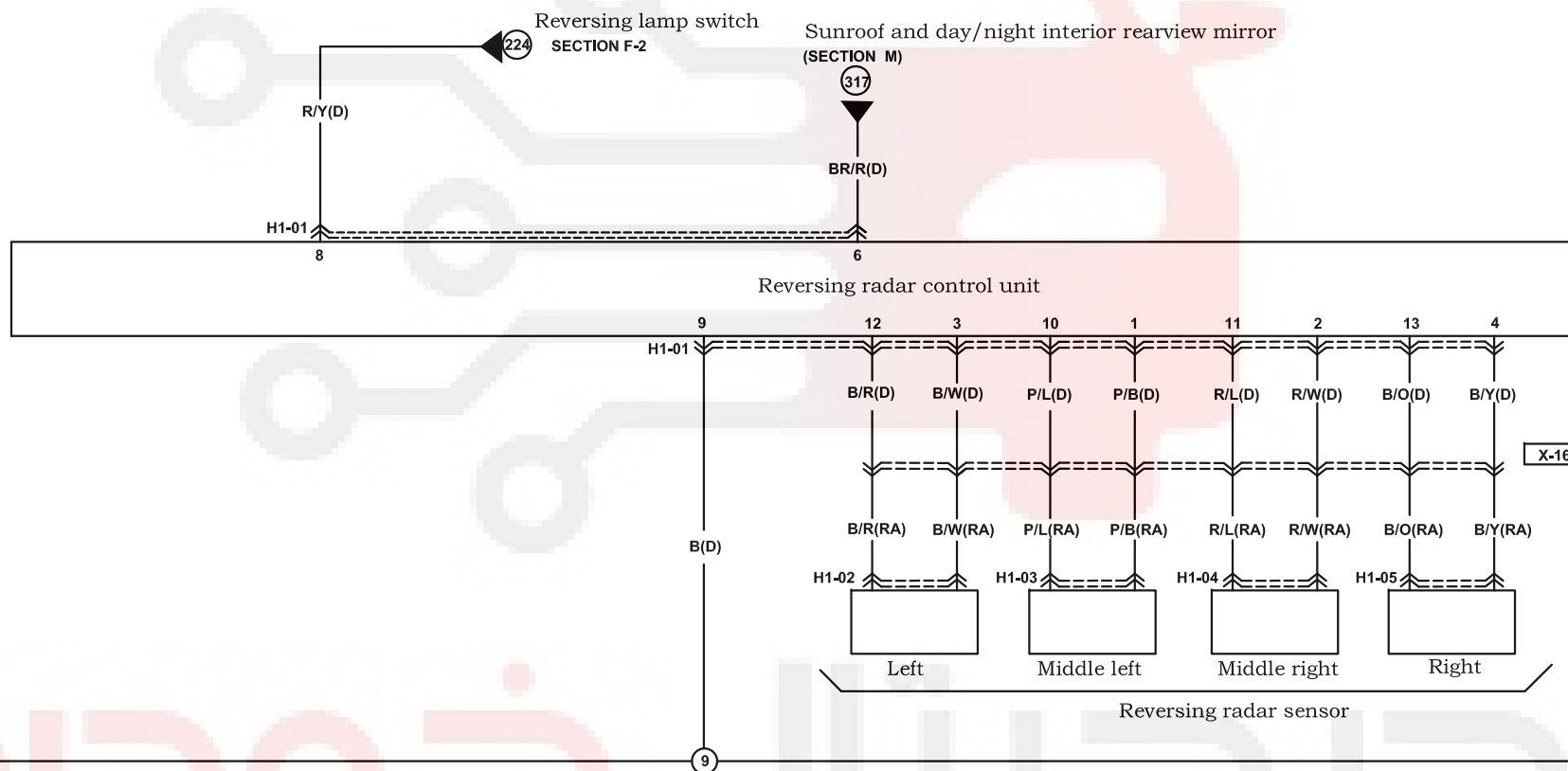




G2-01 Electromagnetic clutch (EM)						
						



EM harness (EM) - Front harness (F)



H1-01 Reversing radar control unit (IN)

1	P/B	R/W	B/W	B/Y	*	BR/R	*	R/Y	8
9	B	P/L	R/L	B/R	B/O	*	*	*	16

H1-02 Left reversing radar sensor (RA)



H1-03 Middle left reversing radar sensor (RA)

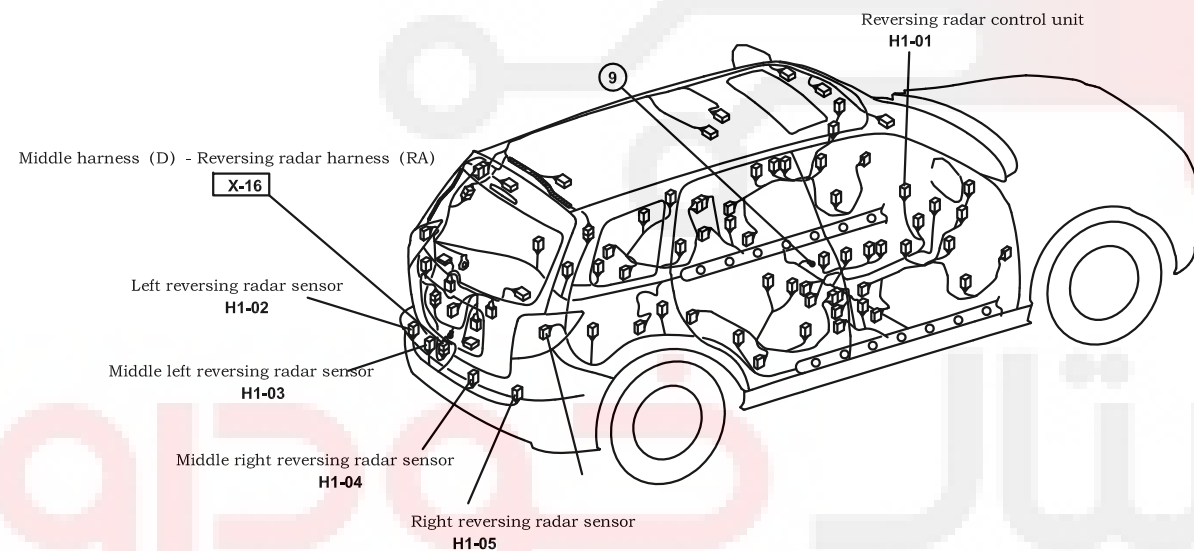


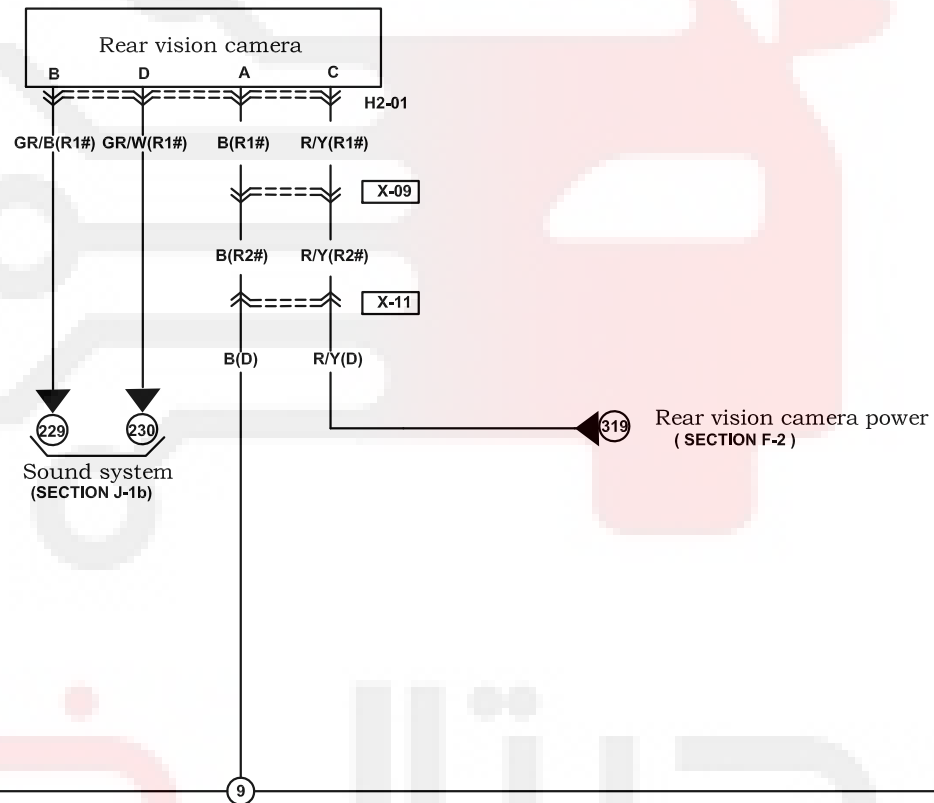
H1-04 Middle right reversing radar sensor(RA)



H1-05 Right reversing radar sensor(RA)

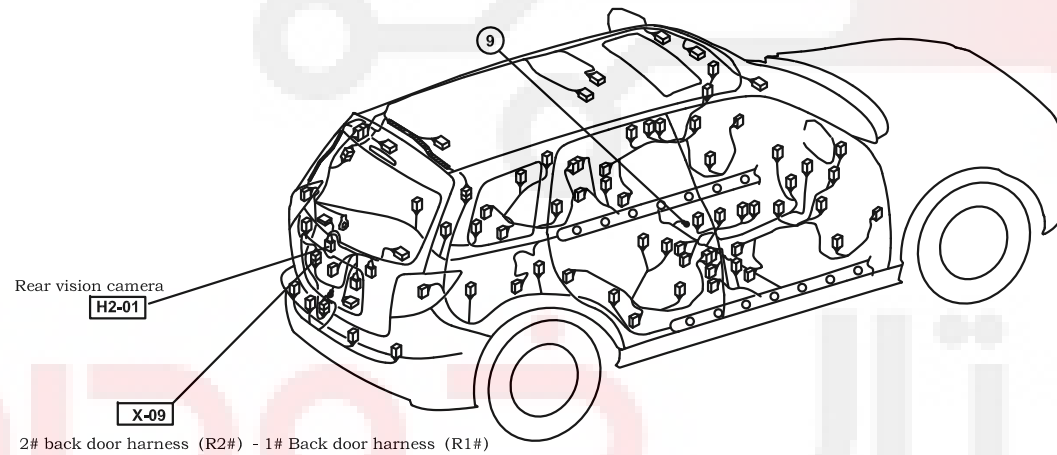


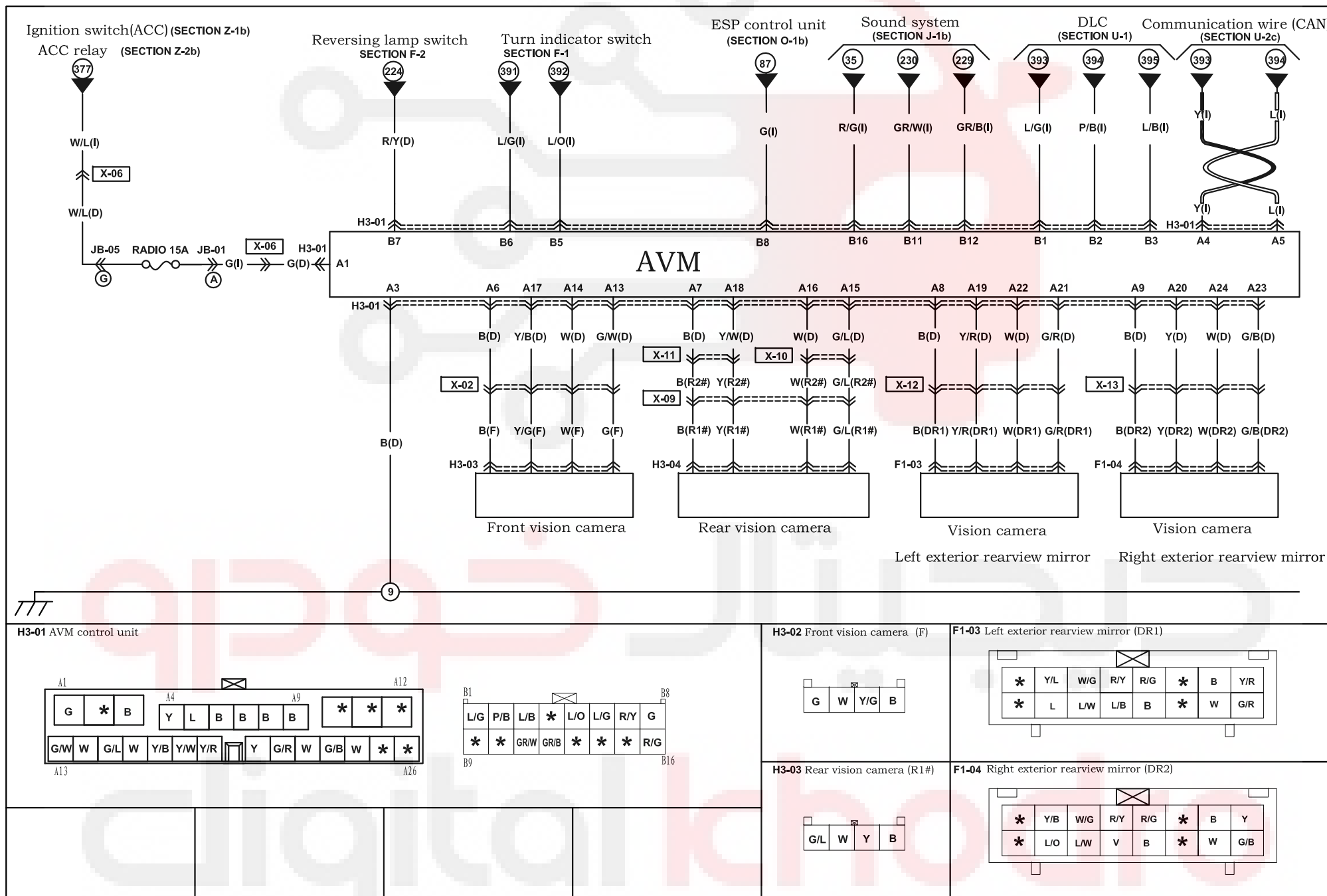


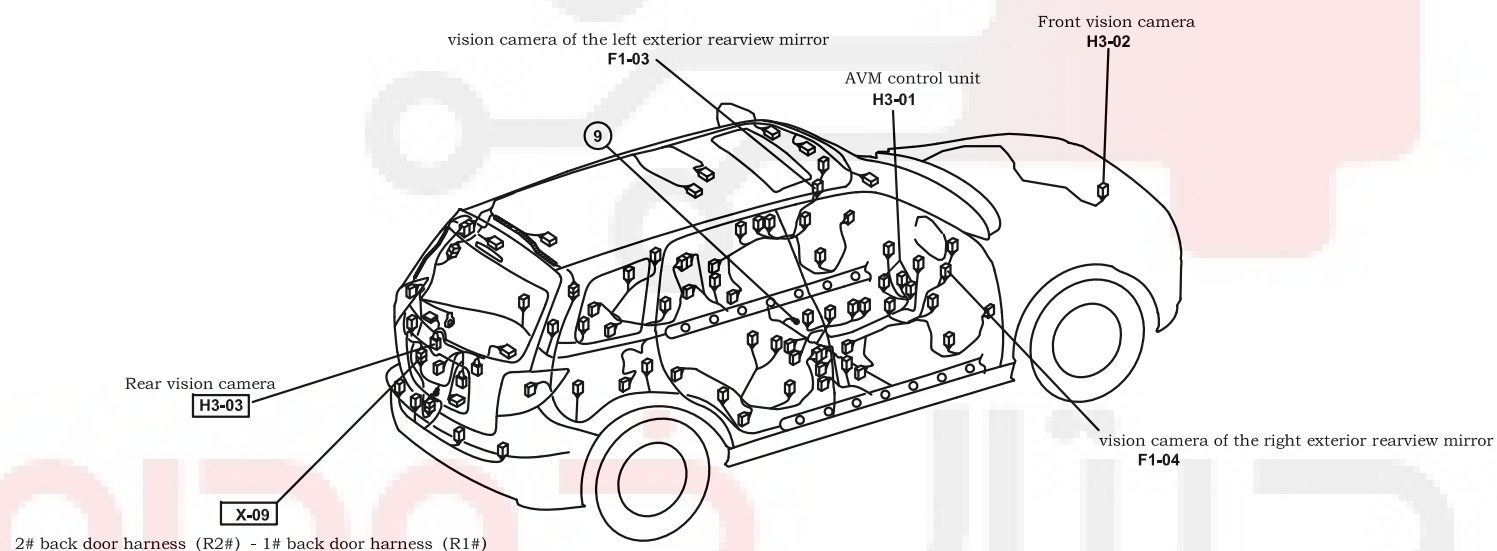


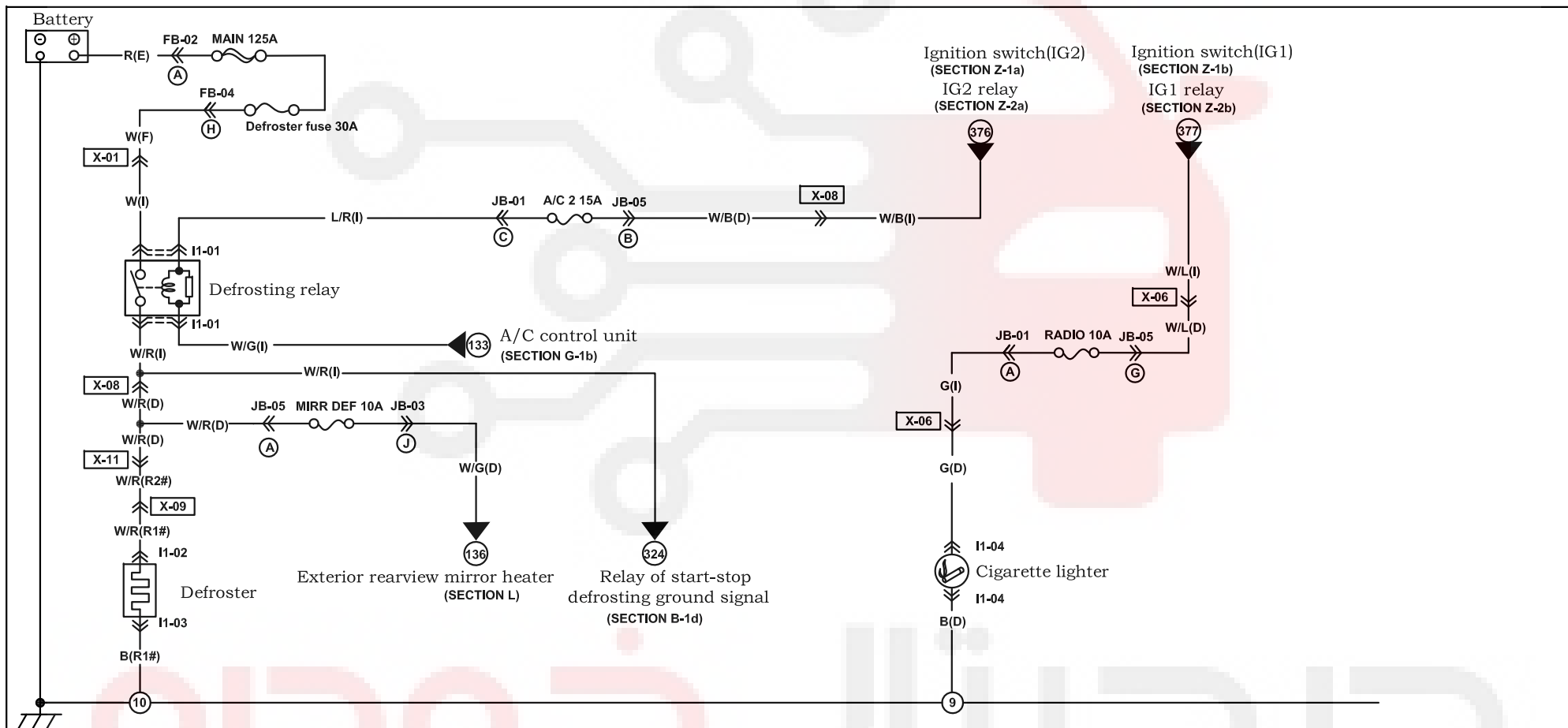
H2-01 Rear vision camera (R1#)

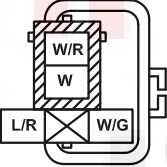
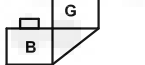
C	A
R/Y	B
GR/W	GR/B
D	B

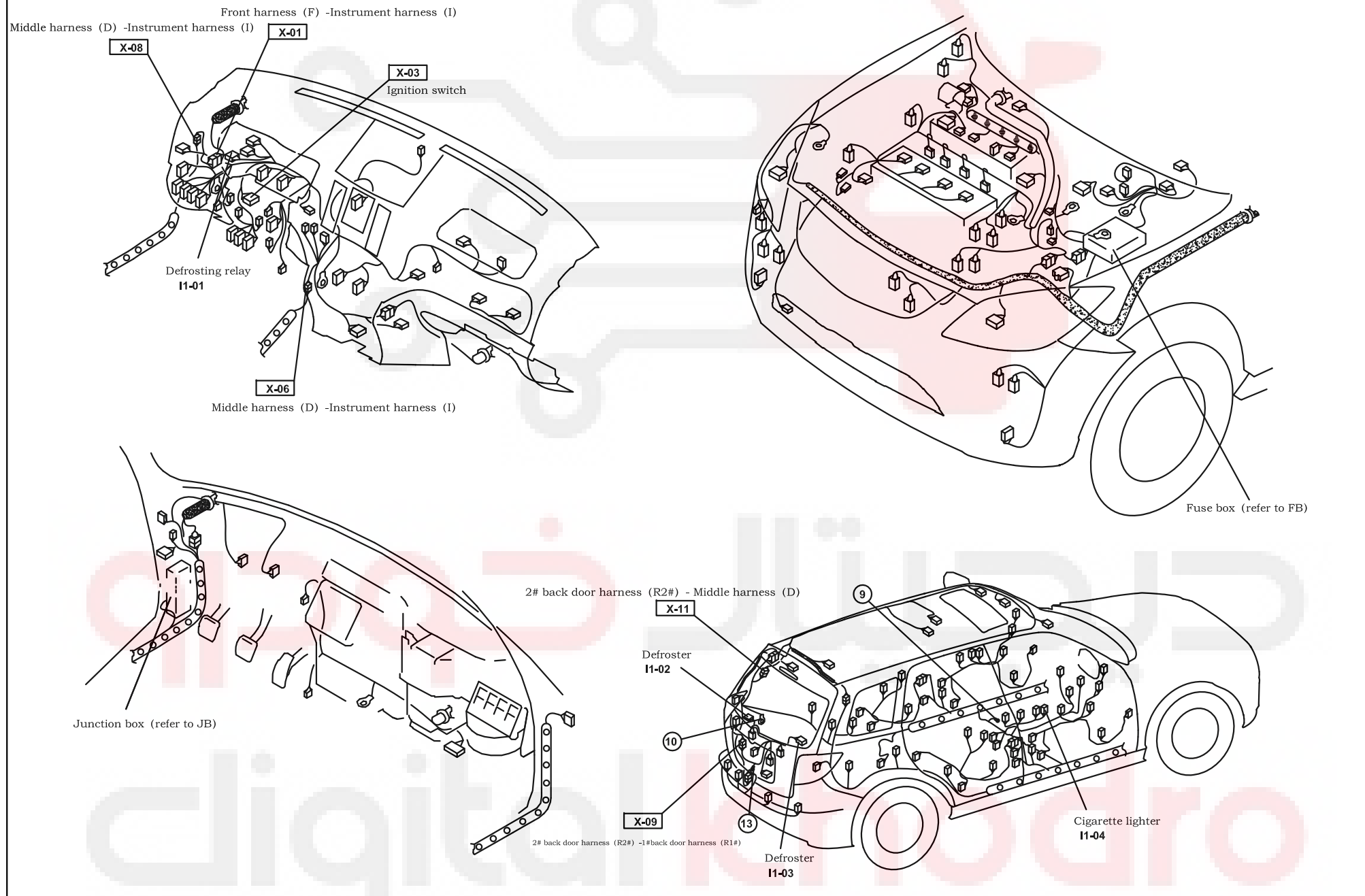


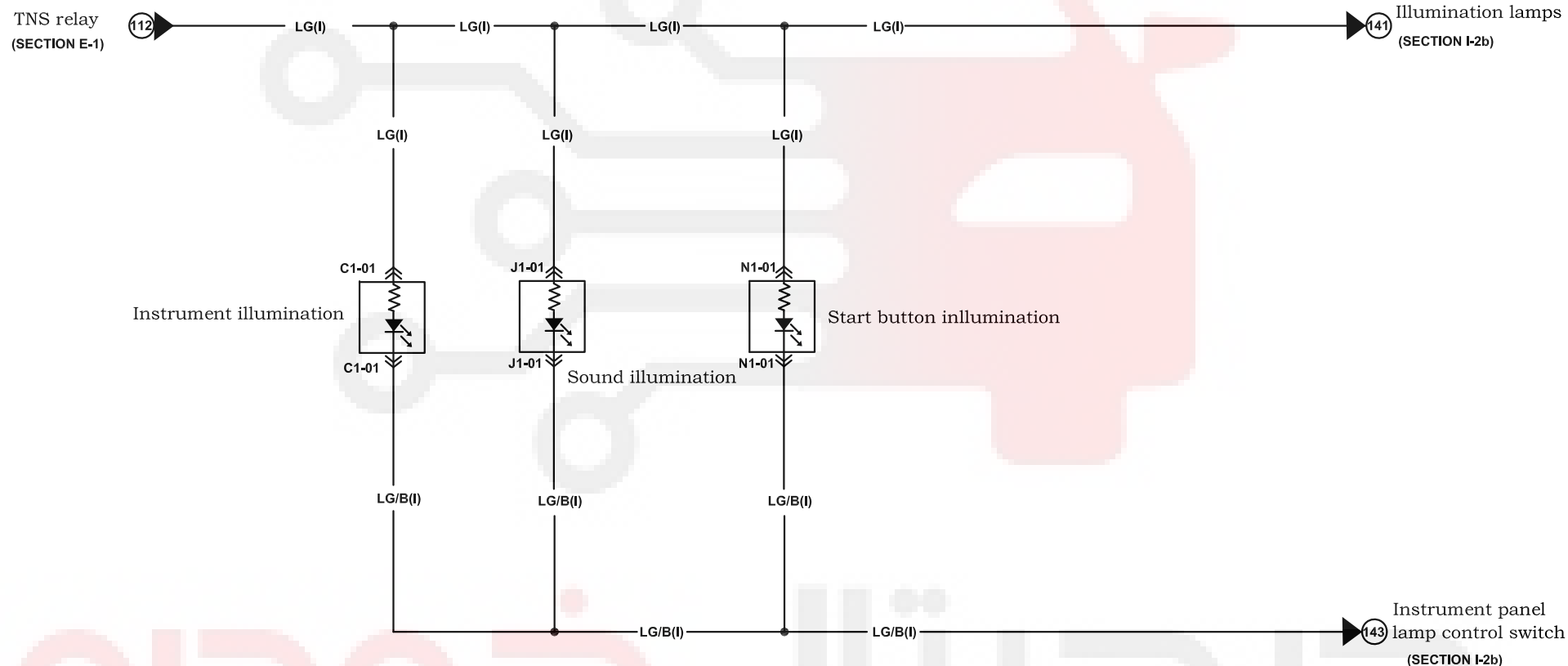






I1-01 Defrosting relay (I) 	I1-02 Defroster (R1#) 	I1-03 Defroster (R1#) 	I1-04 Cigarette lighter (I) 		
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C1-01 Combined instrument (I)

() 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

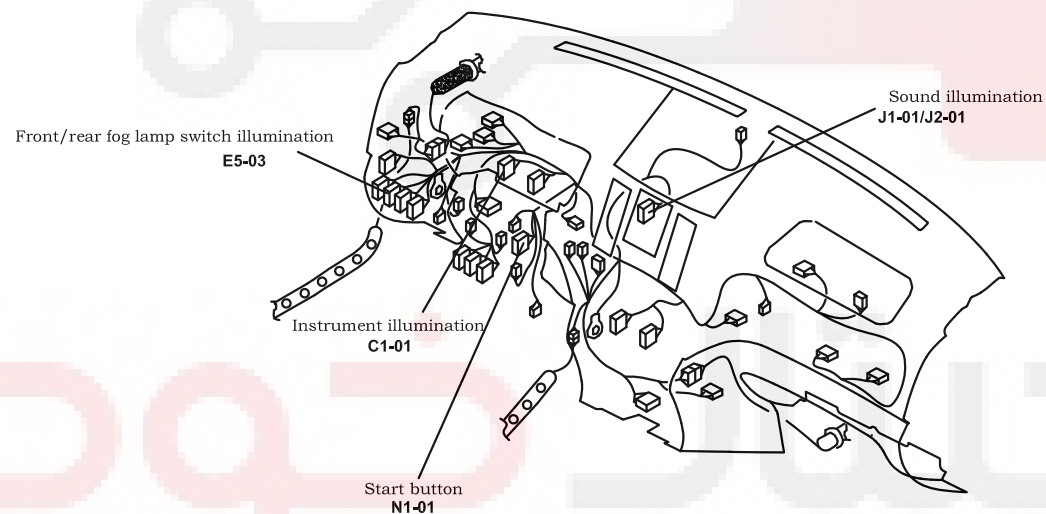
J1-01 Sound unit (I)

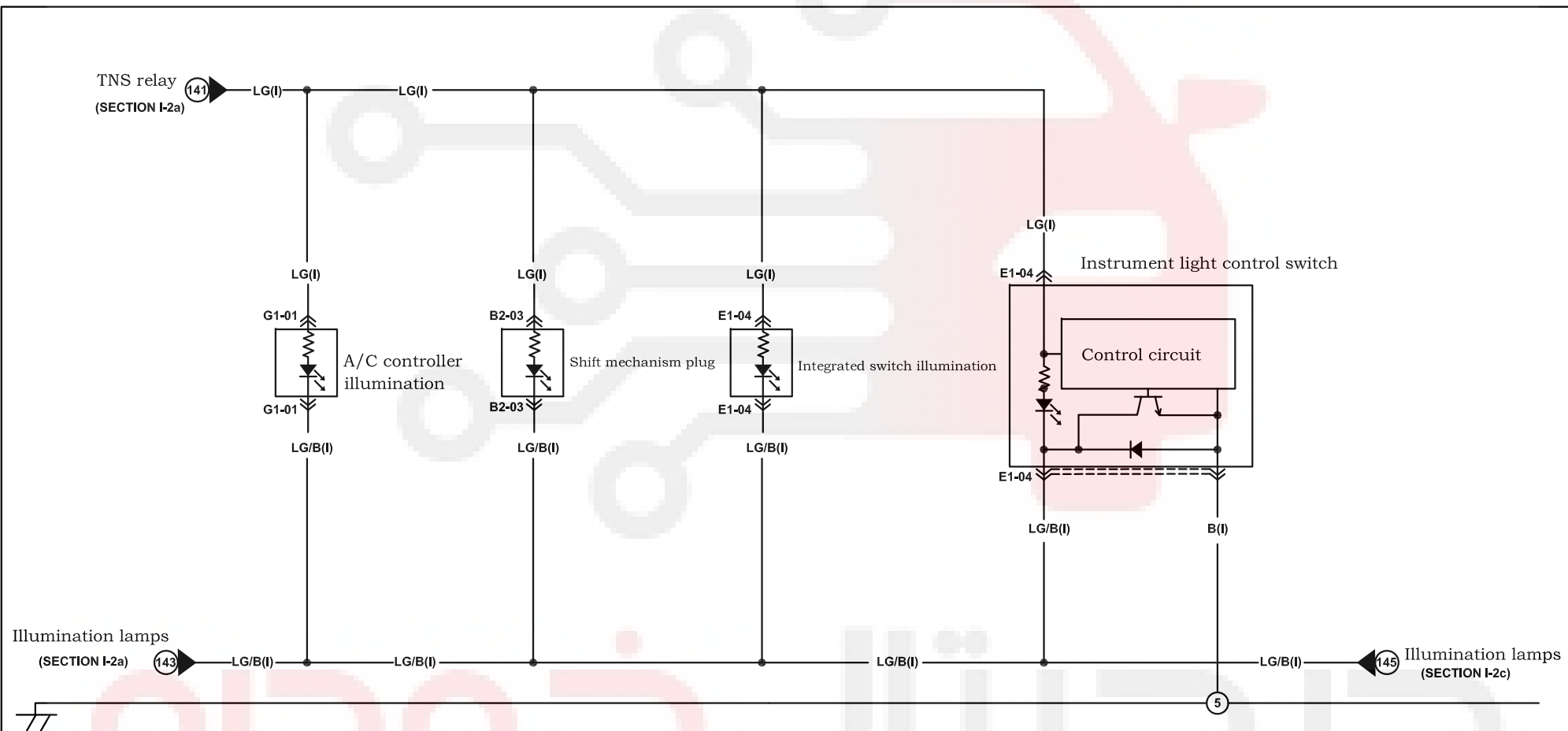
Yellow C1				Green C2				Blue C3			
1	R/B	G	4	7	B/G	GR/B	10	*	*	*	
3	*	R/Y	6	9	GR/W	Y	12	*	*	*	
2	R/L	G/Y	5	8	L/O	*	11	*	*	*	

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





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

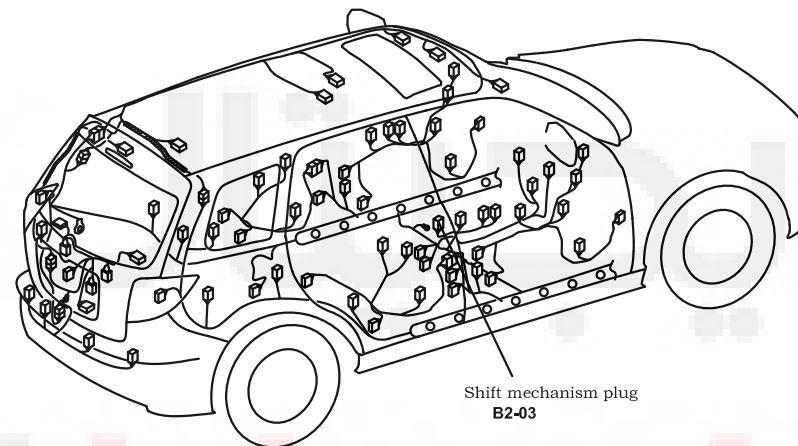
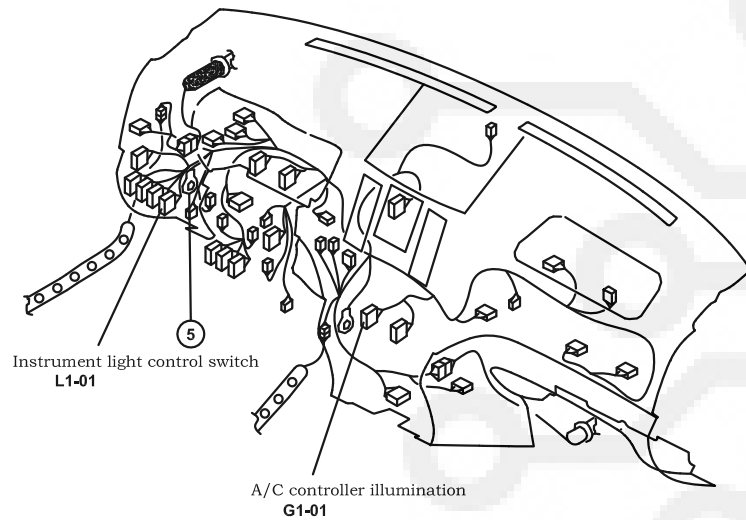
D1										D10				
LG	L/R	L/W	R/G	L	O	R/B	W/R	*	GR/L					
LG/B	V	Y/B	W/L	R/L	Y	Y/G	L/Y	*	*					
D11										D20				

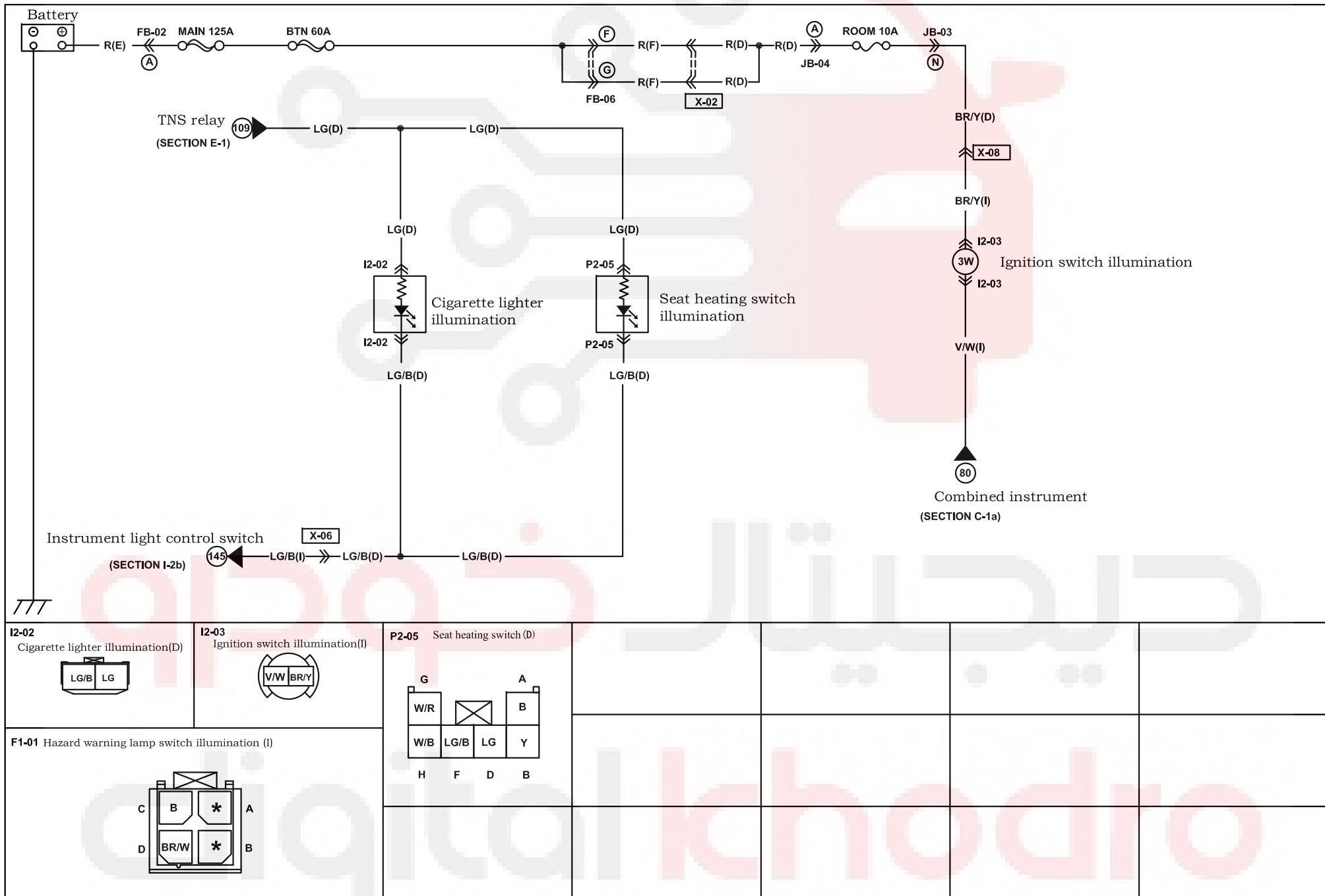
L1-01 Instrument light control switch (I)

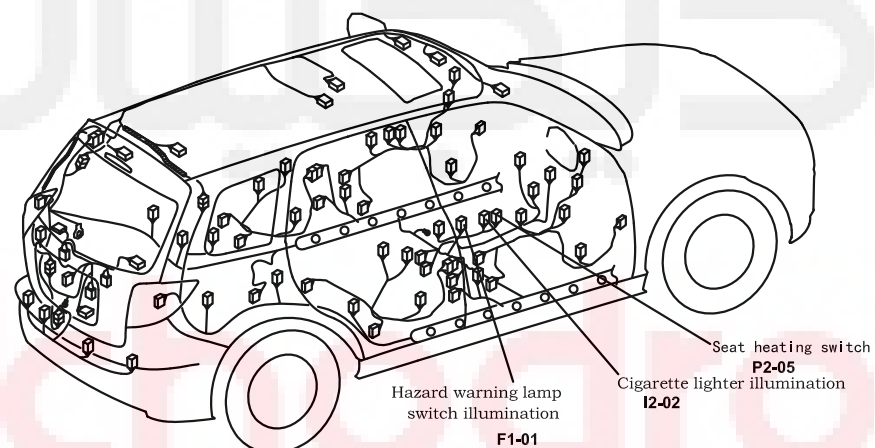
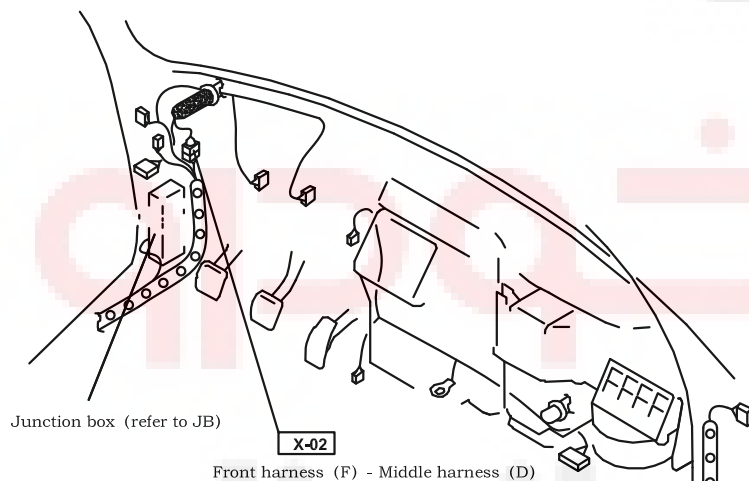
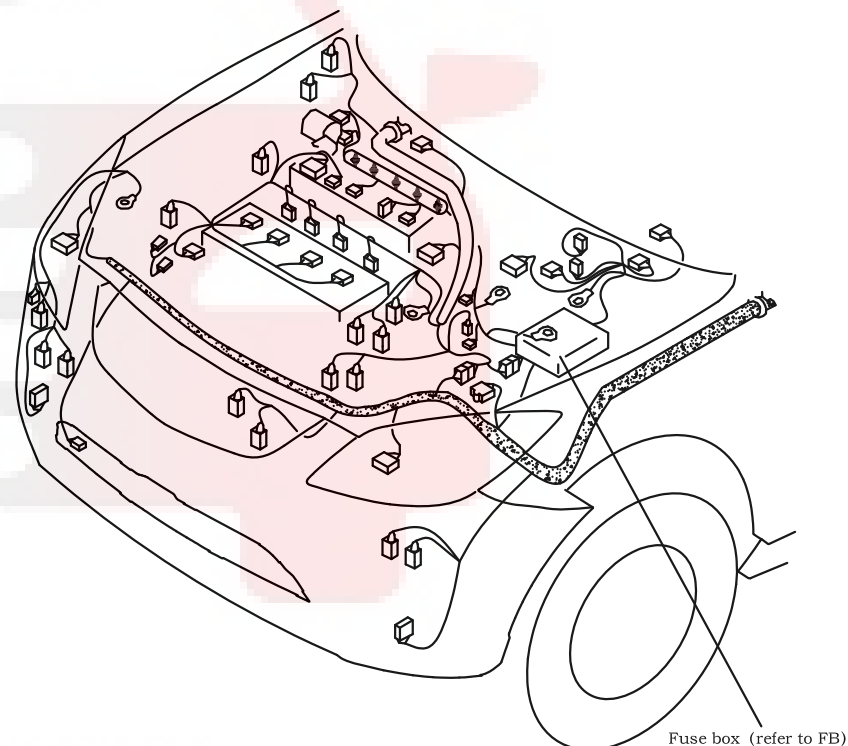
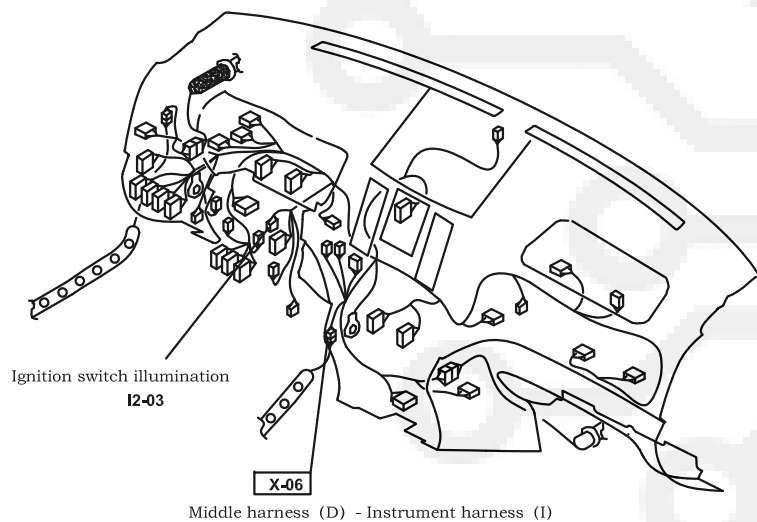
S	Q	O	M	K	I	G	E	C	A
R/B	LG	LG/B	L/W	L	L/O	L/B	V	R/G	R/Y
B	P	G/B	&P/L	W	*	*	*	*	B
T	R	P	N	I	J	H	F	D	B

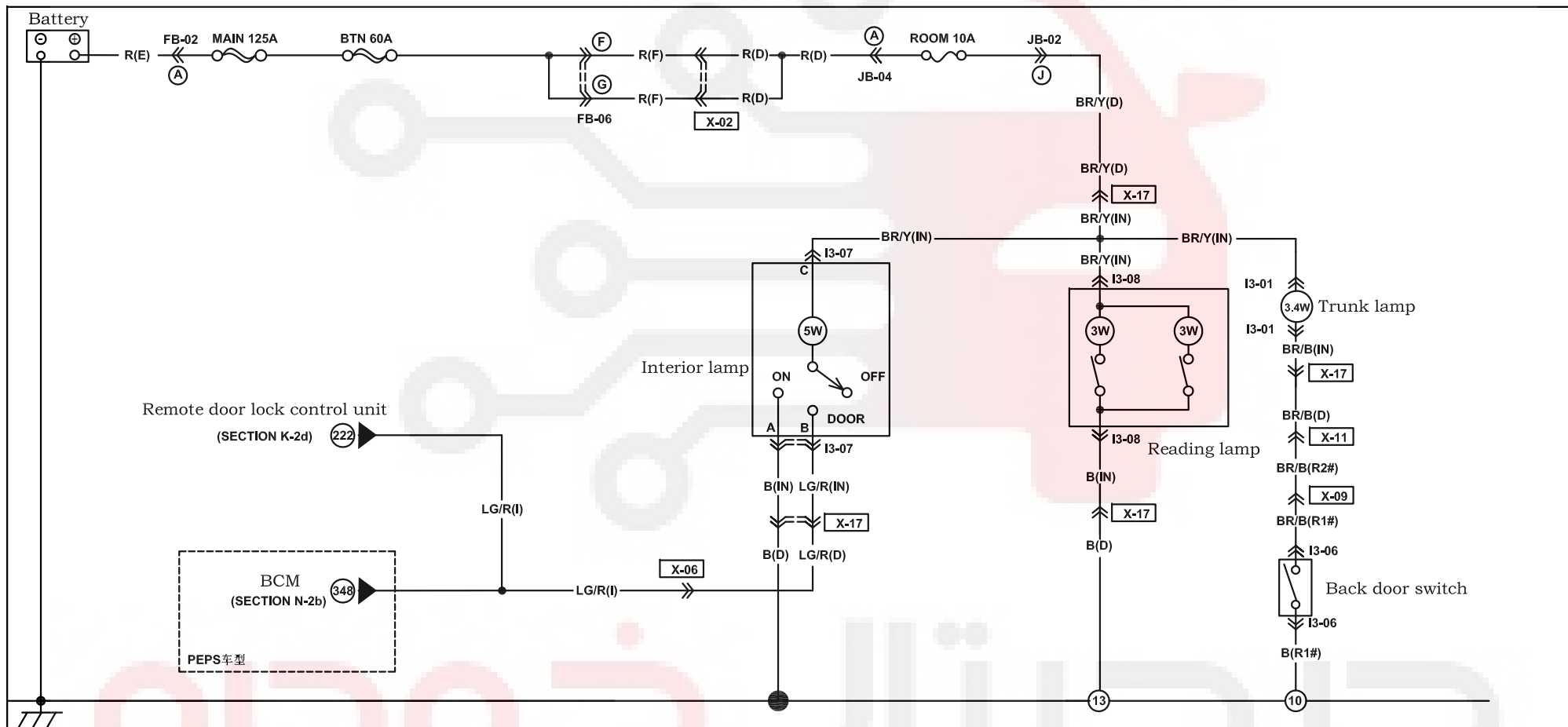
B2-03 Shift mechanism plug (I)

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

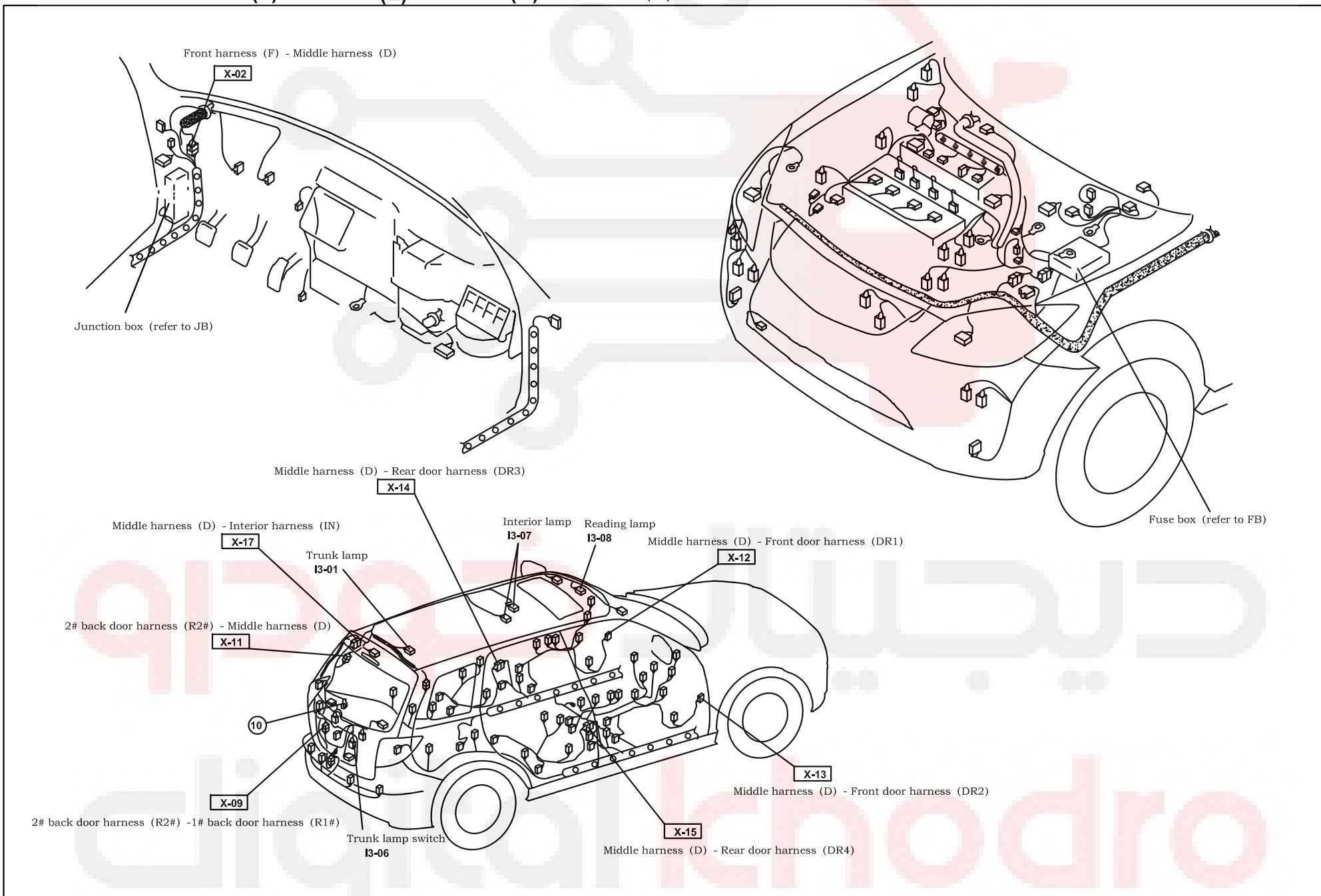


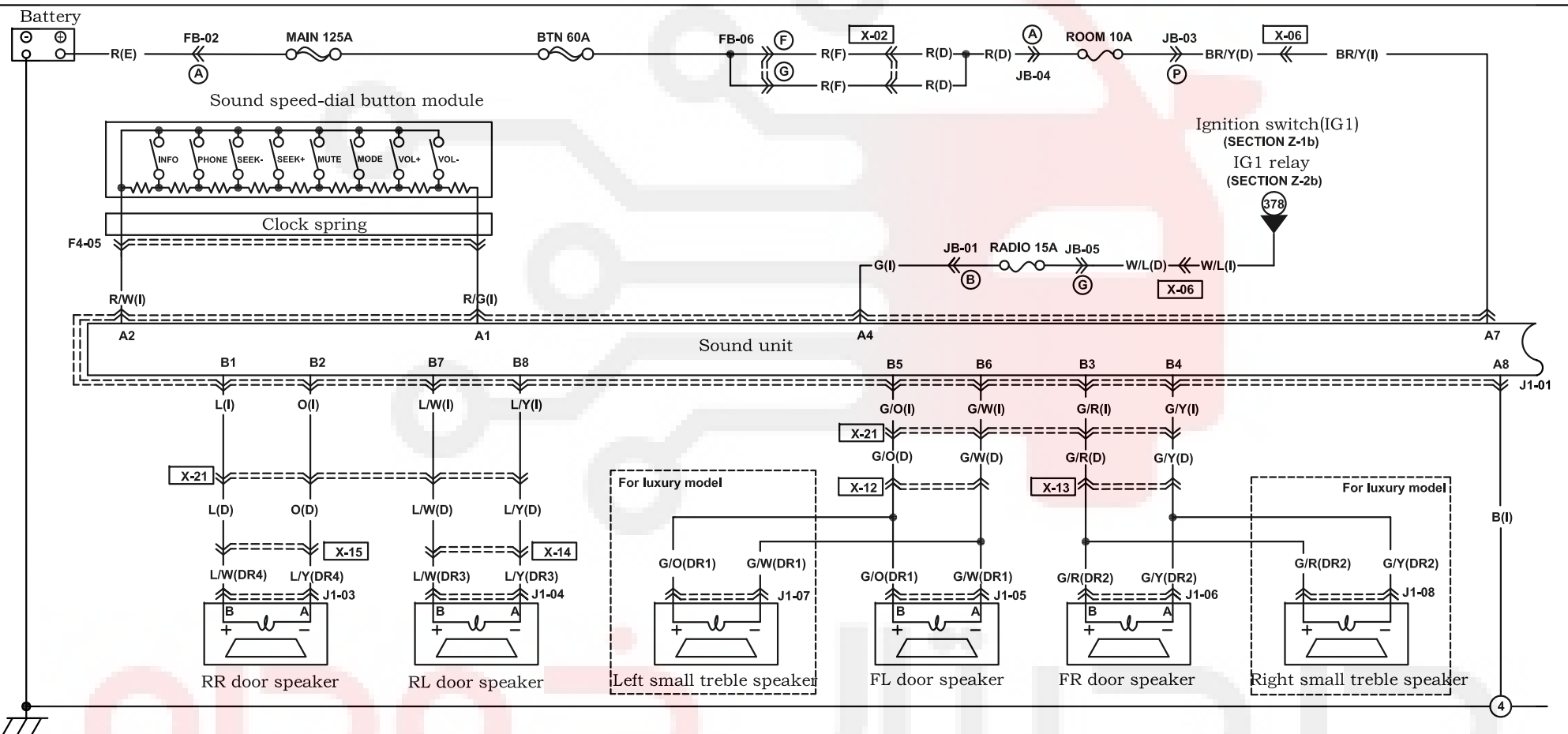






I3-01 Trunk lamp (IN) 	I3-06 Trunk lamp switch (R1#) 	I3-07 Interior lamp (IN) 				
I3-08 Reading lamp (IN) 						





J1-01 Sound unit (I)

Yellow C1	Green C2	Blue C3
R/B	G	B/G
R/Y	GR/W	Y
R/L	G/Y	L/O

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

J1-03 RL door speaker(DR3)



J1-04 RR door speaker(DR4)



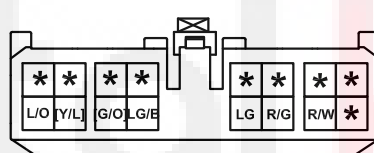
J1-05 FL door speaker(DR1)

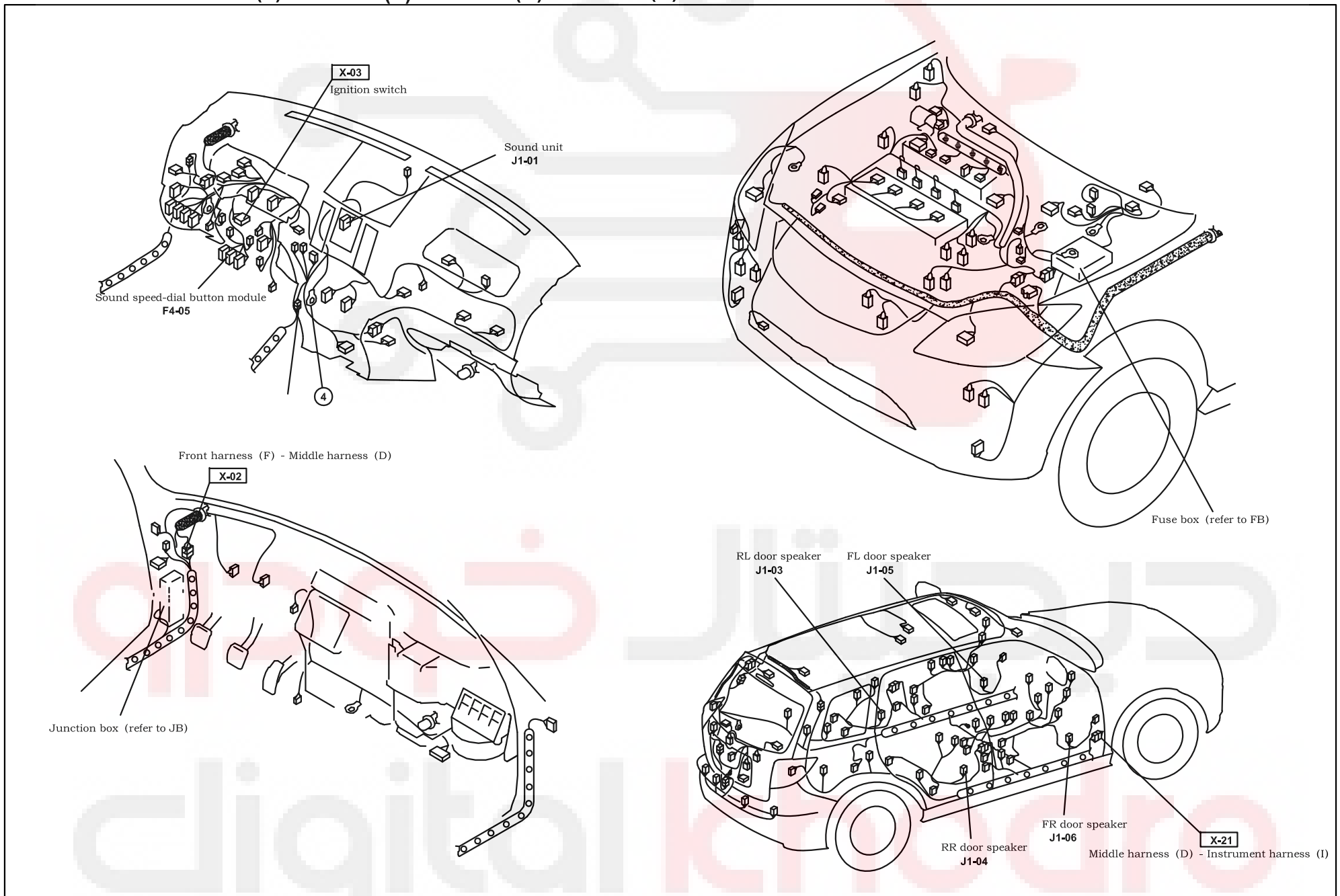


J1-06 FR door speaker (DR2)

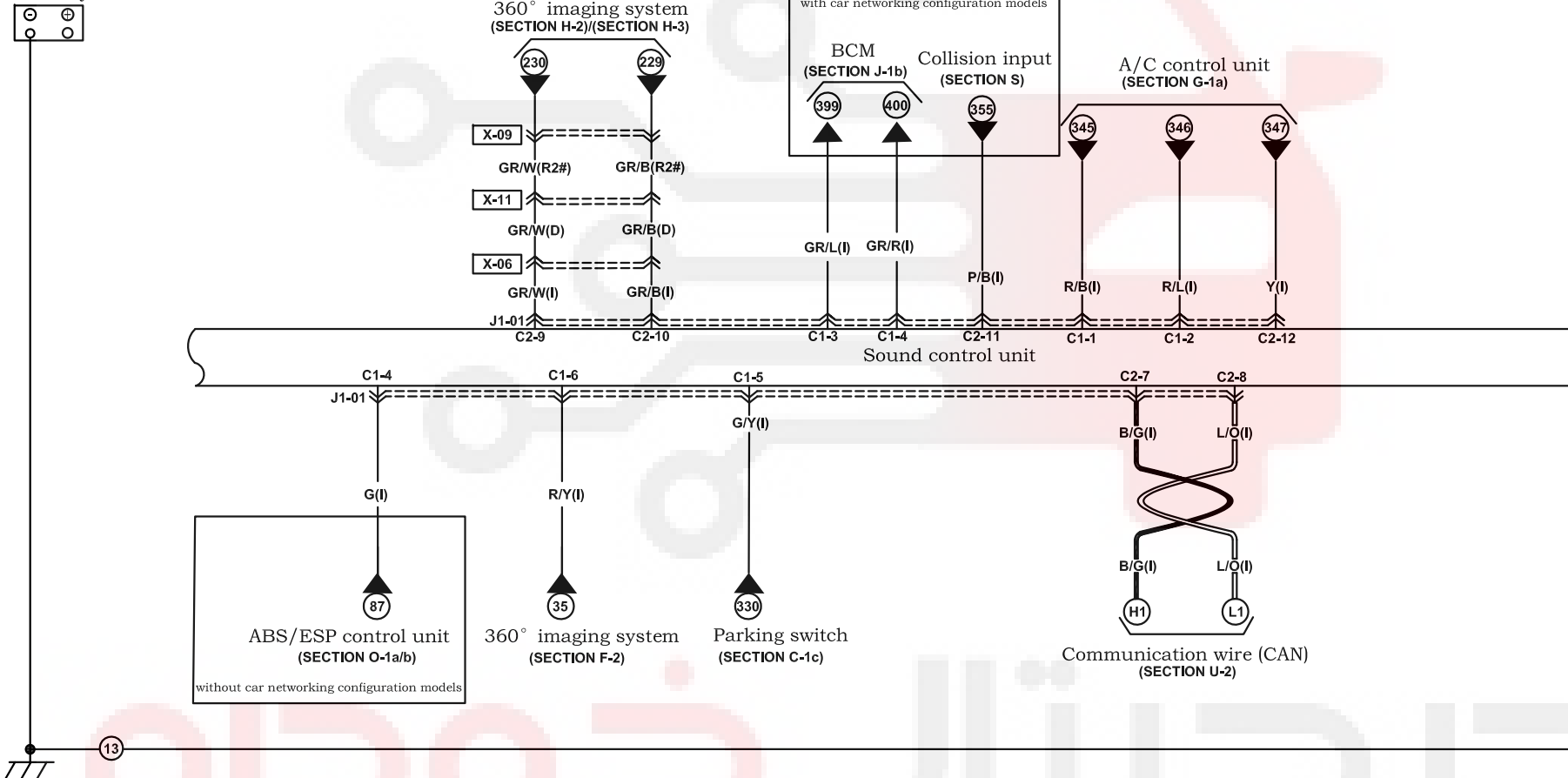


F4-05 Sound speed-dial button module (I) [] with cruise





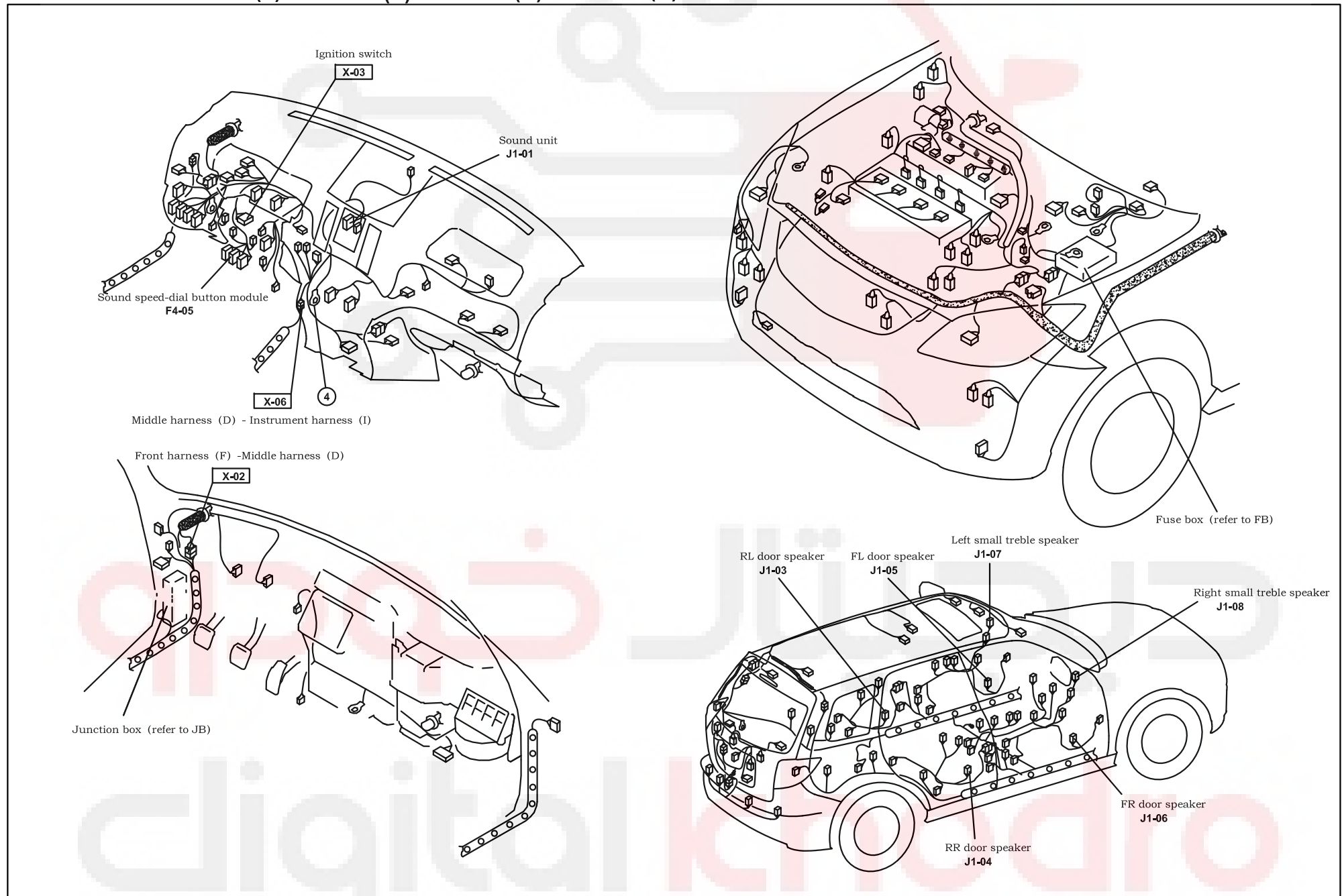
Battery

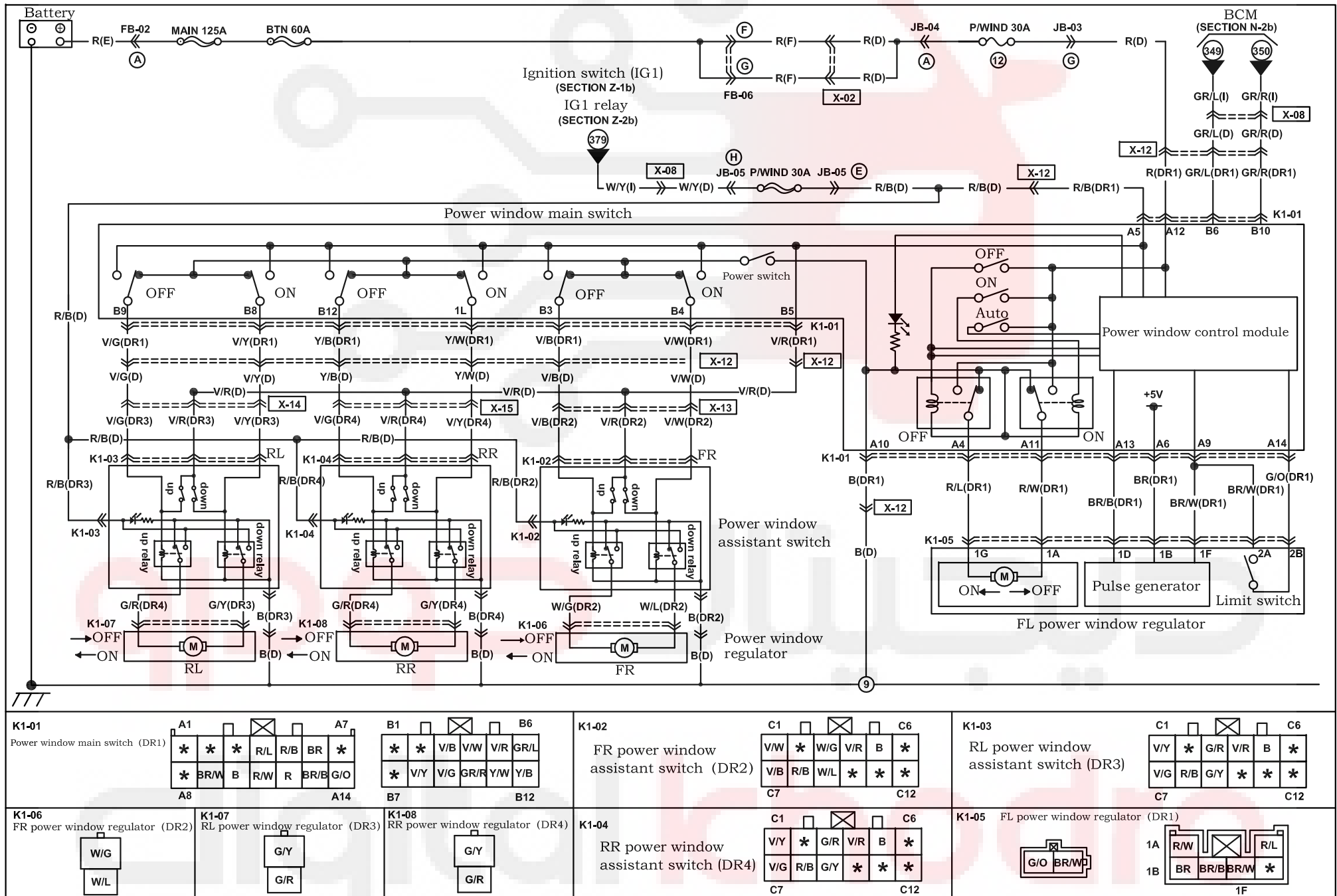


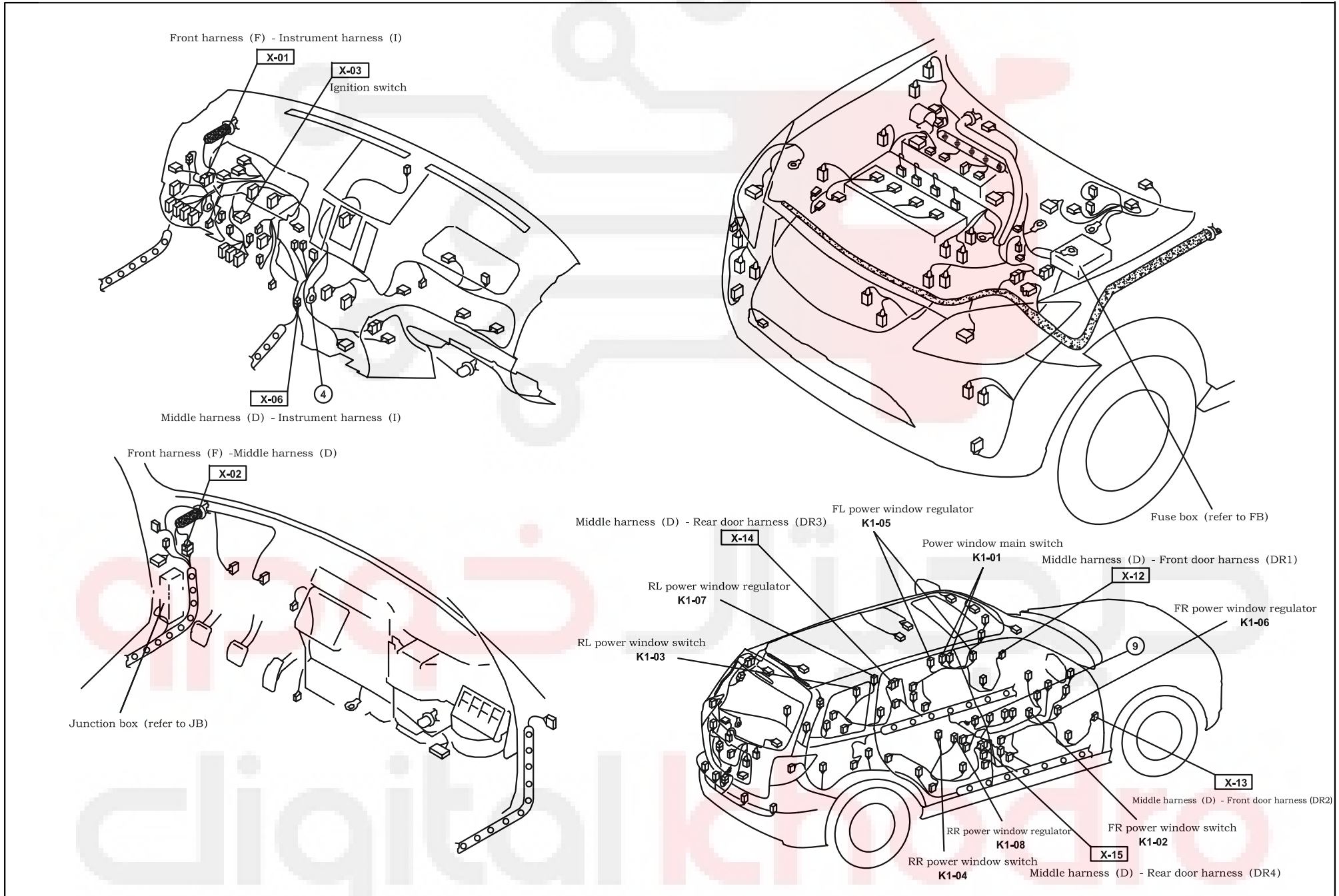
J1-01 Sound control unit (I) with car networking configuration models

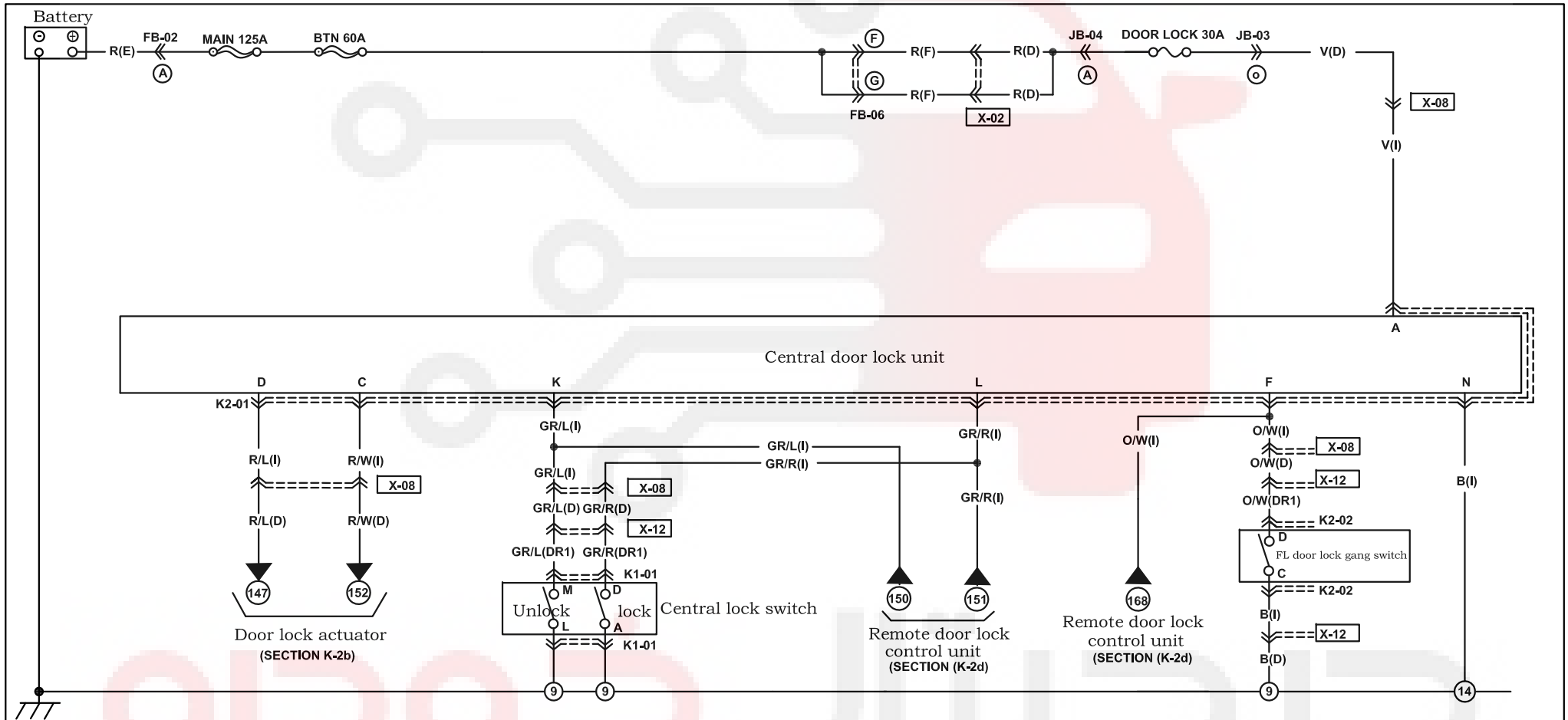
Yellow C1				Green C2				Blue C3			
1	R/B	1	IGR/R	7	B/G	7	GR/B	1	*	*	*
2	IGR/L	2	R/Y	8	GR/W	8	Y	2	*	*	*
3	R/L	3	G/Y	9	L/O	9	IP/B	3	*	*	*

Black				Brown			
A2	R/W	A2	R/G	A1	O	A1	L
4	G	4	LG/B	5	G/Y	5	G/R
5	LG	5	*	6	G/W	6	G/O
A8	B	A8	BR/Y	A7	L/Y	A7	L/W
				B8		B8	

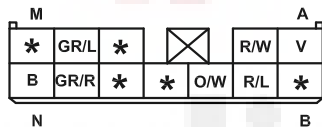




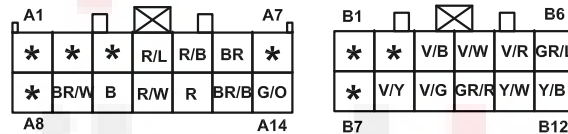




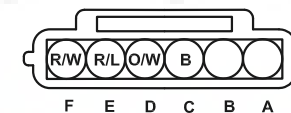
K2-01 Central door lock unit (D)



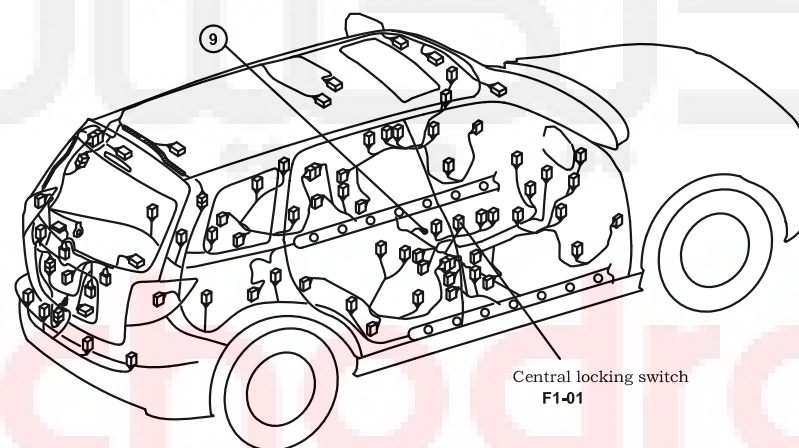
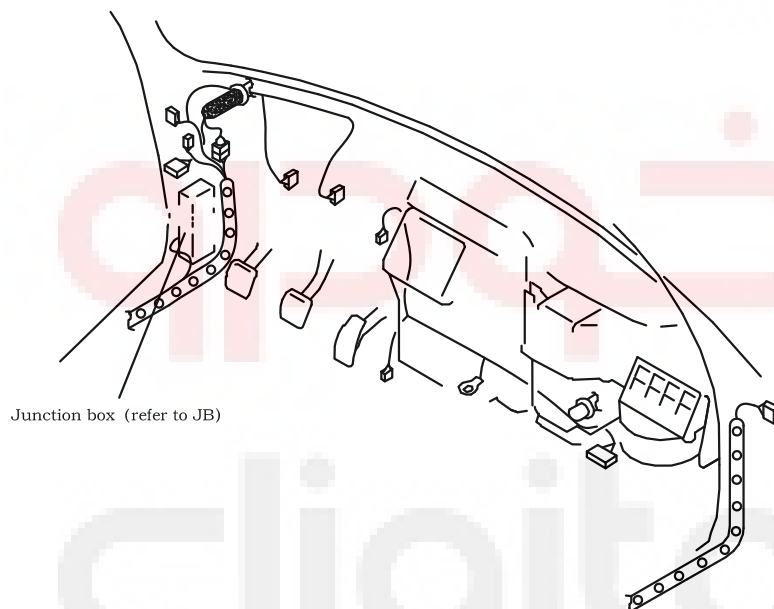
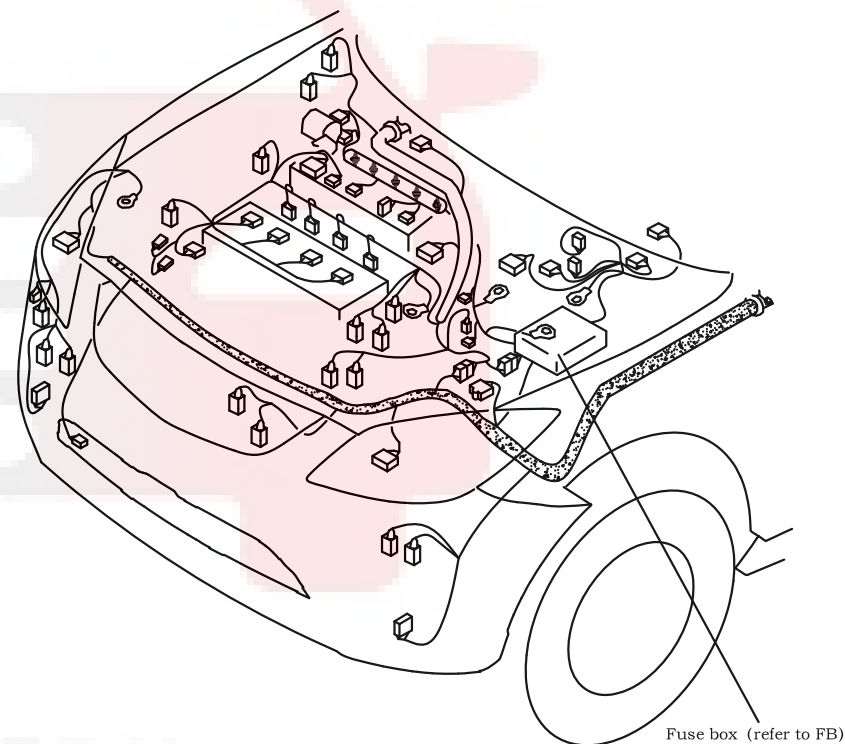
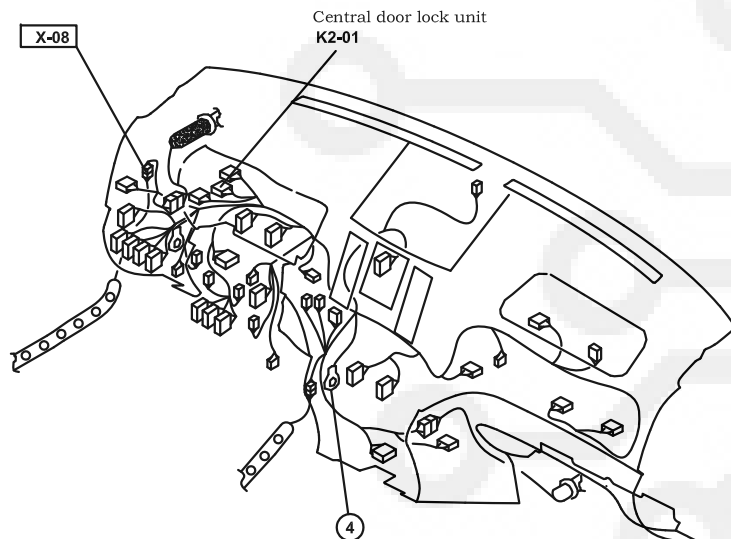
K1-01 Power window main switch (DR1)

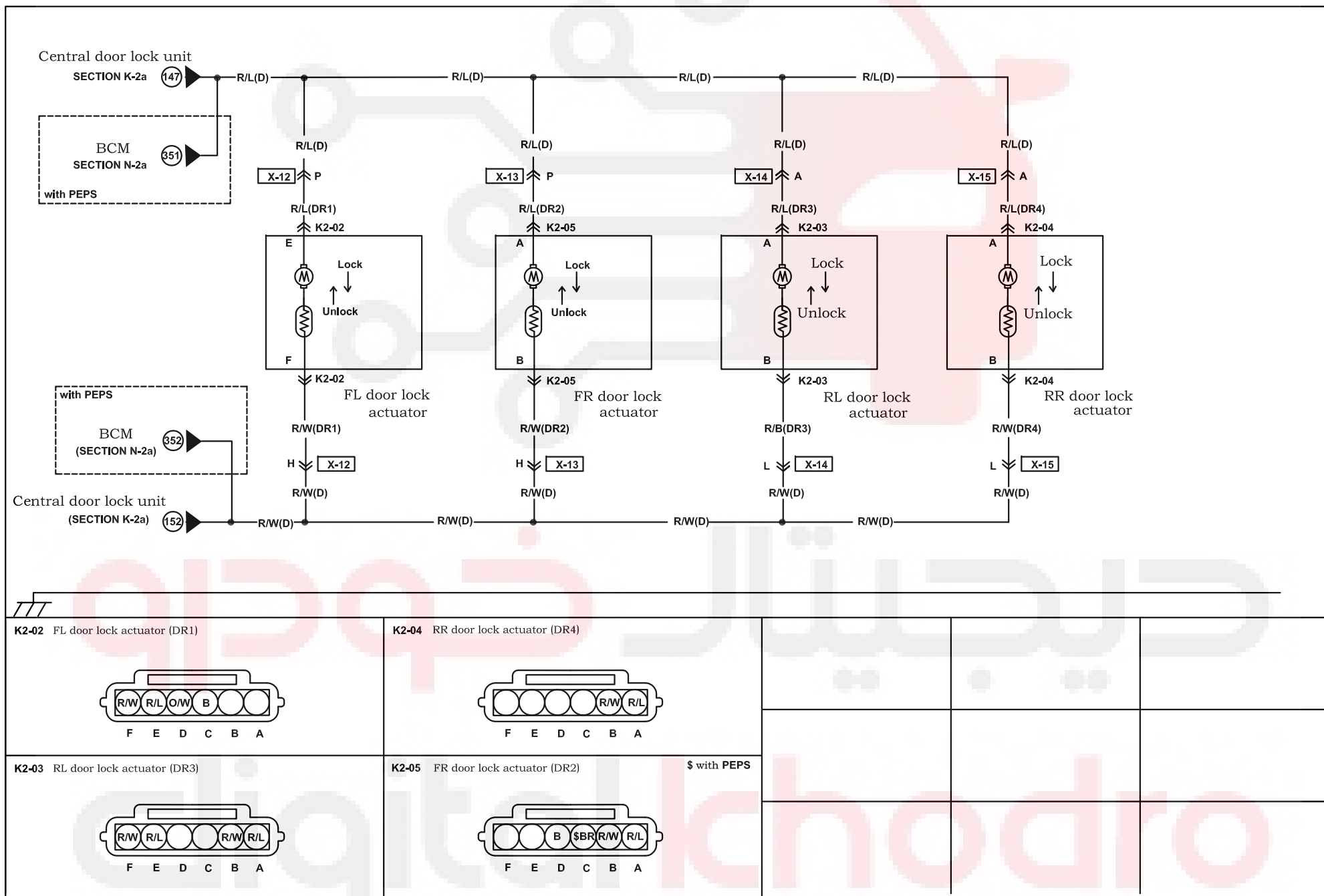


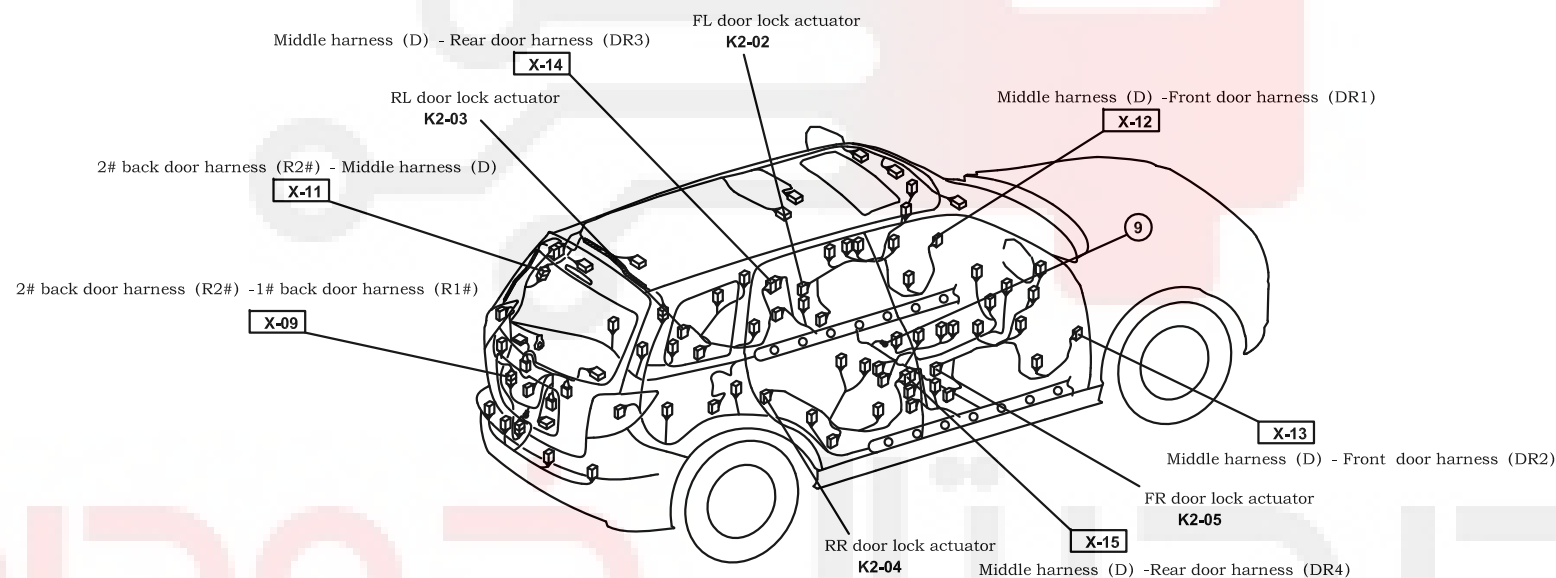
K2-02 FL door lock actuator (DR1)

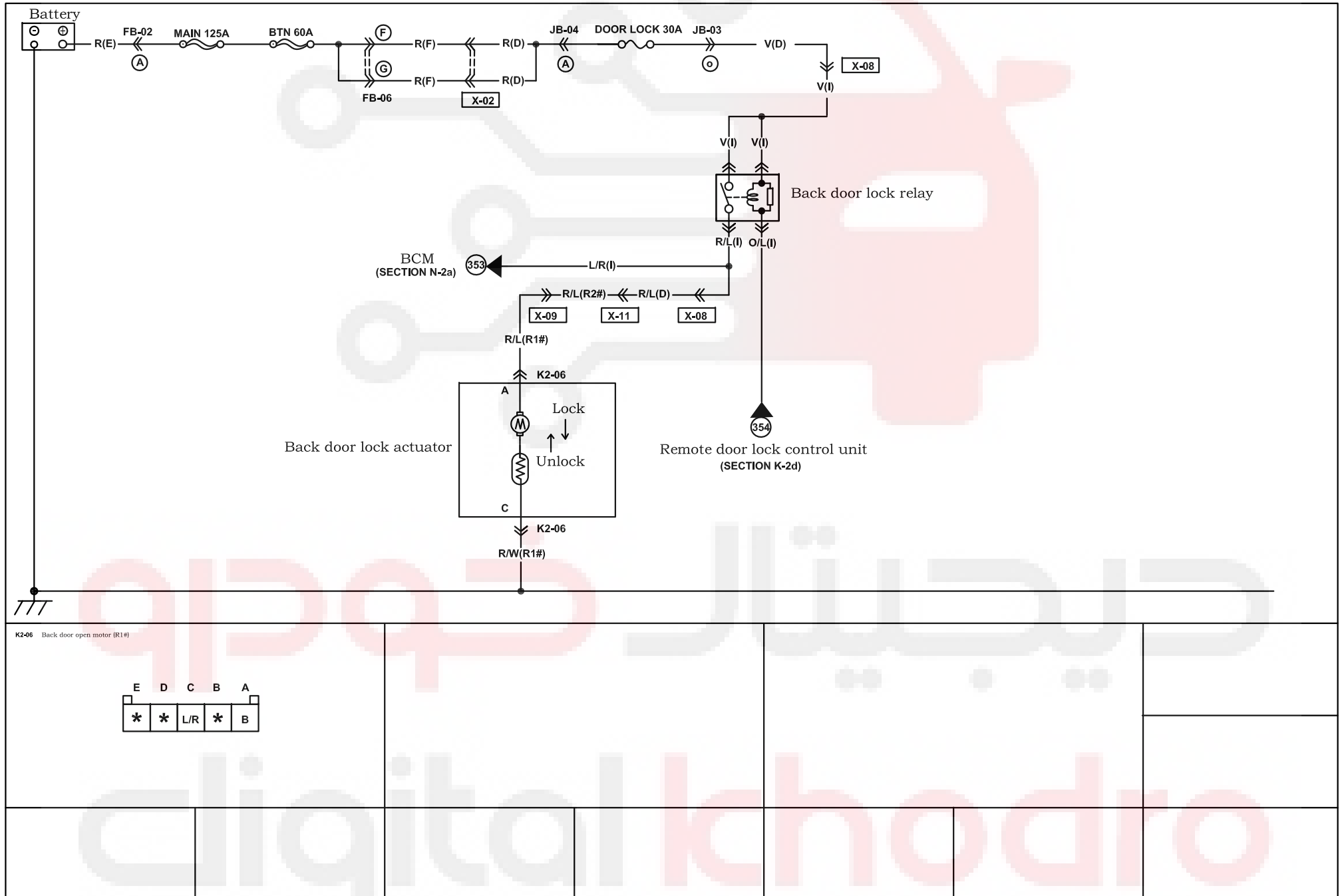


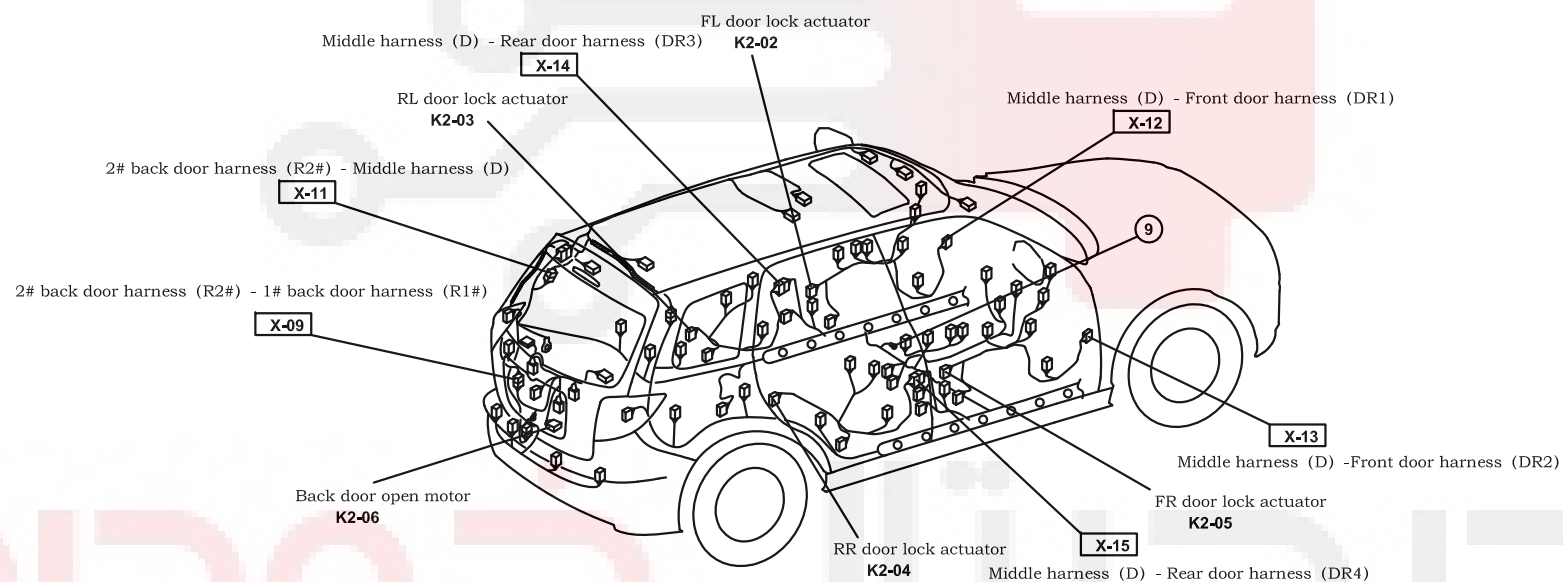
Middle harness (D) - Instrument harness (I)

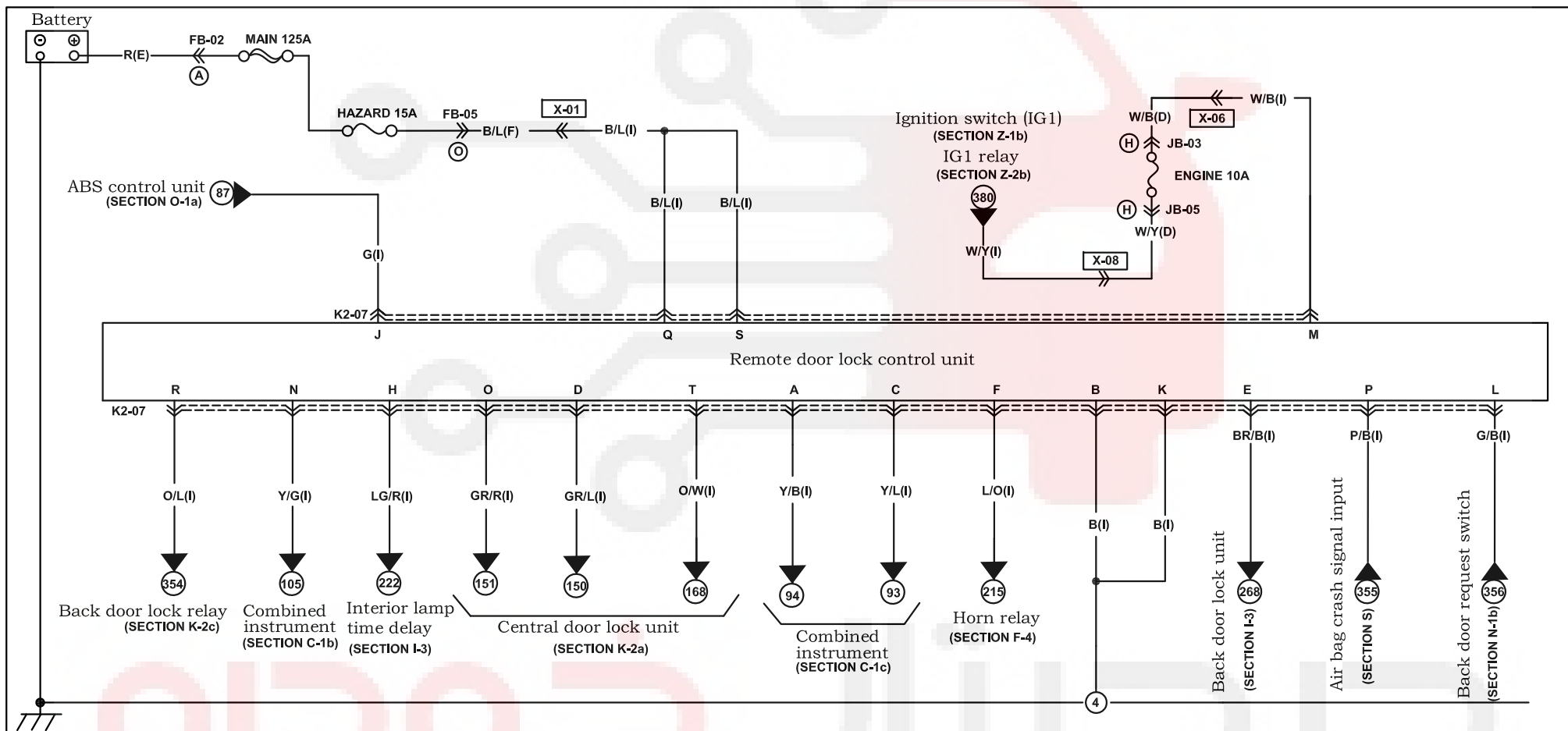






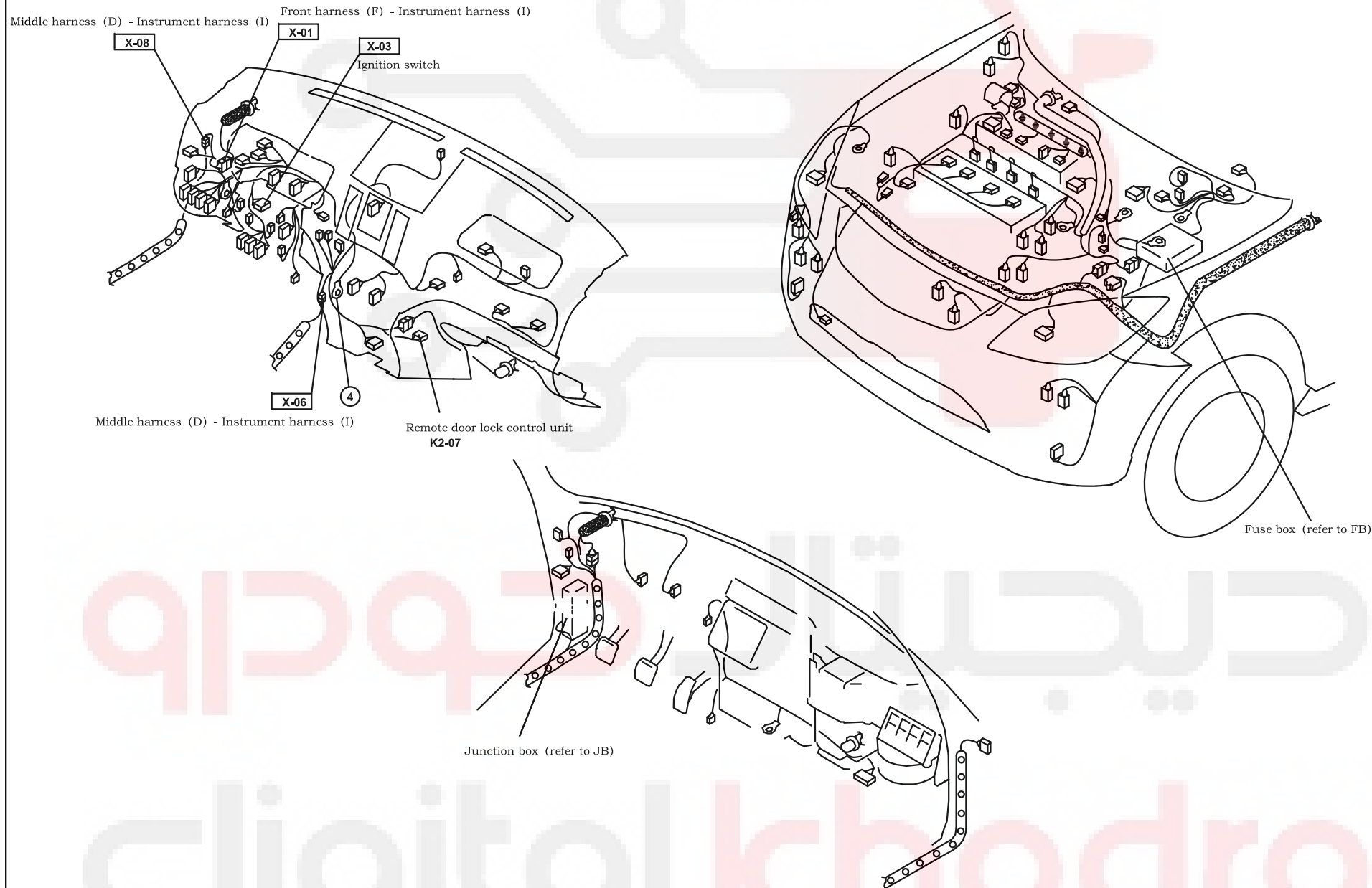


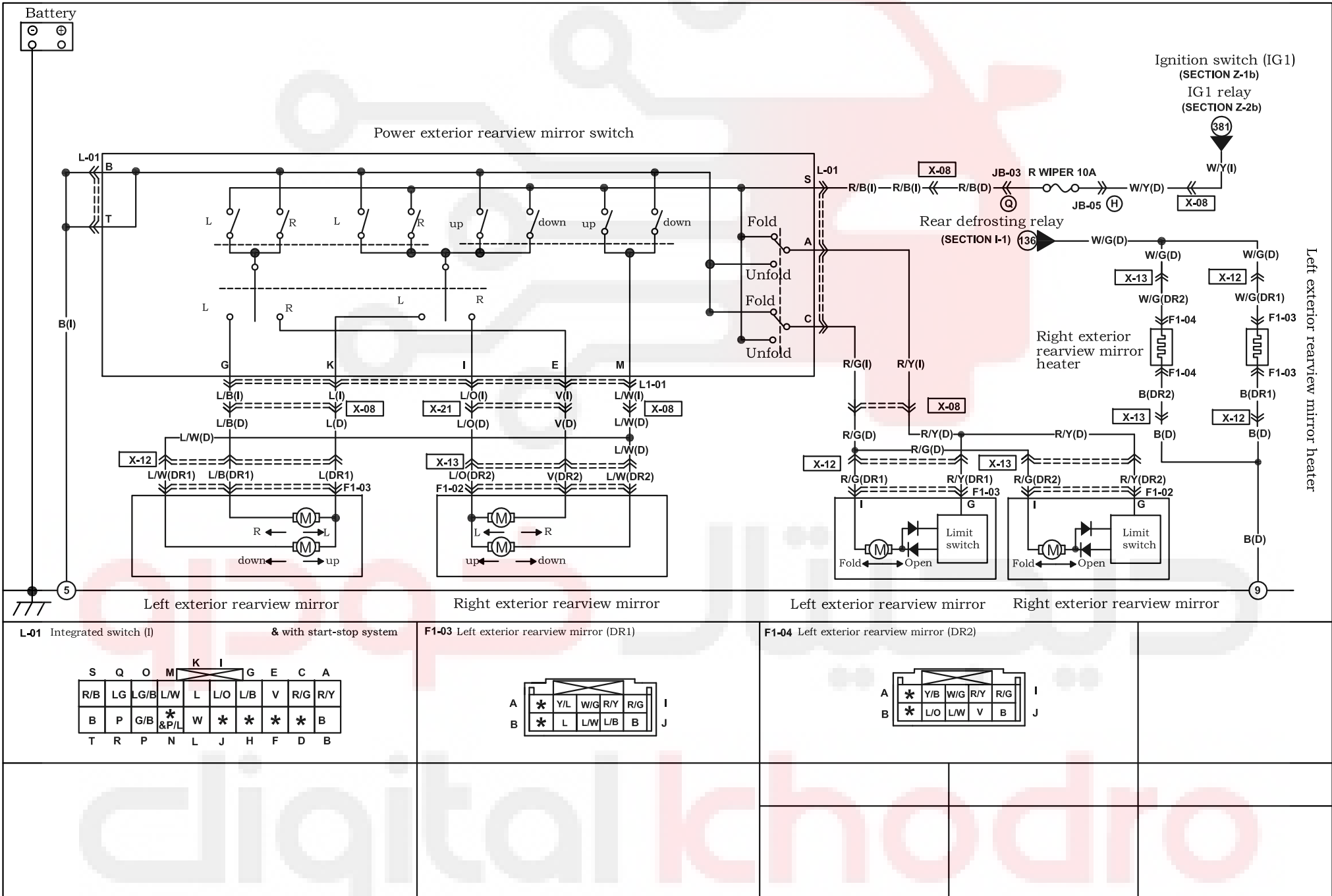


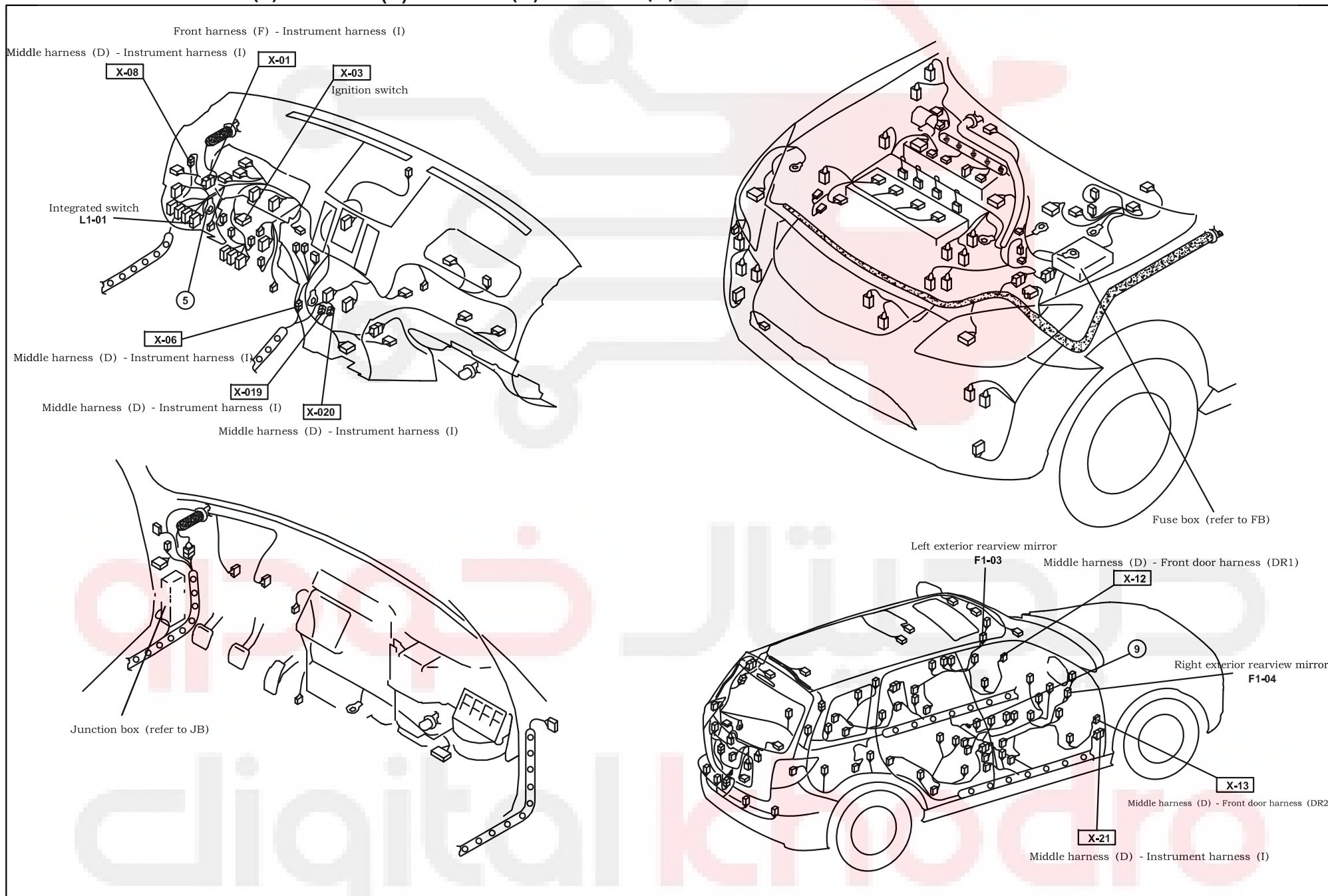


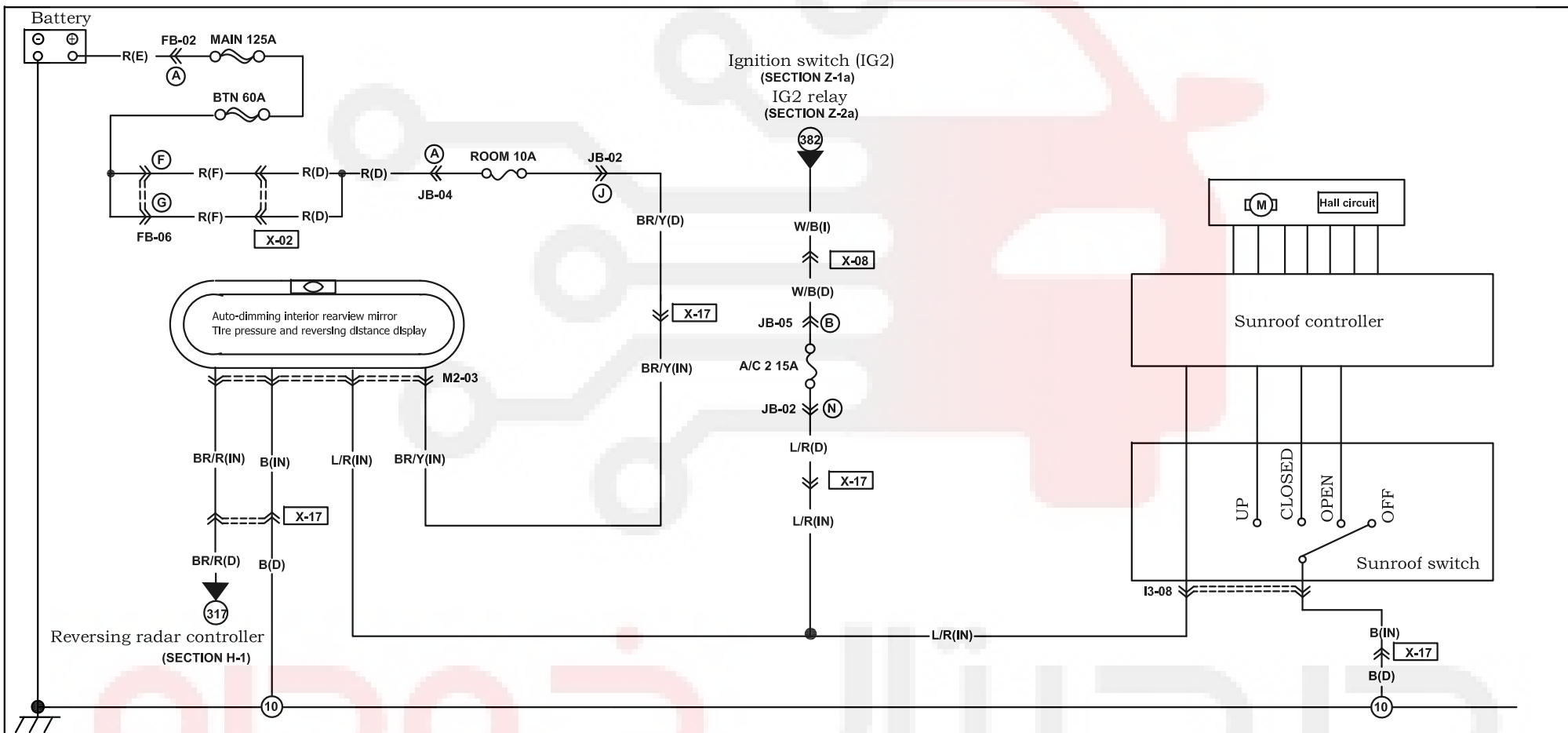
K2-07 Remote door lock control unit (I)

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

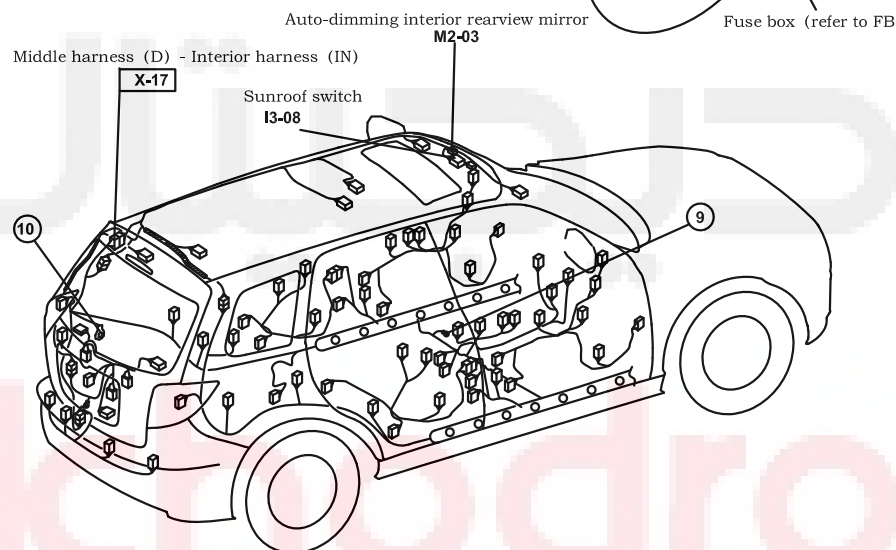
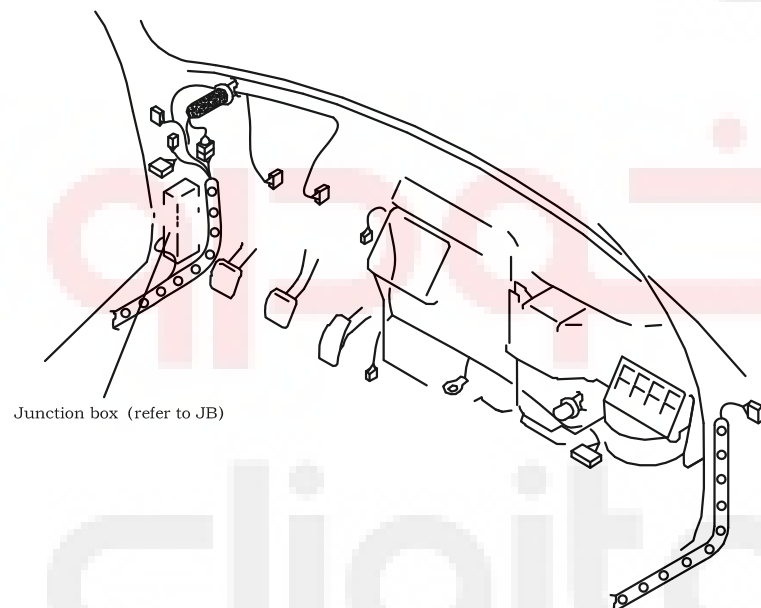
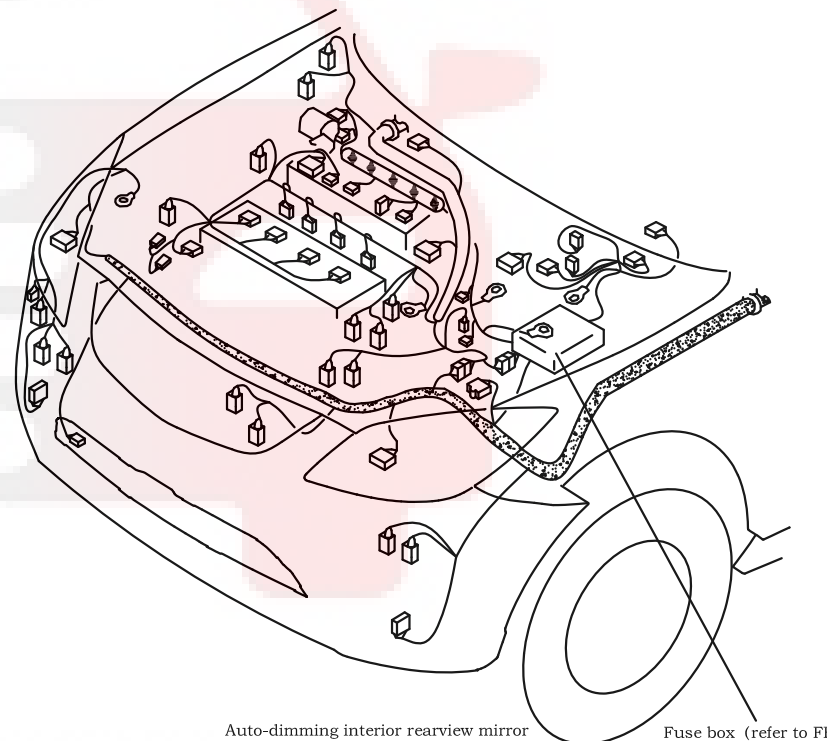
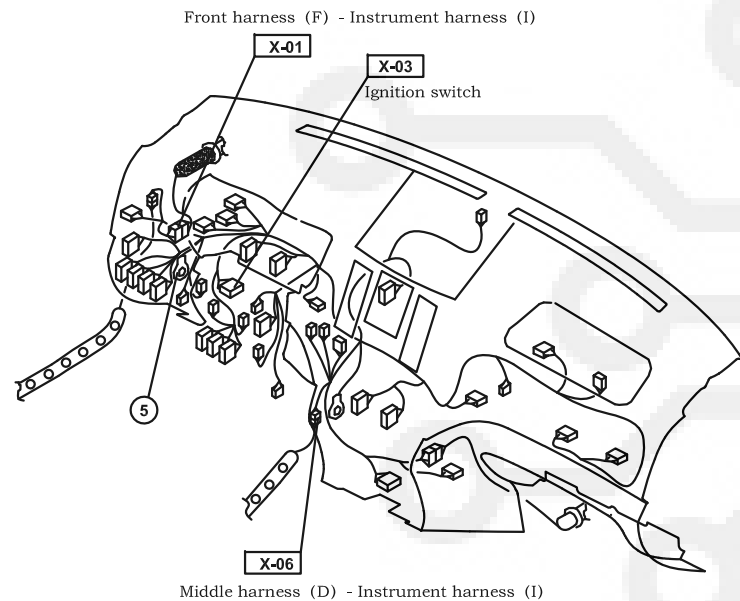


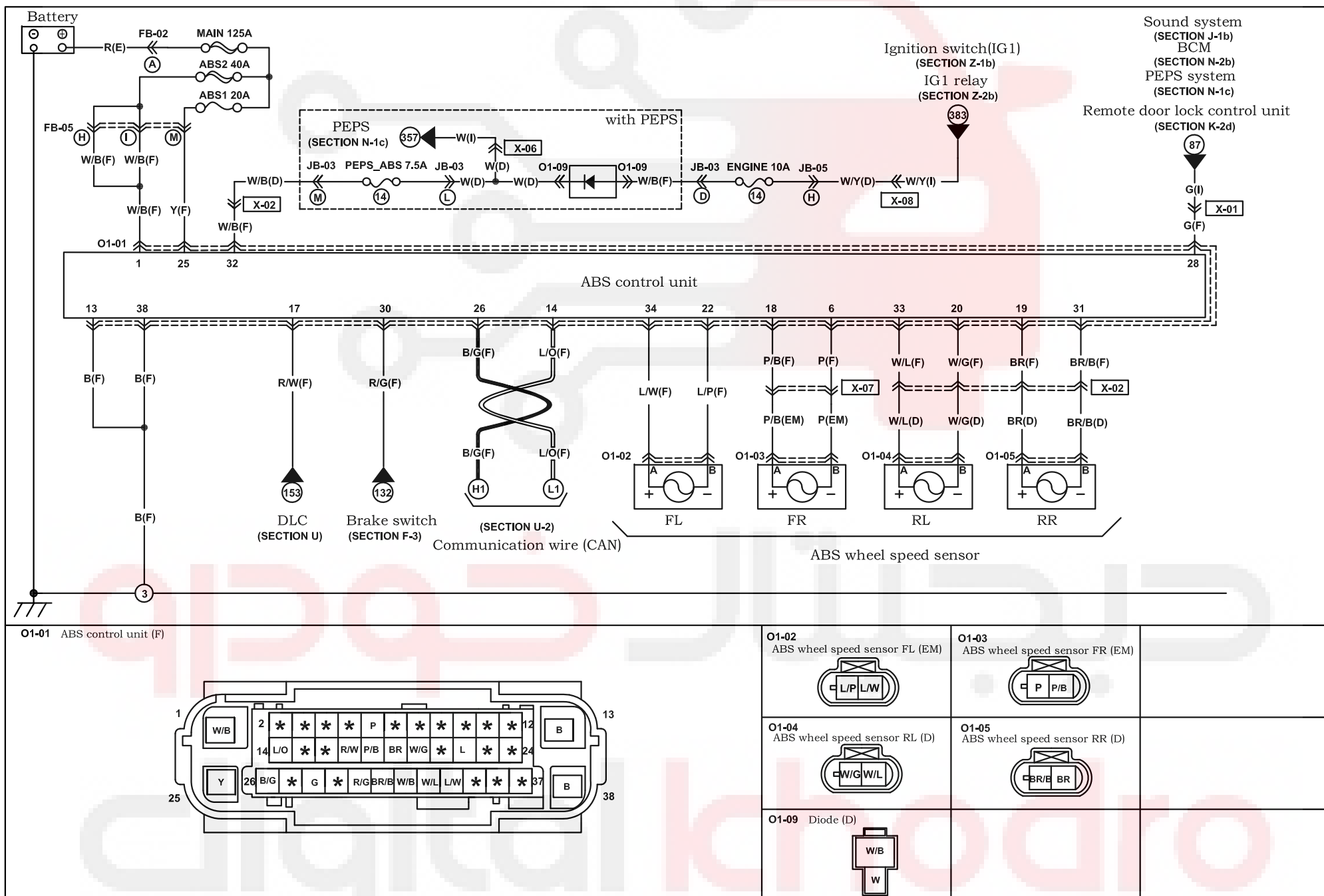


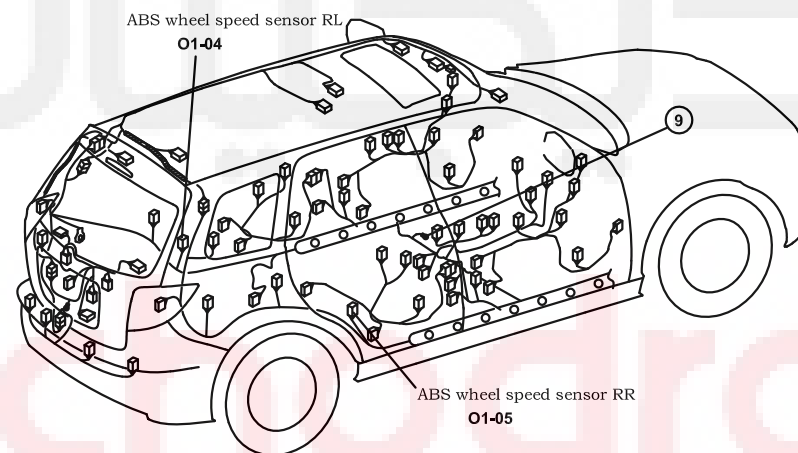
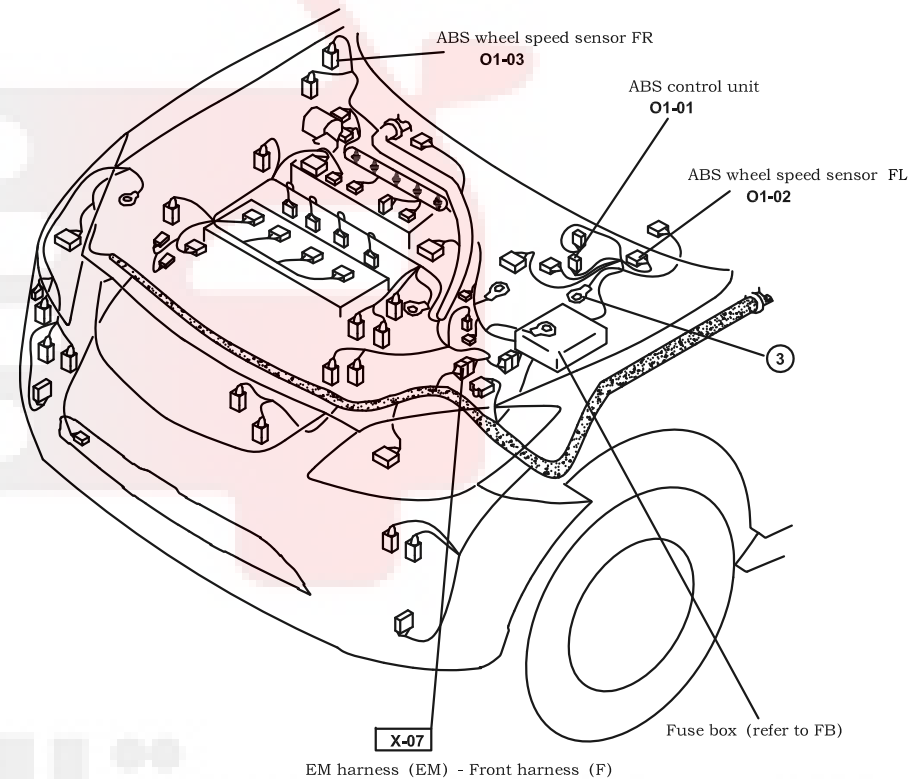
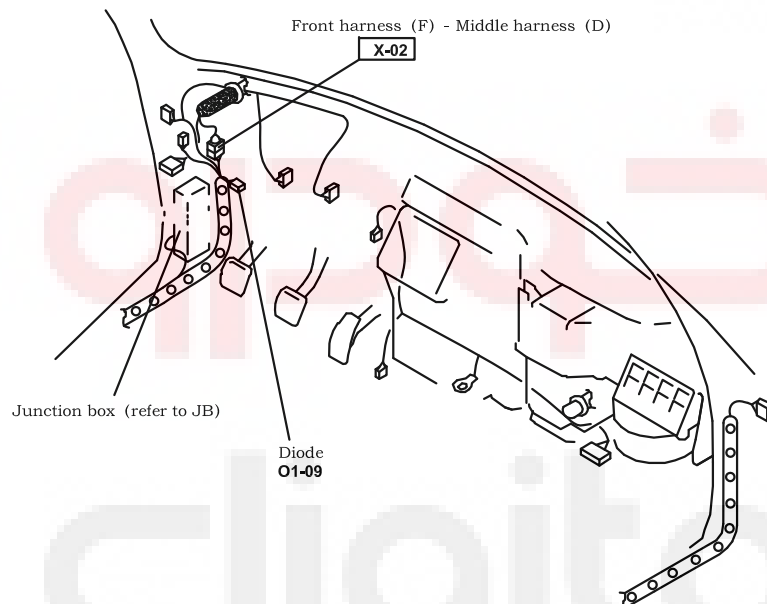
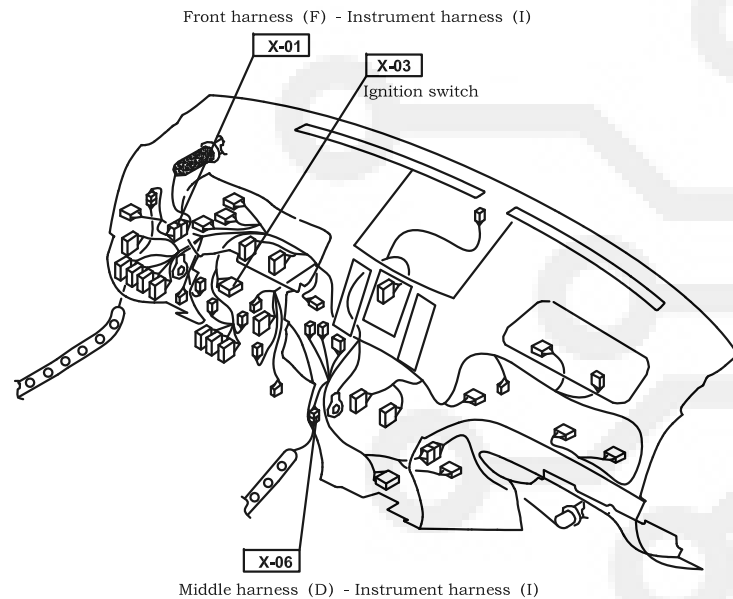


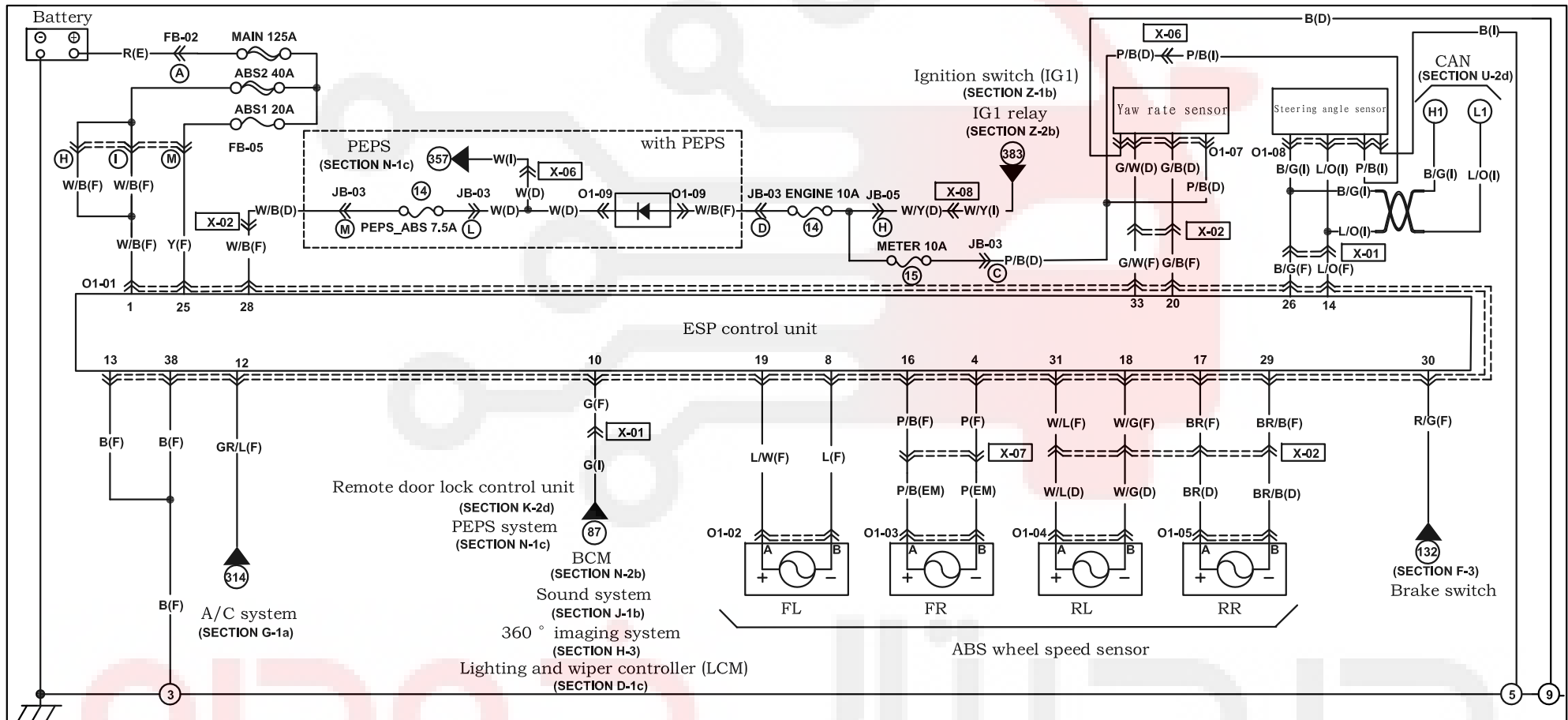


13-08 Sunroof switch (IN)	M2-03 Auto-dimming interior rearview mirror (IN)				

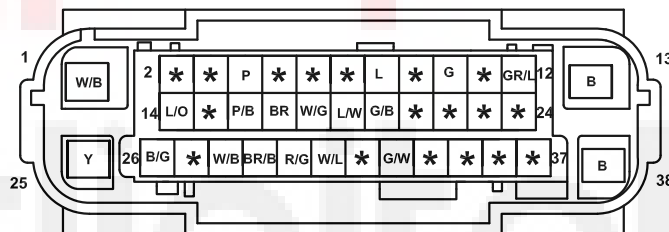








O1-06 ESP control unit (F)



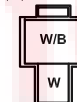
O1-02 ABS wheel speed sensor FL (EM)



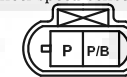
O1-04 ABS wheel speed sensor RL (D)



O1-09 Diode (D)



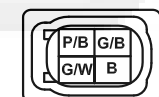
O1-03 ABS wheel speed sensor FR (EM)



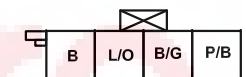
O1-05 ABS wheel speed sensor RR (D)



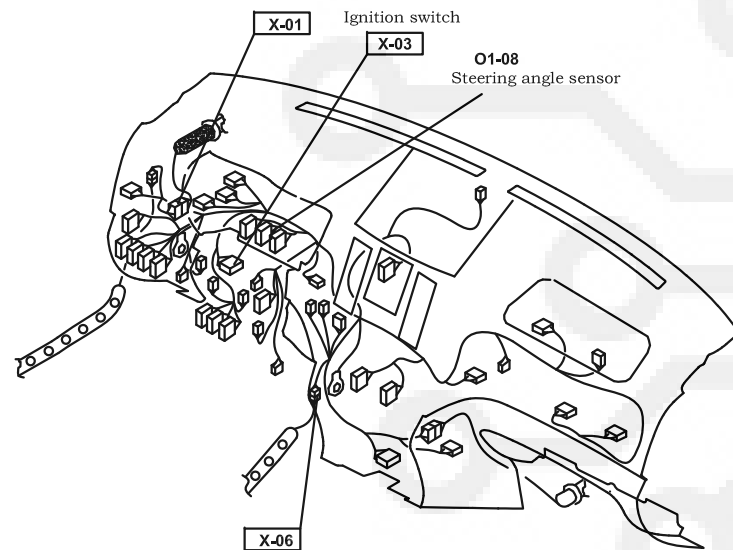
O1-07 Yaw rate sensor (D)



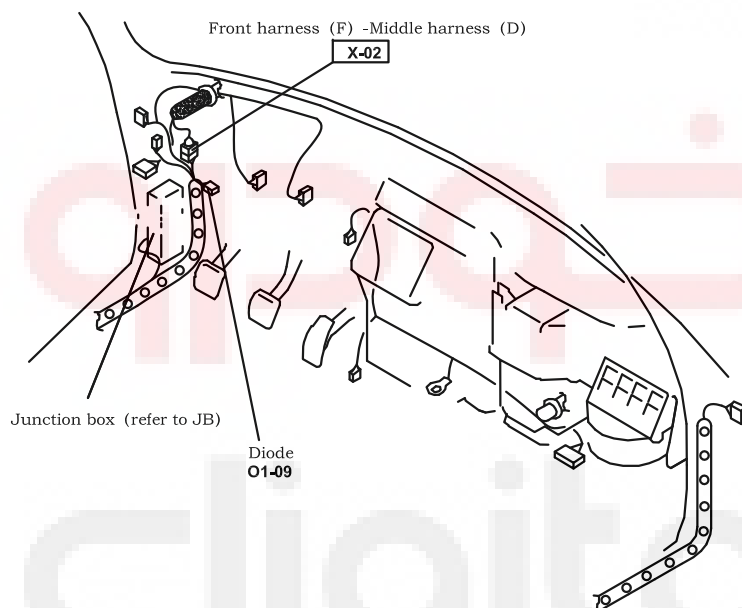
O1-08 Steering angle sensor (I)



Front harness (F) - Instrument harness (I)



Middle harness (D) - Instrument harness (I)



ABS wheel speed sensor FR

O1-03

ESP control unit

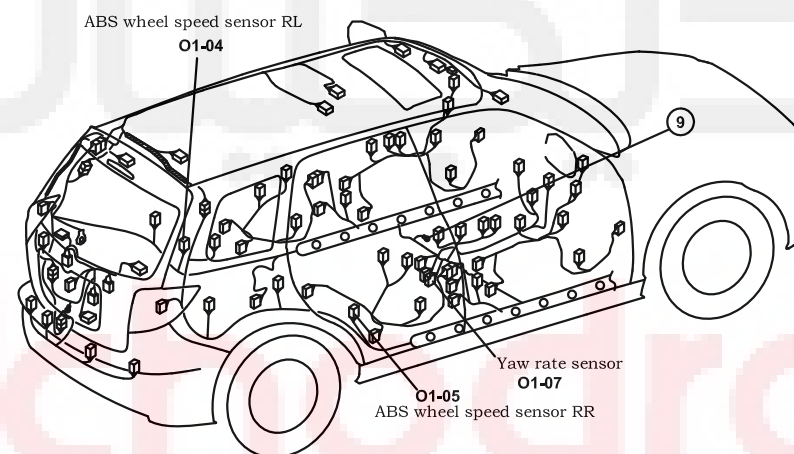
O1-06

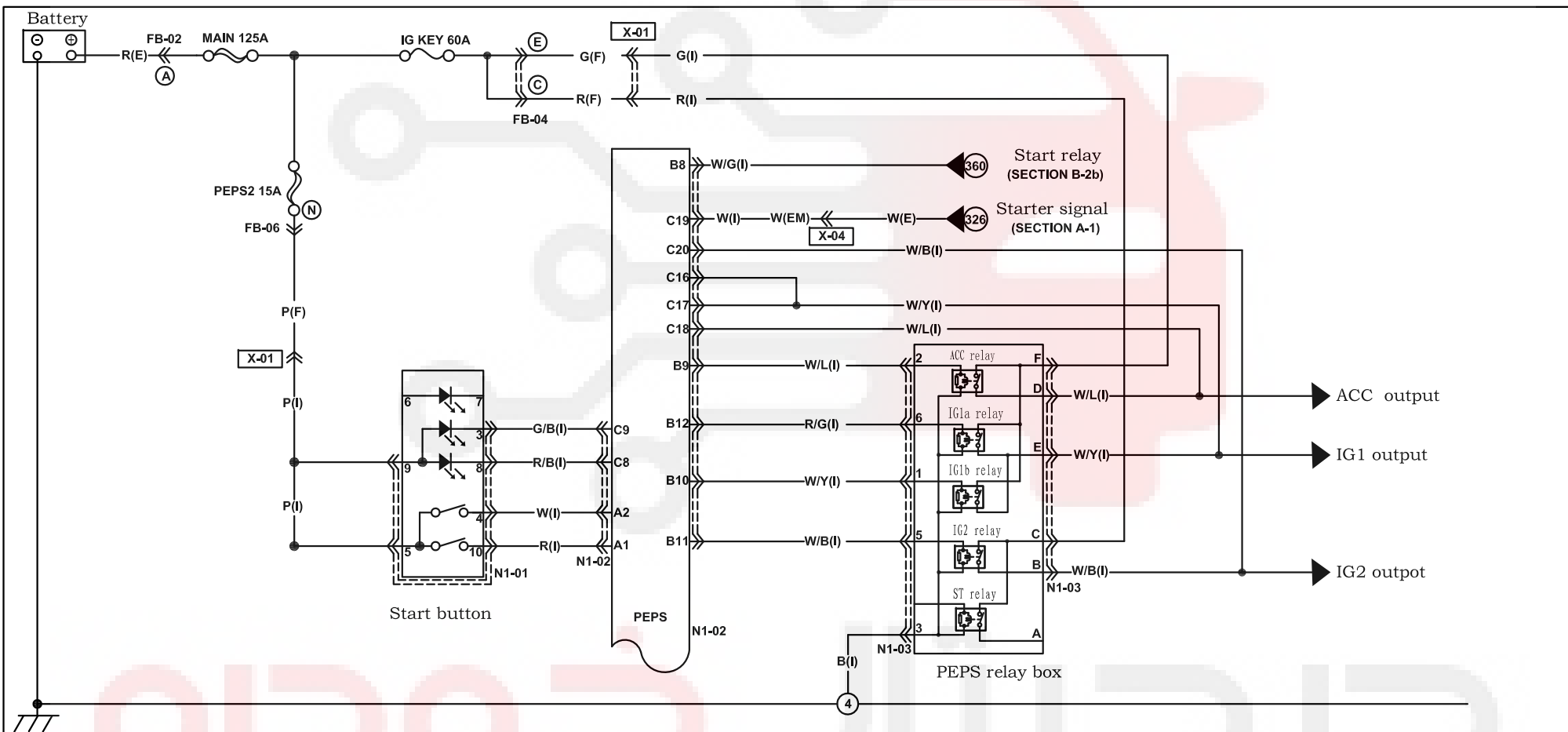
ABS wheel speed sensor FL

O1-02

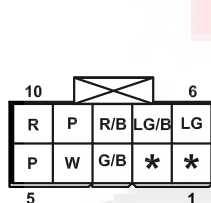
Fuse box (refer to FB)

EM harness (EM) - Front harness (F)

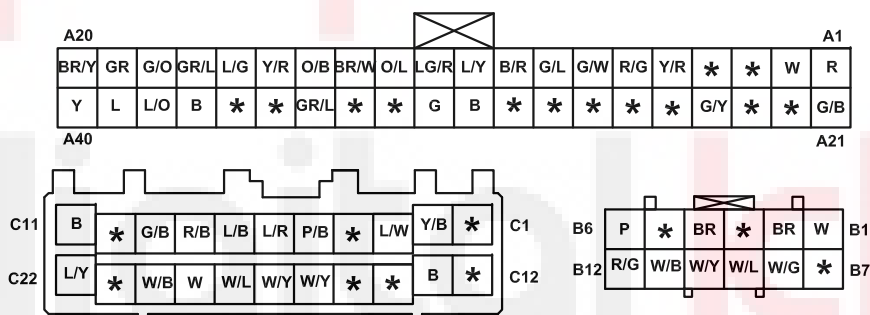




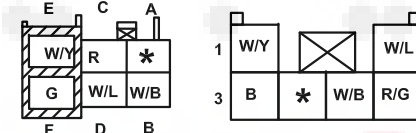
N1-01 Start button (I)

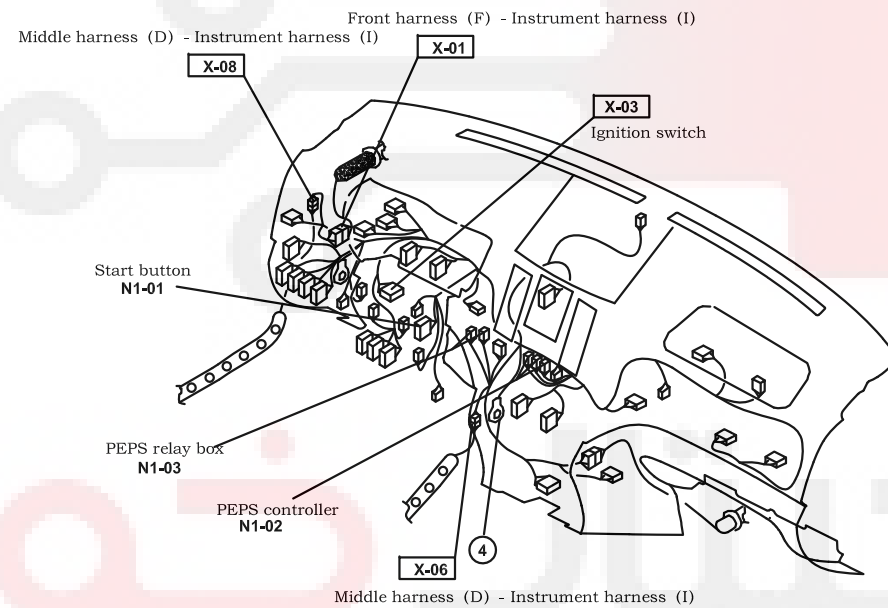


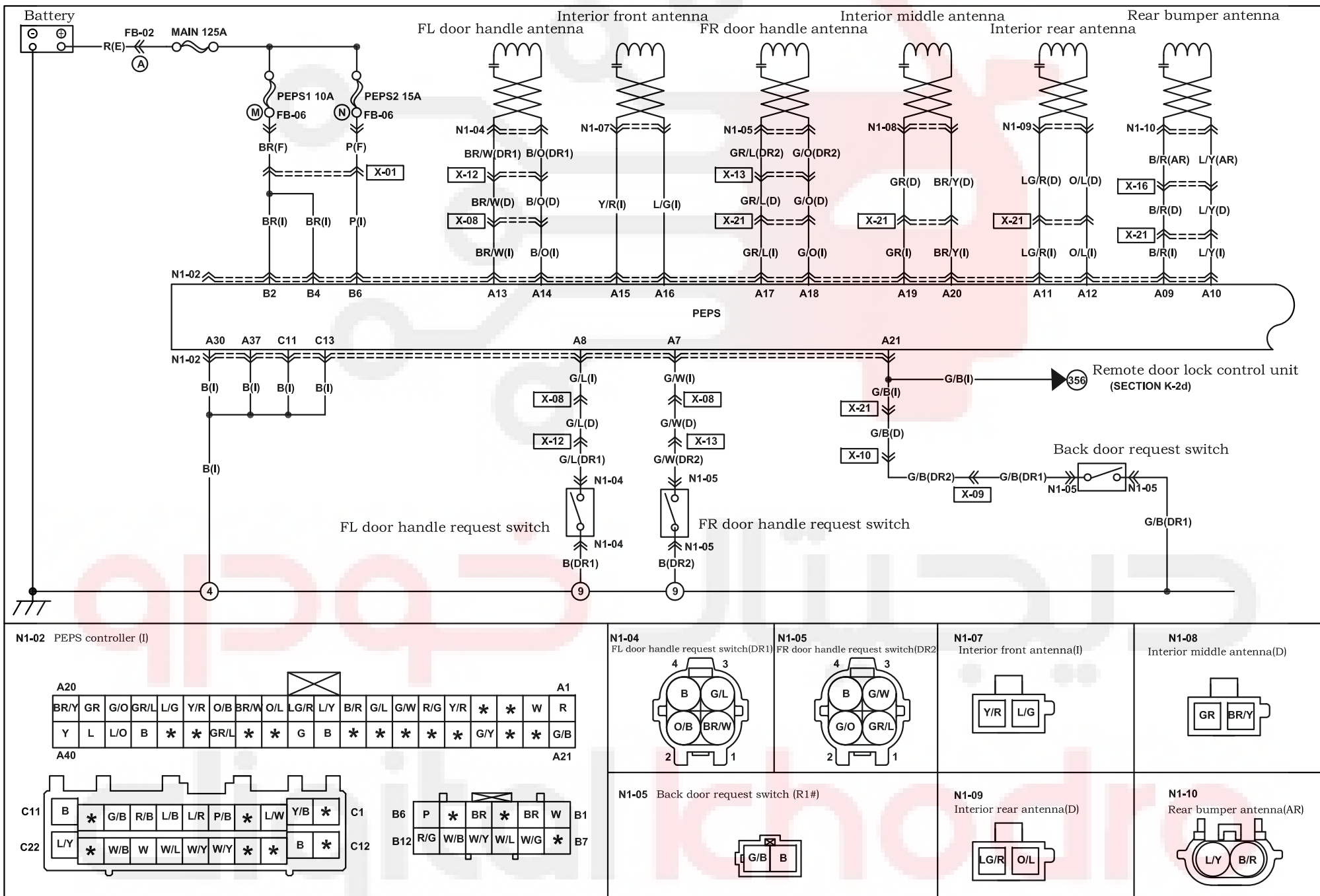
N1-02 PEPS controller (I)



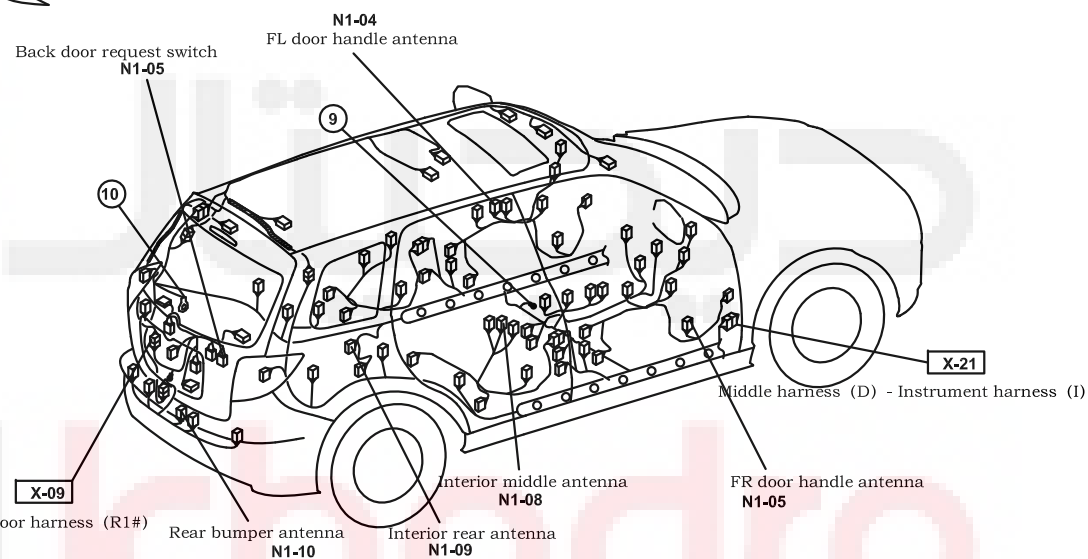
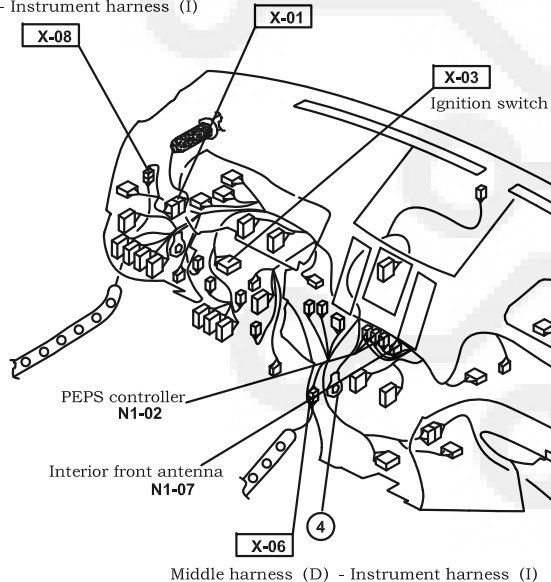
N1-03 PEPS relay box (I)

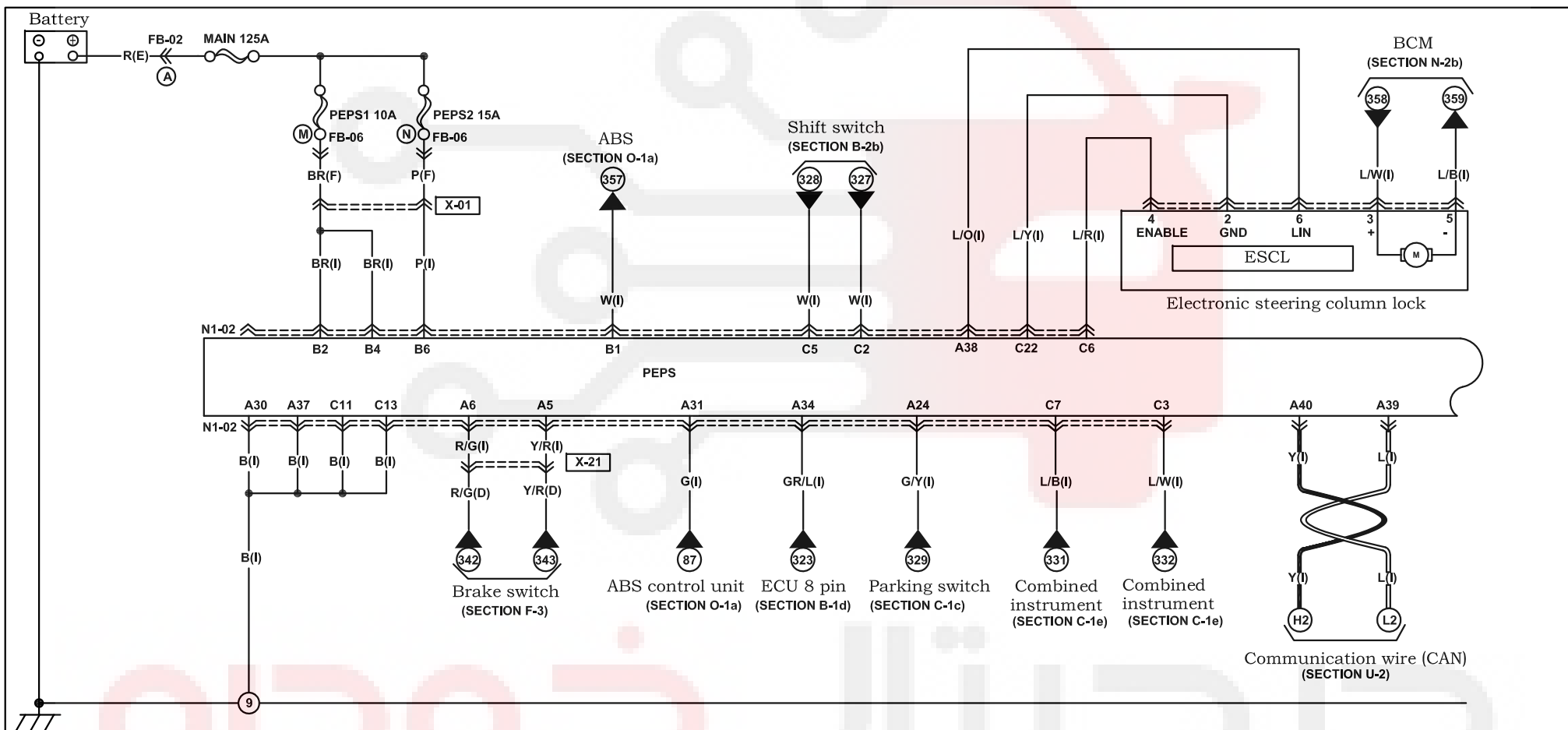




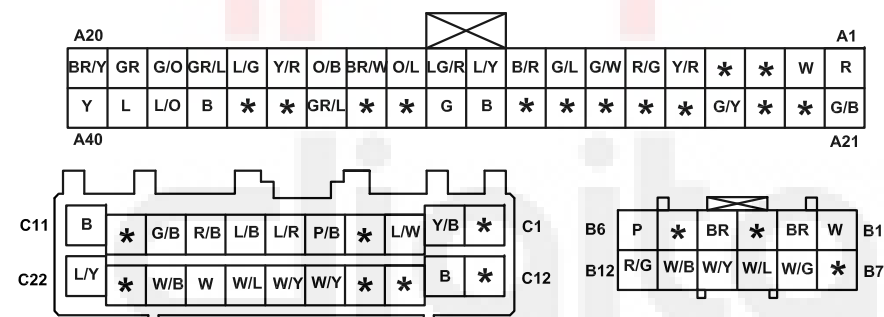


Front harness (F) - Instrument harness (I)
 Middle harness (D) - Instrument harness (I)



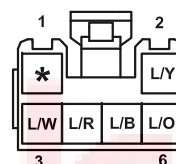


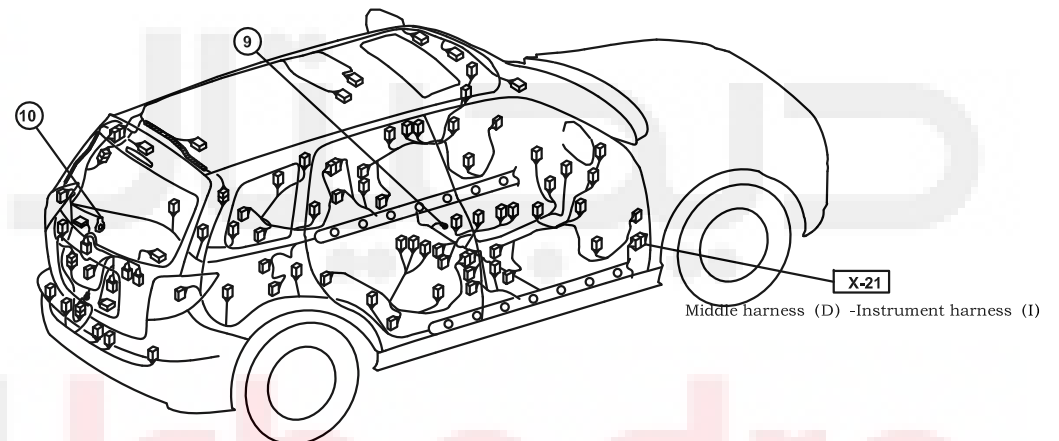
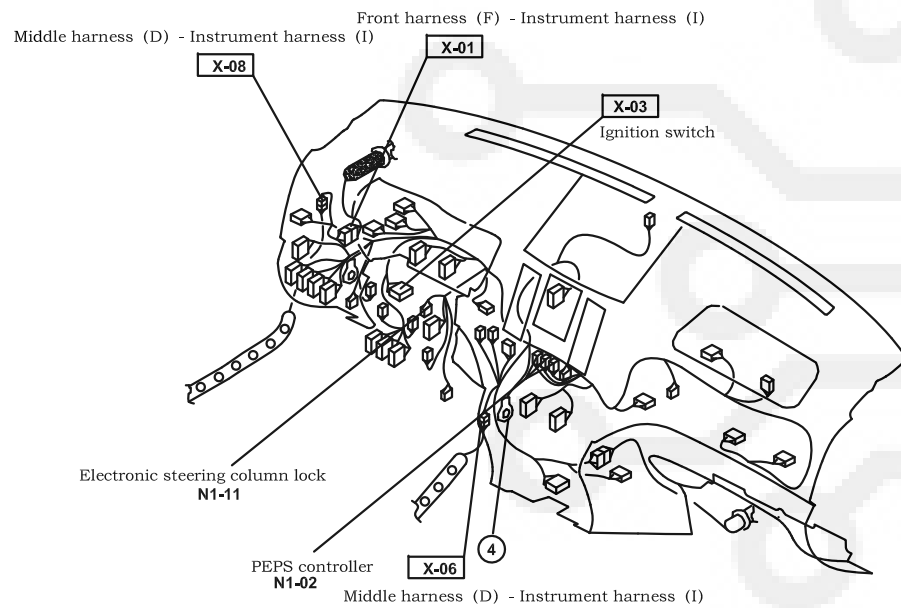
N1-02 PEPS controller (I)

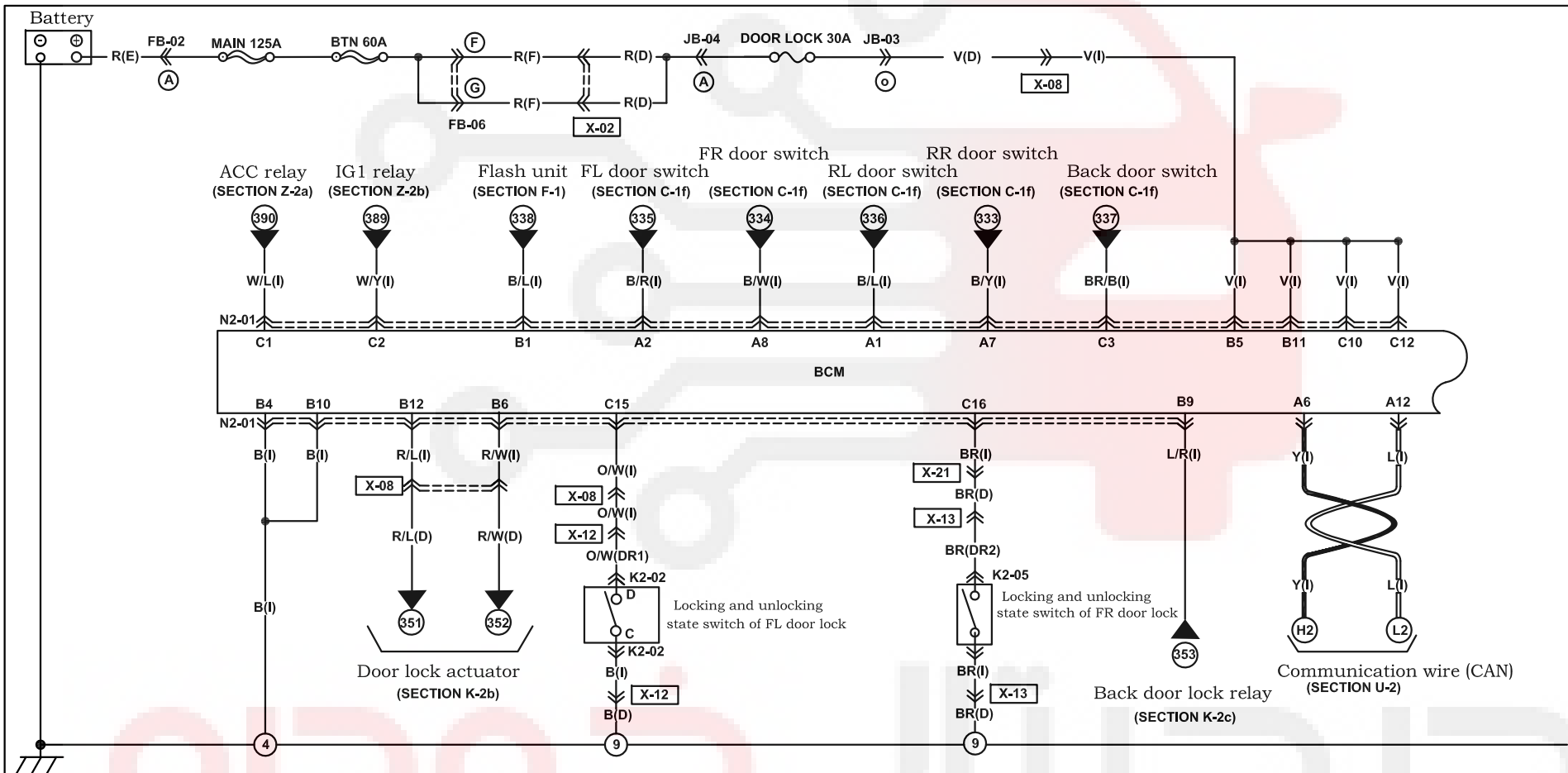


N1-11

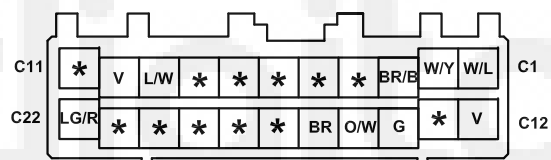
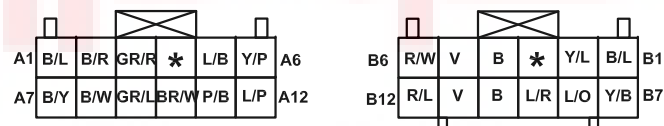
Electronic steering column lock (I)



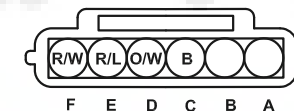




N2-01 Body control system (BCM) (I)

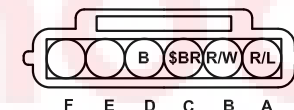


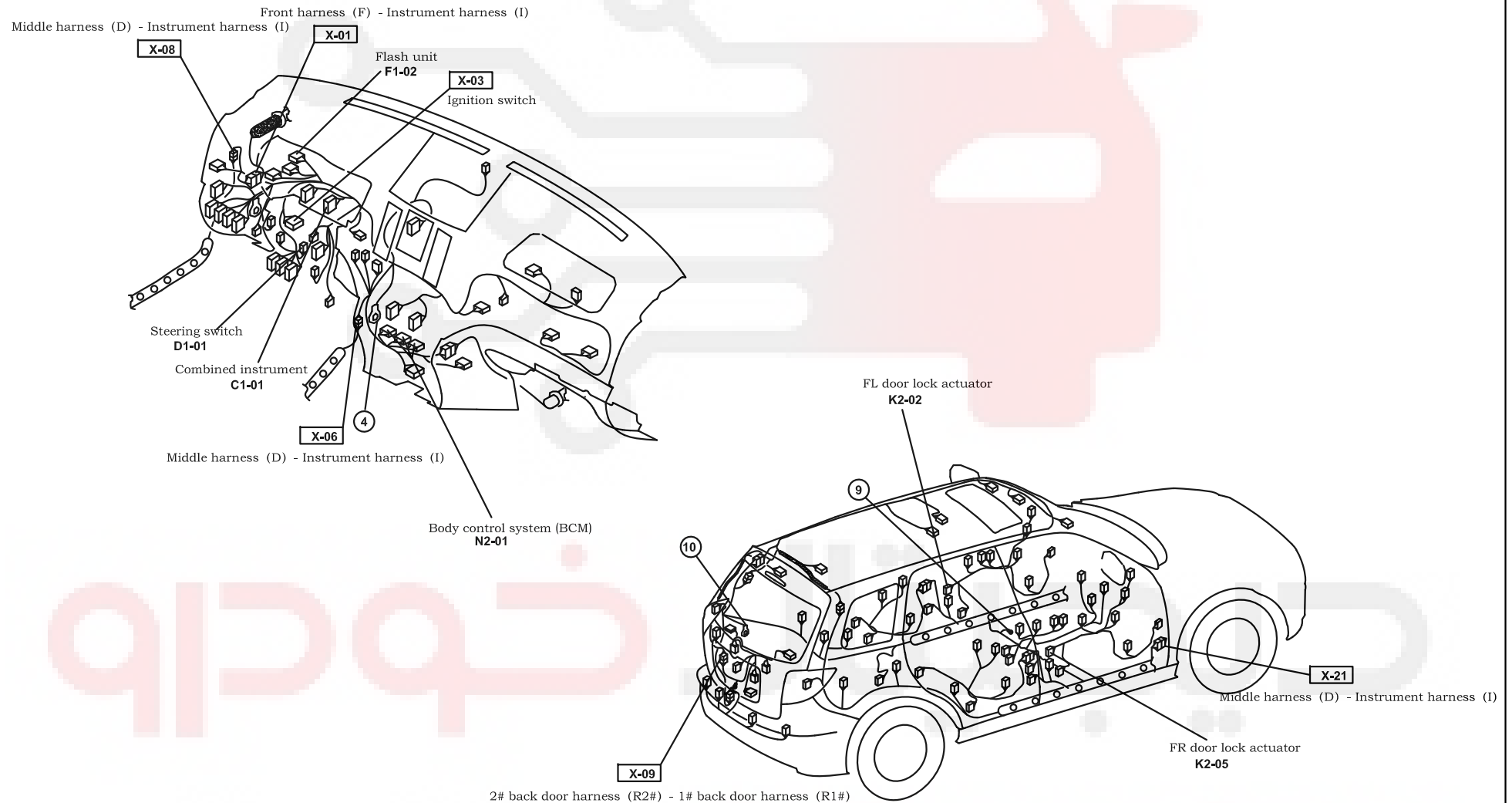
K2-02 FL door lock actuator (DR1)

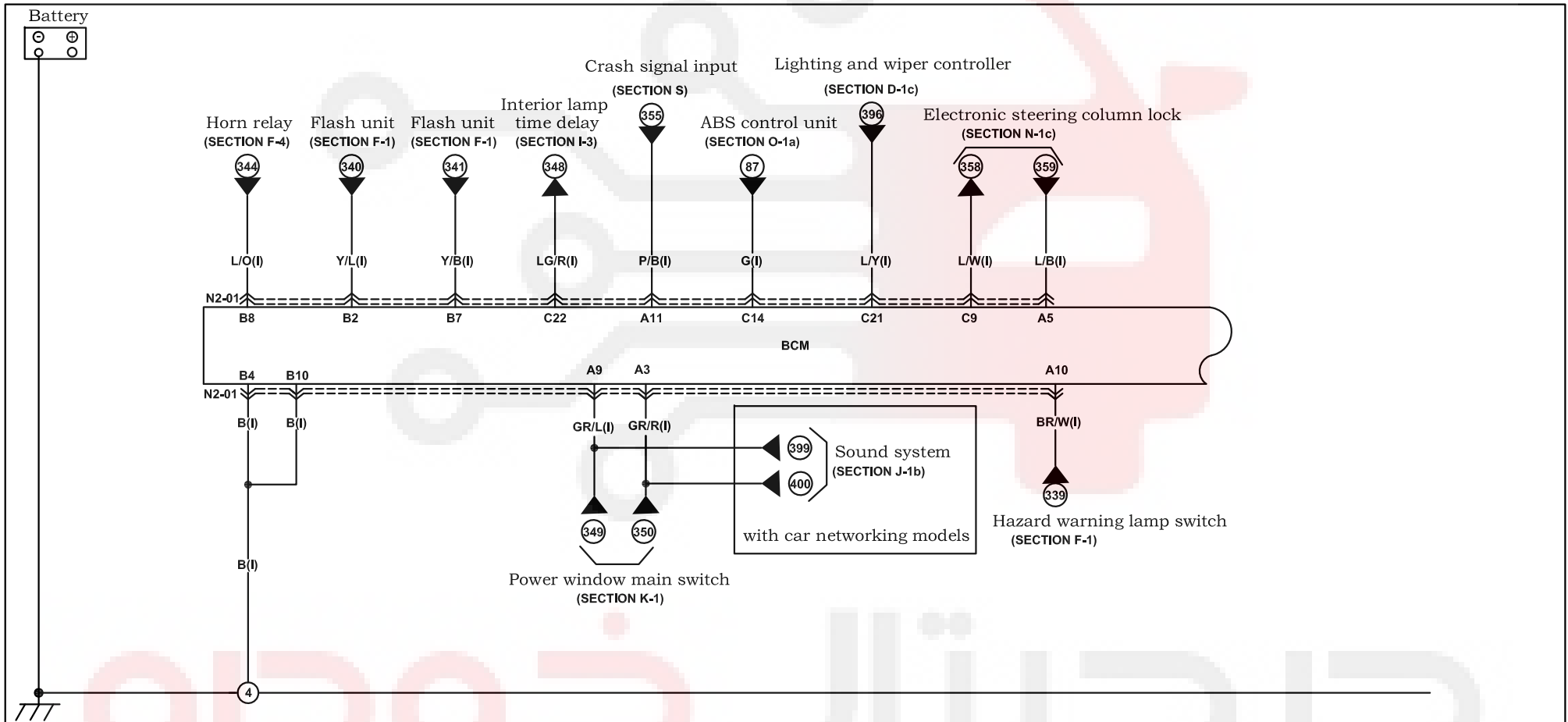


K2-05 FR door lock actuator (DR2)

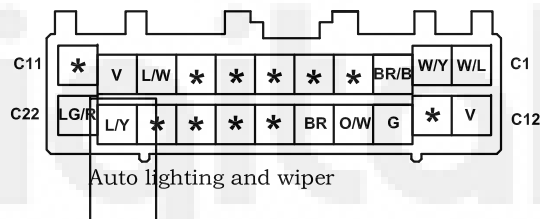
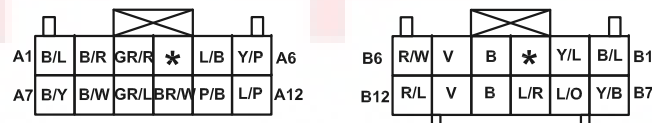
\$ with PEPS





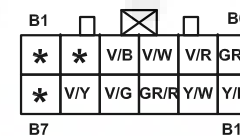


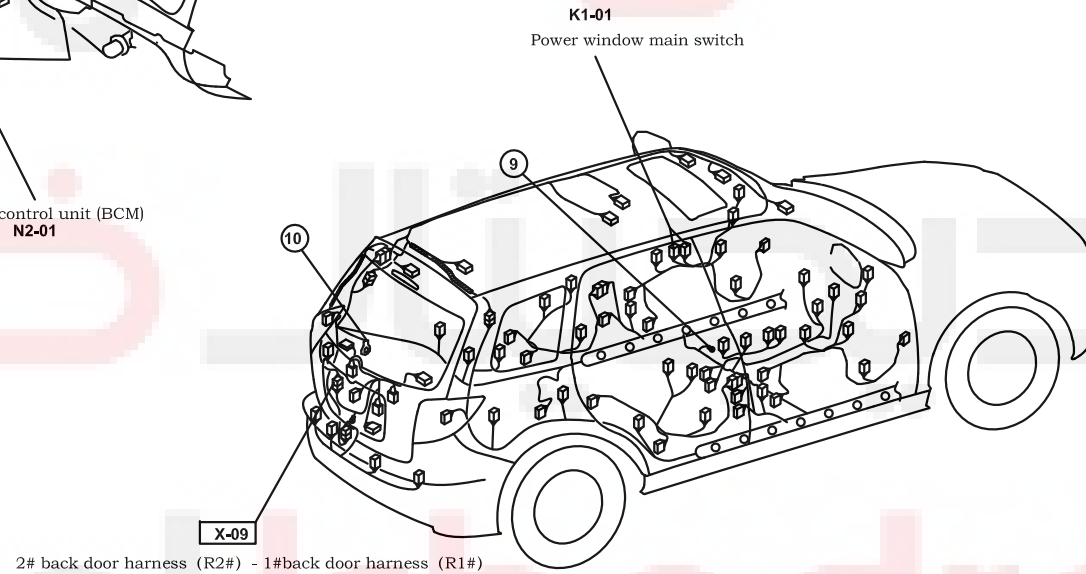
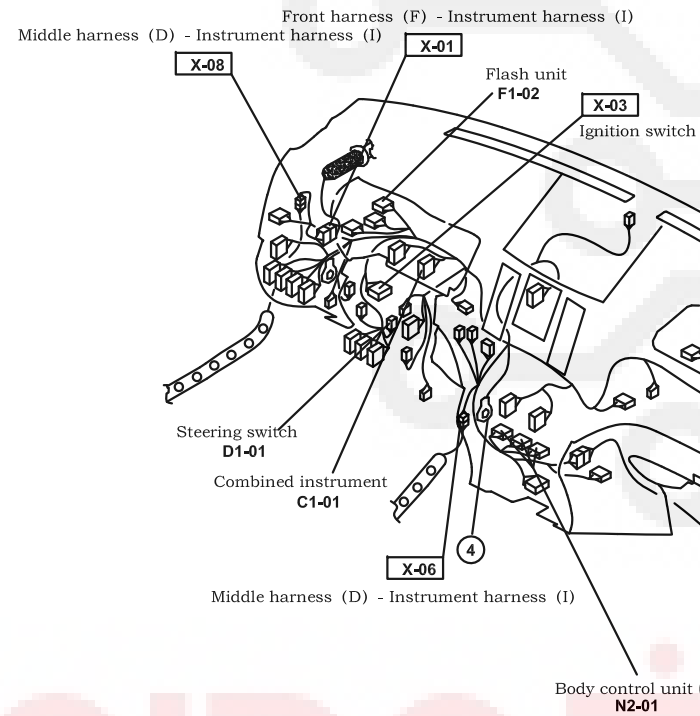
N2-01 Body control system (BCM)(I)

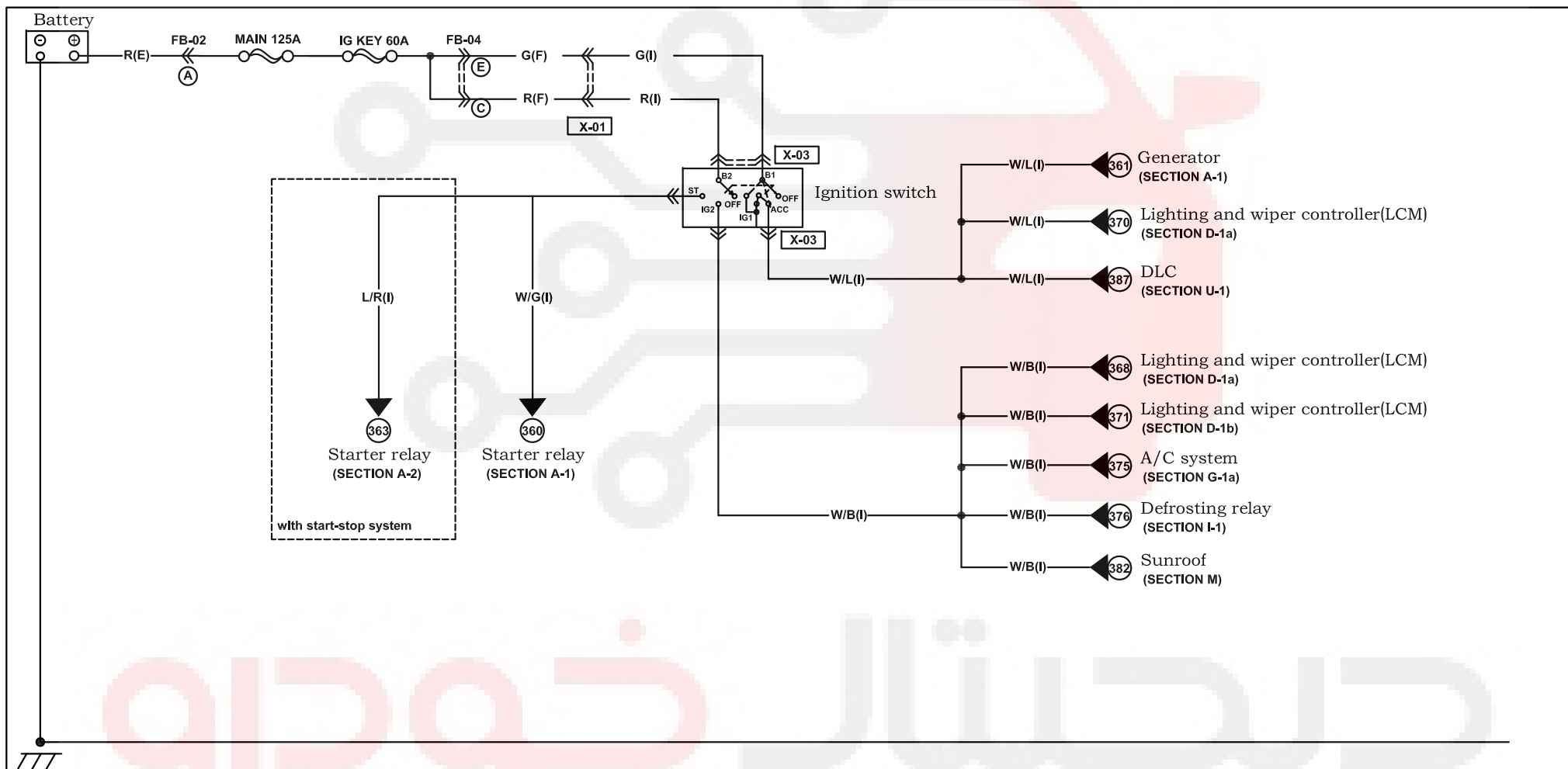


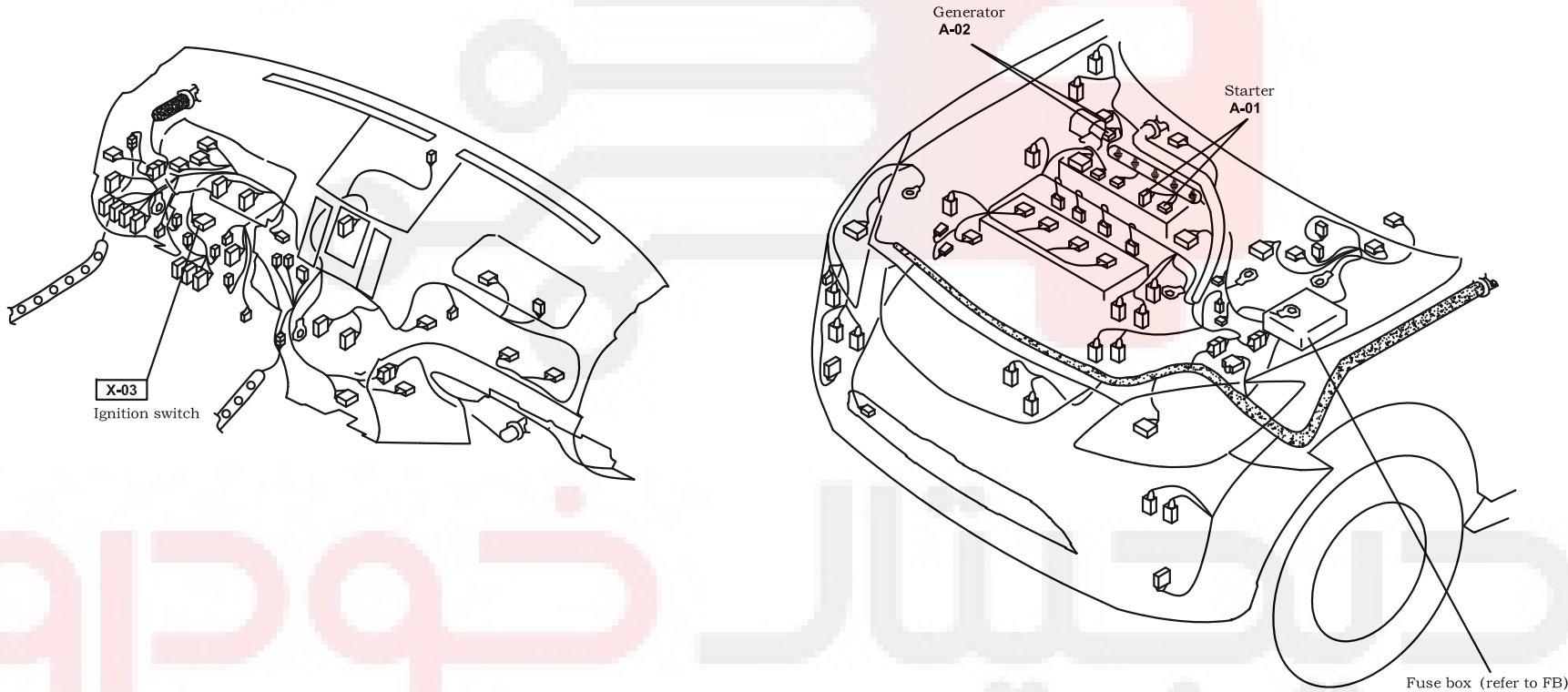
Auto lighting and wiper

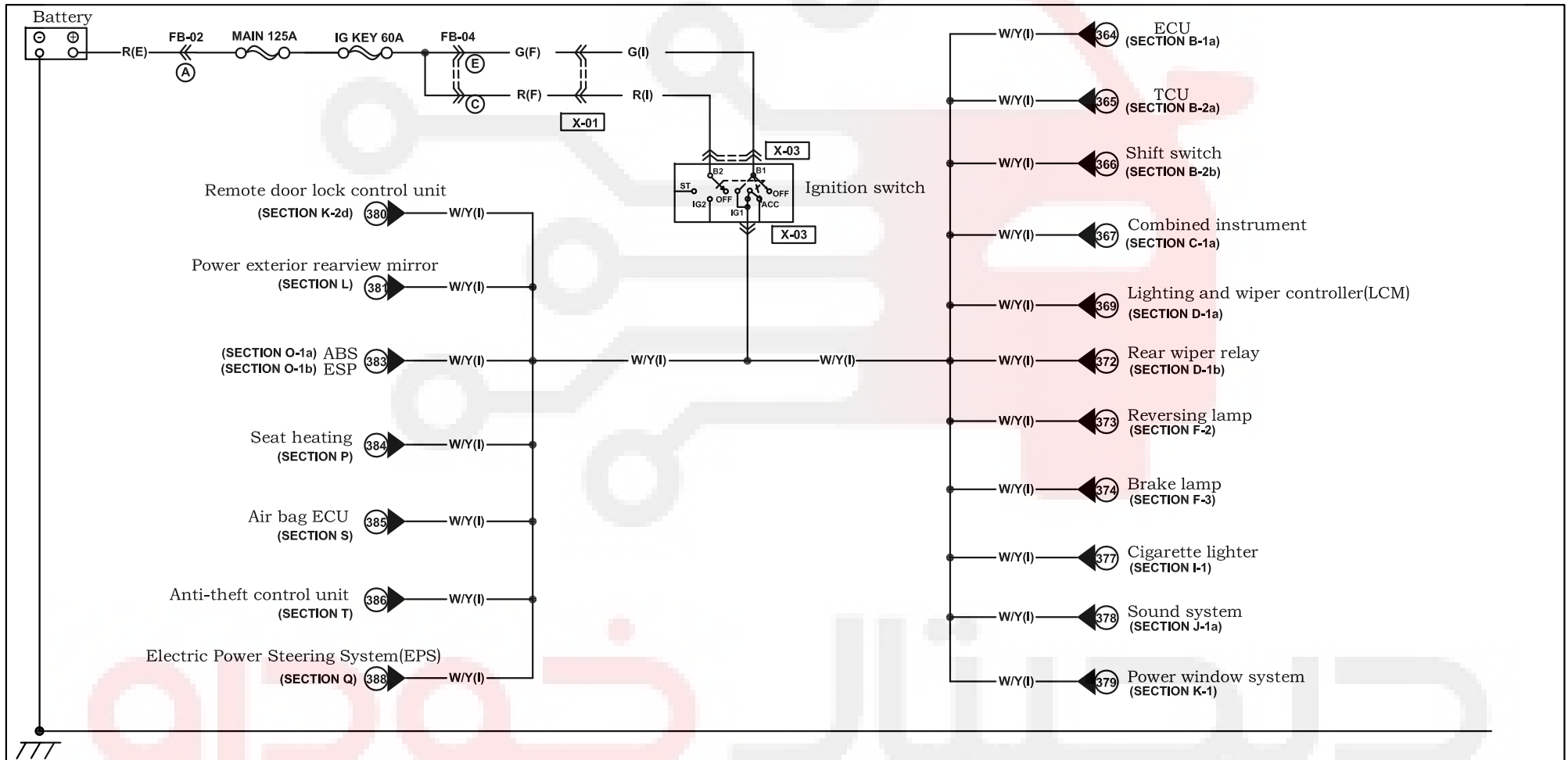
K1-01 Power window main switch (DR1)

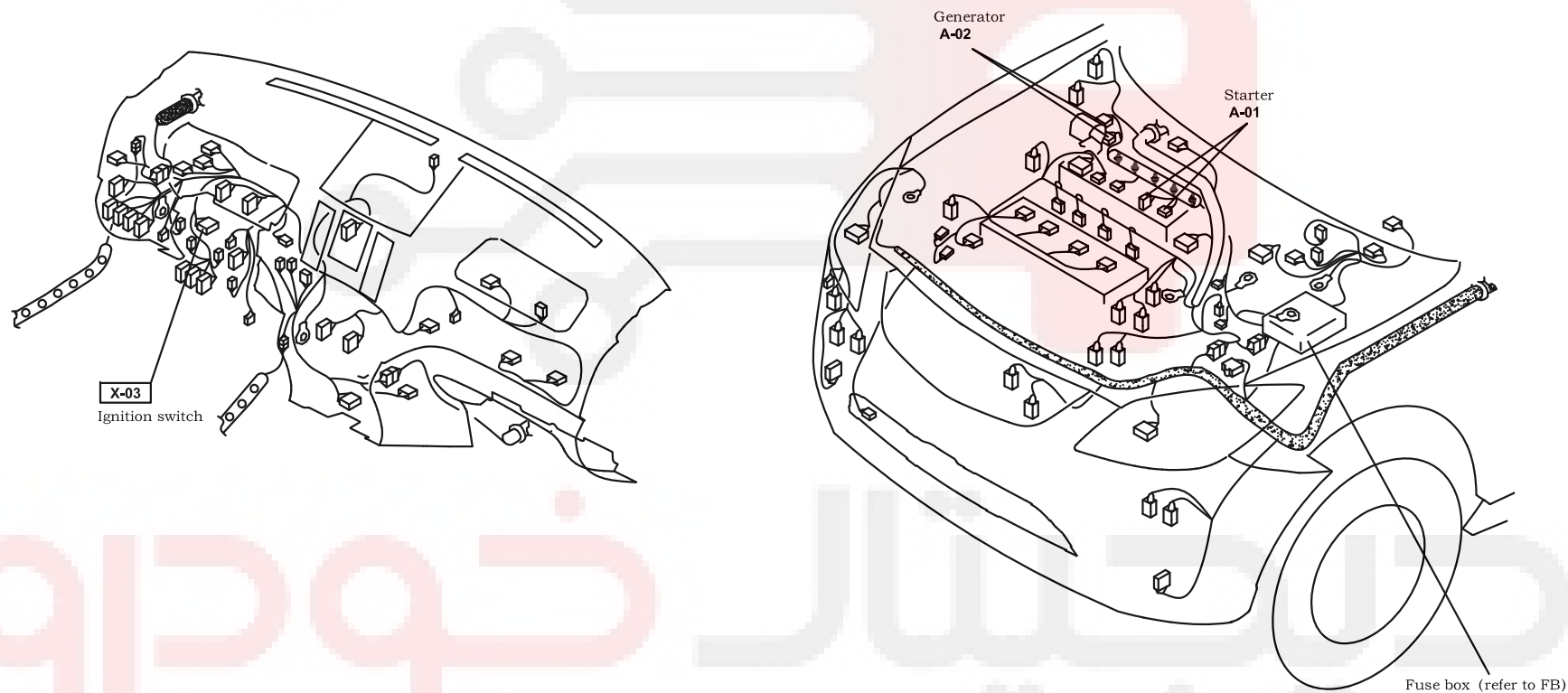


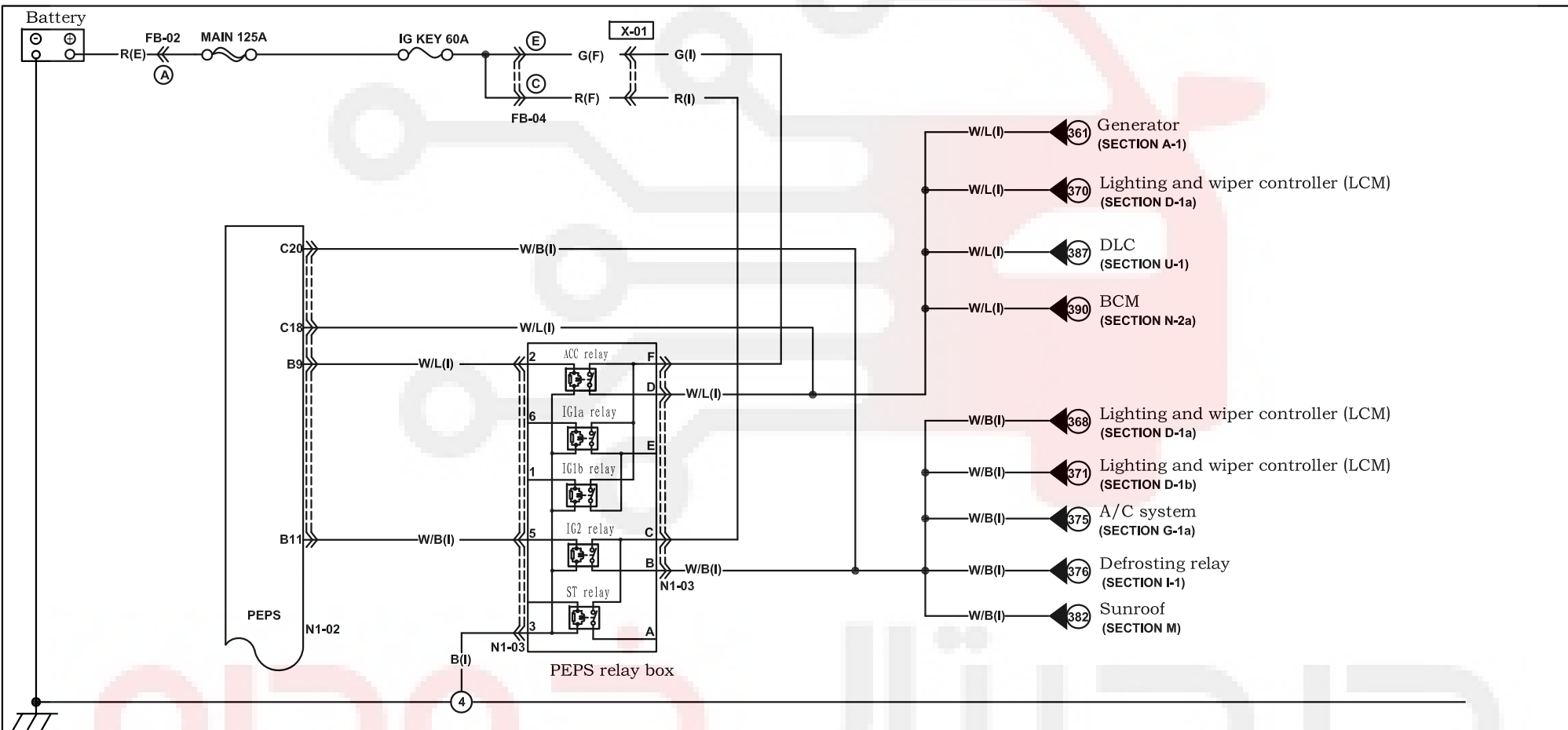




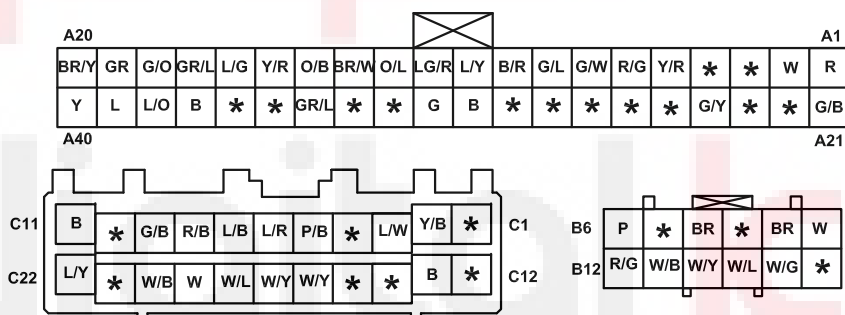




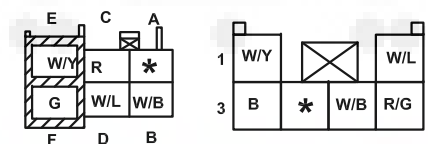


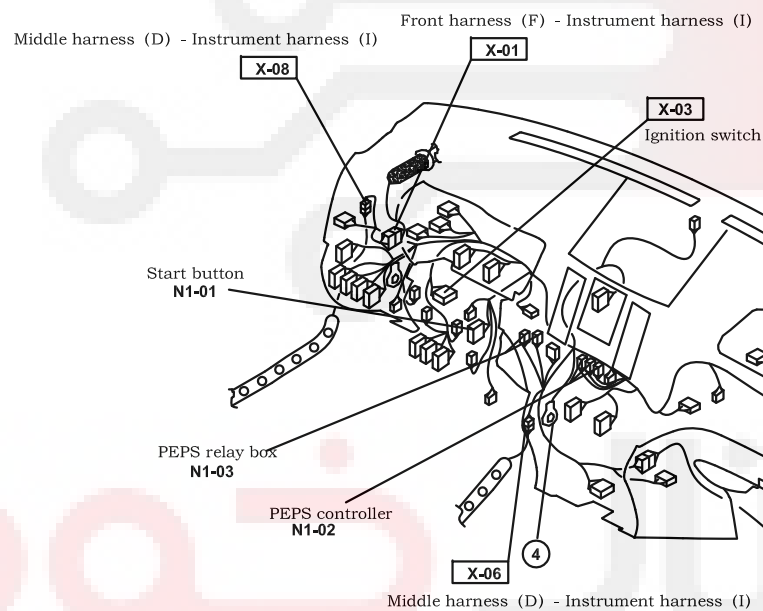


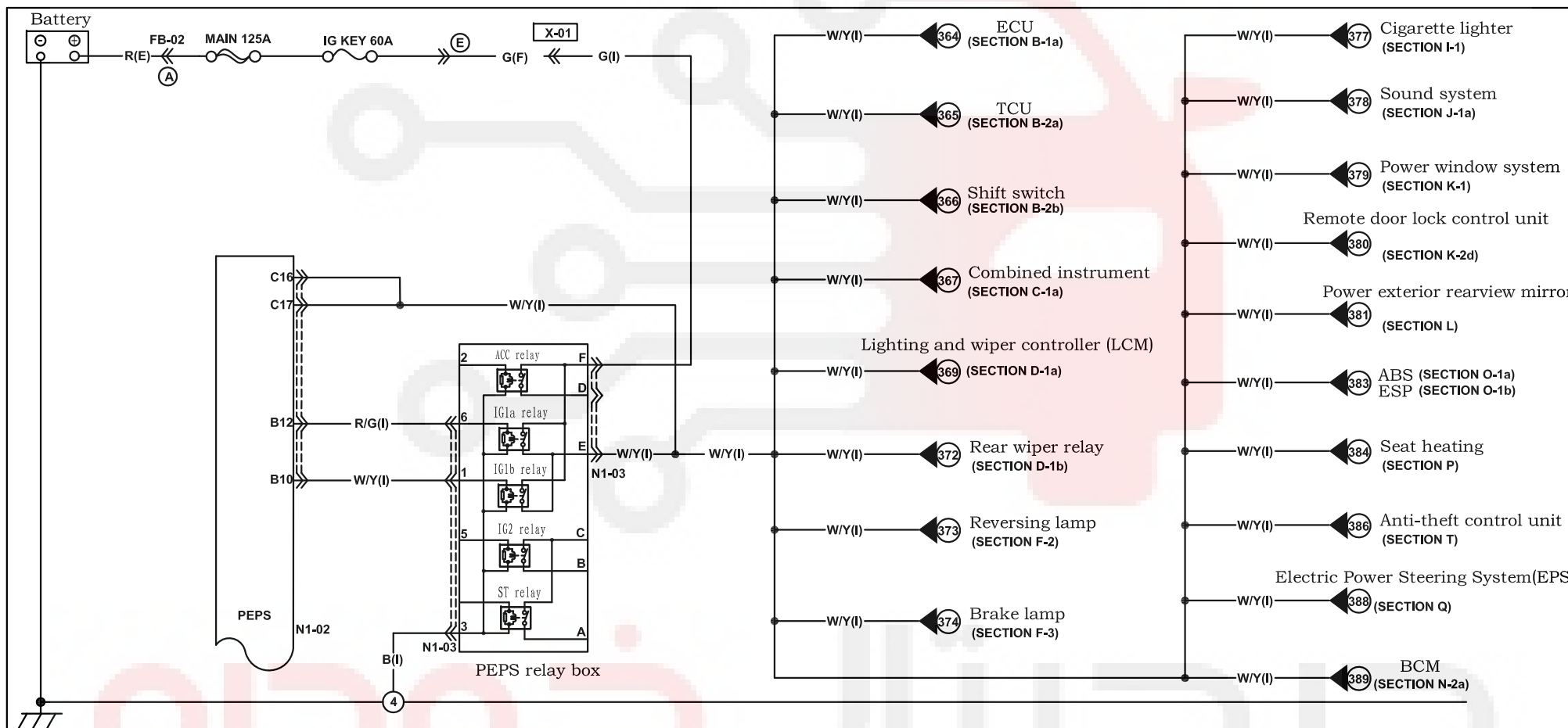
N1-02 PEPS controller (I)



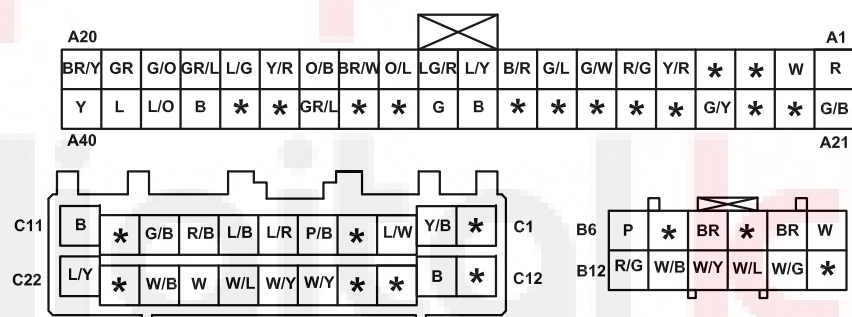
N1-03 PEPS relay box (I)



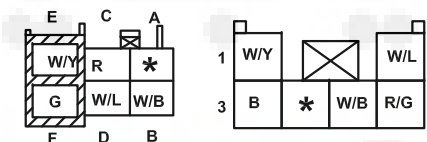


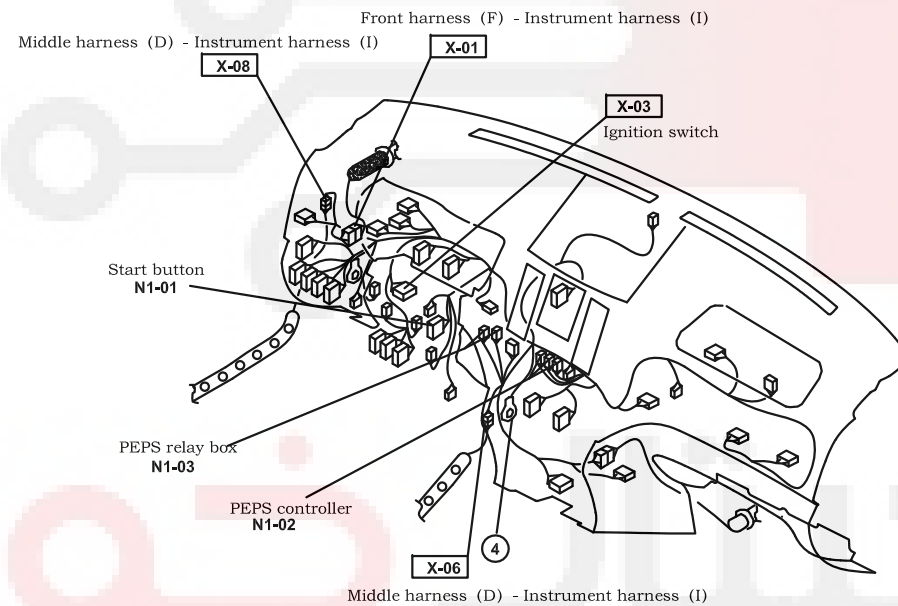


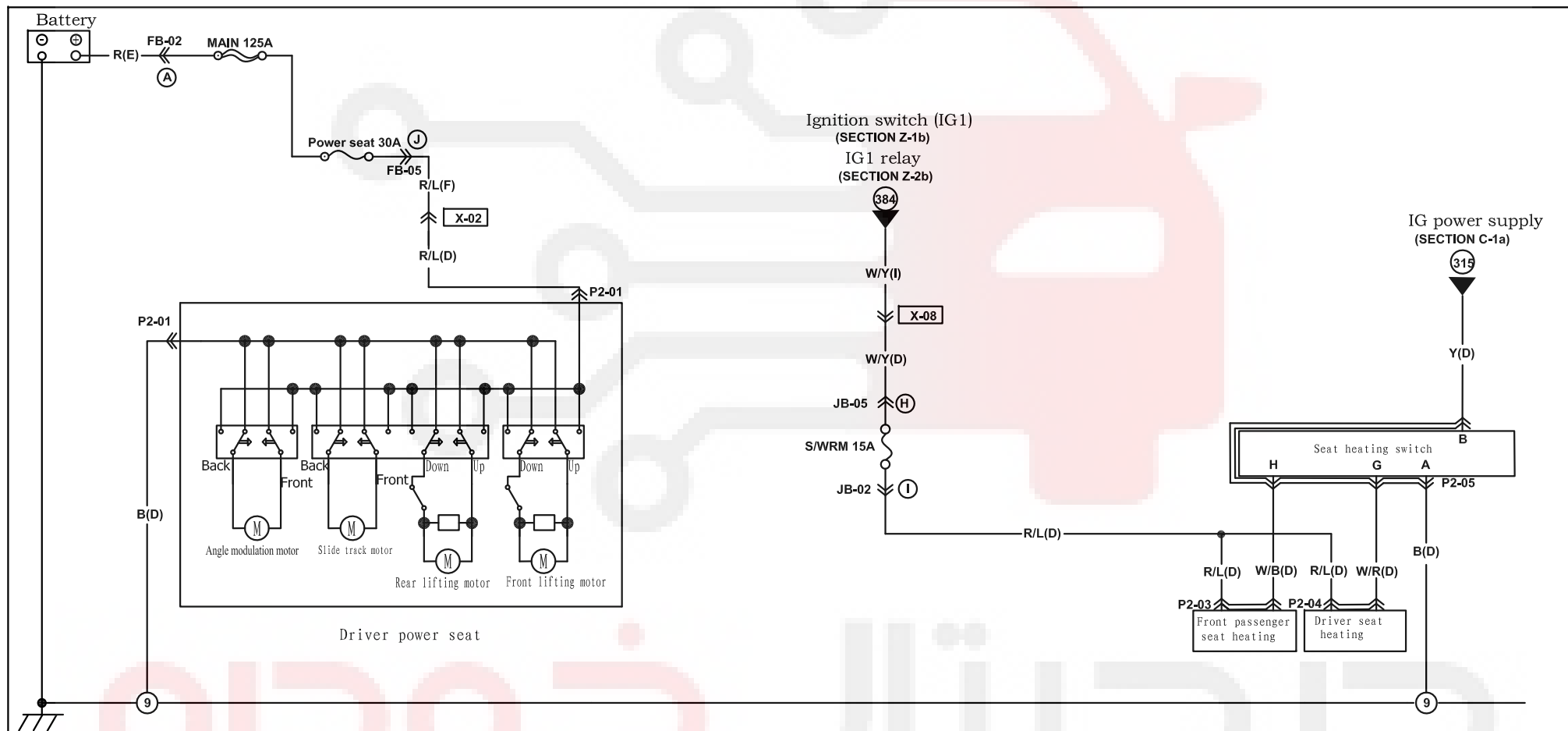
N1-02 PEPS controller (I)



N1-03 PEPS relay box (I)



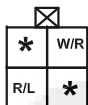




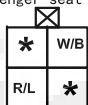
P2-01 Driver power seat (D)



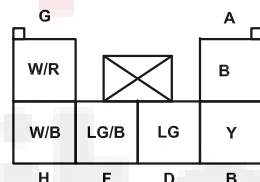
P2-03 Driver seat heating (D)

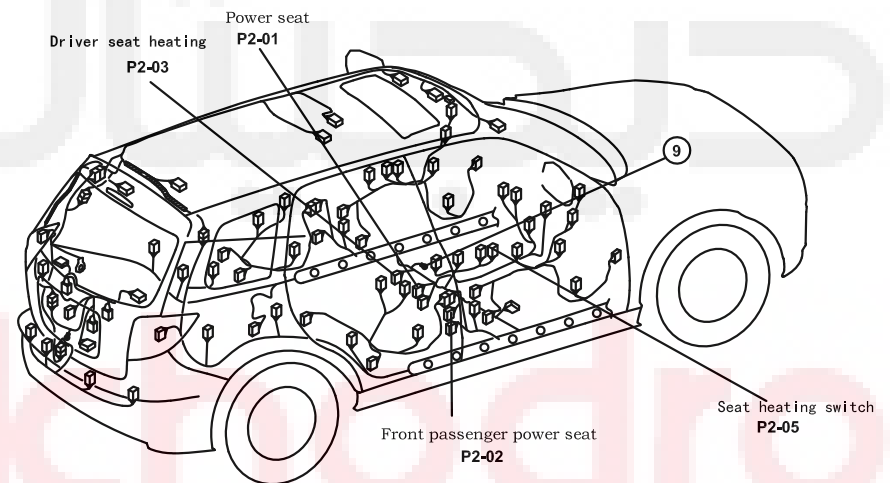
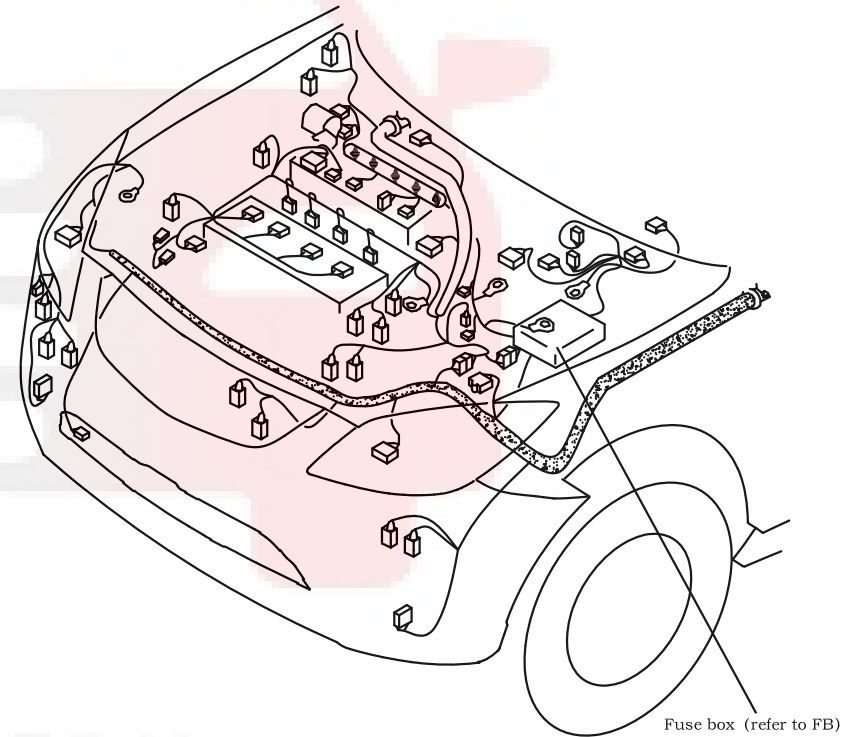
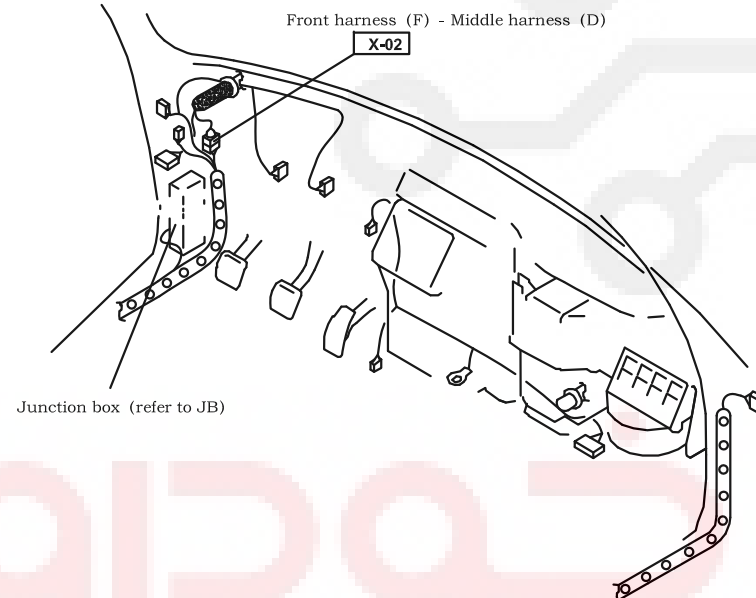


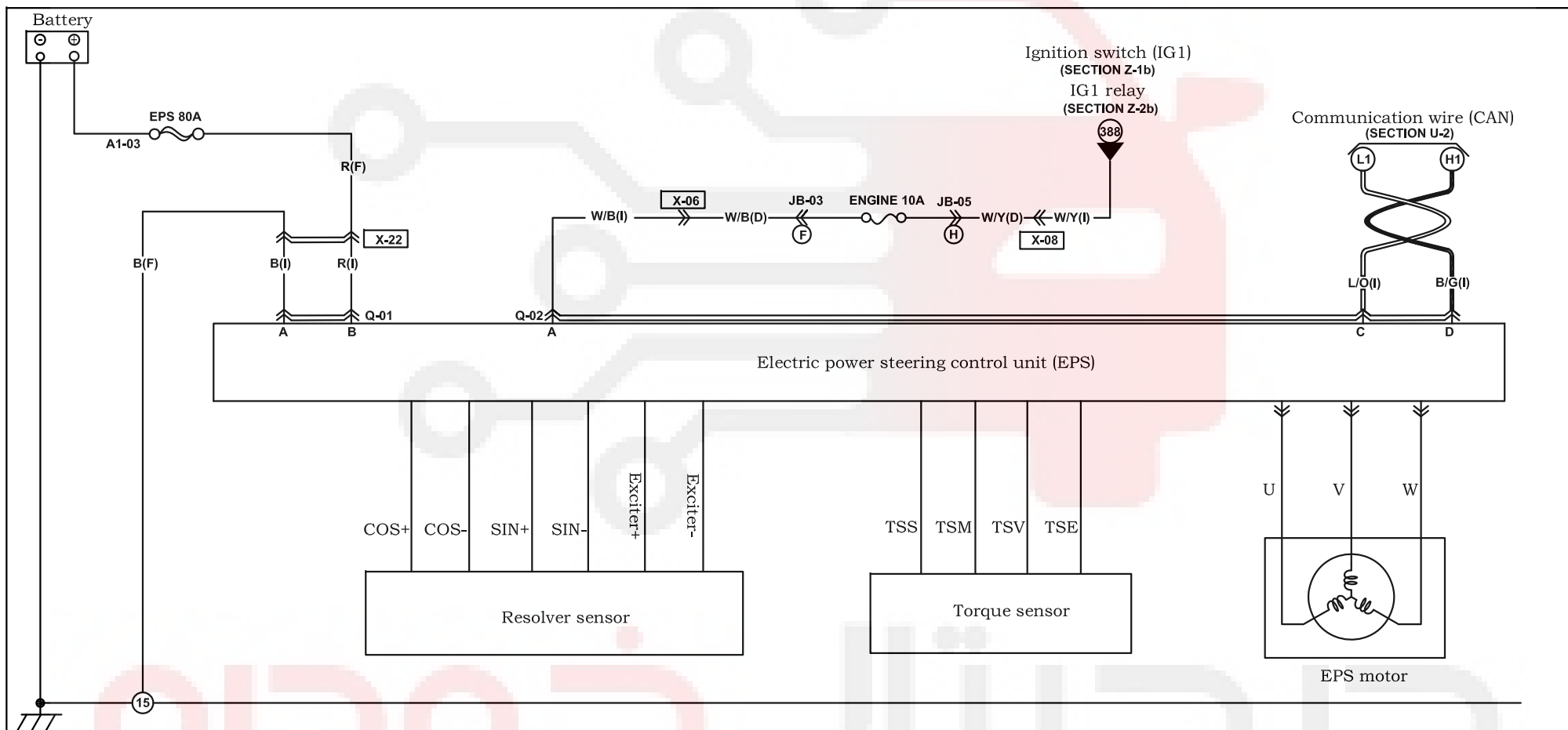
P2-04 Front passenger seat heating (D)



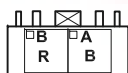
P2-05 Seat heating switch (D)



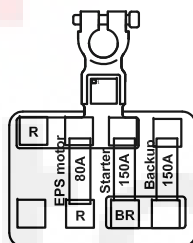




Q-01 EPS power supply (I)

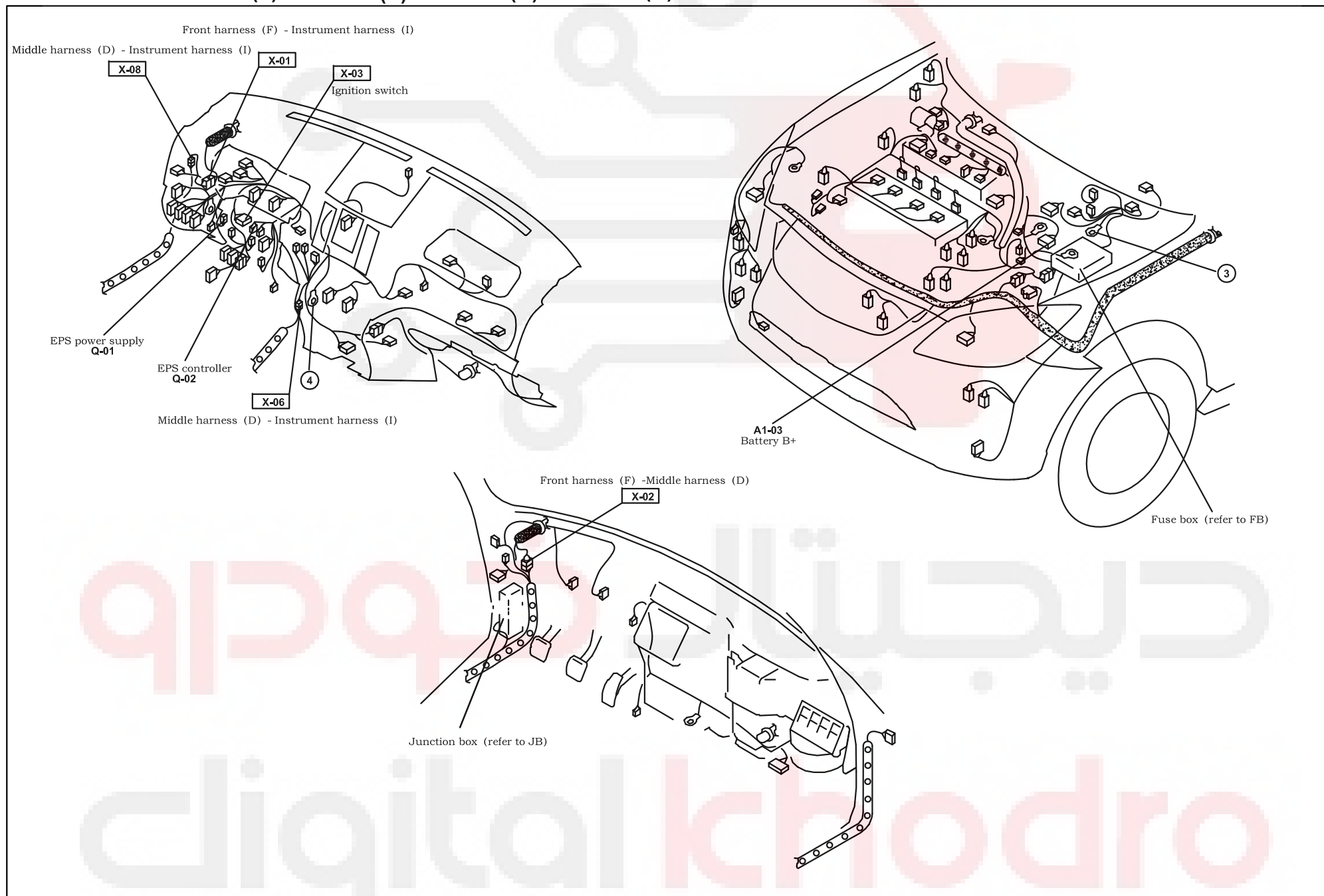


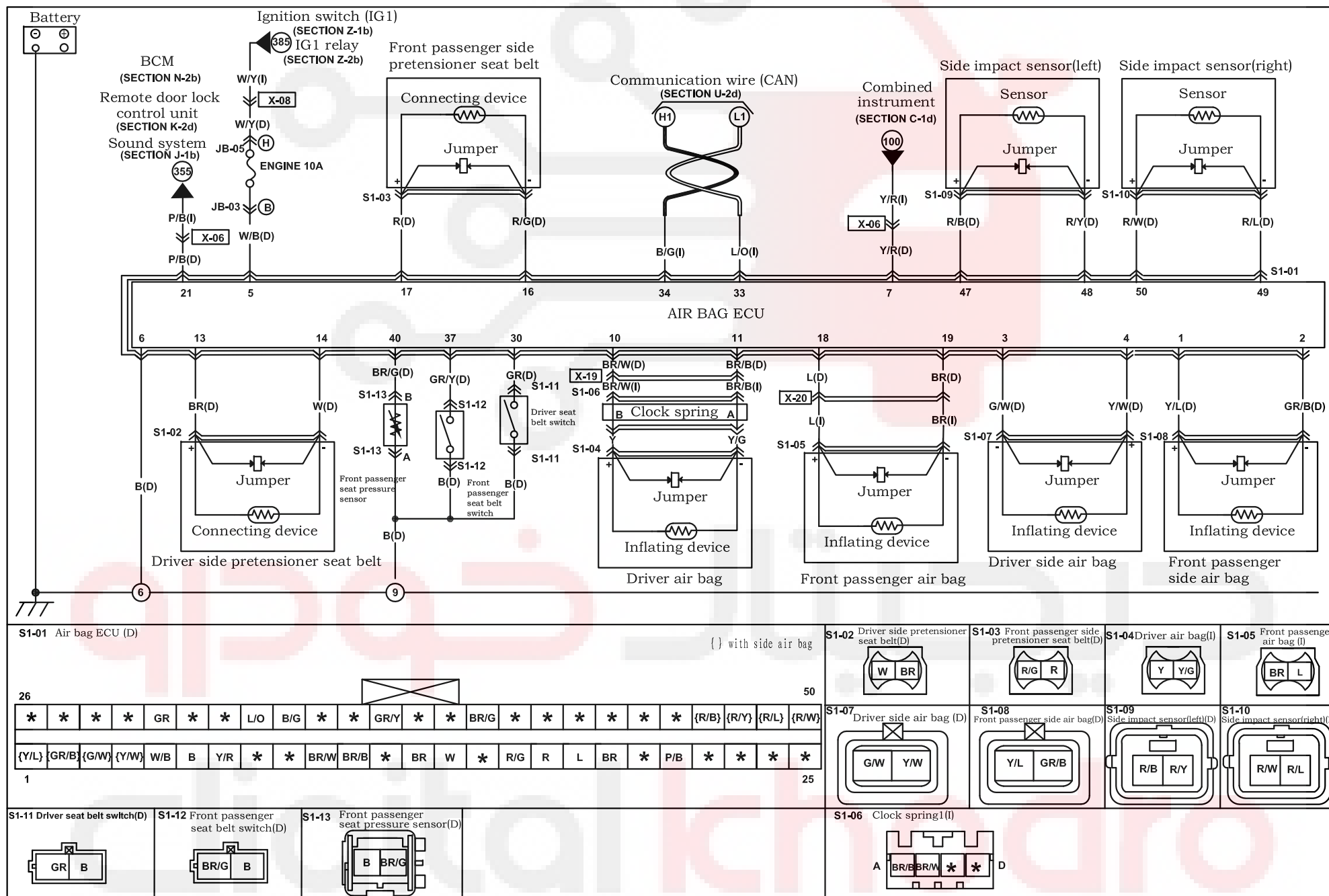
A1-03 Battery B+ (E)

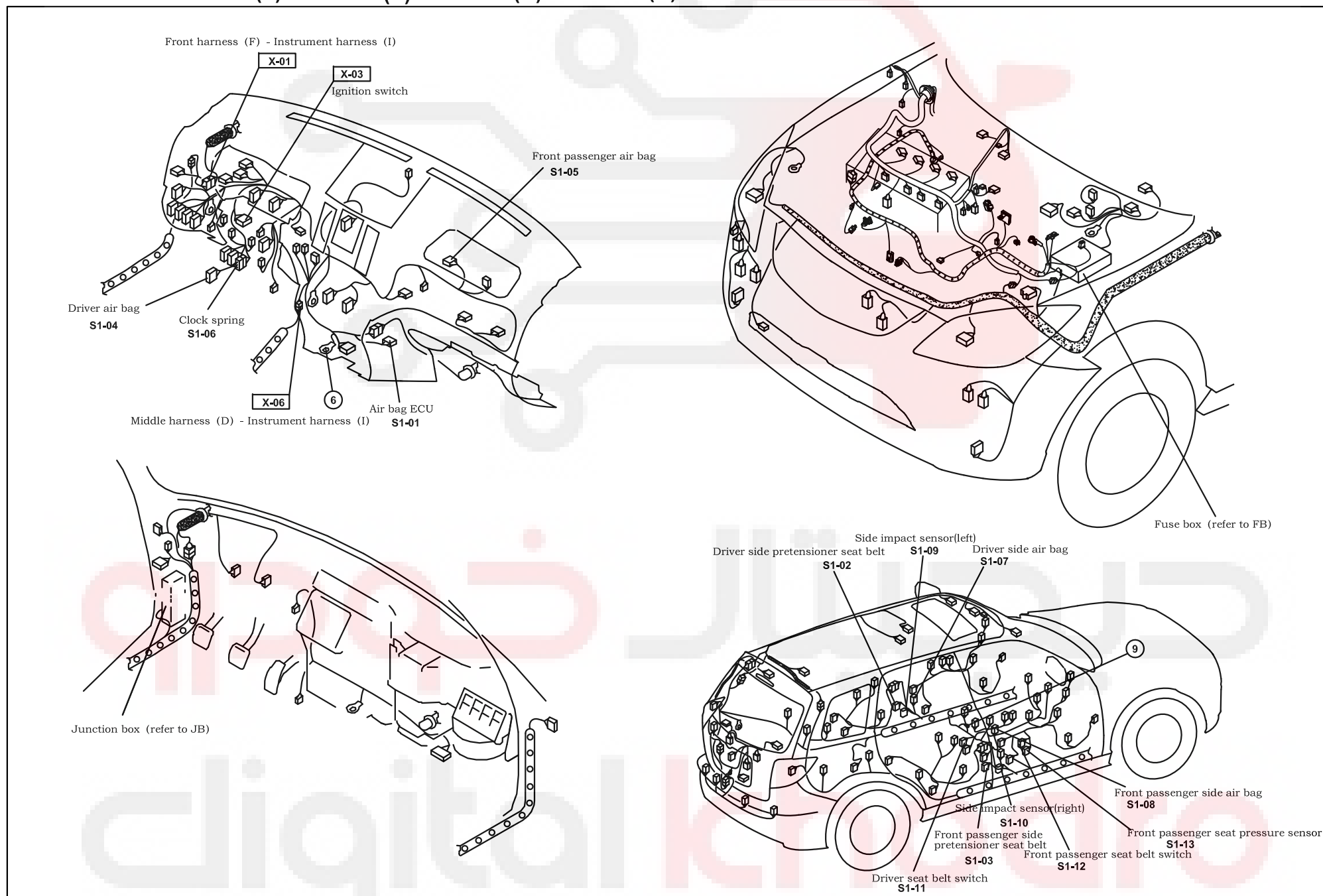


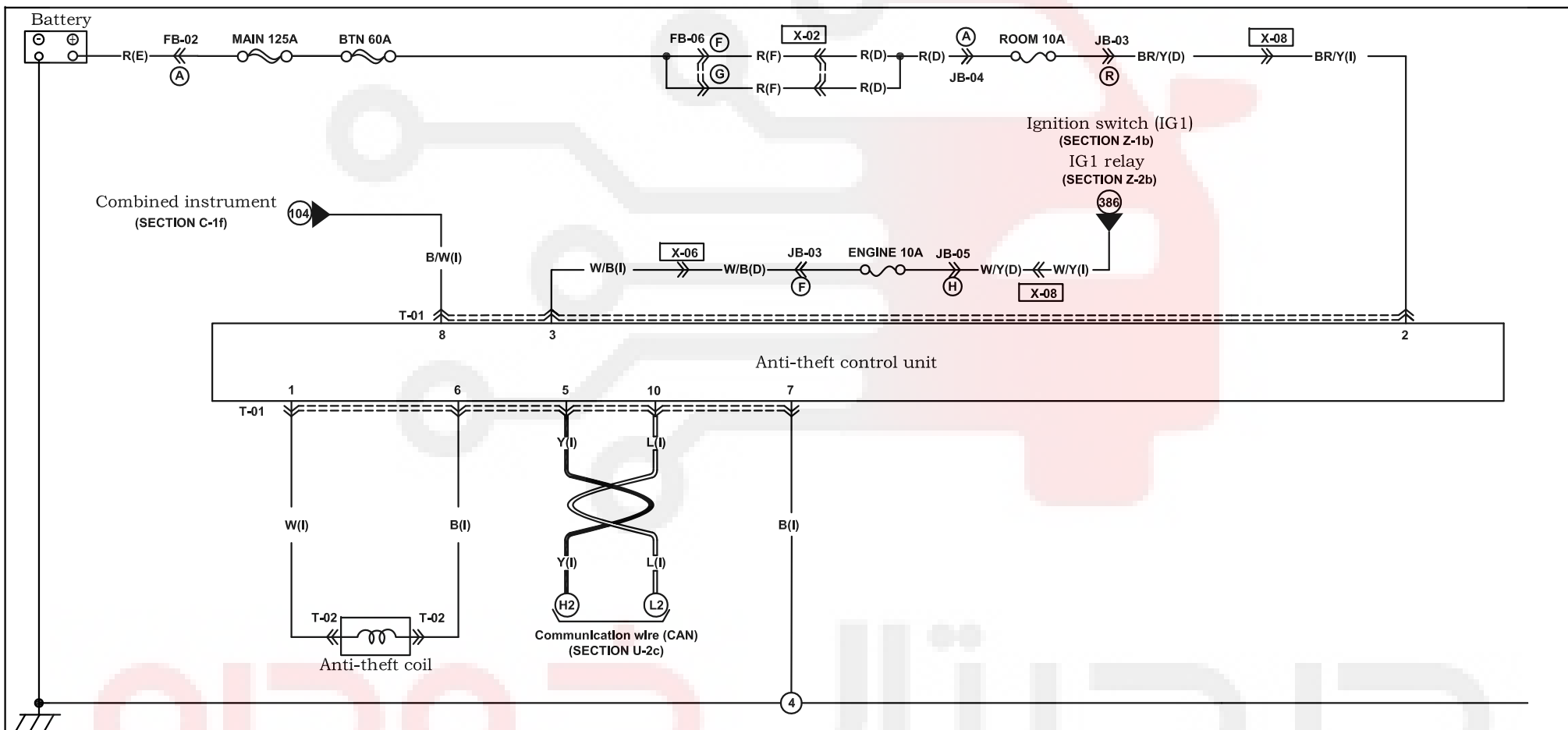
Q-02 EPS controller (I)







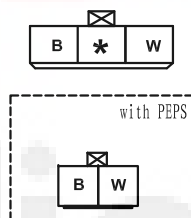


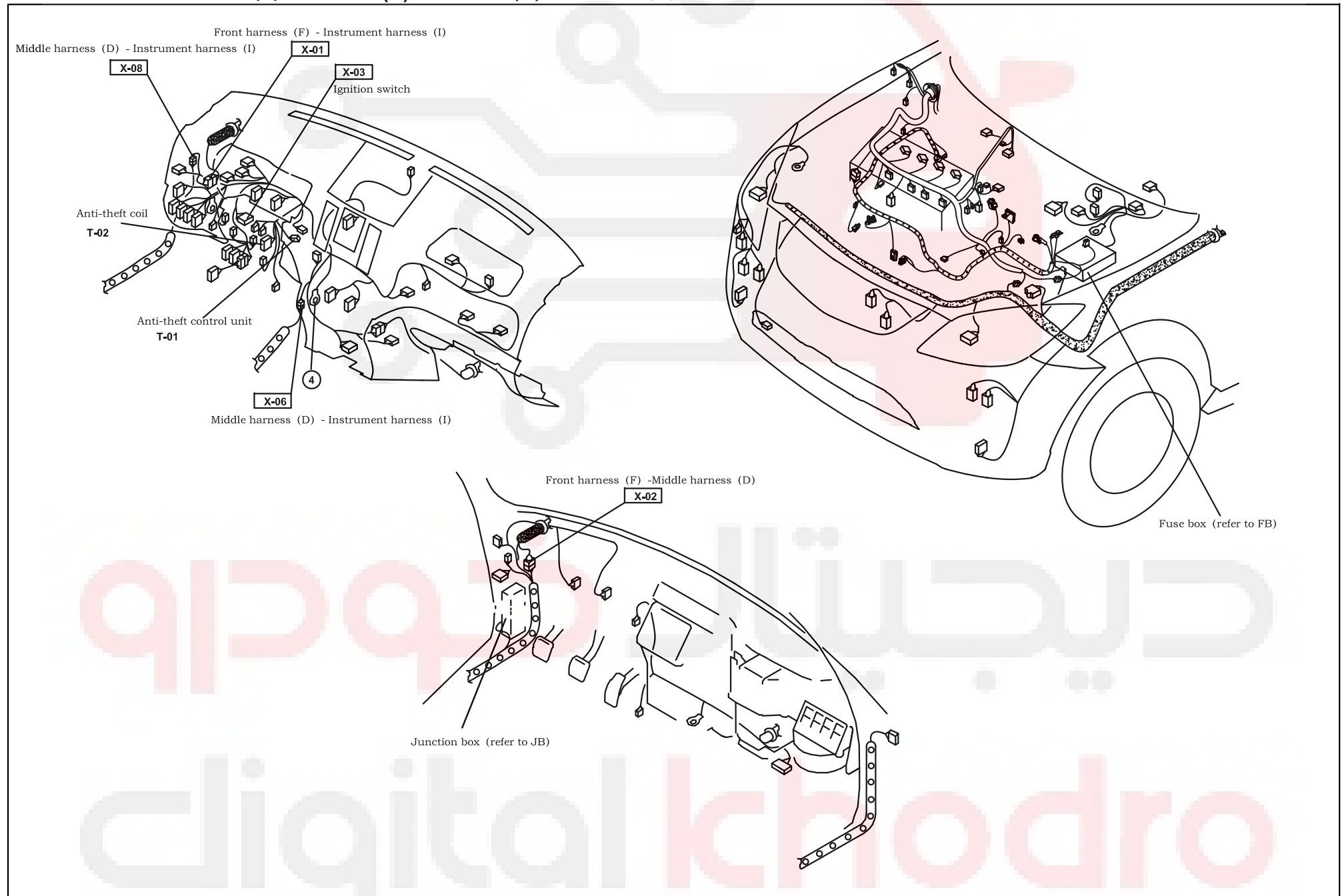


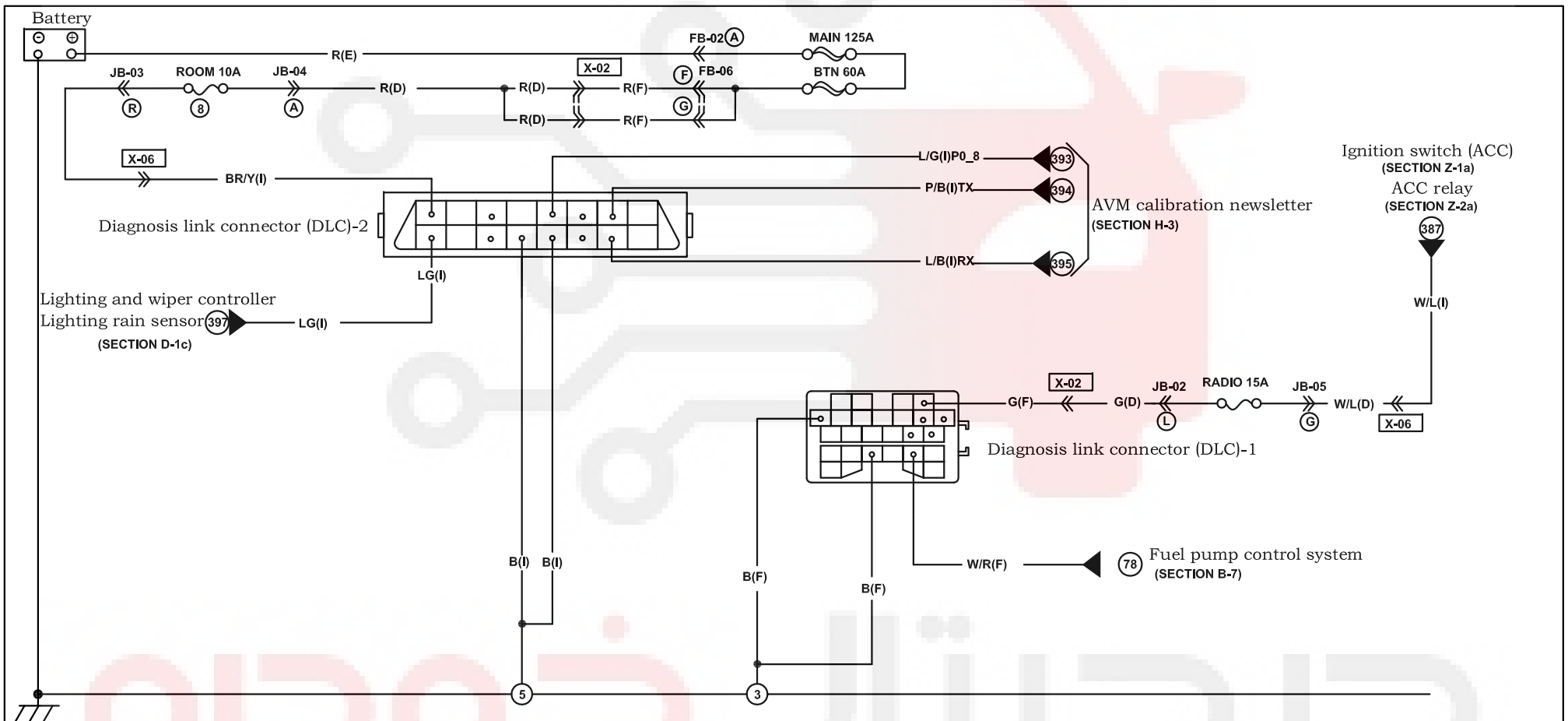
T-01 Anti-theft control unit (I)

10	9	8	7	6
L	*	B/W	B	B
5	4	3	2	1
Y	*	W/B	BR/Y	W

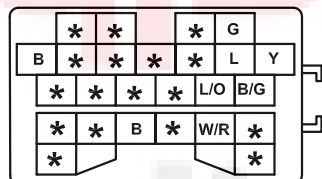
T-02 Anti-theft coil (I)





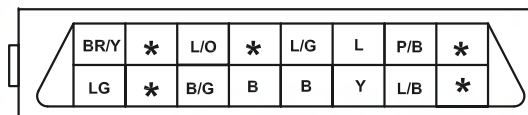


U-01 Diagnosis link connector (DLC)-1 (EM)

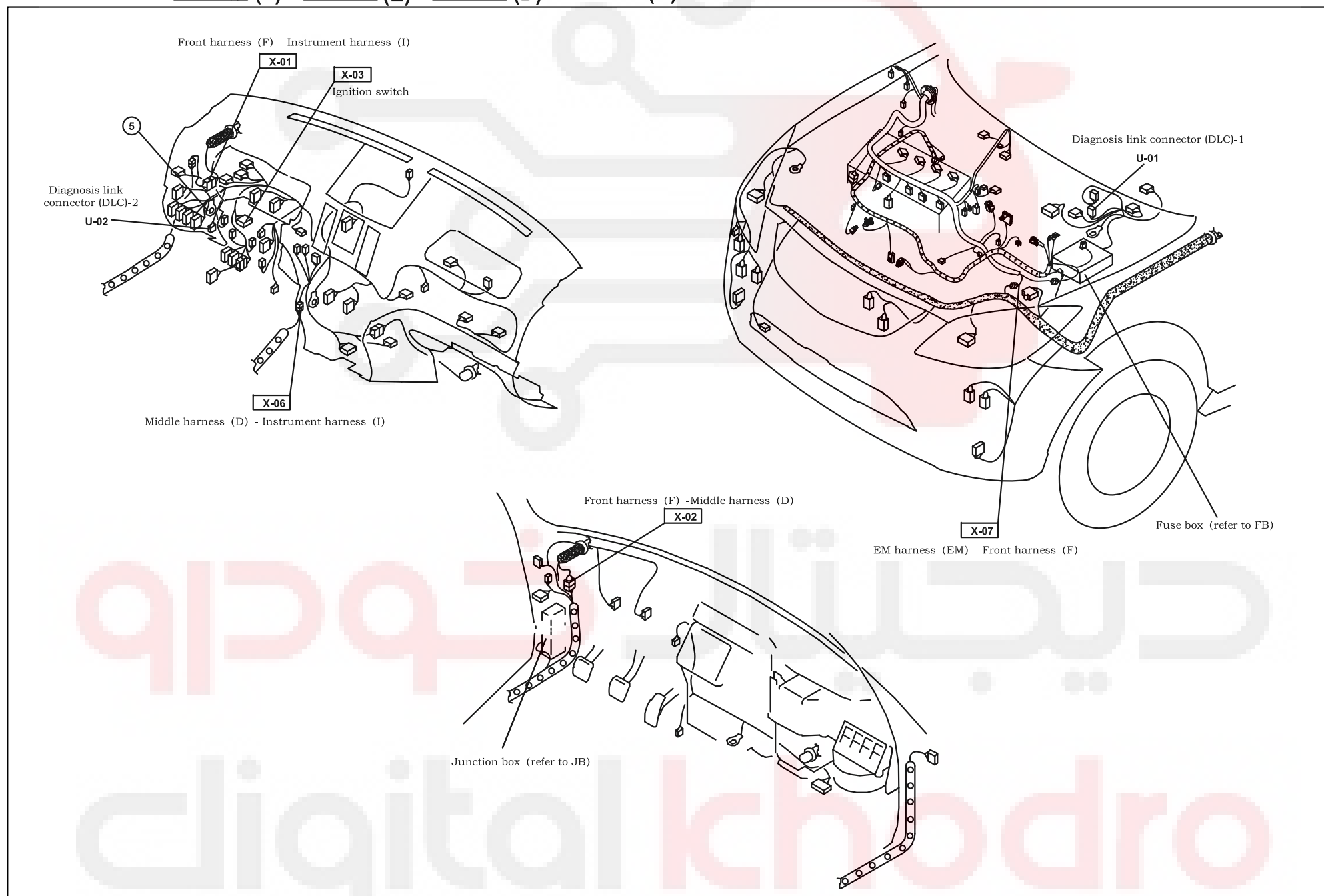


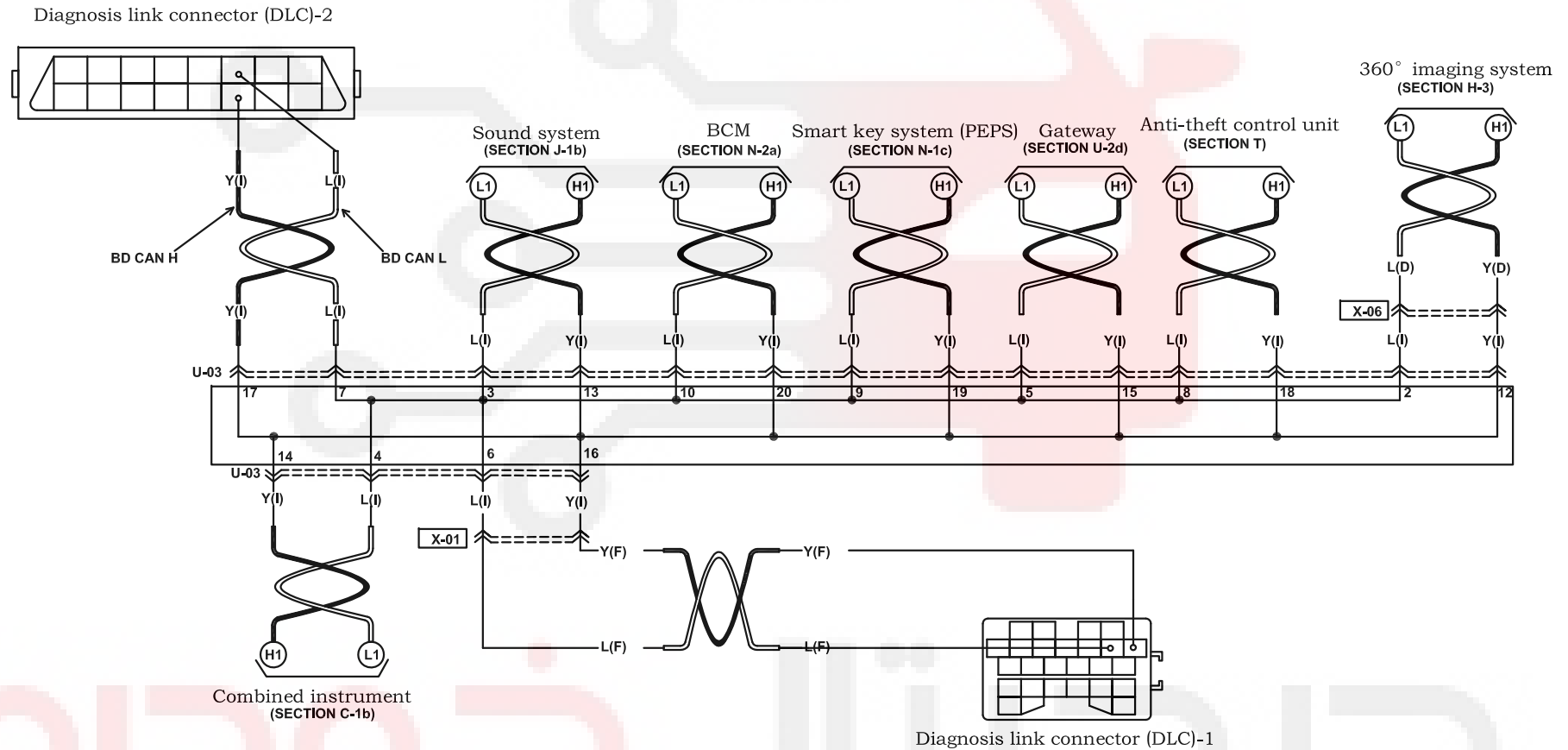
Note: view from the harness terminal

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

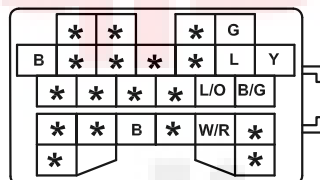


Note: view from the harness terminal



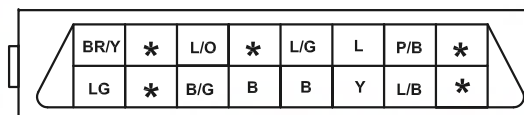


U-01 Diagnosis link connector (DLC)(EM)



Note: view from the harness terminal

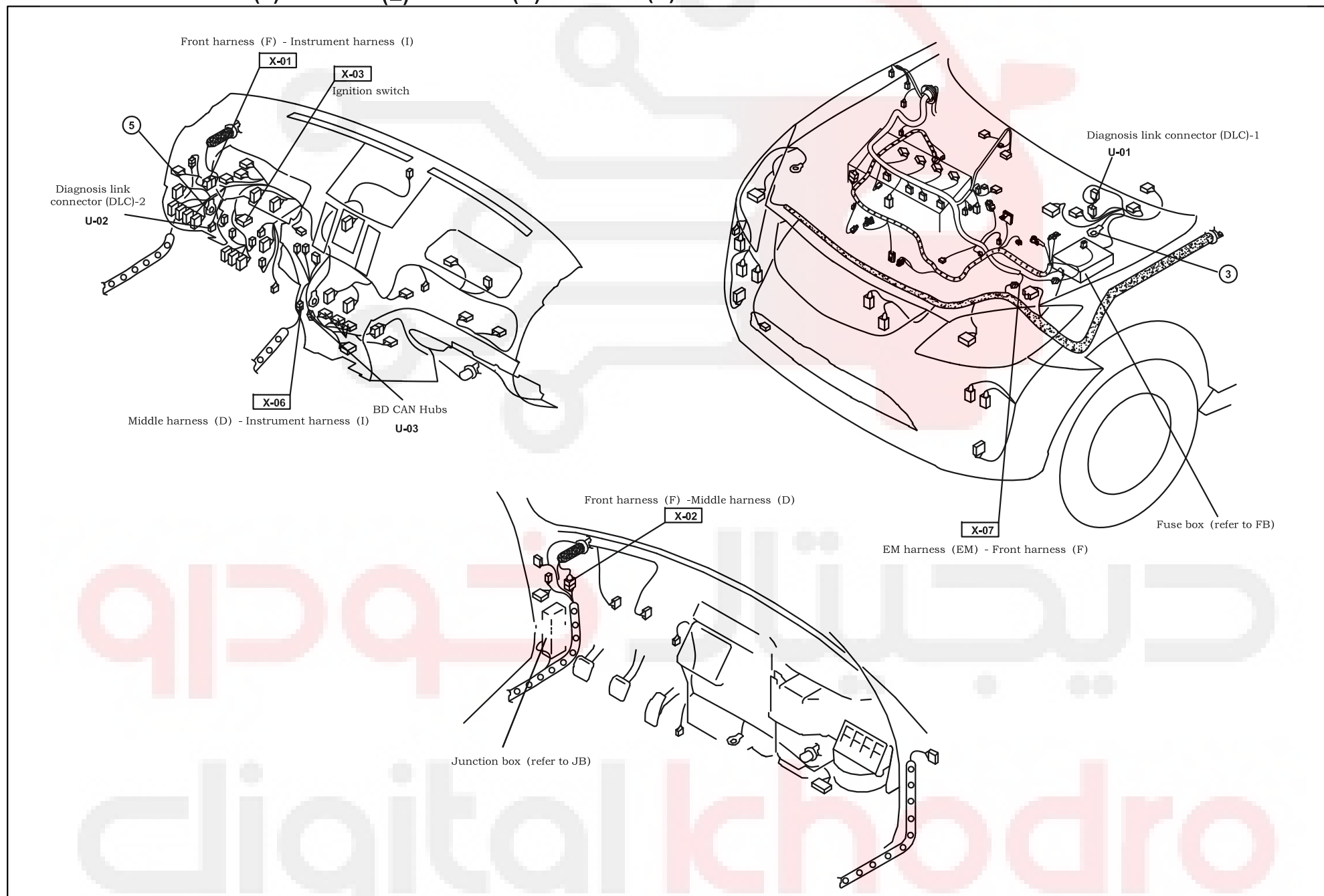
U-02 Diagnosis link connector (DLC)-2(I)

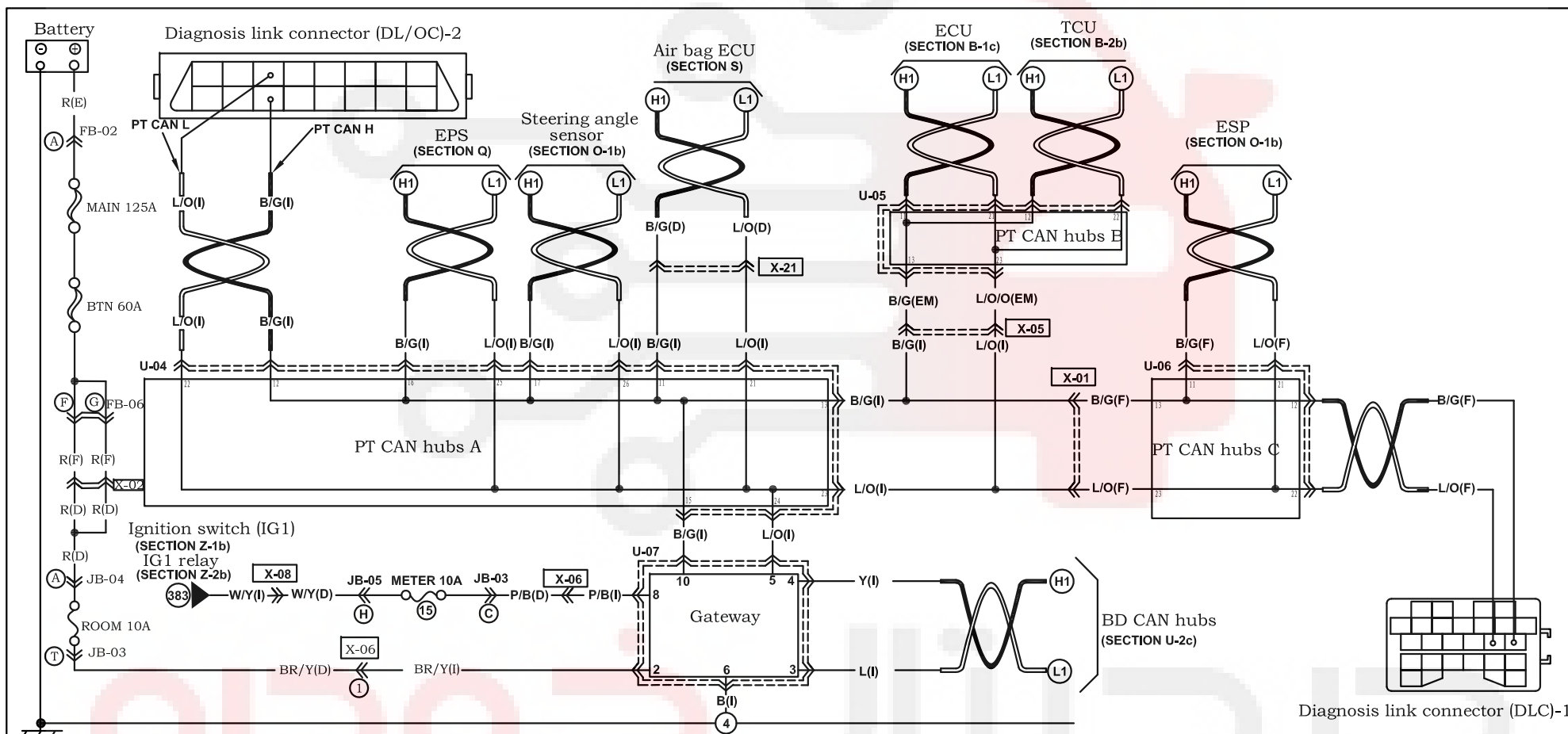


Note: view from the harness terminal

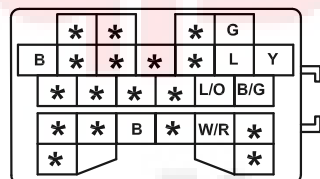
U-03 BD CAN Hubs





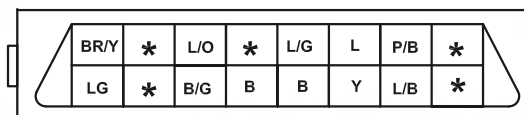


U-01 Diagnosis link connector (DL/OC)(EM)



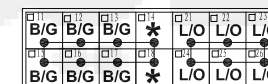
Note: view from the harness terminal

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

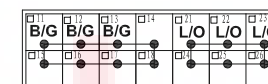


Note: view from the harness terminal

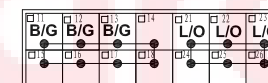
U-04 PT CAN hubs A



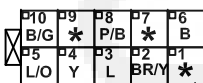
U-05 PT CAN hubs B

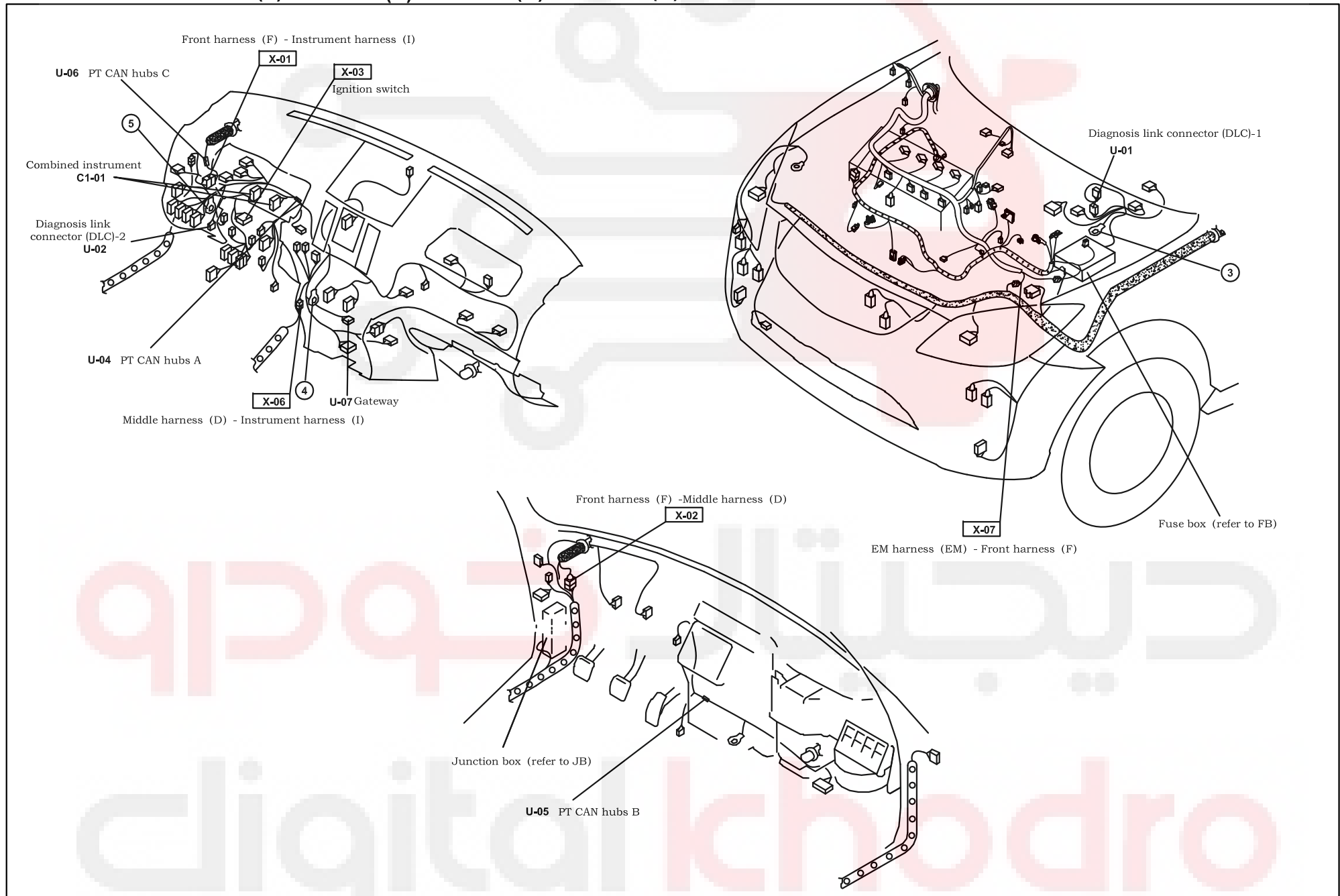


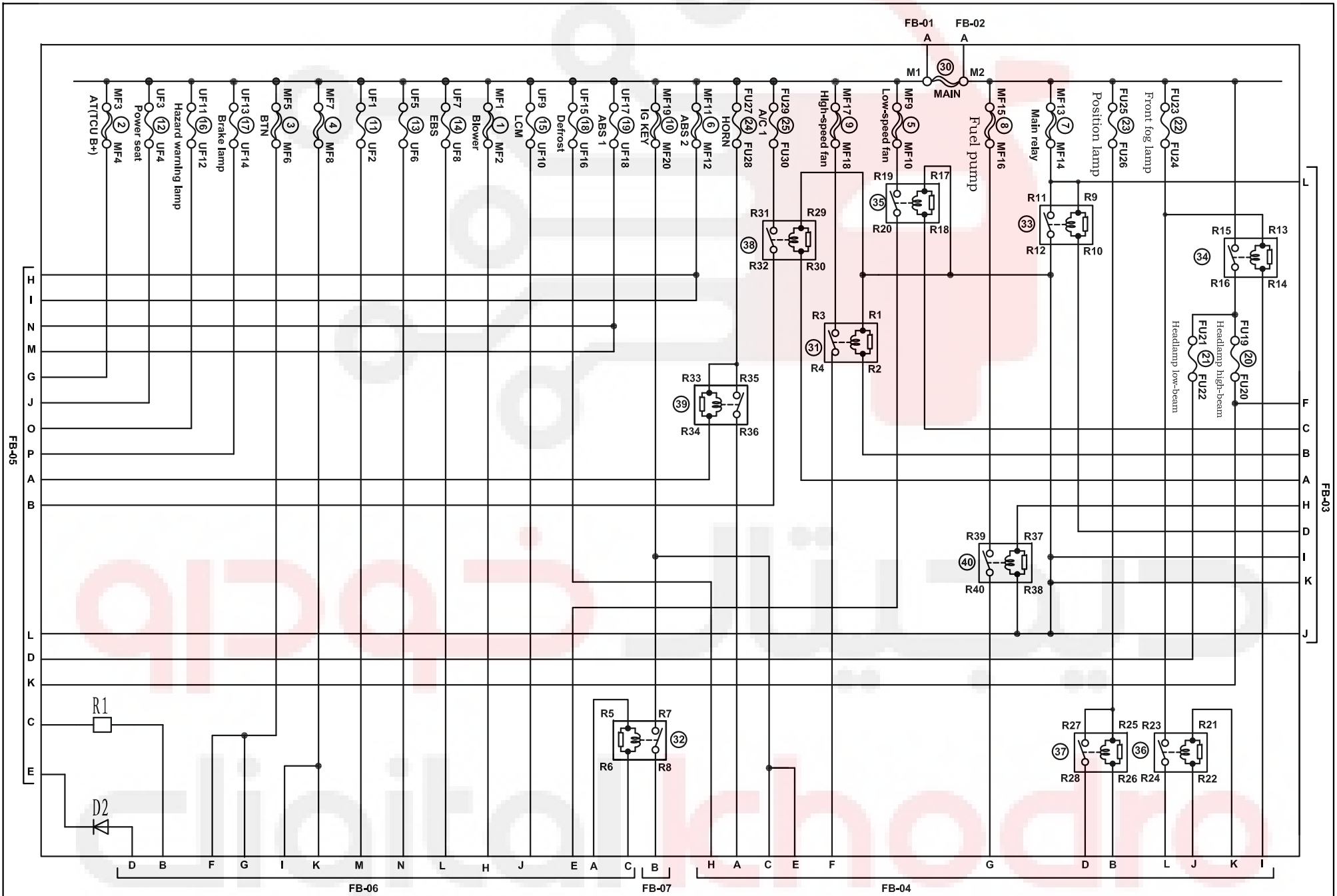
U-06 PT CAN hubs C

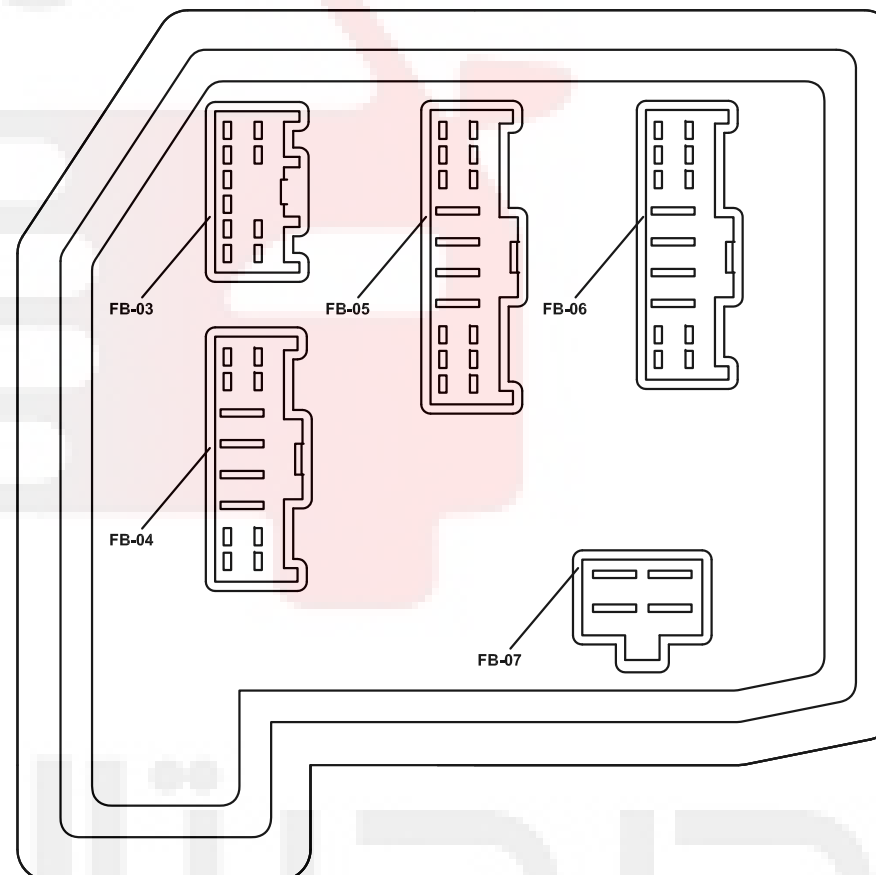
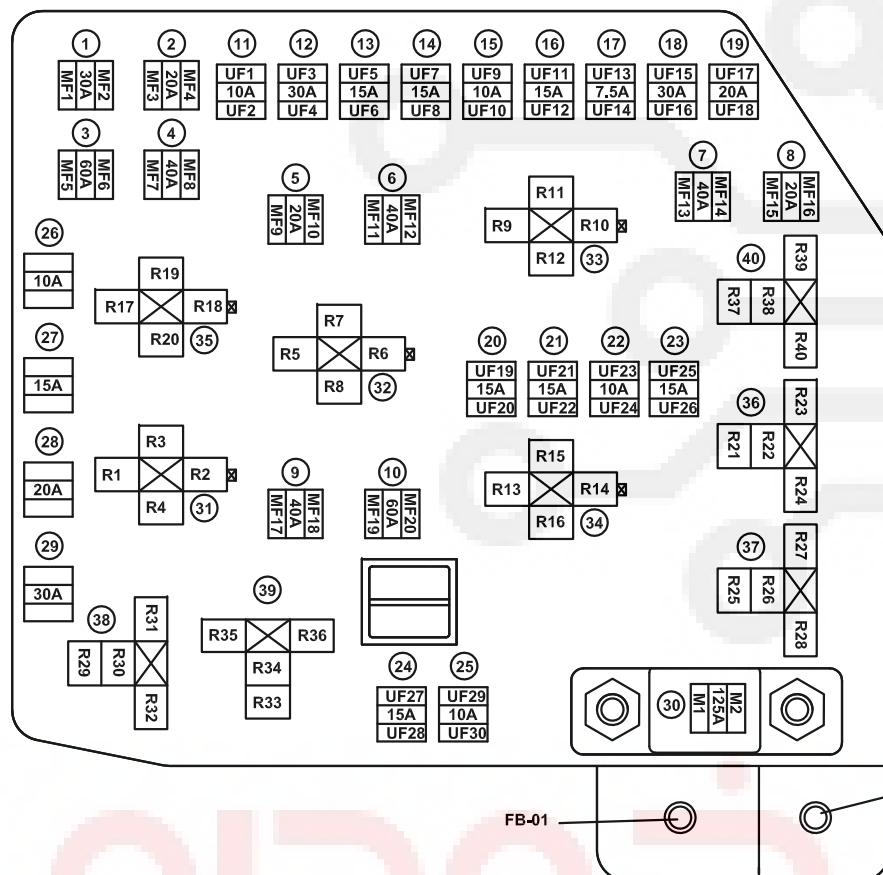


U-07 Gateway









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

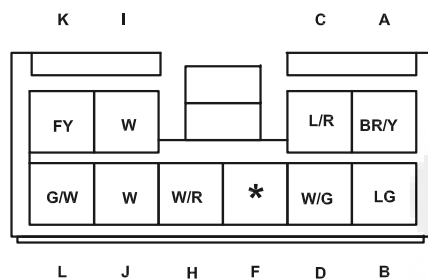
FB-01 Engine harness (E)



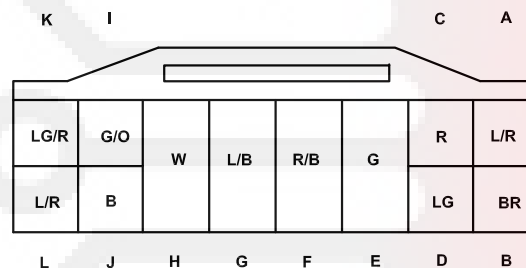
FB-02 Engine harness (E)



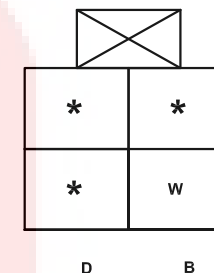
FB-03 EM harness (EM)



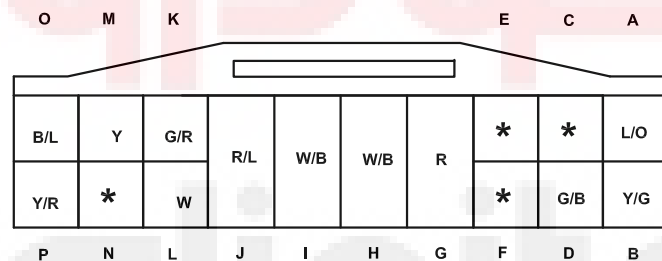
FB-04 Front harness (F)



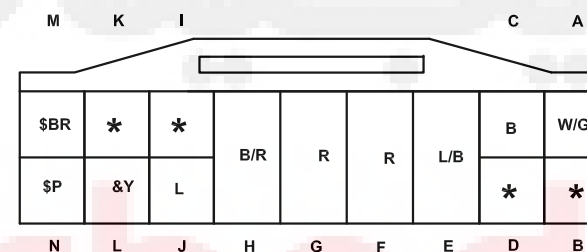
FB-07 Engine harness (E)



FB-05 Front harness (F)

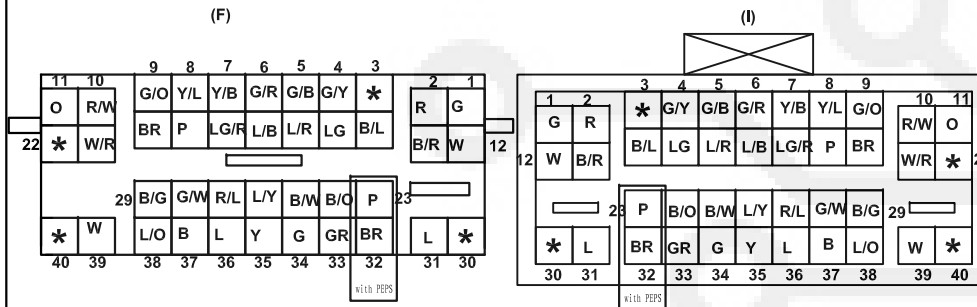


FB-06 Front harness (F)

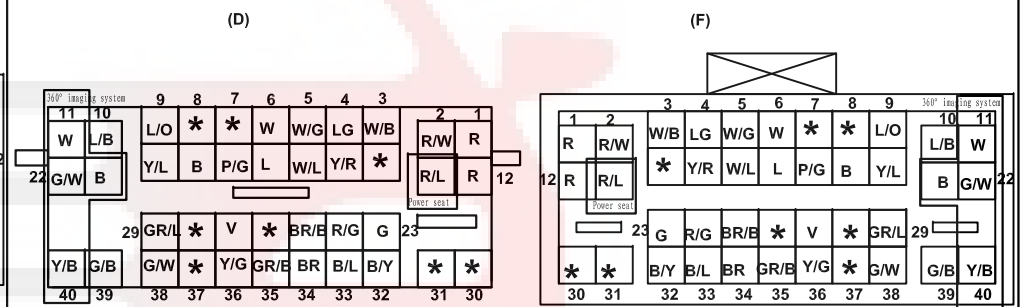


\$ with PEPS
& with start-stop

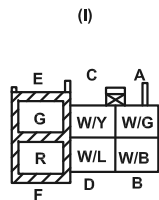
X-01 Front harness (F) - Instrument harness (I)



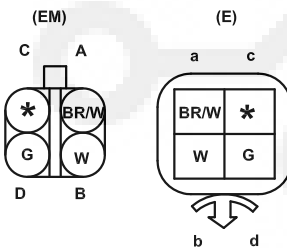
X-02 Front harness (F) -Middle harness (D)



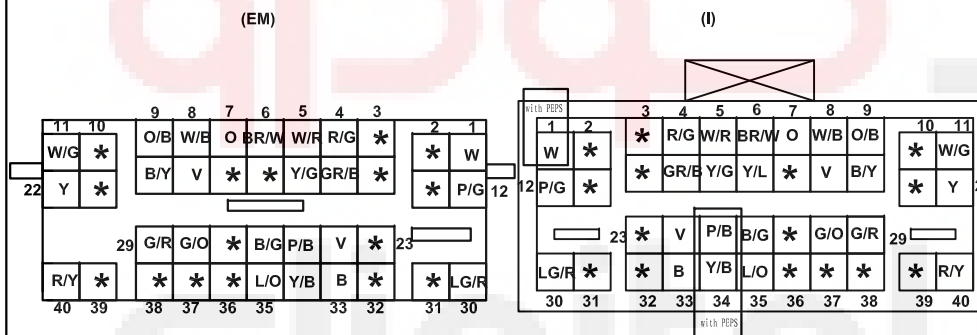
X-03 Ignition switch (I) & with start-stop



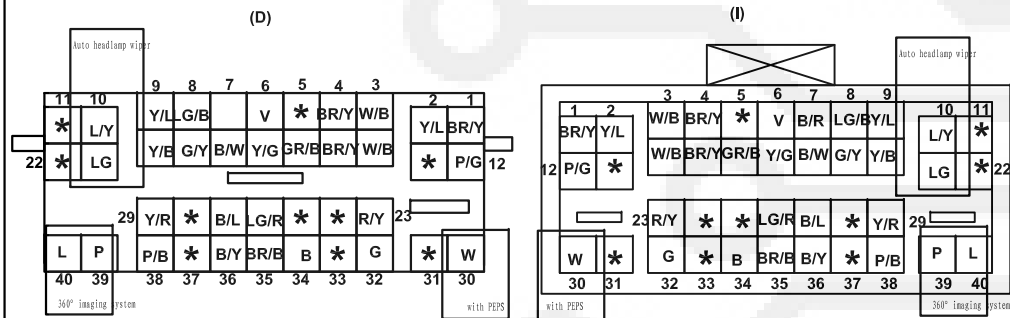
X-04 Engine harness (E) - EM harness (EM) & with start-stop



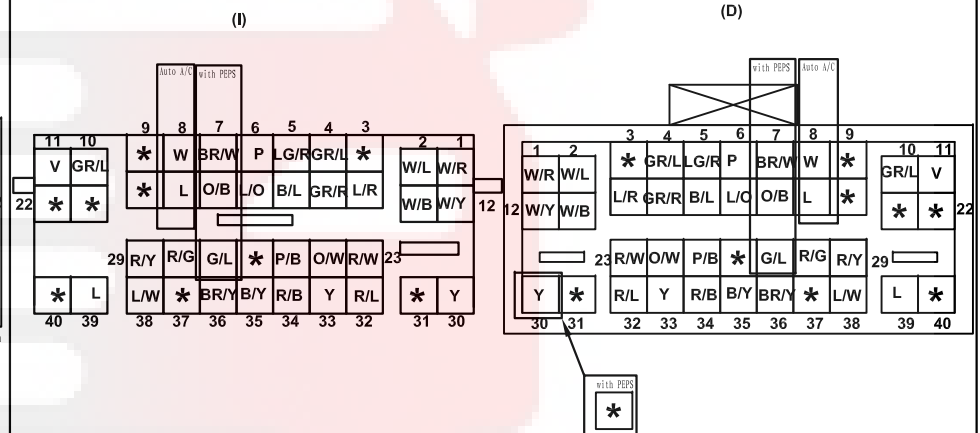
X-05 EM harness (EM) - Instrument harness (I)



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

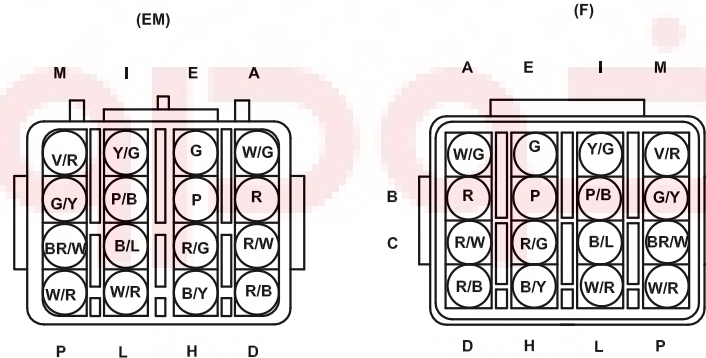


X-08 Middle harness (D) - Instrument harness (I)



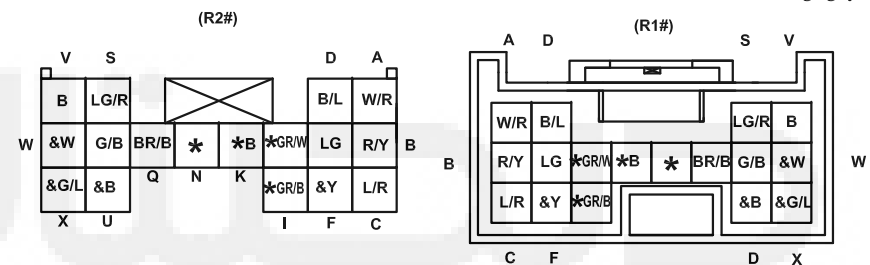
X-07 EM harness (EM) - Front harness (F)

< > with AT



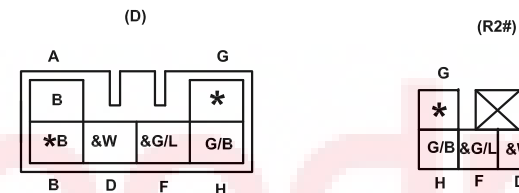
X-09 1# back door harness (R1#) -2# back door harness (R2#)

* with reversing camera
& with 360° imaging system



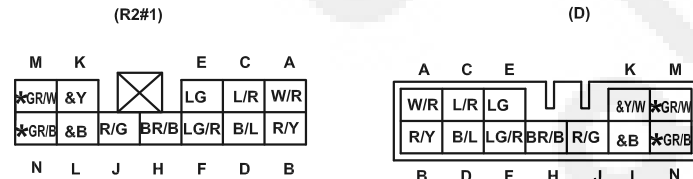
X-10 Middle harness(D) -2# back door harness (R2#2)

* with reversing camera
& with 360° imaging system



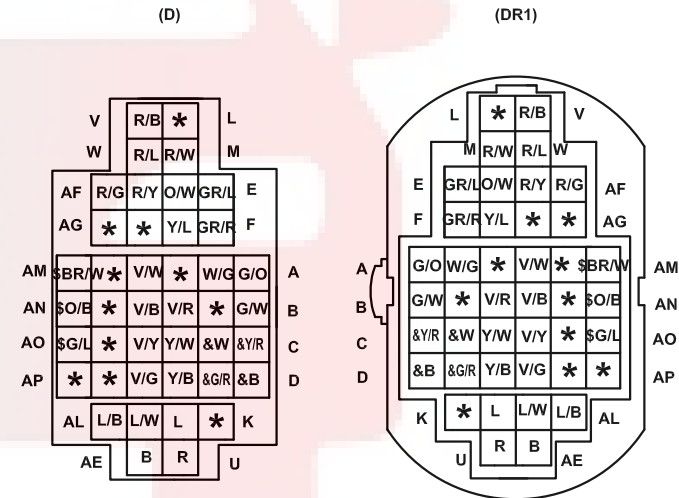
X-11 2# back door harness (R2#1) -Middle harness (D)

* with reversing camera
& with 360° imaging system



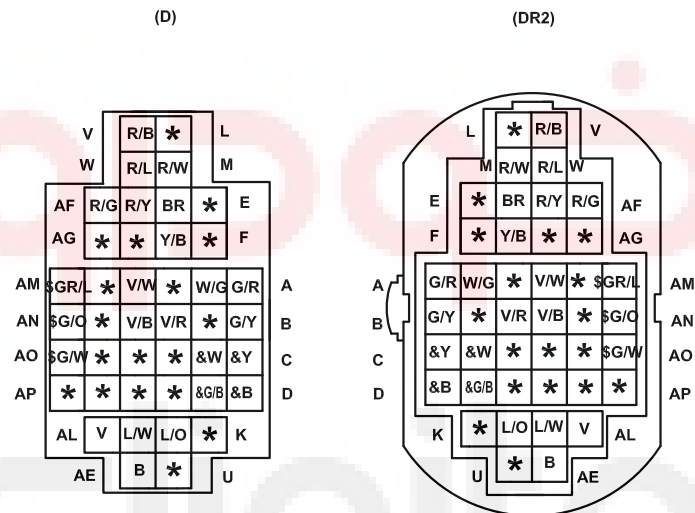
X-12 Middle harness (D) -Front door harness (DR1)

\$ with PEPS
& with 360° imaging system

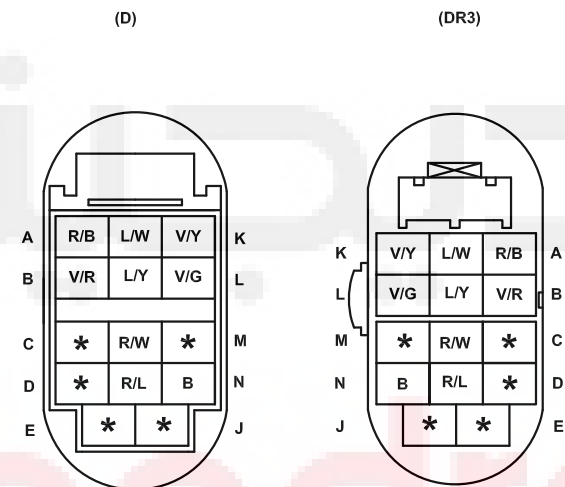


X-13 Middle harness (D) - Front door harness (DR2)

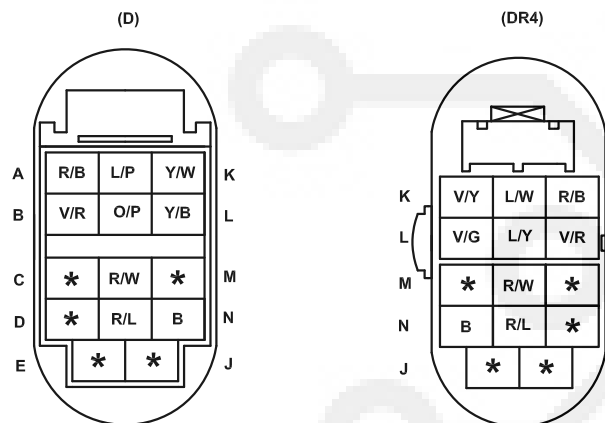
\$ with PEPS
& with 360° imaging system



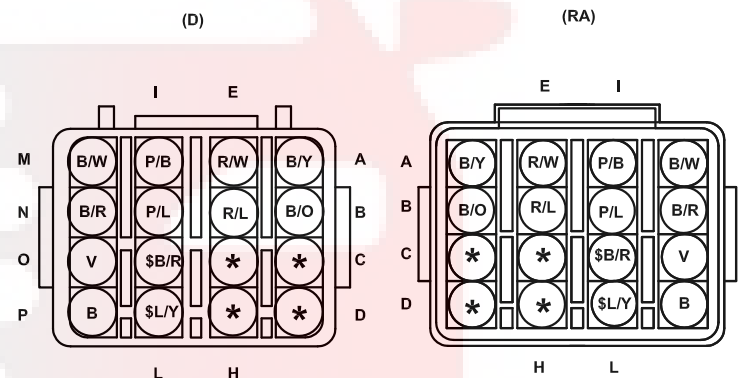
X-14 Middle harness (D) -Rear left door harness (DR3)



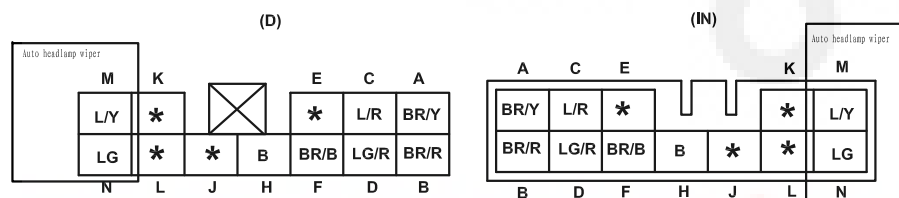
X-15 Middle harness (D) -Rear right door harness (DR4)



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



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



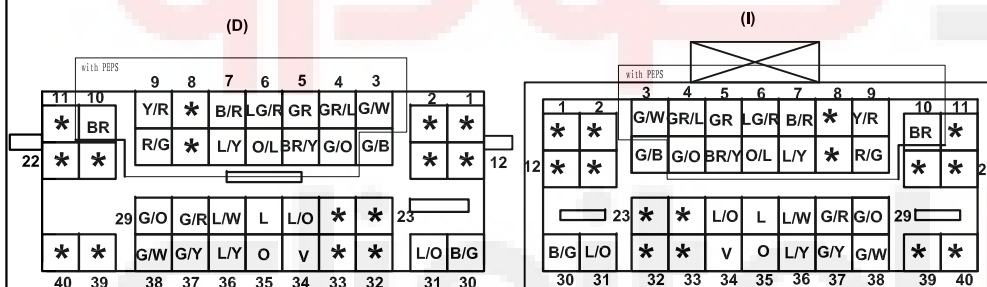
X-19 Middle harness (D) -Instrument harness (I)



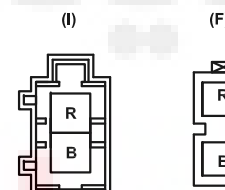
X-20 Middle harness (D) -Instrument harness (I)



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



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



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

