



راهنمای معرفی و جانمایی دسته سیم ها

و نقشه های الکتریکی

خودرو هایما S5 توربو شارژ

راهنمای معرفی و جانمایی دسته سیمها و نقشه های

الکتریکی خودروی هایما (S5) توربوشارژر

دیجیتال خودرو

digitalkhodro

فهرست

فارسی	code	English
رنگ سیم	CL	Wire Color
علائم دسته سیم ها	CL	Wire Symbol
منبع تغذیه	W	Power-Supply Distribution
اتصالات بدنه	Y-1 Y2	Ground Point
سیستم شارژ و سیستم استارت	A	Charging System / Start-up System
سیستم سوخت رسانی و موتور	B-1 B2 B3 B4 B5	Engine Control System
جلو آمپر	C-1 C2	Combination Instrument
برف پاک کن و شیشه شور جلو	D -1 D2	Windshield Wiper And Washer
تغذیه سیستم/برف پاکن و شیشه شور جلو (در نقشه BCM)	F-1	Power Supply/Front Wiper and Washer Control
برف پاکن و شیشه شور عقب/ بوق / سیستم قفل مرکزی (در نقشه BCM)	F-2	Rear Wiper And Washer/ Horn / Door Lock Motor
کنترل یونیت BCM	F-3	BCM Control Unit (Communication Wire)
بخاری و سیستم تهویه مطبوع	G1 G2 G3	Heating And Air Conditioning System
سیستم نمایشگر فشار باد تایر	H	Tire Pressure Monitoring System
فندک	I	Cigarette Lighter / Standby Power
سیستم صوتی	J-1	Sound System
سیستم دید عقب و دوربین ۳۶۰ درجه (در نقشه سیستم صوتی)	J2 J3	DVD 360 Panoramic View
سیستم Power window	K1 K2 K3	Power Window System
چراغهای سقفی و آئینه	L1	Interior lamp/Reading Lamp/Make-up Mirror Lamp
چراغ ترمز و چراغ دنده عقب	L2	Brake Lamp/Reversing Lamp

Head Lamp/ Head Lamp Adjustmen/Position Lamp	L3	چراغ های اصلی و تنظیم ارتفاع چراغ های اصلی، چراغ جانبی
Front Fog Lamp/Rear Fog Lamp/Turn Signal Lamp	L4	چراغ های مه شکن جلو و عقب
Door Lamp/Trunk Lamp/ Welcome/Hazard Warning Lamp	L5	چراغ در، چراغ صندوق، چراغ ورود و چراغ های فلاشر
Daytime Running Lamp/Rear Position Lamp/ License Plate Lamp	L6	چراغ های رانندگی در روز، چراغ های عقب، چراغ های پلاک
Back Light	L7	چراغ های روشنایی داشبورد
Power Sunroof	M	سانروف
Anti-theft System	N	سیستم ضد سرقت
ESP	O	سیستم کنترل پایداری خودرو
Airbag	P1 P2	کیسه هوا
Smart Key System (PEPS)	P M-1 PM-2	سیستم کلید هوشمند
EPS System (Electric Power Steering)	Q1	فرمان برقی
Steering Angle Sensor.....	Q2	سنسور زاویه فرمان
Fuel Pump Control System	R	پمپ بنزین
Cooling Fan Control System	S	سیستم خنک کننده موتور
Reversing Radar System	T	سیستم هشدار موانع عقب
TCU	TU-1	گیربکس اتوماتیک
Diagnosis Link Connector	U	کانکتور عیب یابی
Power Seat	V	صندلی برقی
Fuse Box Wiring Diagram	FB	فیوزها و رله های محفظه موتور
Junction Box and Battery Fuse	JB	جعبه فیوز
Common Connector List	X-1 X2 X3 X4 X5	اینترکانکتورها
CAN Network Connection Diagram	Z	نقشه ارتباط شبکه CAN

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.



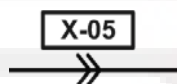
راهنمای معرفی و جانمایی دسته سیمها و نقشه های الکتریکی

هایما (S5) توربوشارژر

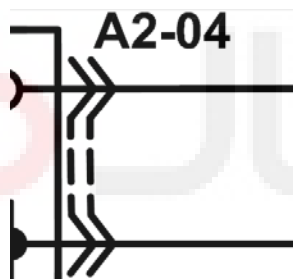
بر روی هر سیم کدی وجود دارد که نشان دهنده رنگ و دسته سیم آن می باشد. حروف خارج از پرانتز یعنی در این مثال B/W نشان دهنده رنگ سیم و همچنین حروف داخل پرانتز نشان دهنده دسته سیم می باشد. جدول معرفی کد رنگ ها و دسته سیم ها در صفحات اولیه کتاب آورده شده است.

—————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.

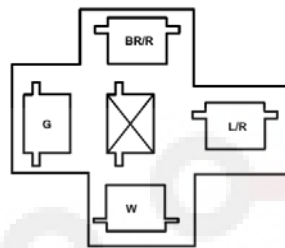


برای نشان دادن کانکتور ها از علامتهایی نظیر علامت زیر استفاده می شود. به طور مثال علامت زیر نشان دهنده آنست که کد کانکتور مذکور A2-04 می باشد و هر دو سیم بالایی و پایینی در آن قرار دارند. مشخصات کلی هر کانکتور، در پایین صفحه همان نقشه ای که در آن بکار رفته است وجود دارد.

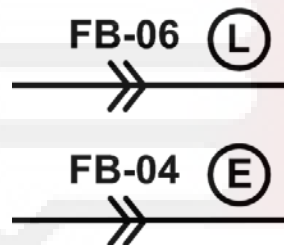


در نقشه های دسته سیم از شماره سیم استفاده نشده است و جهت ردیابی هر مسیر تنها به رنگ سیم و محل قرار گیری در کانکتور بسنده شده است. مانند شکل زیر که کانکتور A2-04 را که مربوط به رله Start-Stop می باشد را نشان داده است.

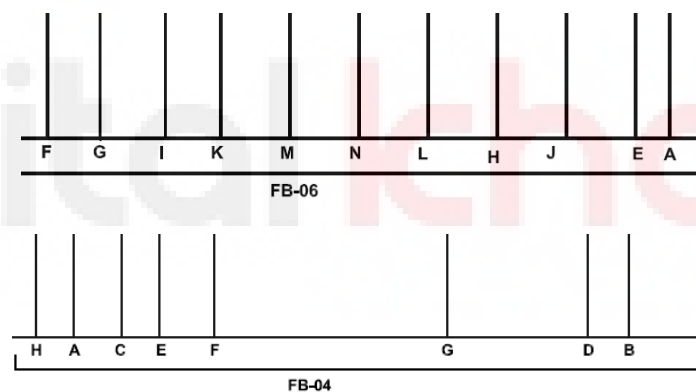
A2-04 Start-stop control relay (EM)



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.

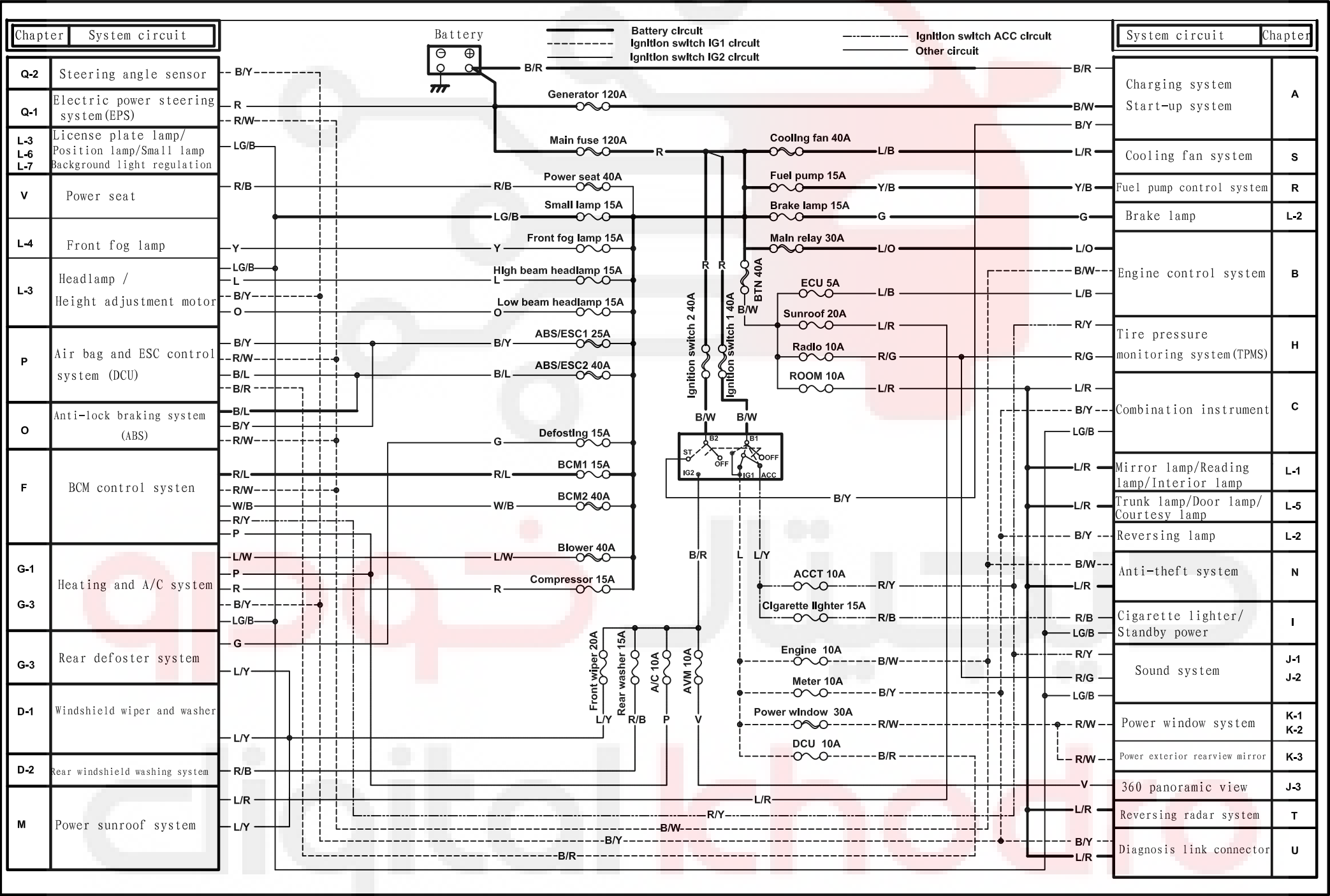


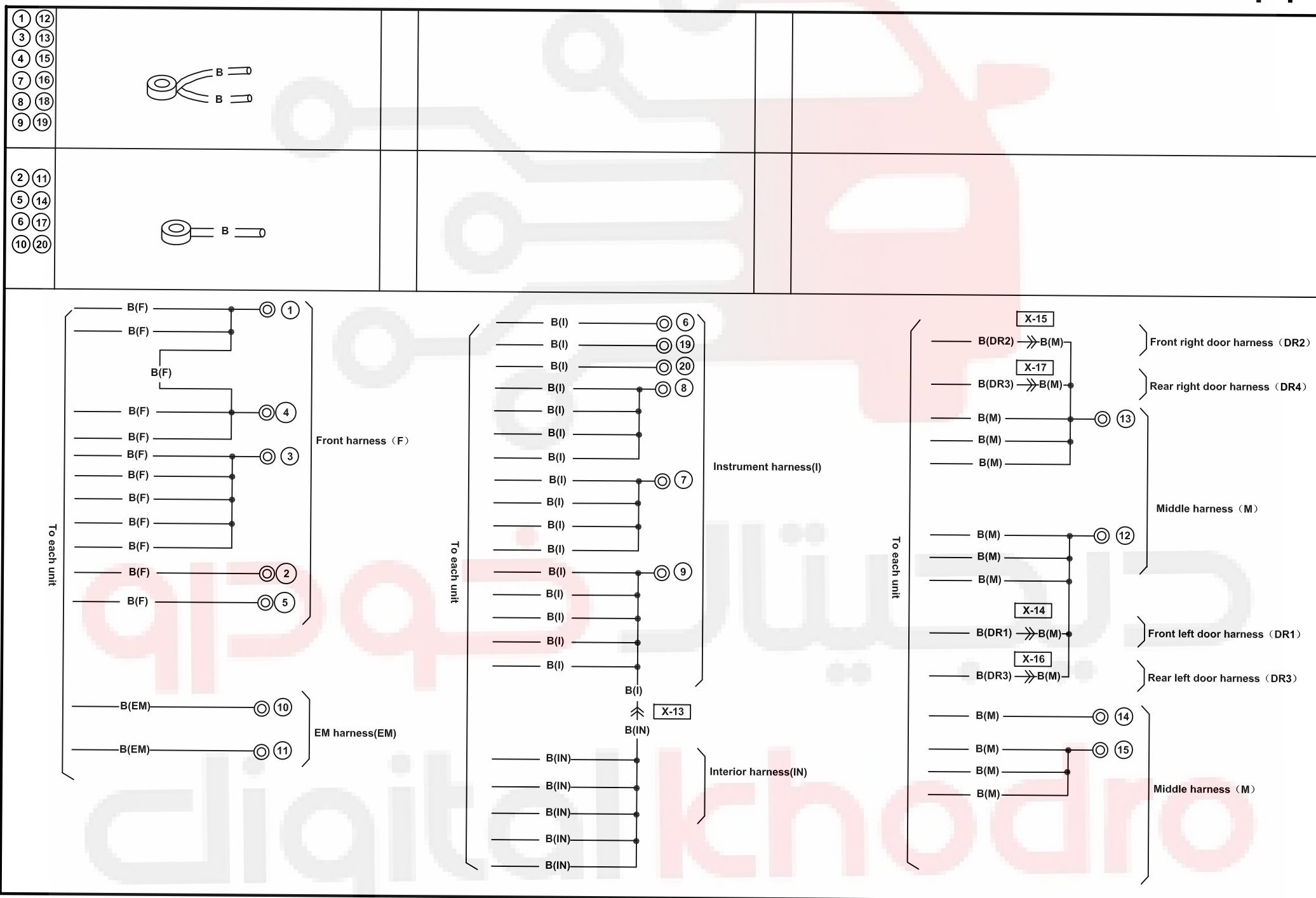
به طور مثال خط ارتباط بالایی نشاندهنده این است که به نقشه FB در بخش FB-06 خط L و برای ارتباط پایینی در نقشه FB در بخش FB-04 خط E مراجعه گردد.

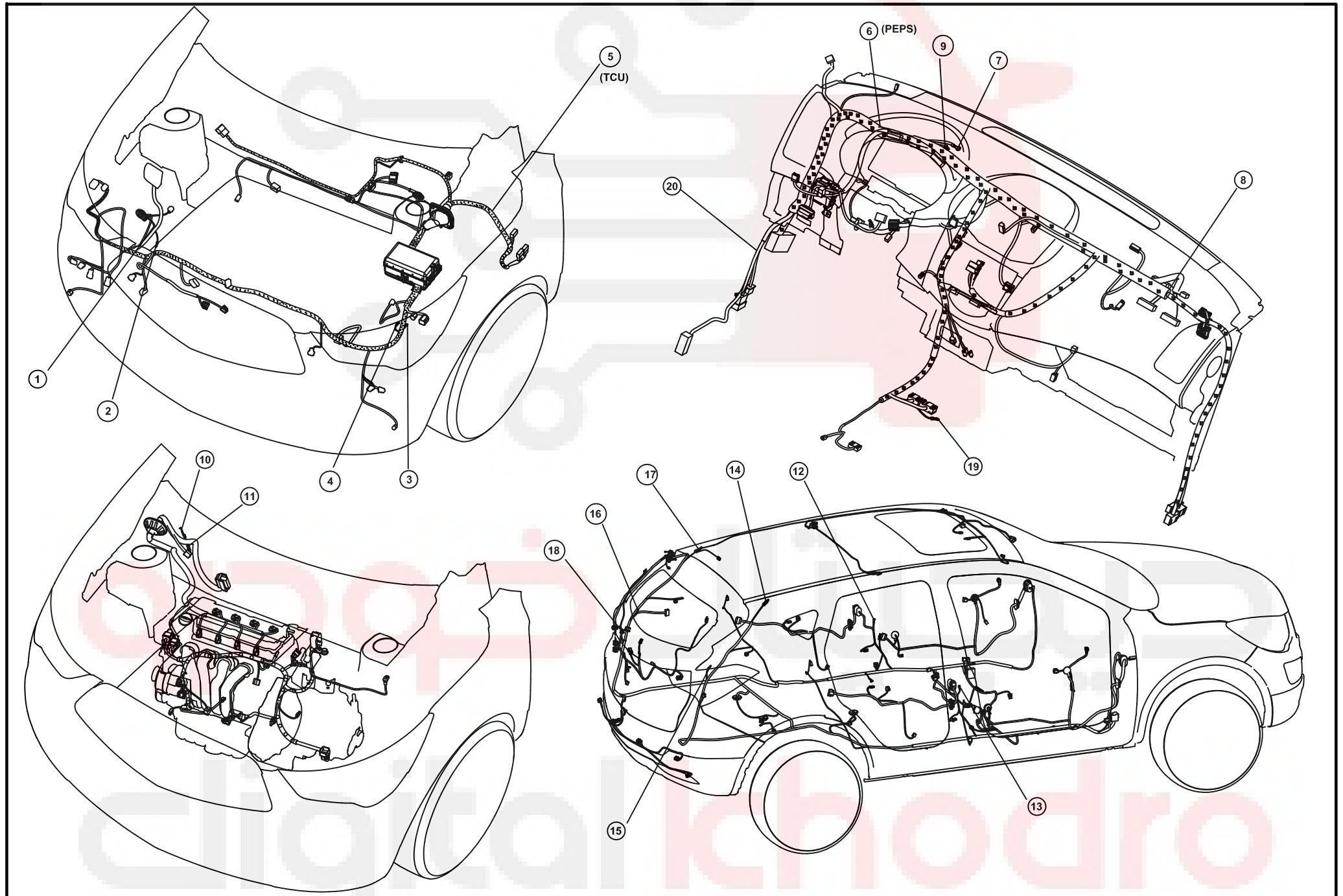


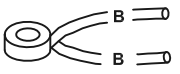
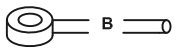
Color	Code	Color	Code
Red	R	Black	B
Yellow	Y	Pink	P
Blue	L	Orange	O
Green	G	Brown	BR
Violet	V	Grey	GR
White	W	Light Green	LG

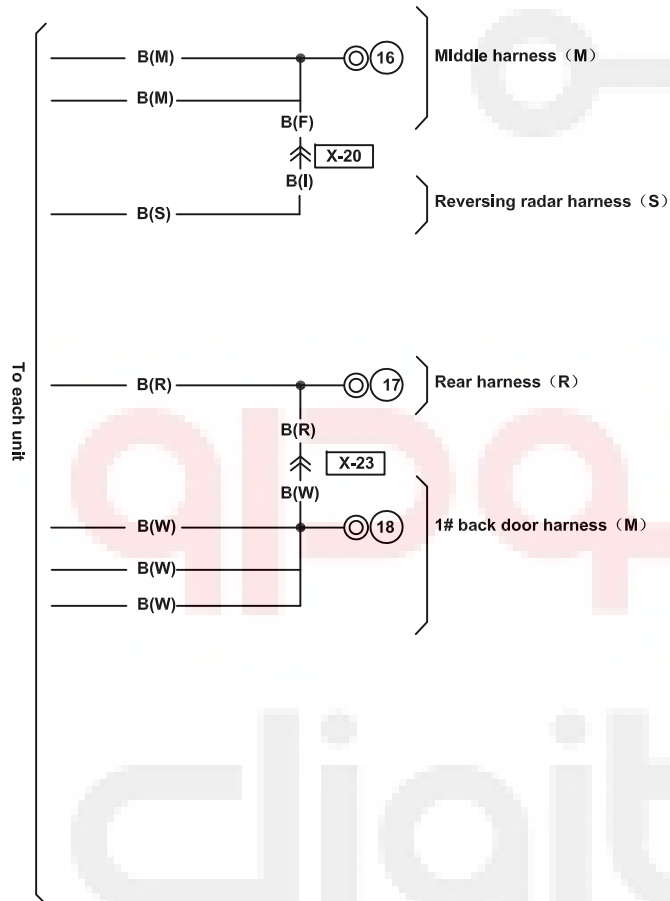
Name	Symbol		Name	Symbol	
Front Wire	F		Back Door Wire R	DR4	
Engine Wire	E		Roof Wire	IN	
EM Wire	EM		Backdoor Wire 1#	W1	
Instrument Wire	I		Rear Fog Wire	S	
Middle Wire	M		Rear Wire	R	
Front Wire L	DR1		Backdoor Wire 2#	W2	
Front Wire R	DR2				
Backdoor Wire L	DR3				

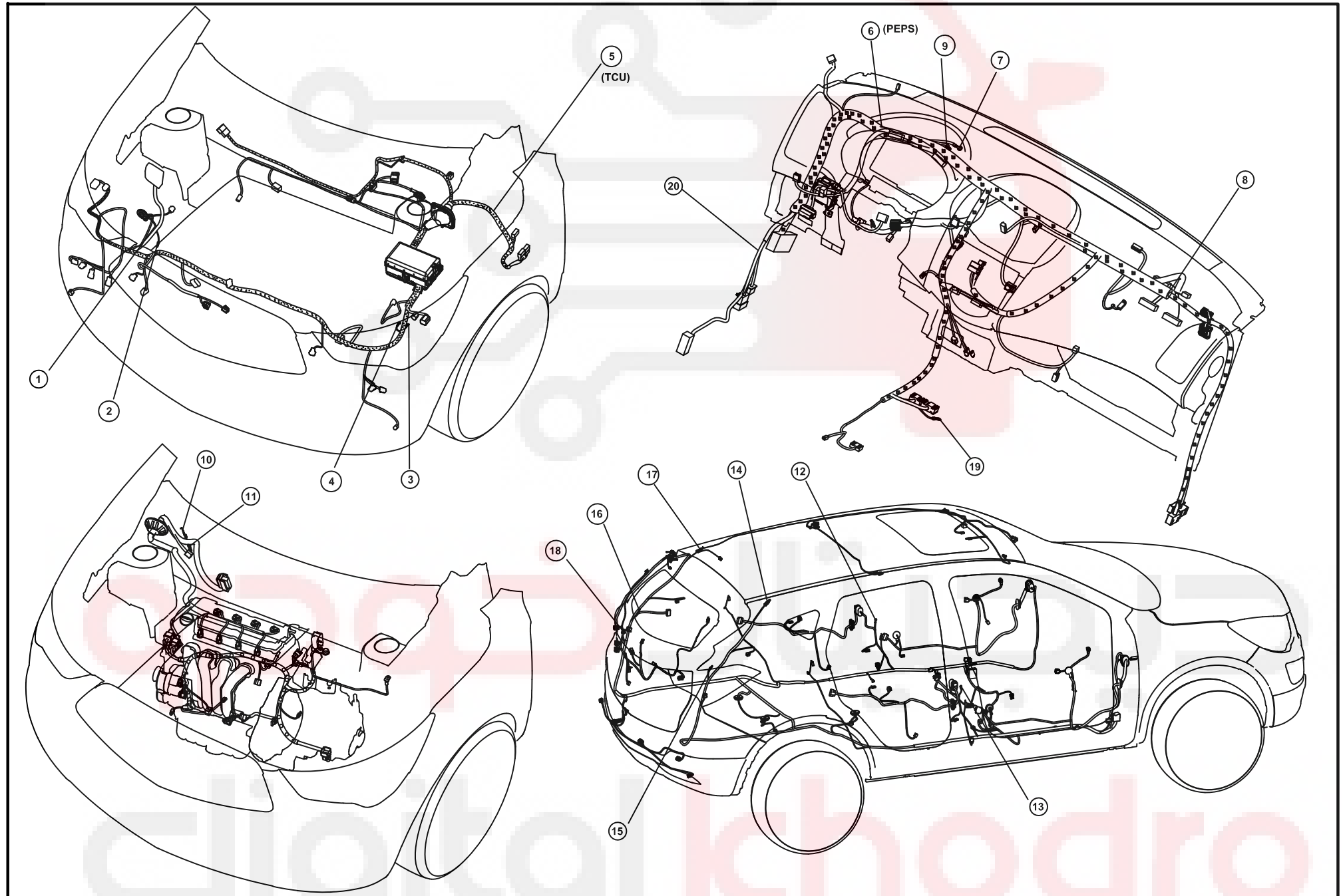


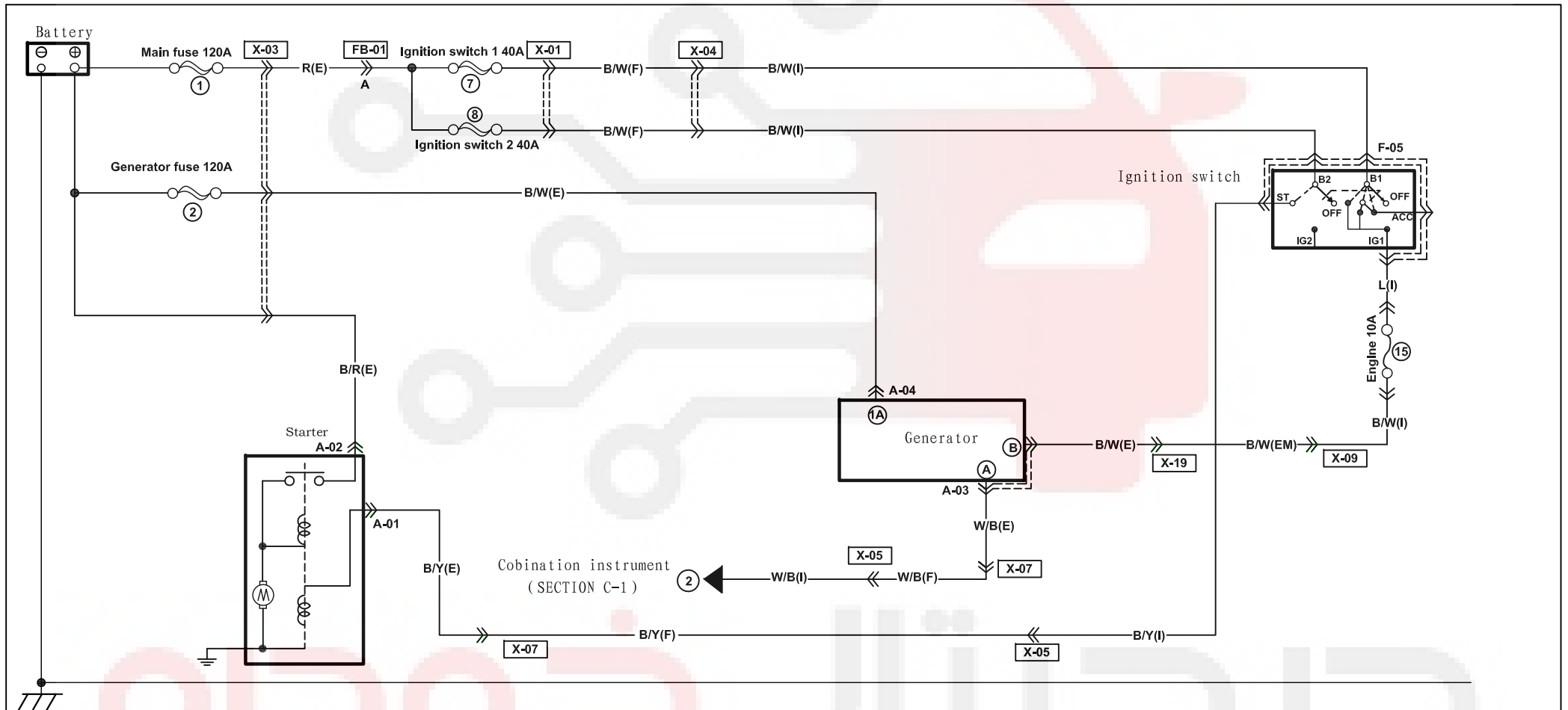


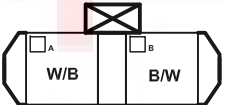
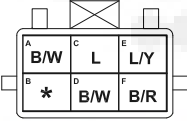


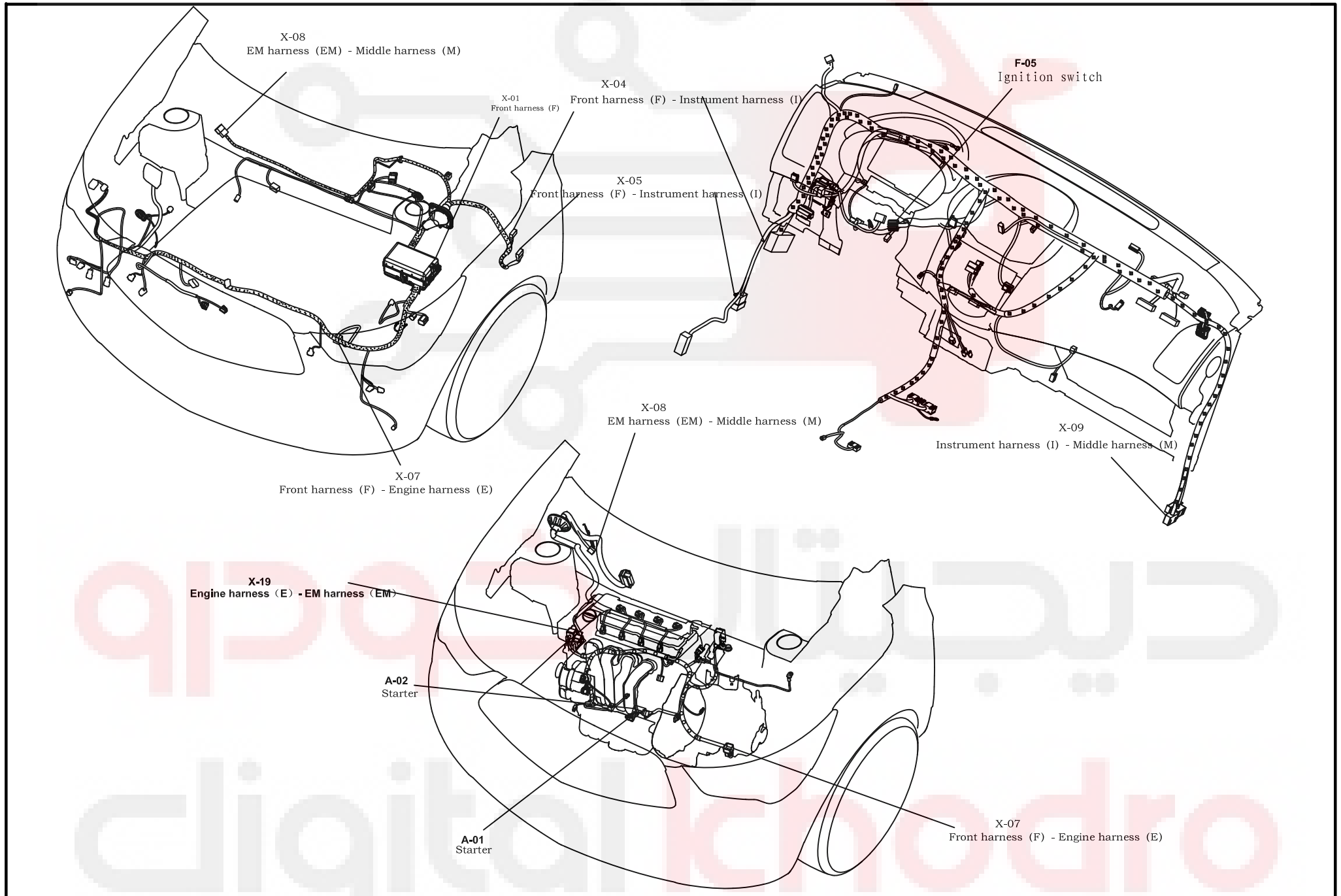
1 3 4 7 8 9	12 13 15 16 18 19					
2 5 6 10	11 14 17 20					

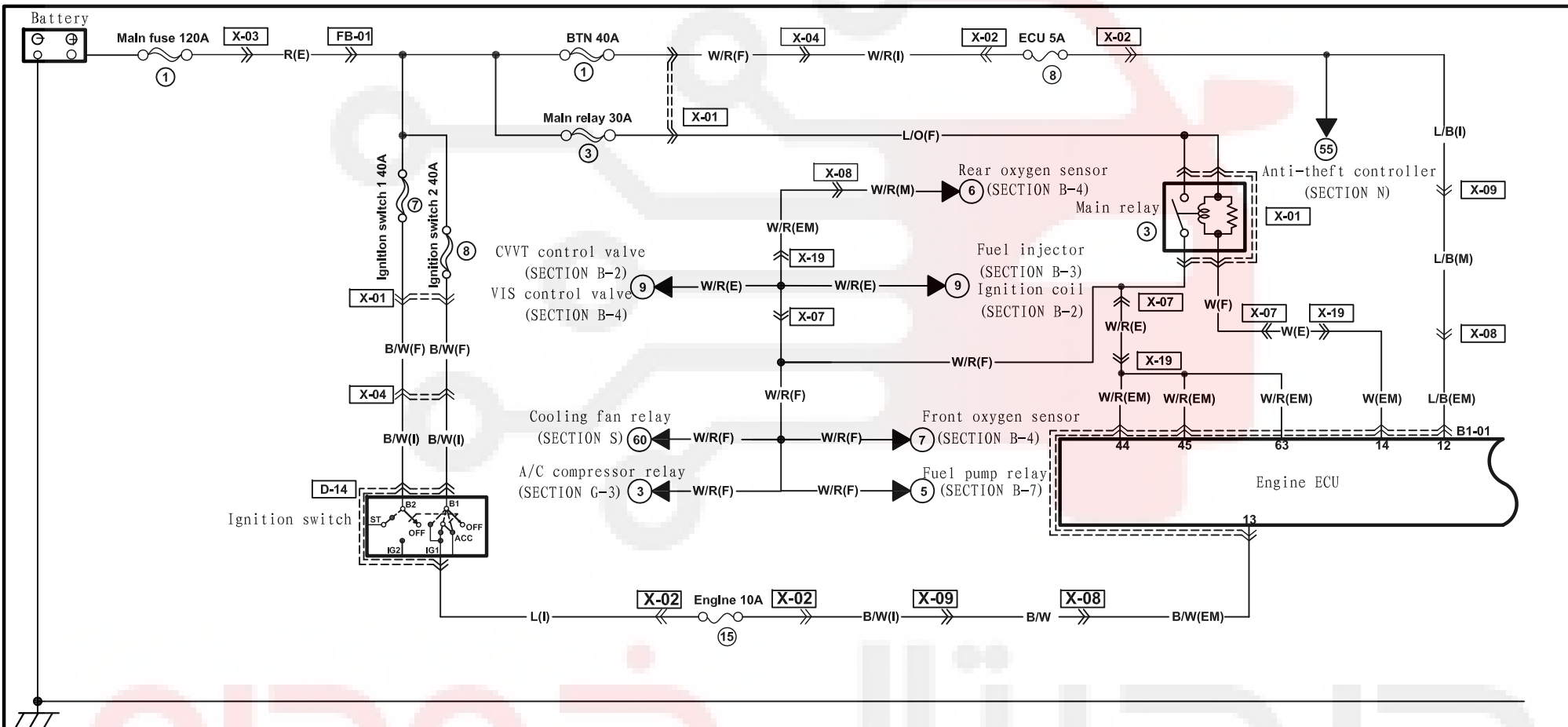






A-01 Starter excitation switch (E) 	A-02 Starter power-supply(E) 	A-03 Generator regulator (E) 	A-04 Generator input (E) 	A-05 Ignition switch (I) 		



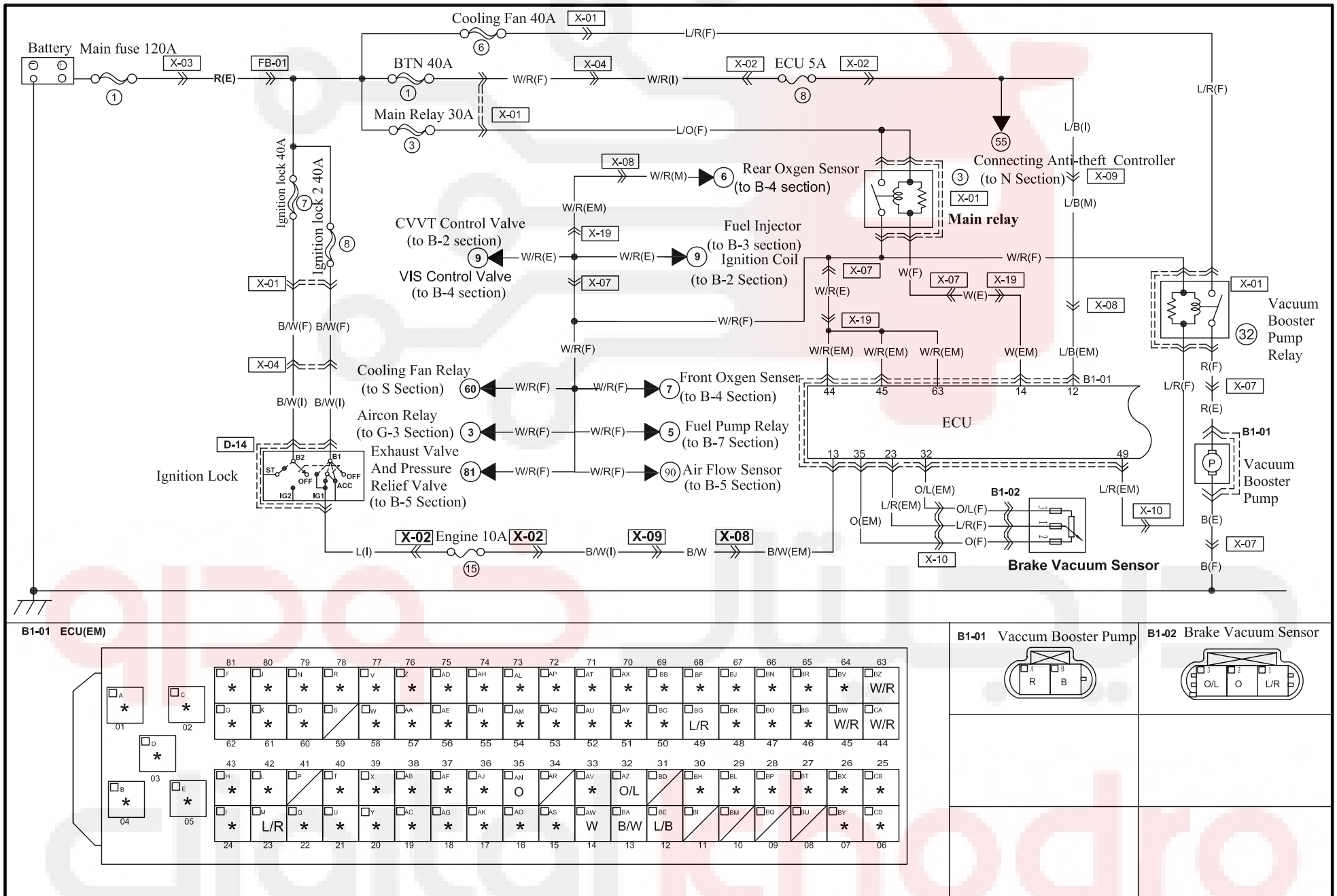


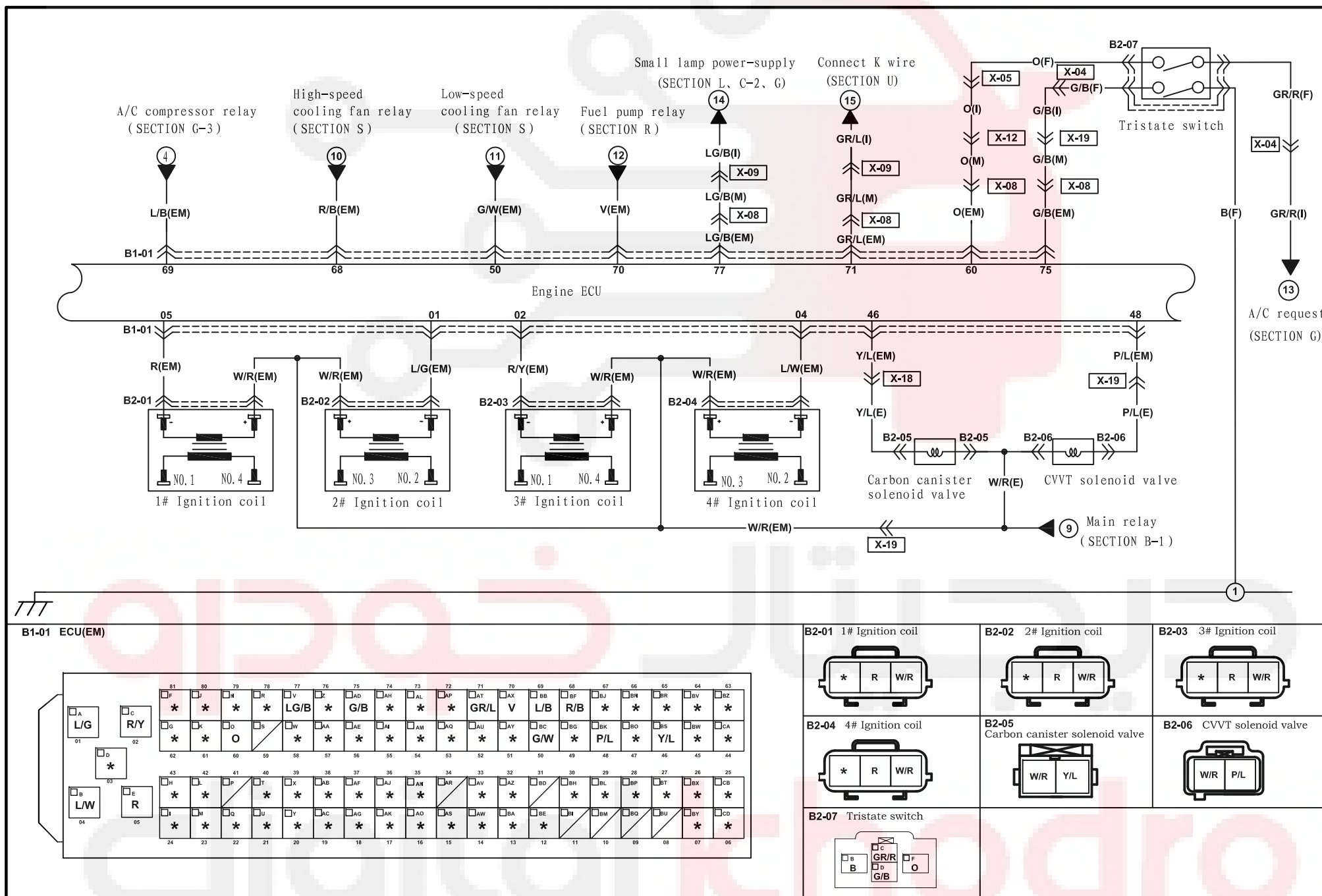
B1-01 Engine ECU (EM)

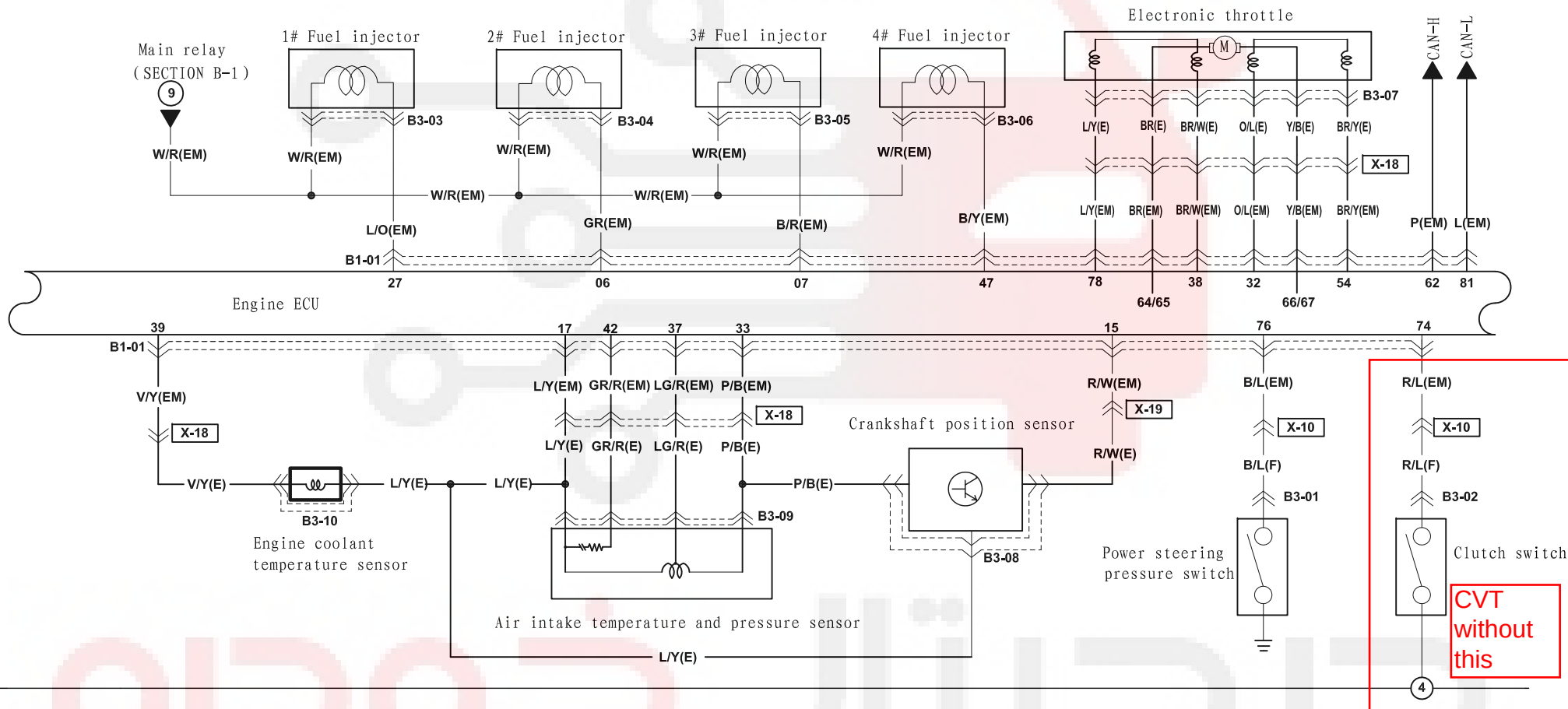
81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
F	J	N	R	V	Z	AD	AH	AL	AP	AT	AX	BB	BF	BJ	BN	BR	BV	BZ
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	W/R
G	K	O	S	W	AA	AE	AI	AM	AG	AU	AY	BC	BG	BK	BO	BS	CA	W/R
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	W/R
62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44
43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25
H	L	P	T	X	AB	AF	AJ	AN	AR	AV	AZ	BD	BH	BL	BP	BT	BX	CB
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25
H	L	P	T	X	AB	AF	AJ	AN	AR	AV	AZ	BD	BH	BL	BP	BT	BX	CB
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	09	08	07	06
M	O	U	Y	AC	AG	AK	AO	AS	AW	BA	BE	BI	BM	BQ	BU	BY	CD	
*	*	*	*	*	*	*	*	*	*	W	B/W	L/B				*	*	

Engine Management System

B-1

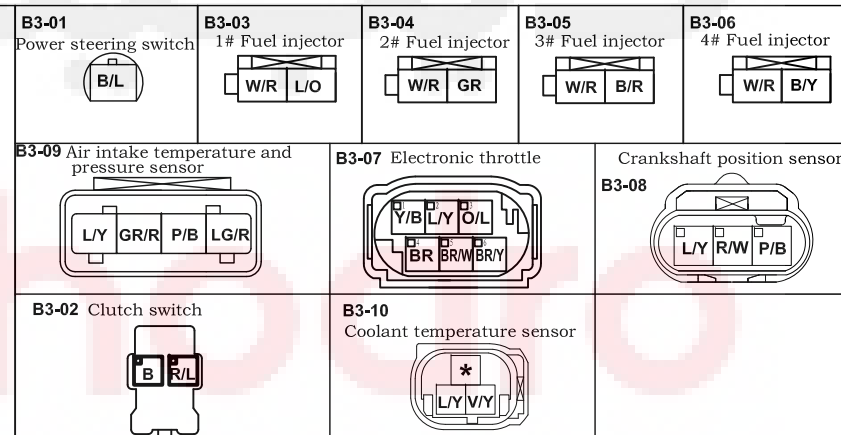


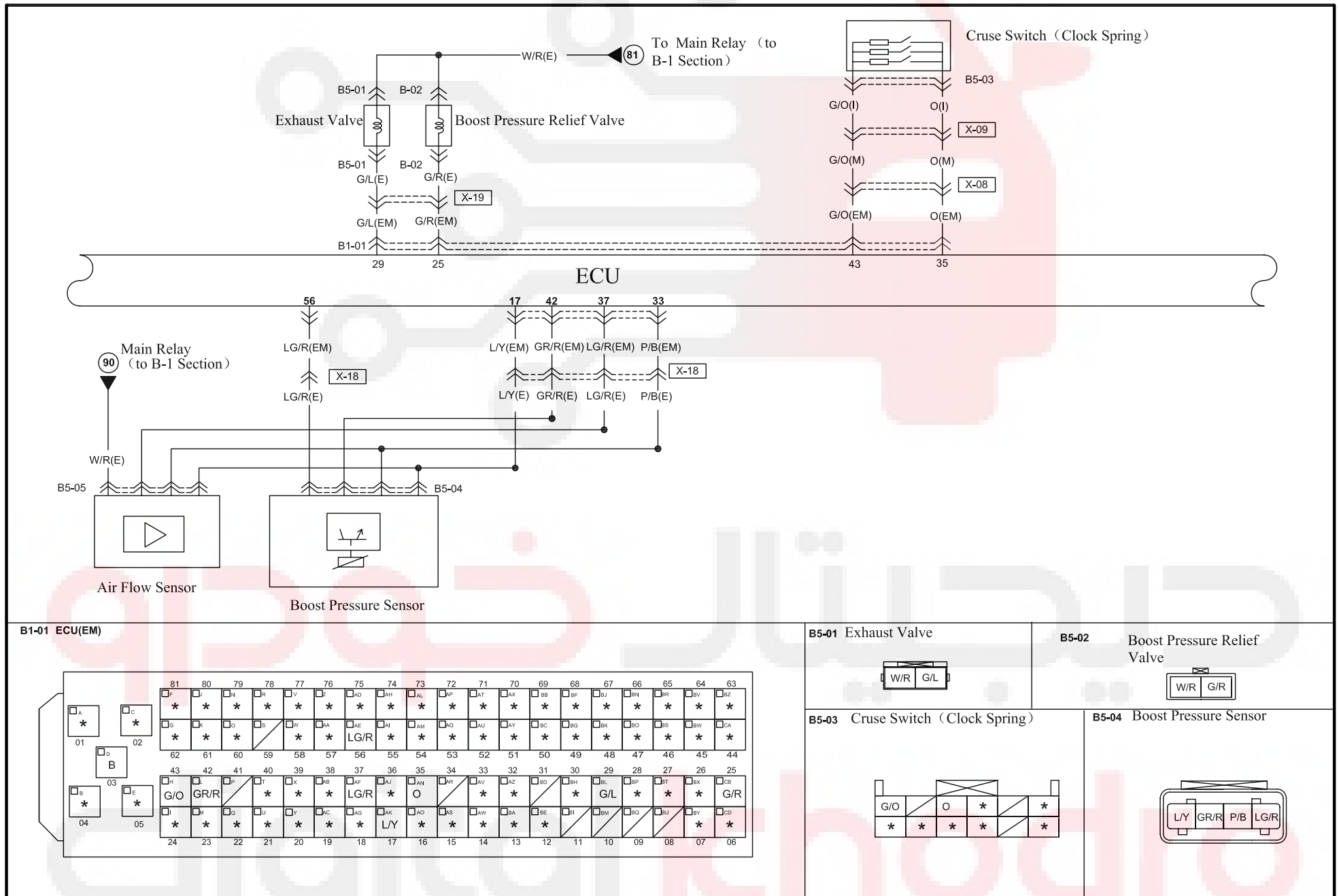


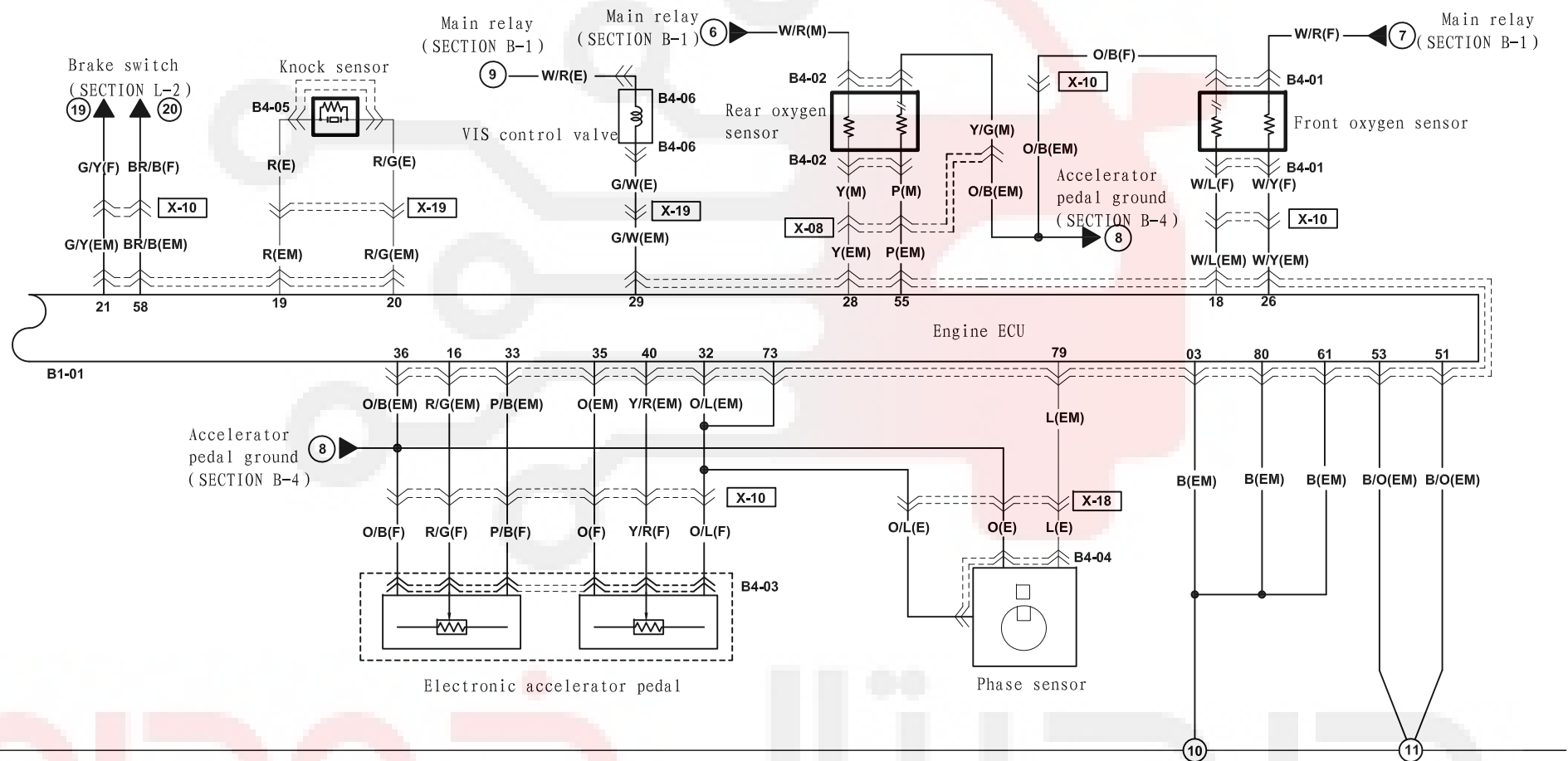


B1-01 ECU(EM)

81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
L	*	*	L/Y	*	B/L	*	R/L	*	*	*	*	*	*	O/L	O/L	BR	BR	*
G	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
P	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44
H	*	GR/R	*	T	*	V/Y	BR/W	LG/R	*	AN	*	AR	*	P/B	O/L	*	L/O	*
I	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
M	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	09	08	07	06
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*







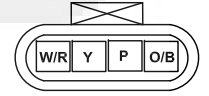
B1-01 ECU(EM)

81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
F	B	N	R	V	Z	AD	AH	AL	AP	AT	AX	BB	BF	BJ	BN	BR	BV	BZ
*	*	*	*	*	*	*	*	O/L	*	*	*	*	*	*	*	*	*	*
G	K	O	S	W	AA	AE	AI	AM	AU	AY	BC	BG	BK	BO	BS	BW	CA	
*	*	*	*	BR/B	*	*	P	*	B/O	*	B/O	*	*	*	*	*	*	*
43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25
H	*	*	P	T	X	AB	AF	AJ	AN	AR	AV	AZ	BD	BH	BL	BP	BT	CB
*	*	*	Y/R	*	*	*	O/B	O	P/B	O/L	*	*	*	Y	*	W/Y	*	
I	M	Q	U	Y	R	AC	AG	AK	AO	AS	AW	BA	BE	BI	BM	BQ	BU	CD
*	*	*	B/W	R/G	R	W/L	*	R/G	*	*	*	*	*	*	*	*	*	*
24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	09	08	07	06

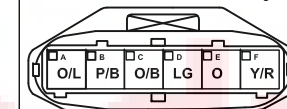
B4-01 Front oxygen sensor



B4-02 Rear oxygen sensor



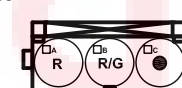
B4-03 Electronic accelerator pedal



B4-04 Phase sensor

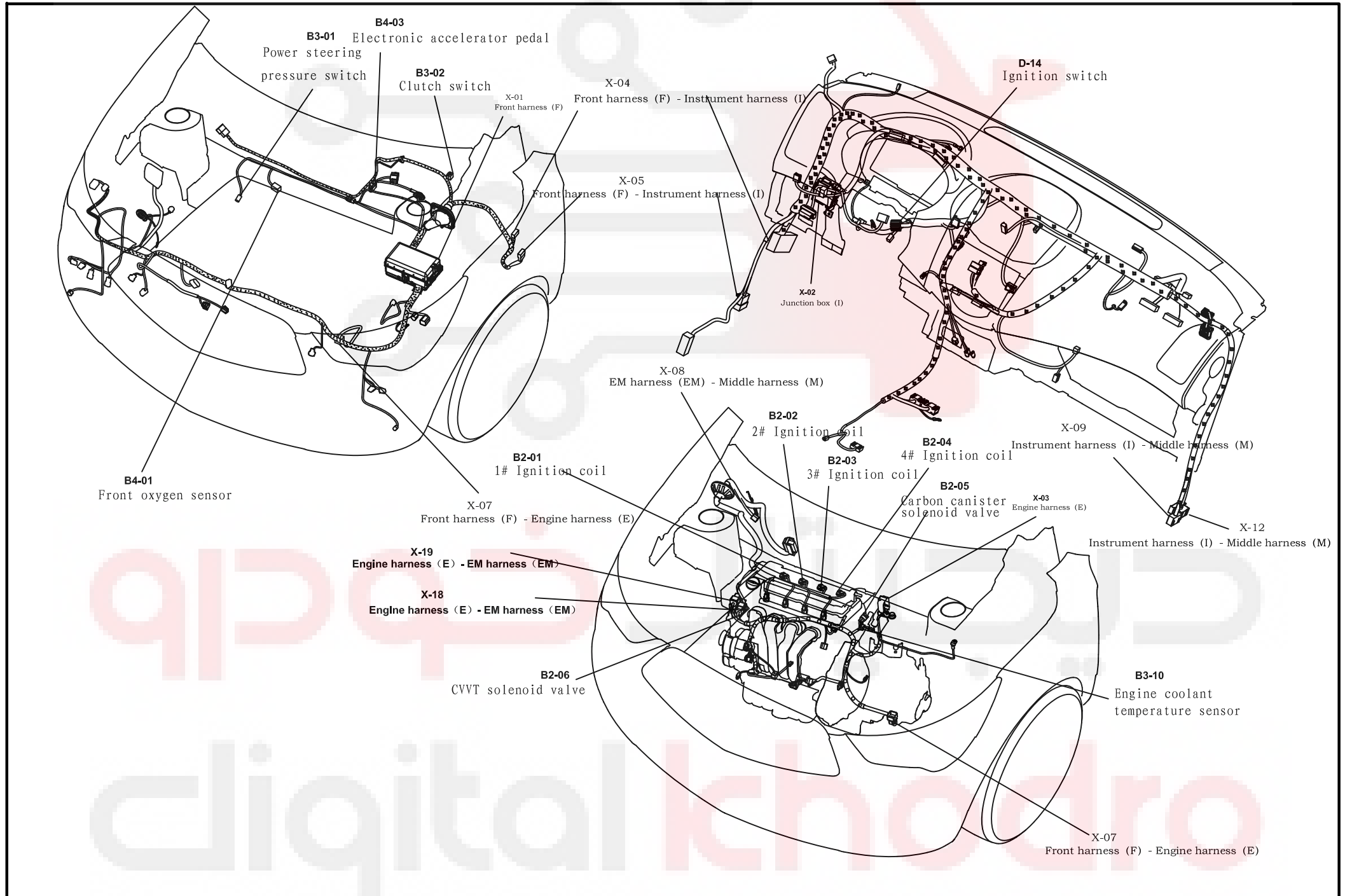


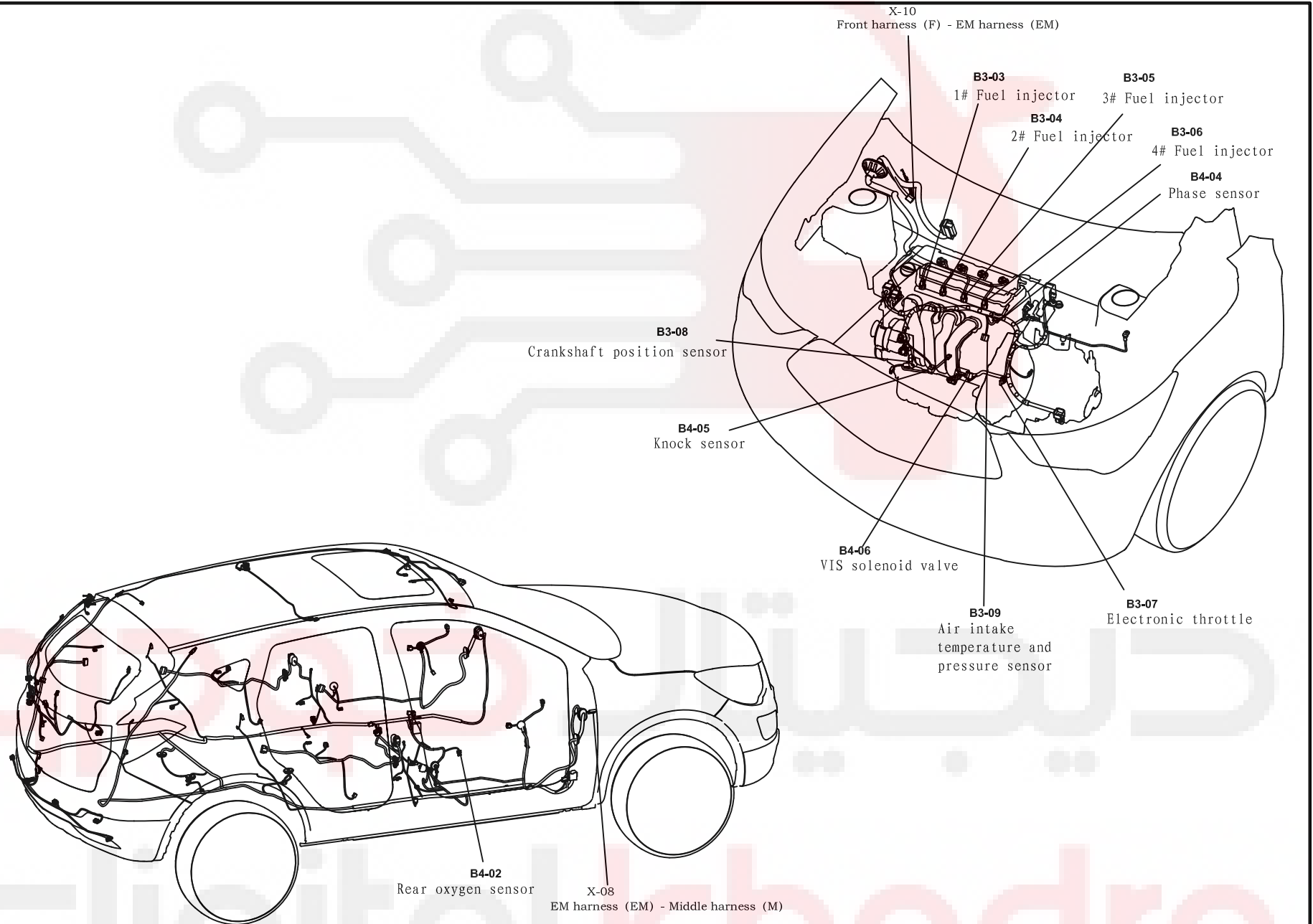
B4-05 Knock sensor

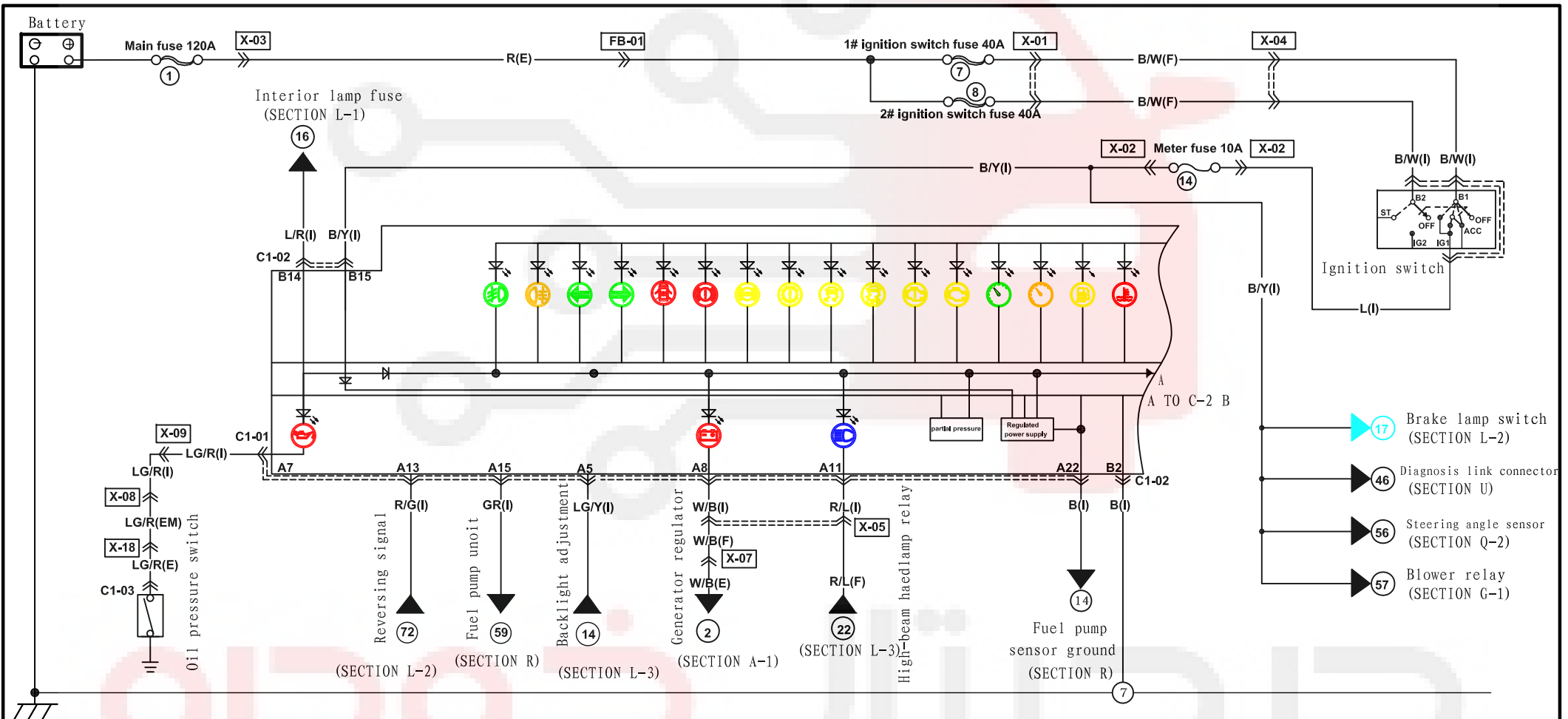


B4-06 VIS solenoid valve

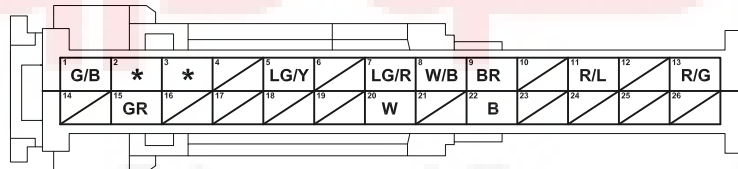




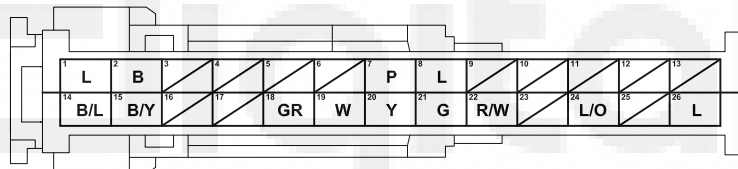




C1-01 Combination instrument 1 Yellow

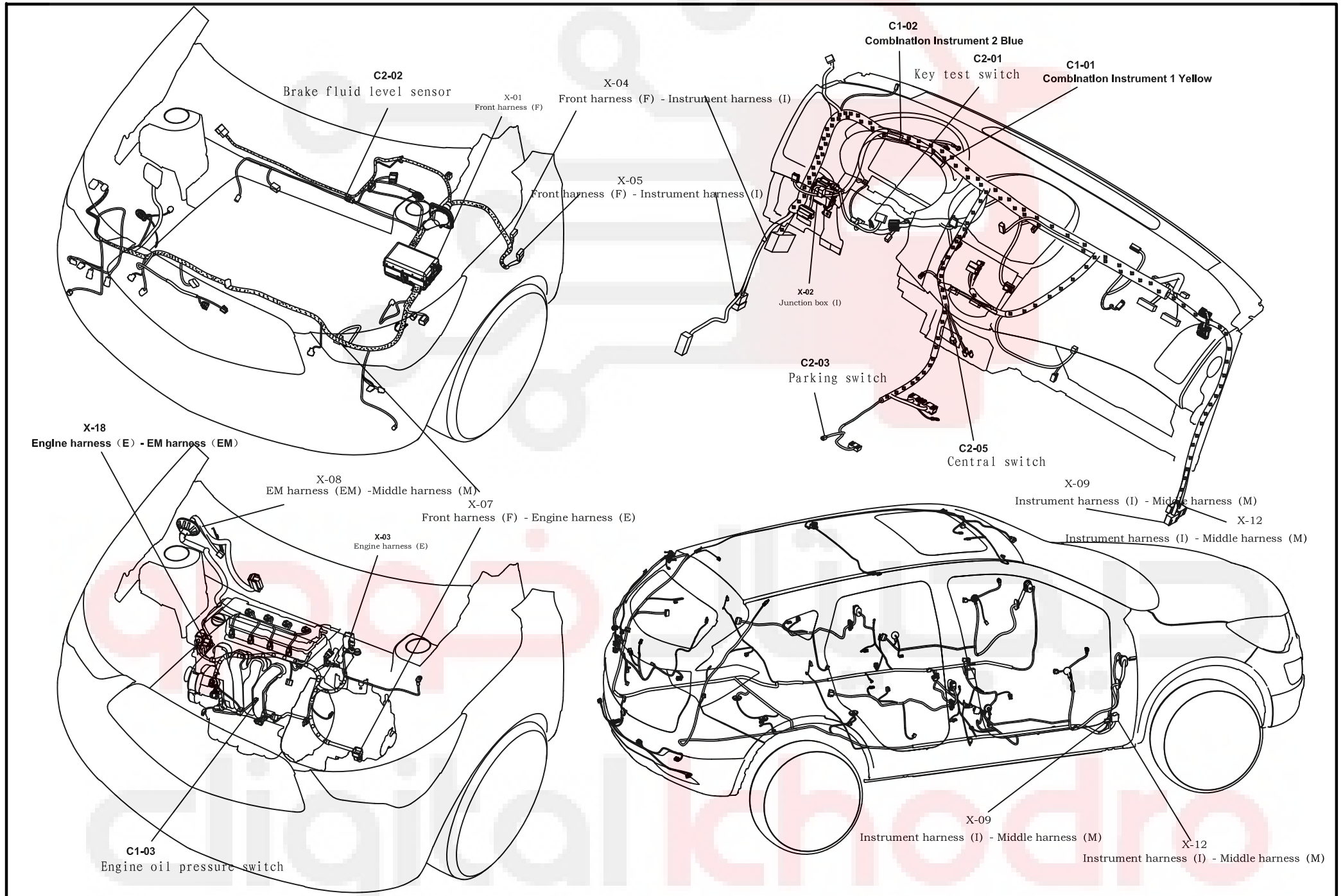


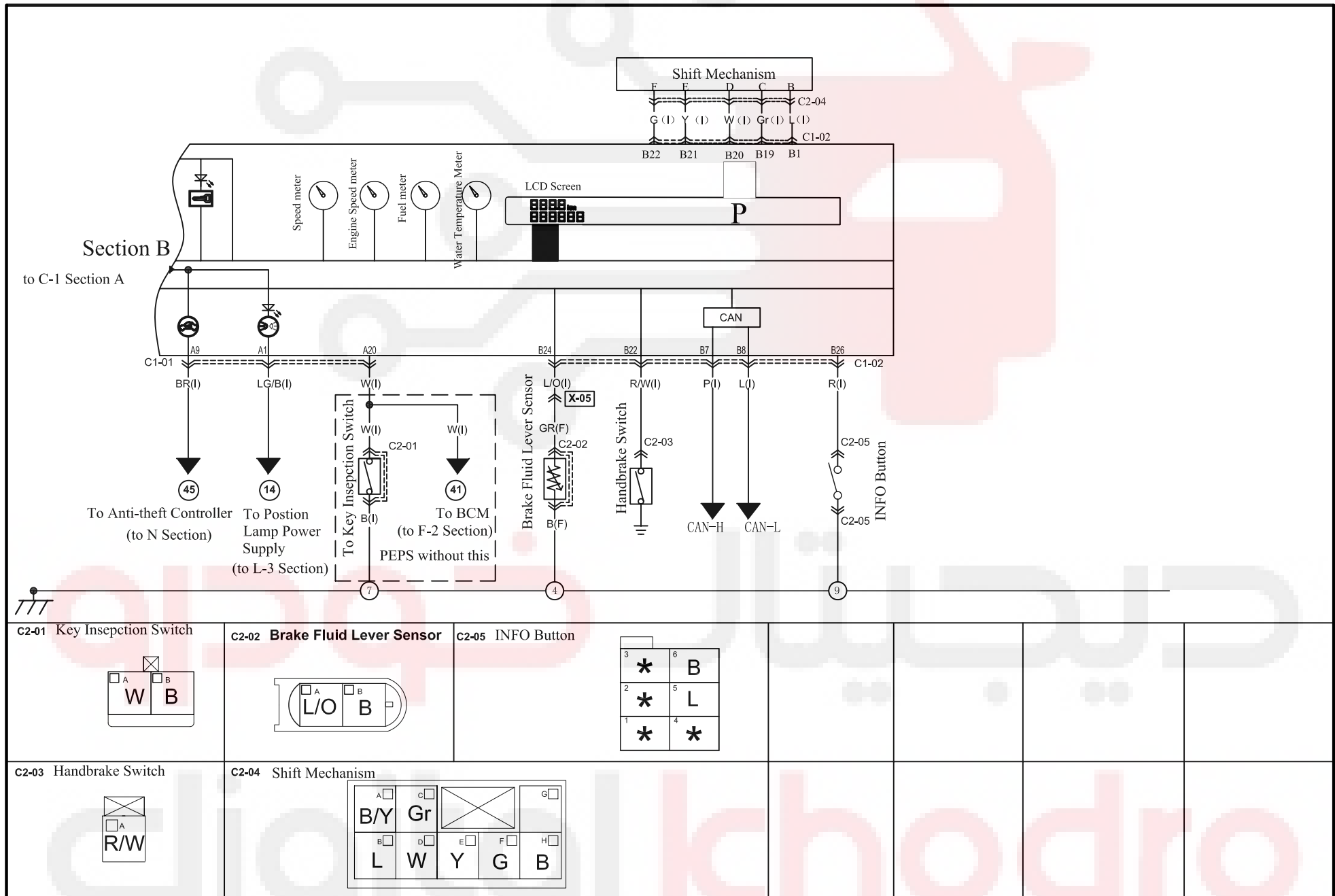
C1-02 Combination instrument 2 Blue

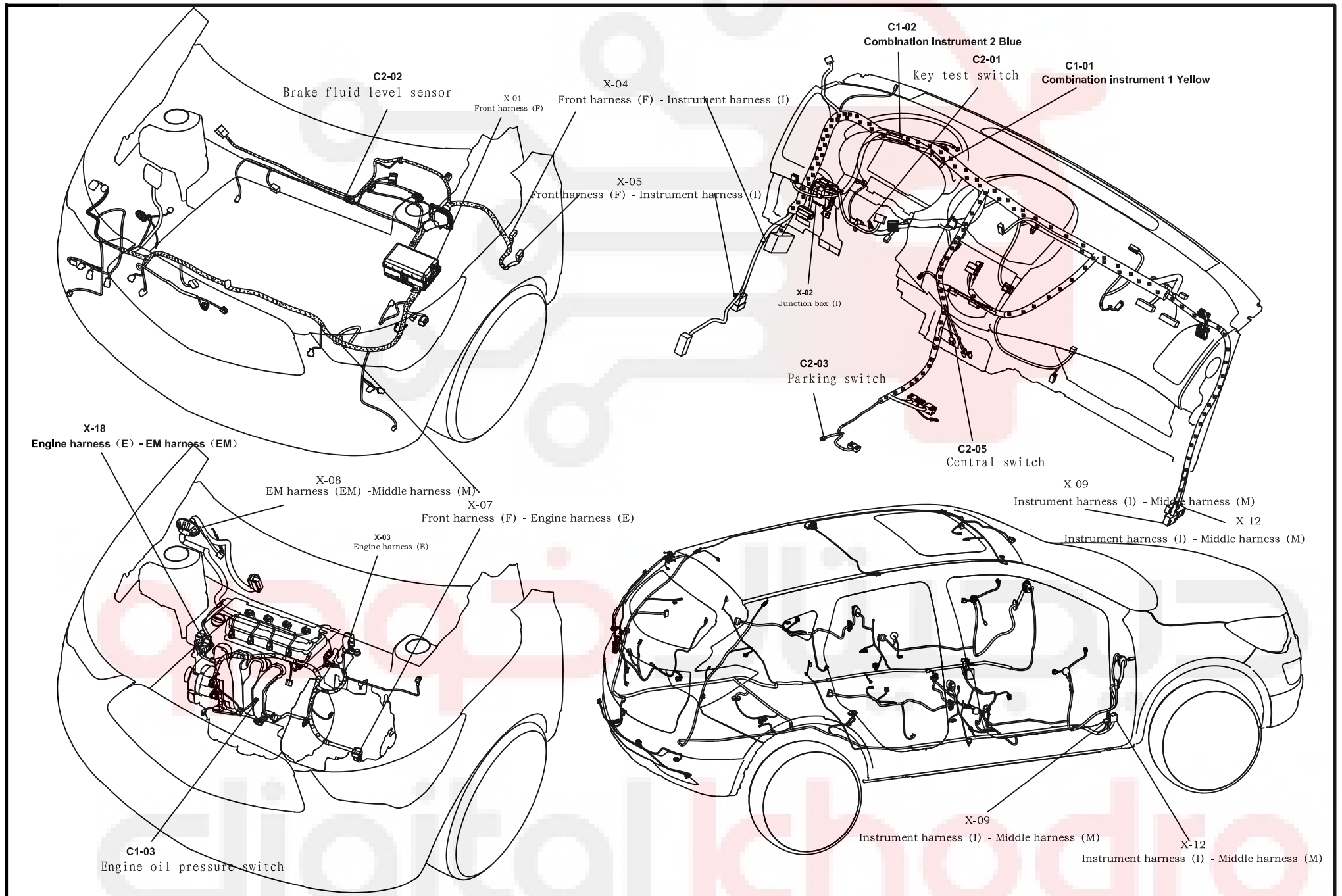


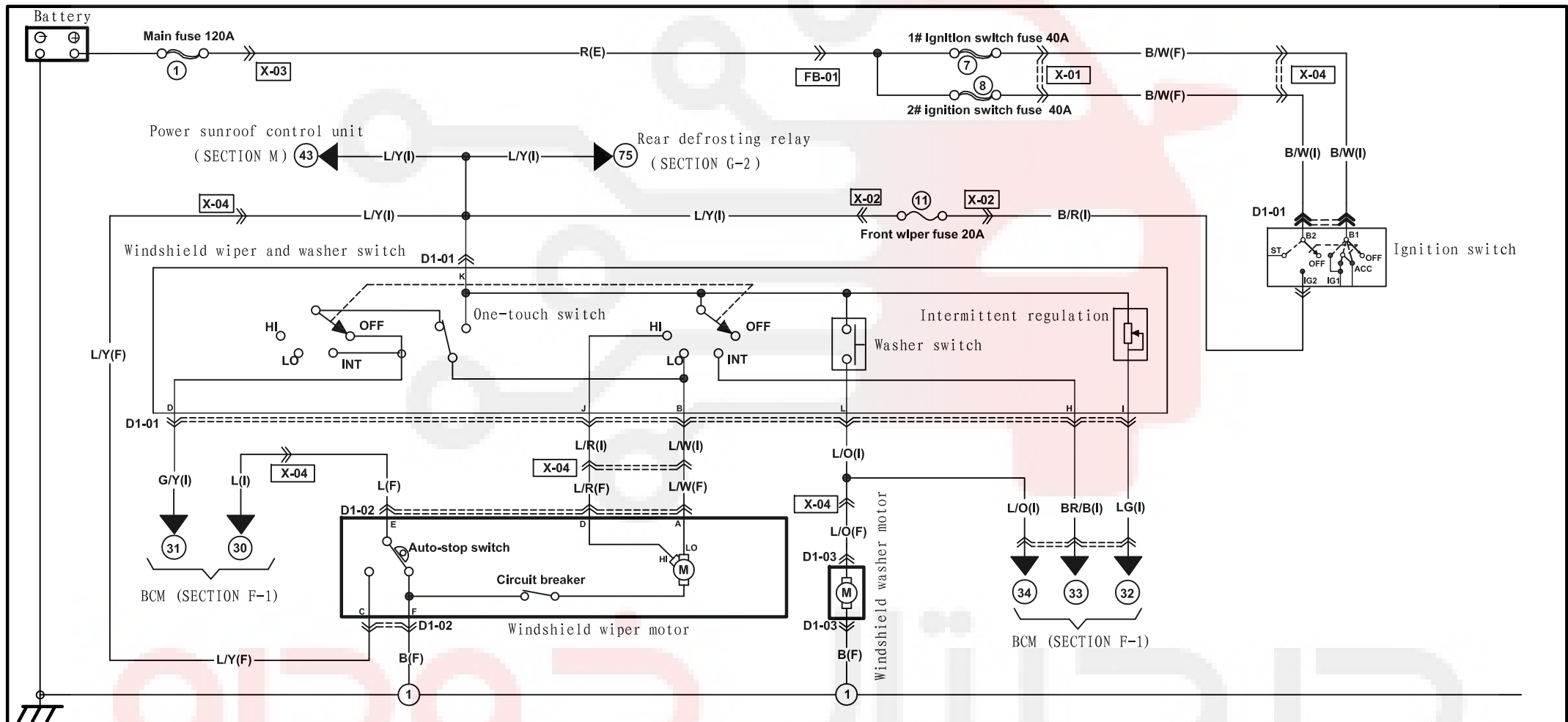
C1-03 Oil pressure switch



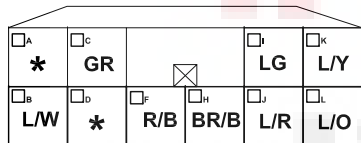




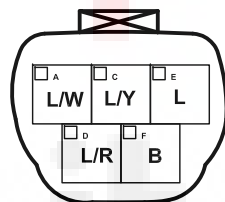




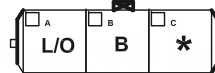
D1-01 Windshield wiper and washer switch (I)

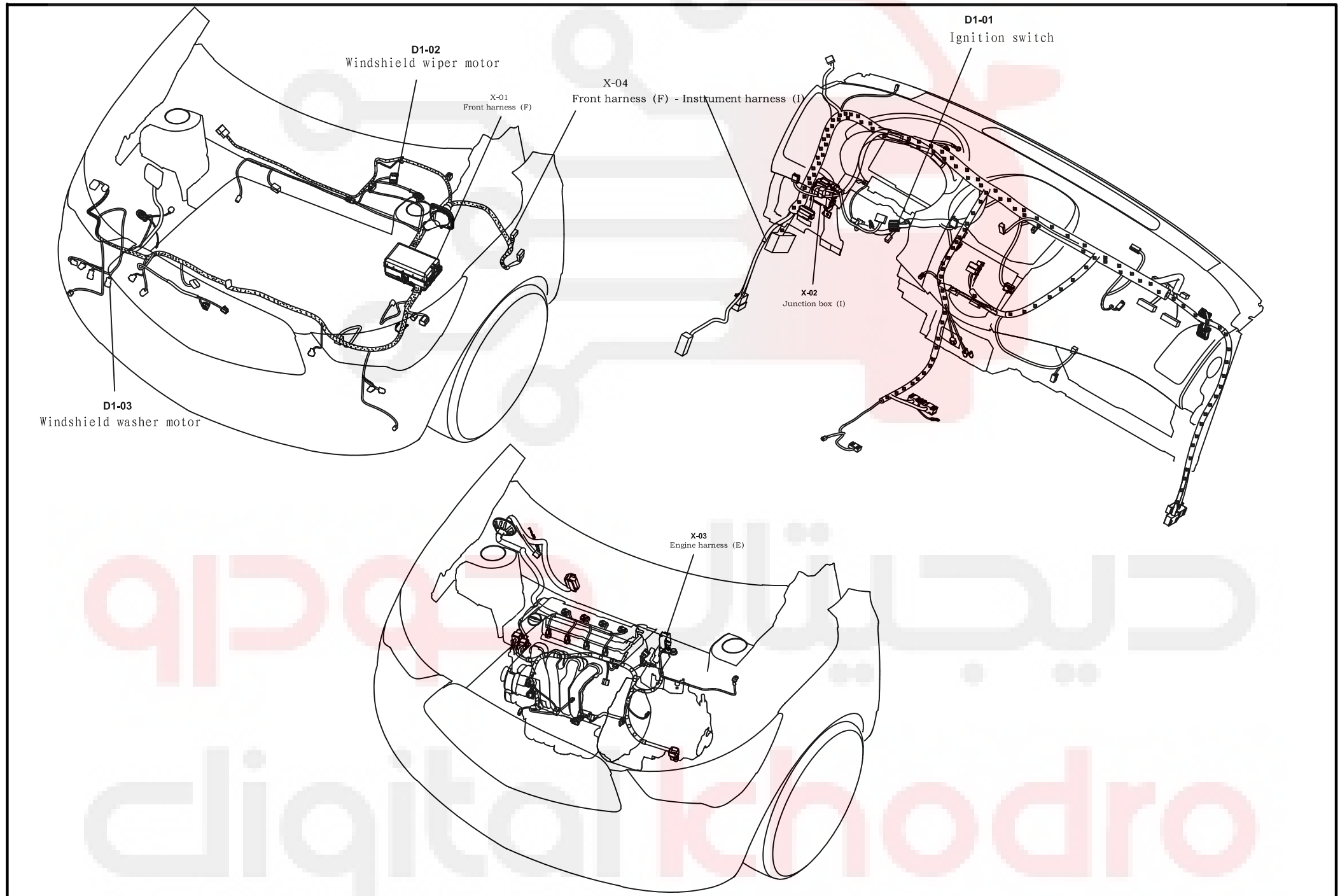


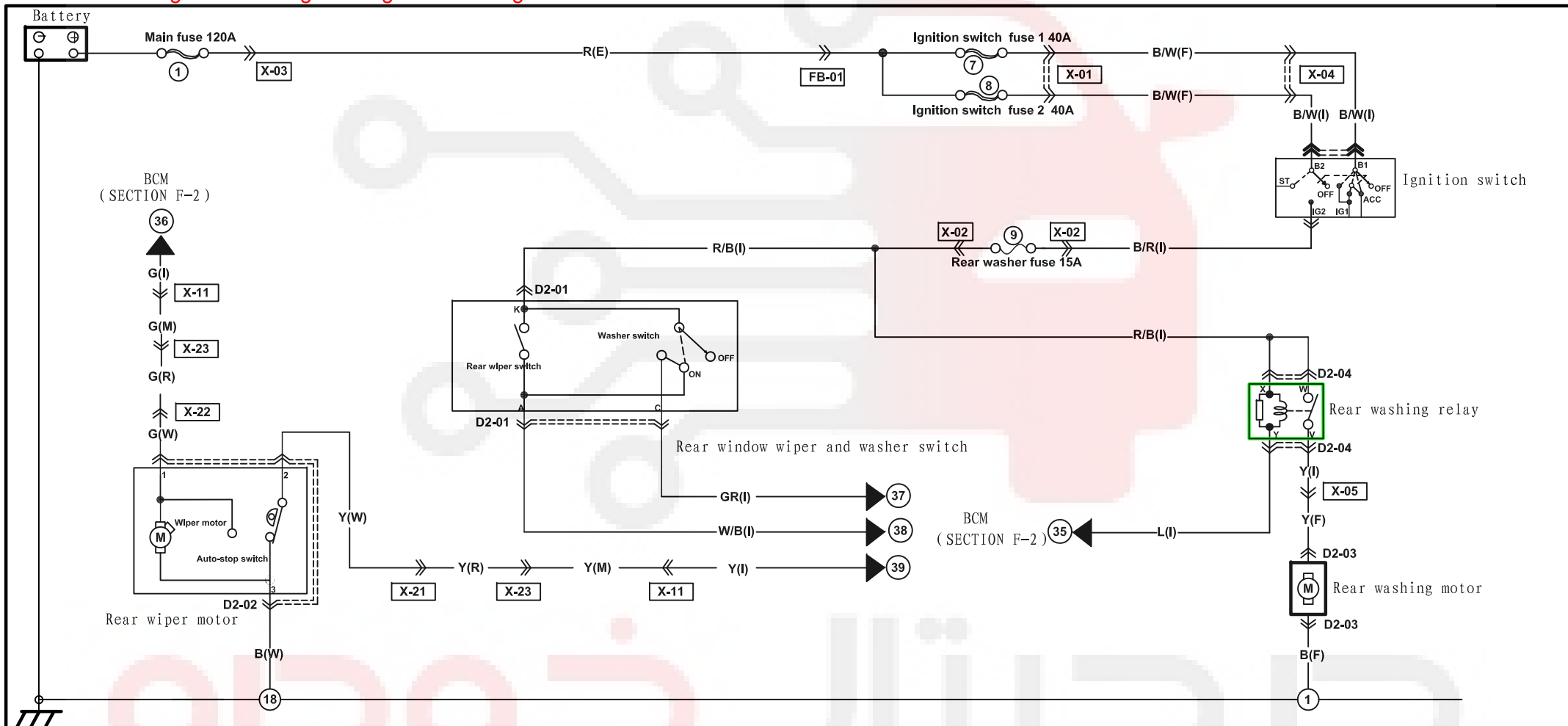
D1-02 Windshield wiper motor (F)



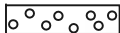
D1-03 Windshield washer motor (F)

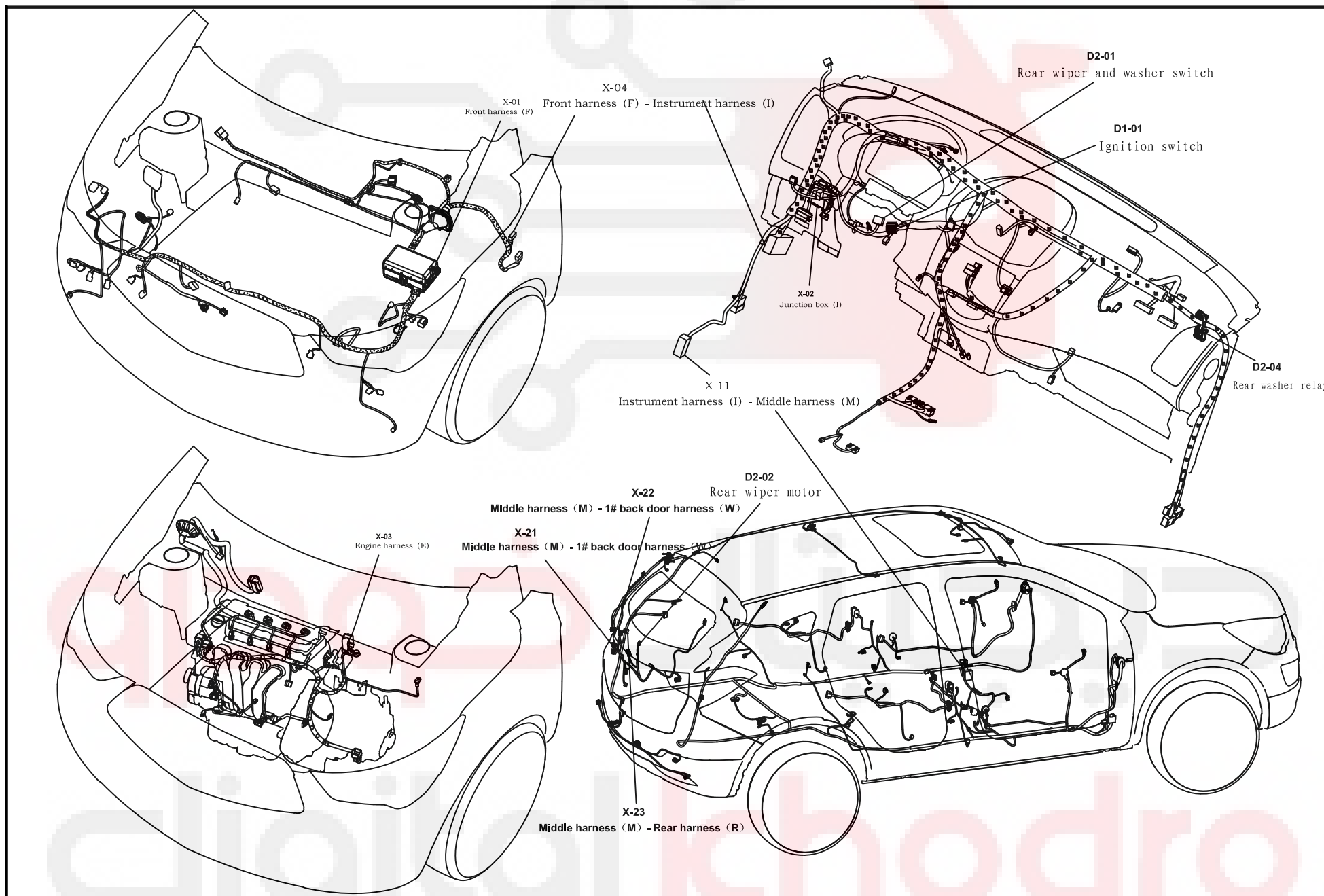


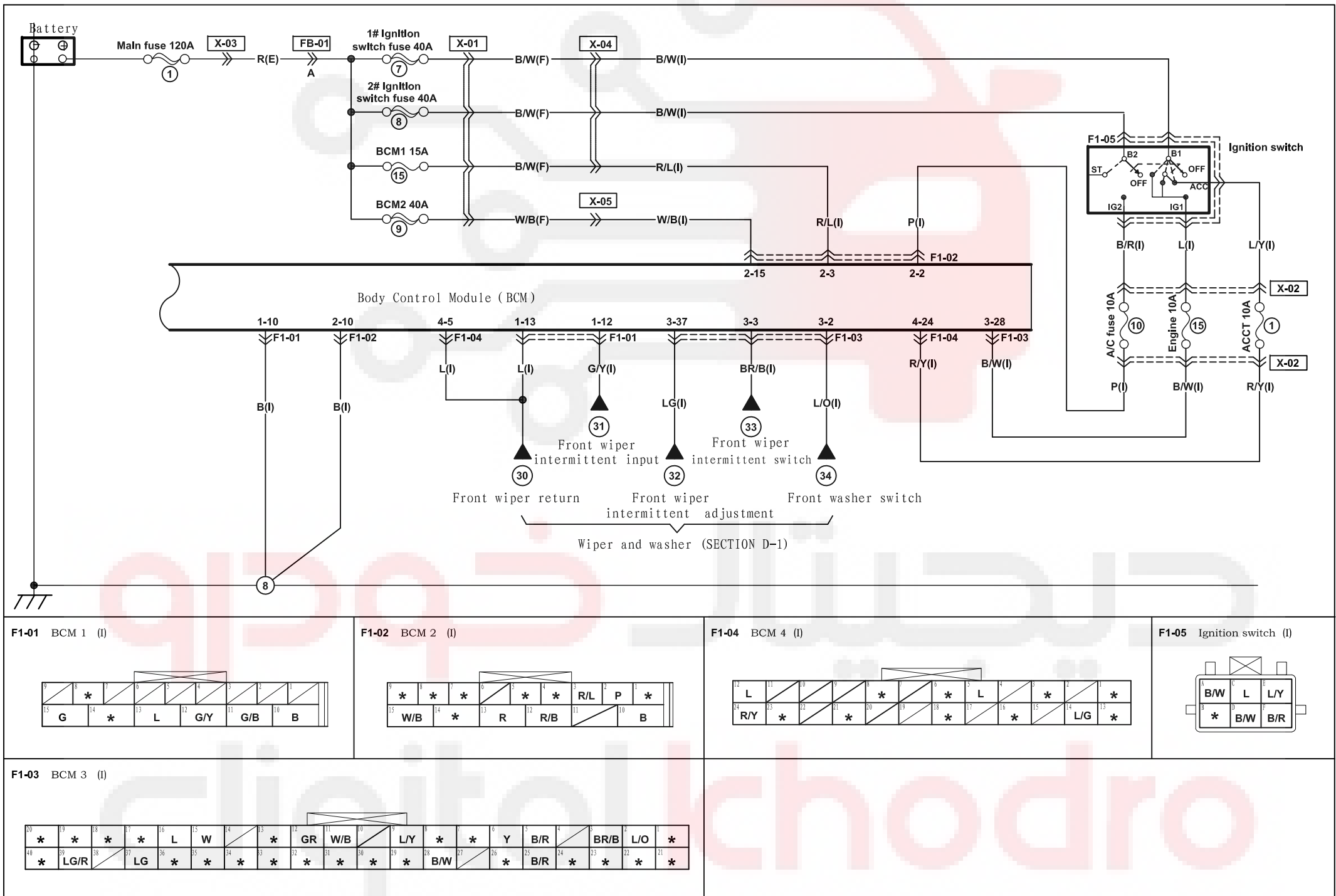


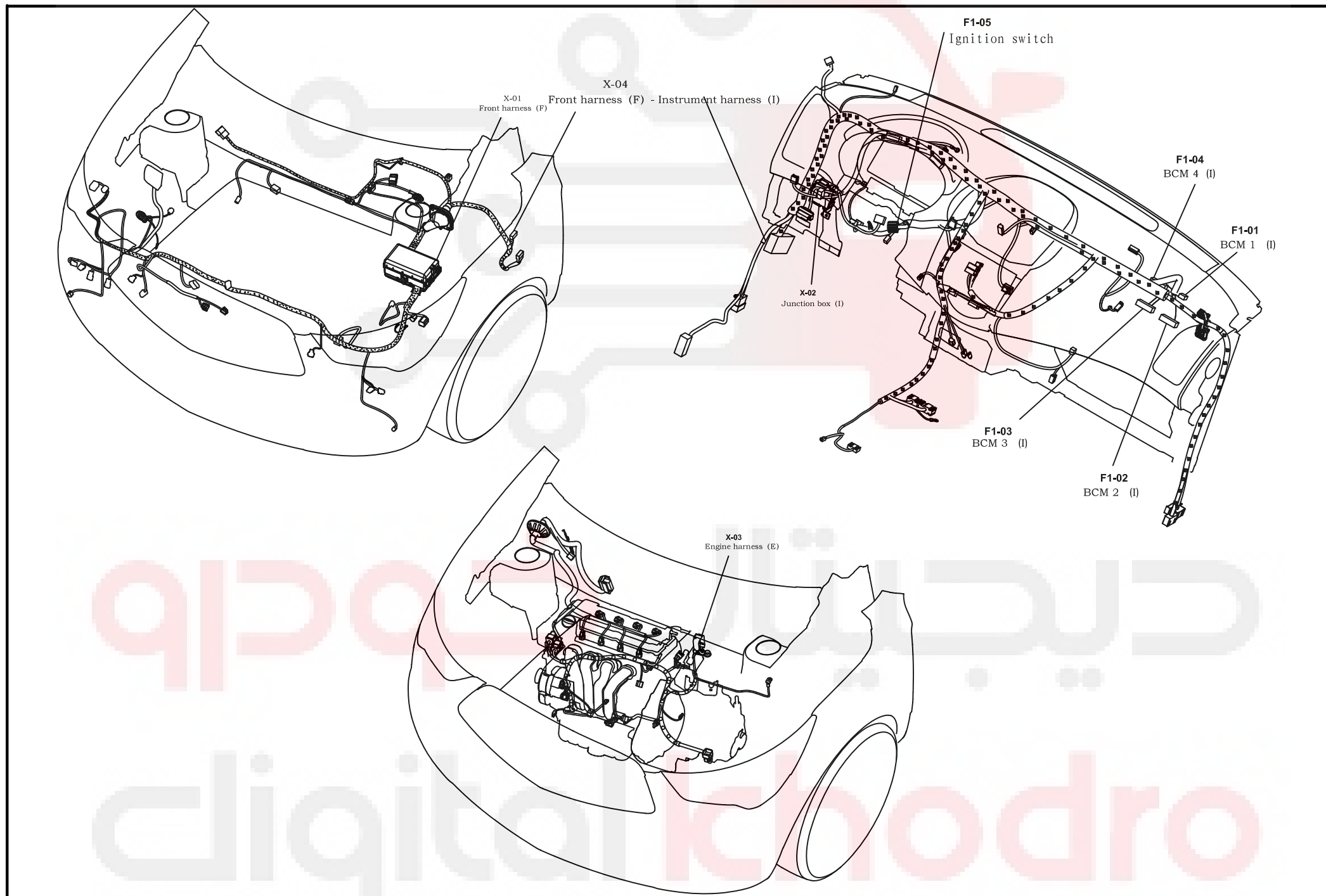


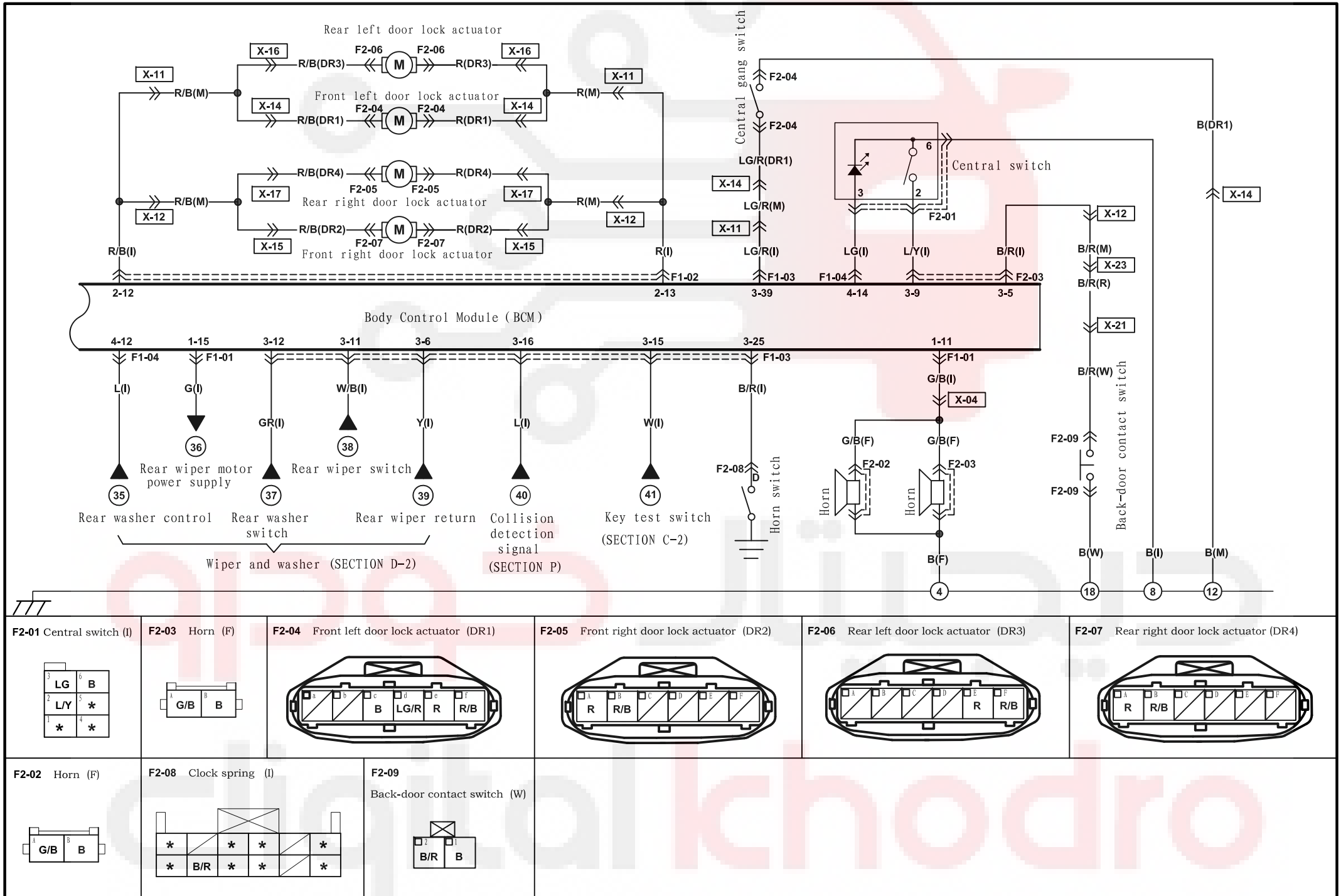
D2-01 Rear window wiper and washer switch (I)	D2-02 Rear wiper motor (W)	D2-03 Rear washing motor (F)	D2-04 Rear washing relay(I)
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Harness mark :  F  I  E

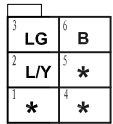




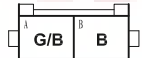




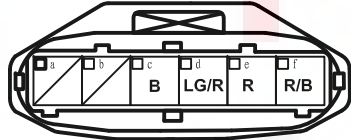
F2-01 Central switch (I)



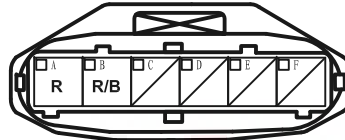
F2-03 Horn (F)



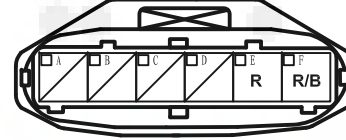
F2-04 Front left door lock actuator (DR1)



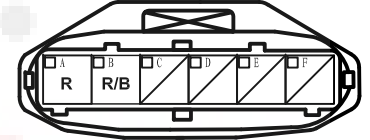
F2-05 Front right door lock actuator (DR2)



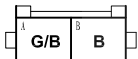
F2-06 Rear left door lock actuator (DR3)



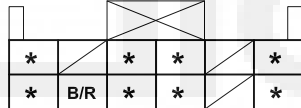
F2-07 Rear right door lock actuator (DR4)



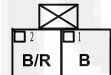
F2-02 Horn (F)

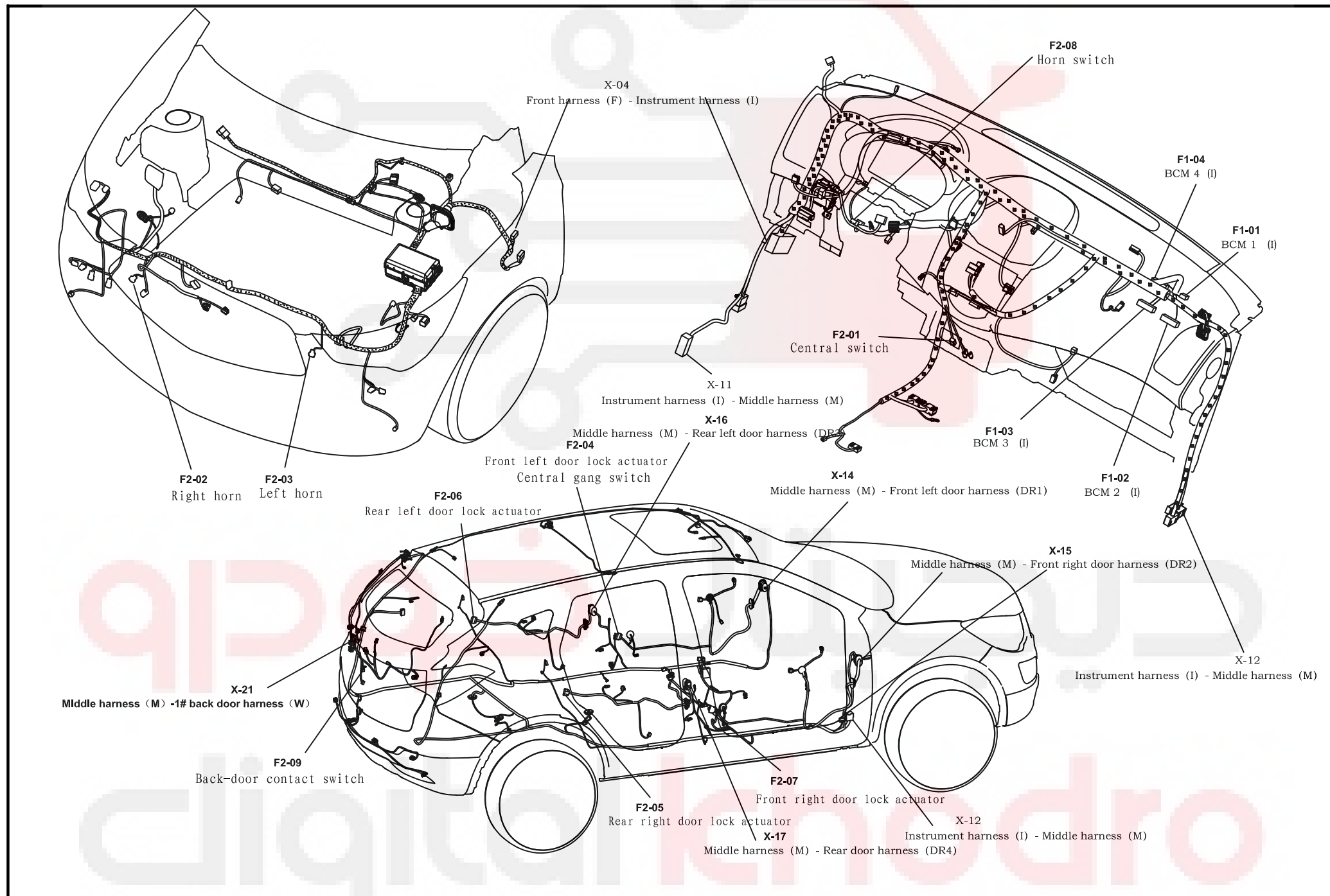


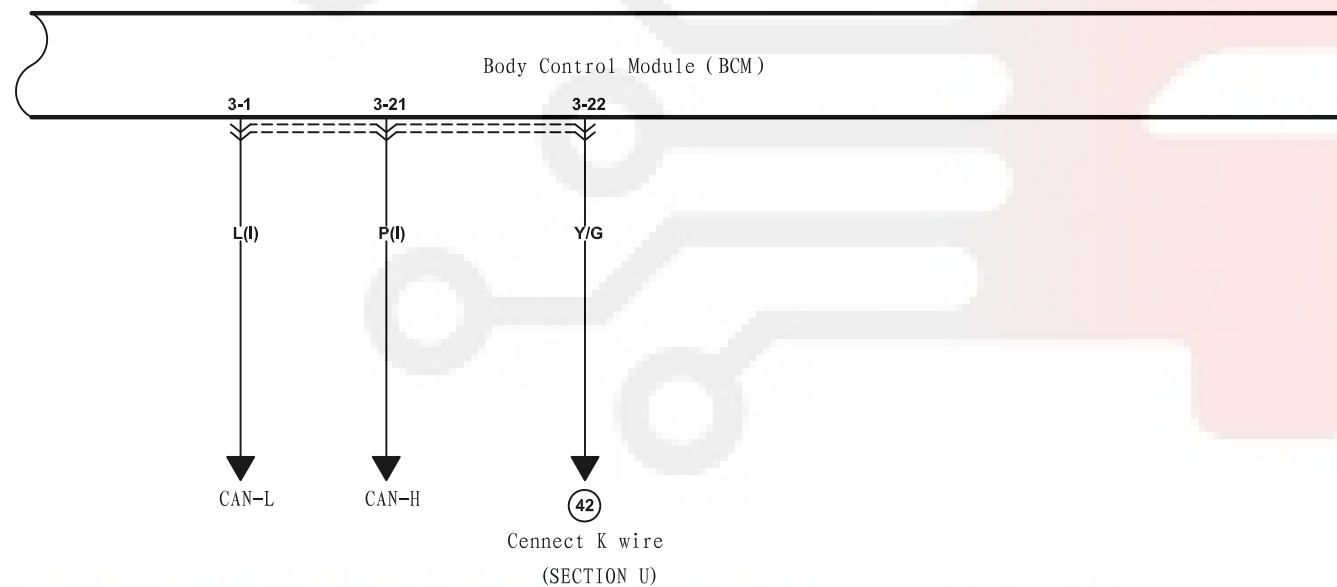
F2-08 Clock spring (I)



F2-09
Back-door contact switch (W)

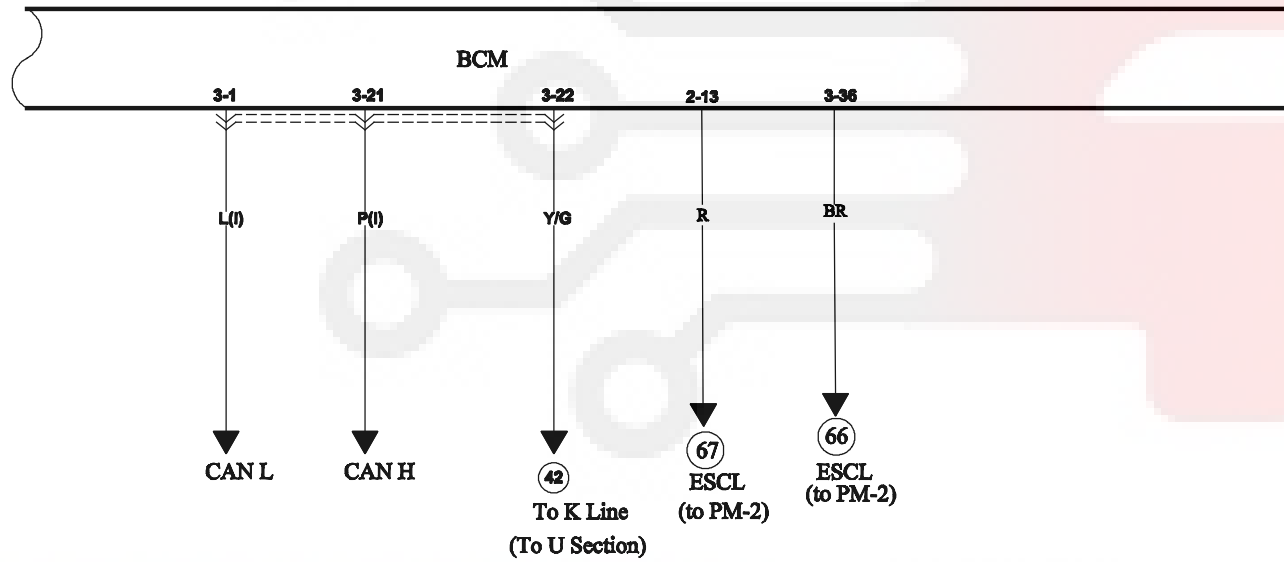






F3-03 BCM 3 (I)

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	L	
40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	
*	*		*	L/G	*	*	*	*	*	*	*	*		*	*	*	*	Y/G	P	

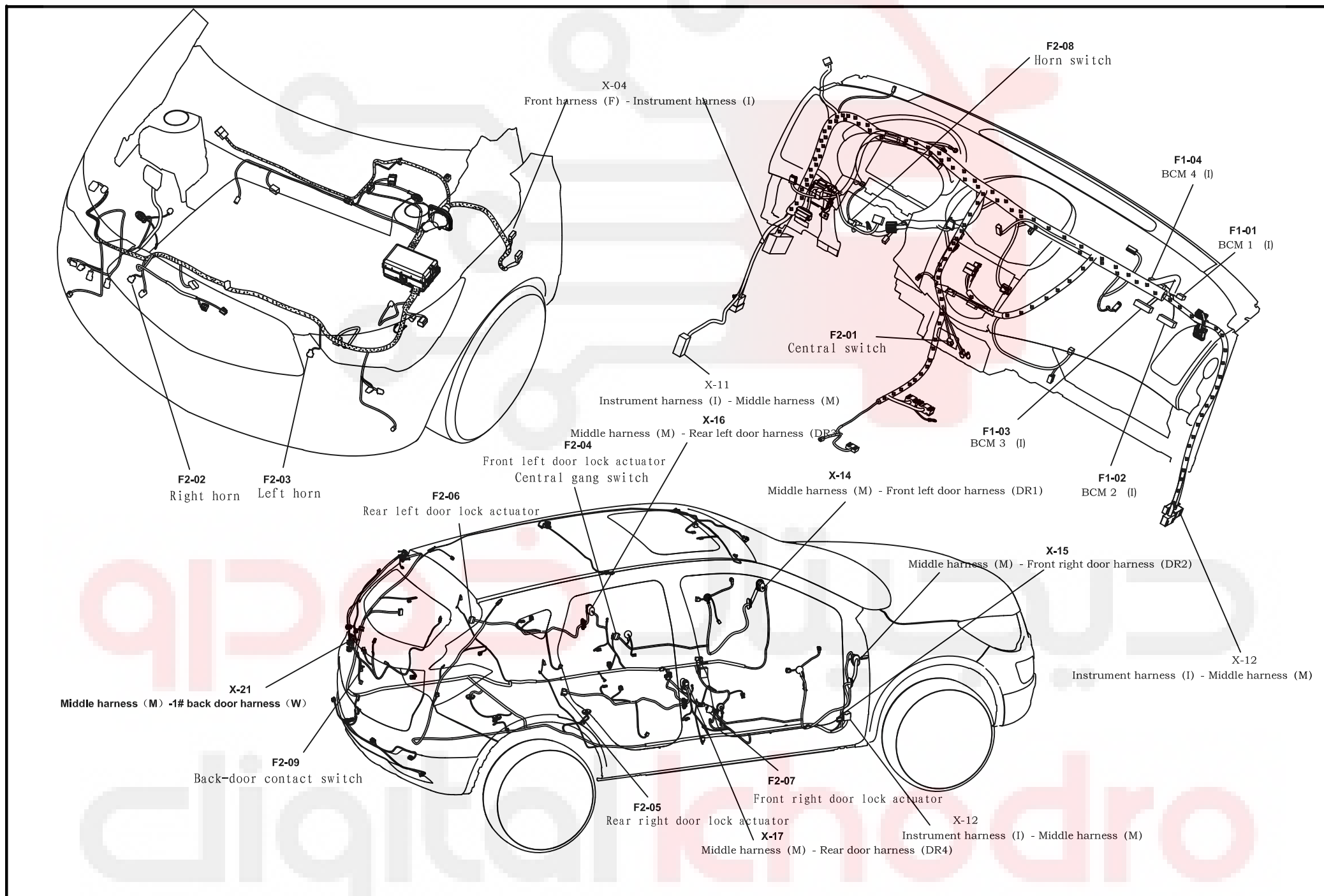


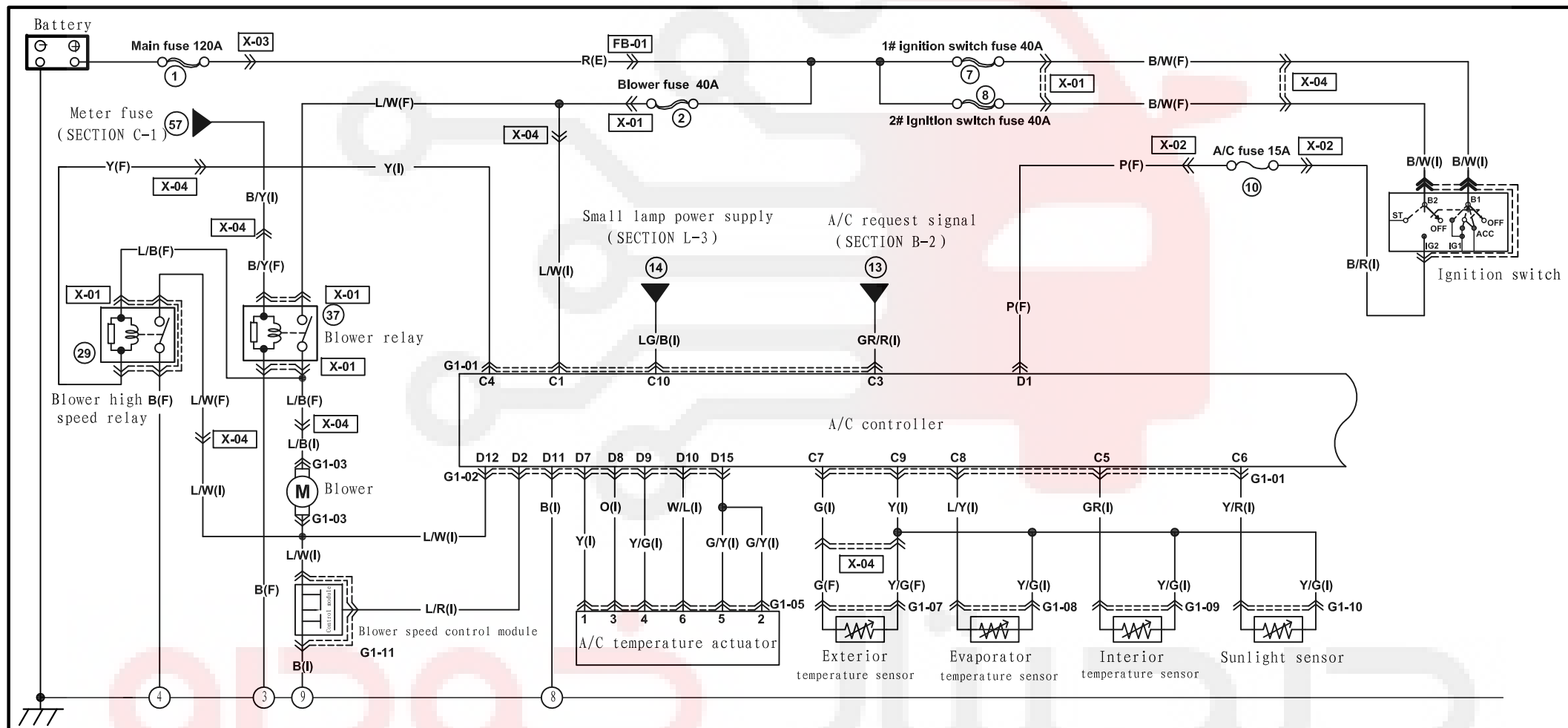
F3-01 BCM 2 (I)

9	8	7	6	5	4	3	2	1	
*	*	*		*	*	R/L	P	*	
15	14	13	12	11	10	9	8	7	6
W/B	*	R	R/B						B

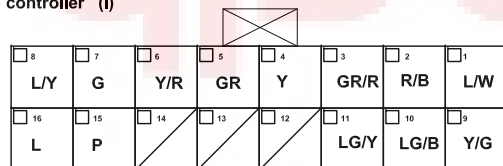
F3-02 BCM 3 (I)

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	L
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	Y/G
*	*	*	*	BR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	P

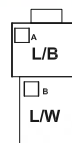




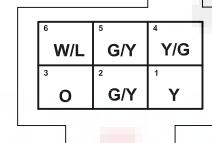
G1-01 A/C controller (I)



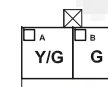
G1-03 Blower (I)



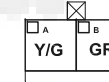
G1-05 A/C temperature actuator (I)



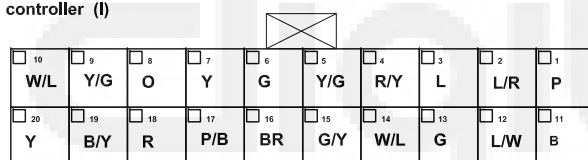
G1-07 Exterior temperature sensor (F)



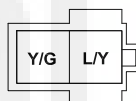
G1-09 Interior temperature sensor (I)



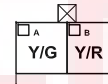
G1-02 A/C controller (I)



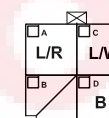
G1-08 Evaporator temperature sensor (I)

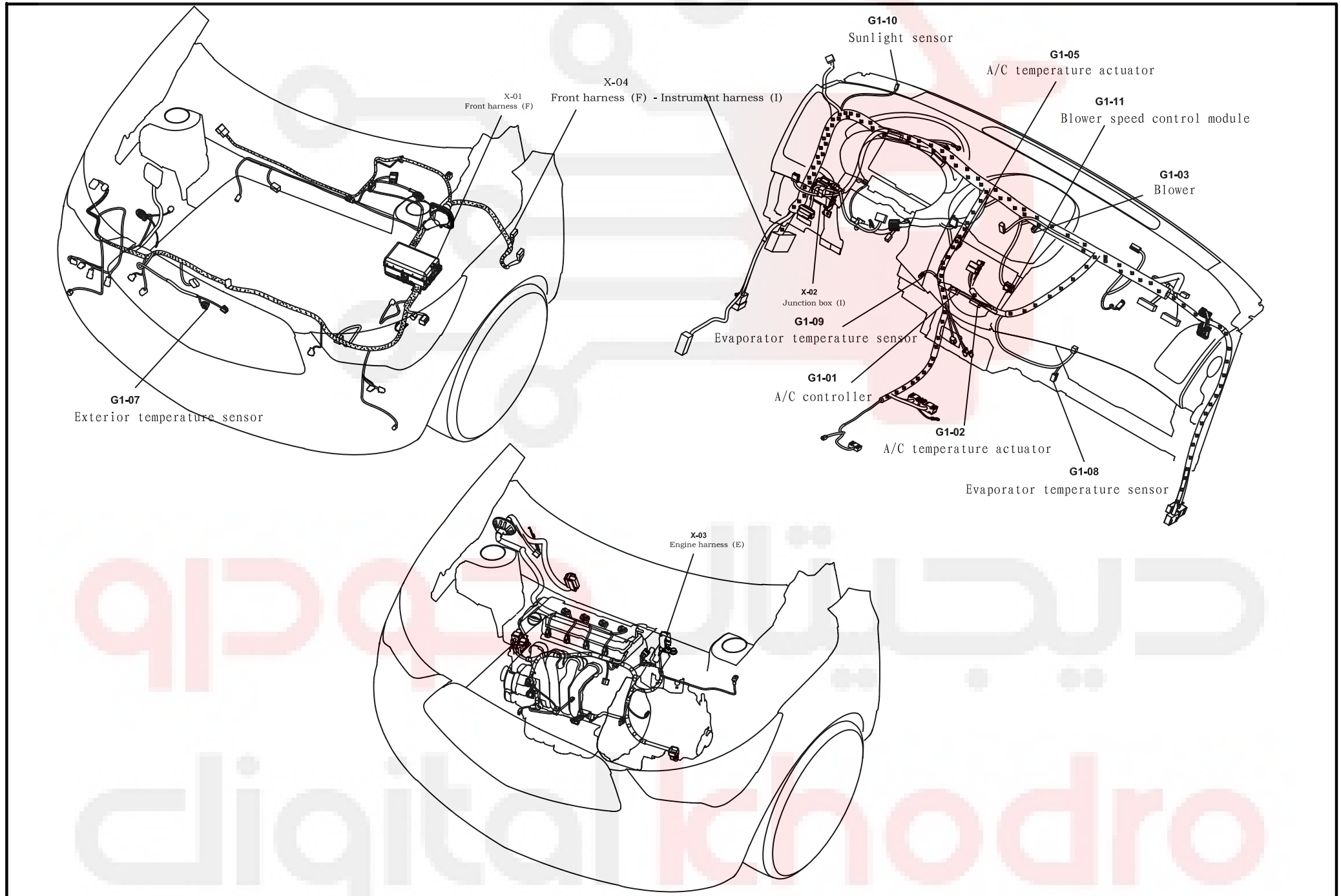


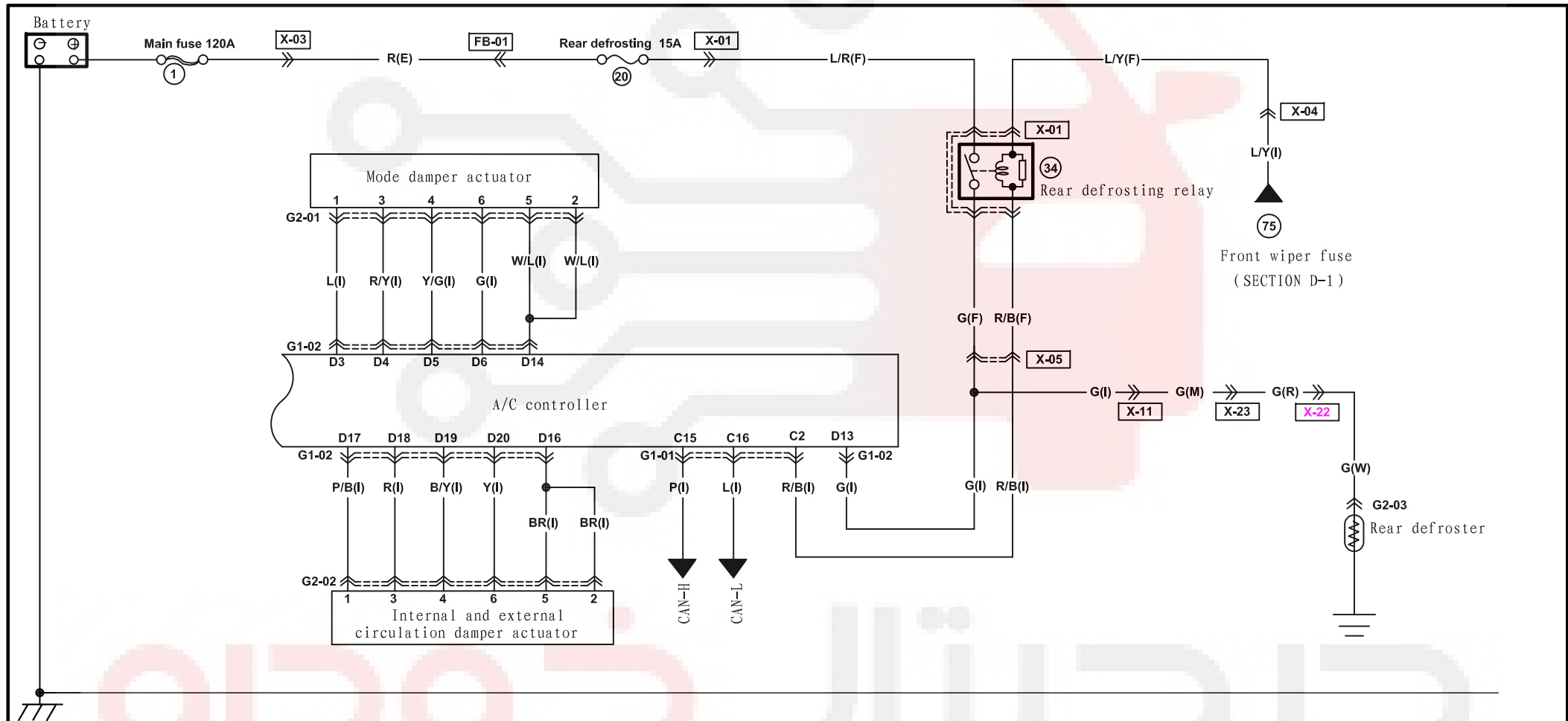
G1-10 Sunlight sensor (I)



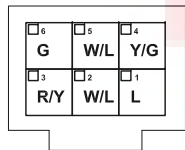
G1-11 Blower speed control module (I)



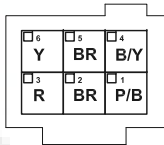




G2-01 Mode damper actuator (I)

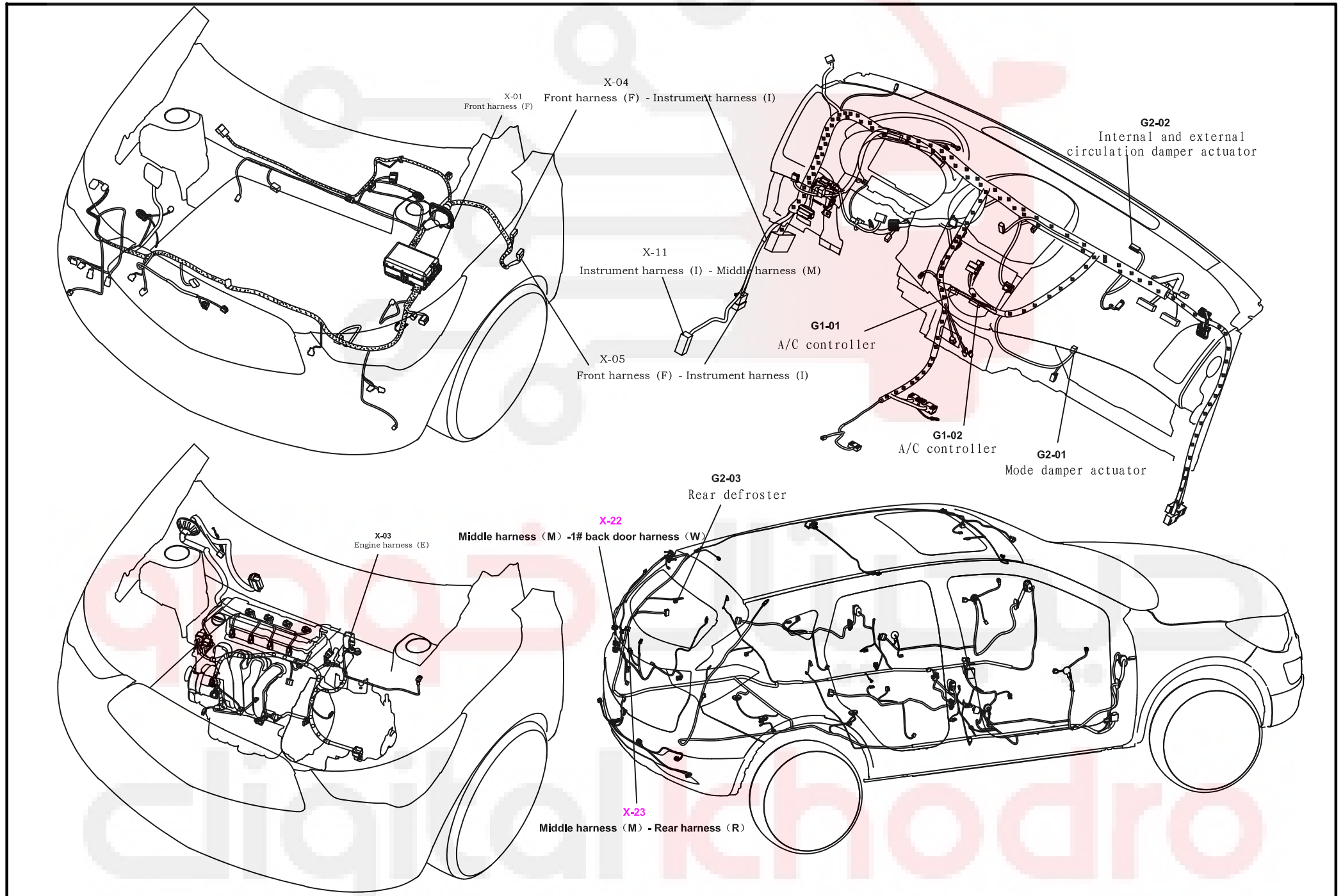


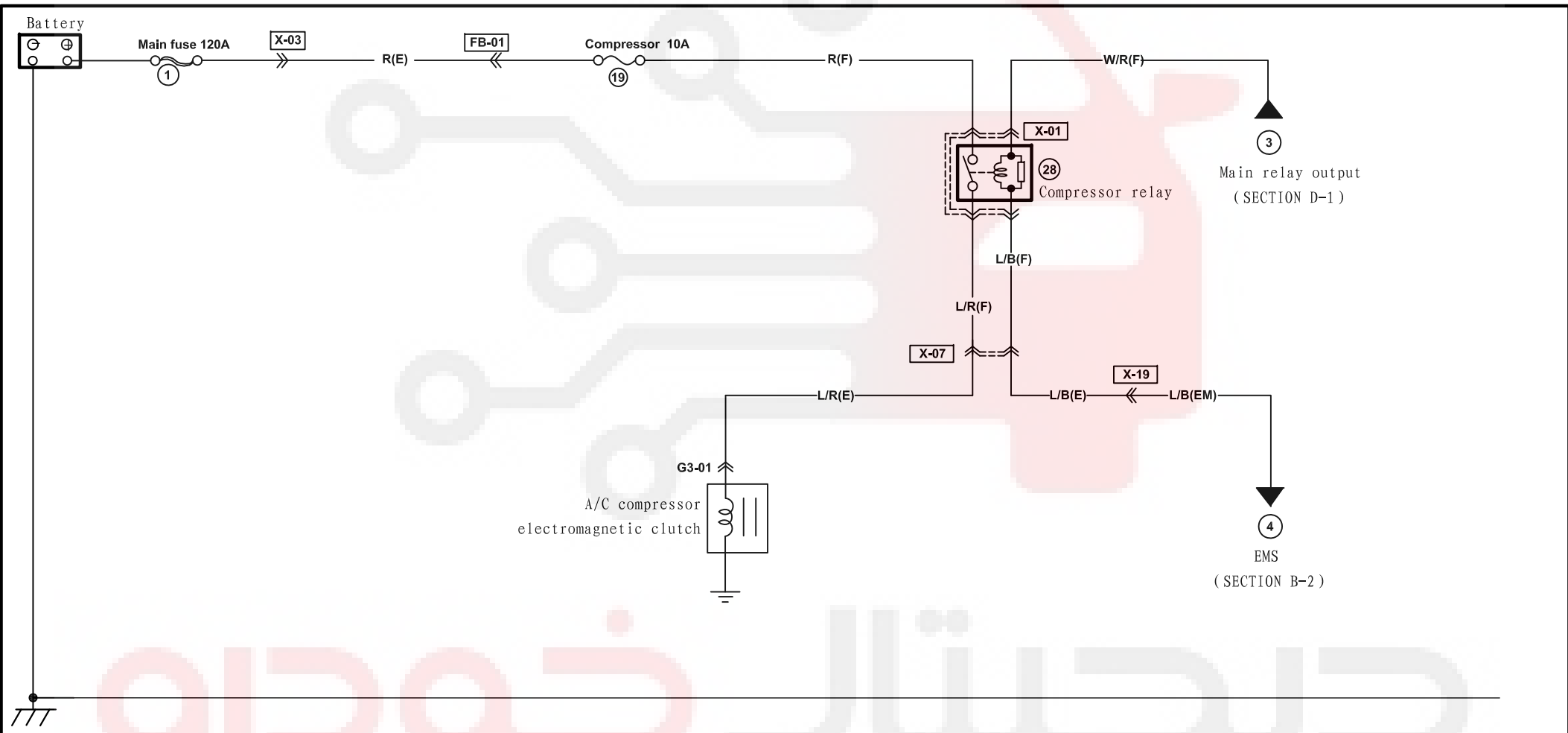
G2-02 Internal and external circulation damper actuator



G2-03 Rear defroster (W)

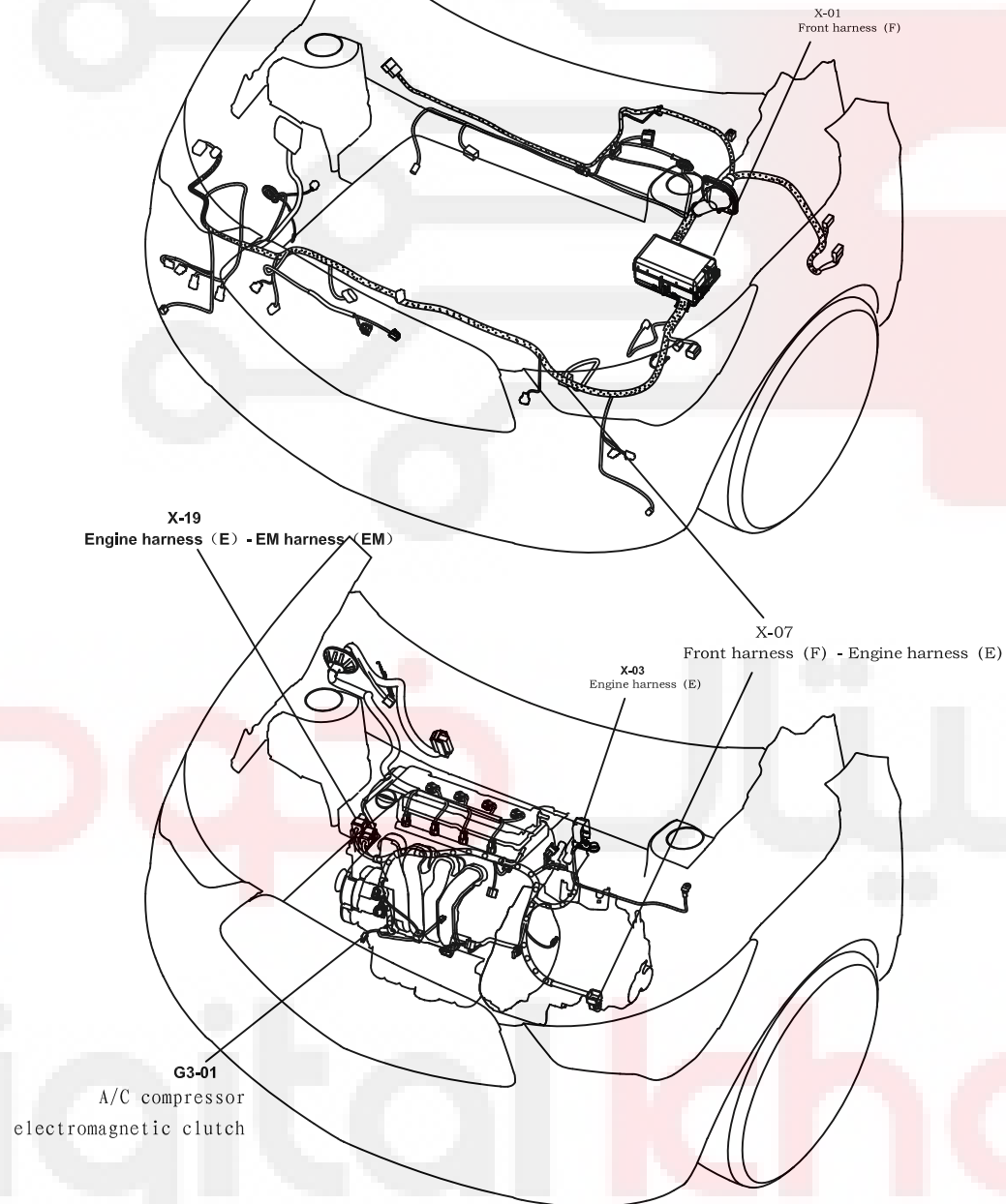


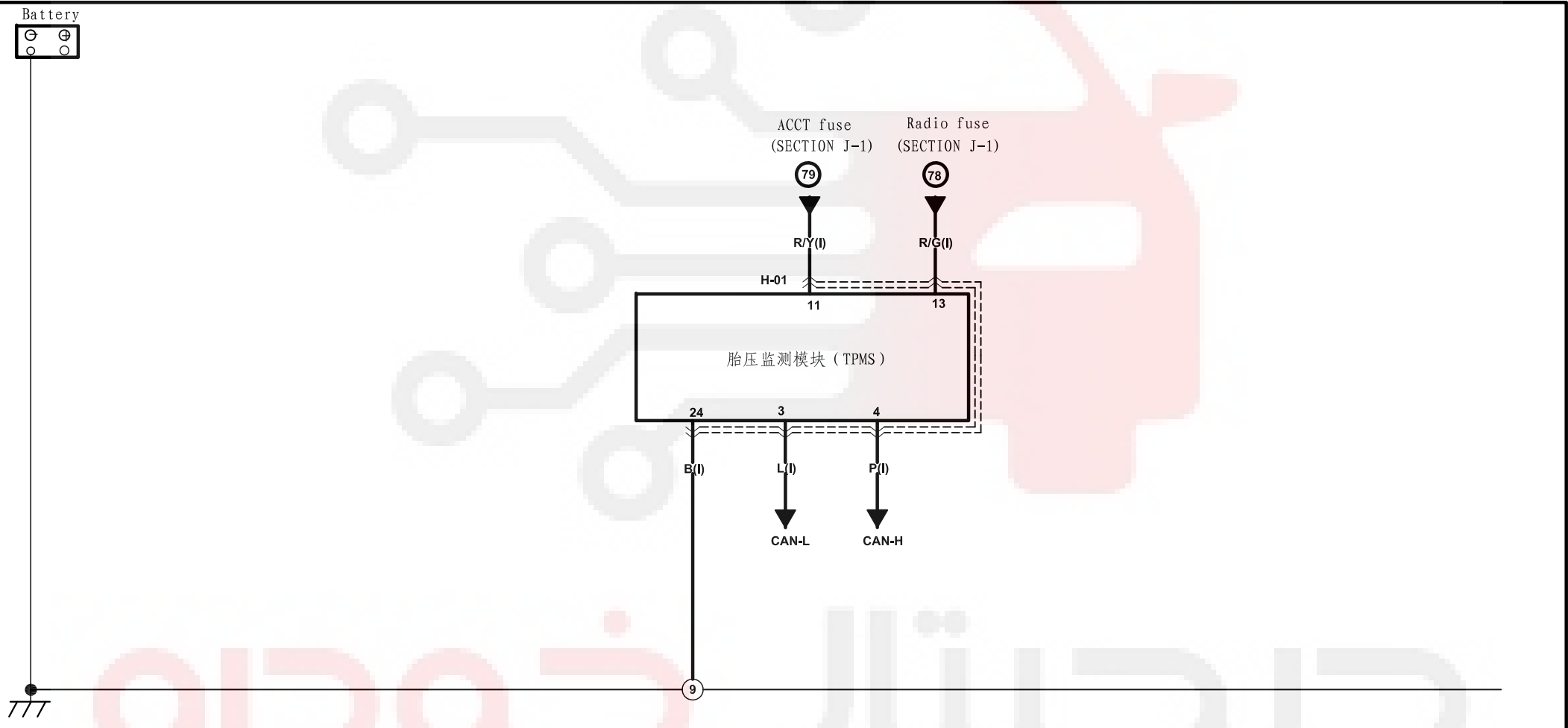




G3-01 Electromagnetic clutch (E)



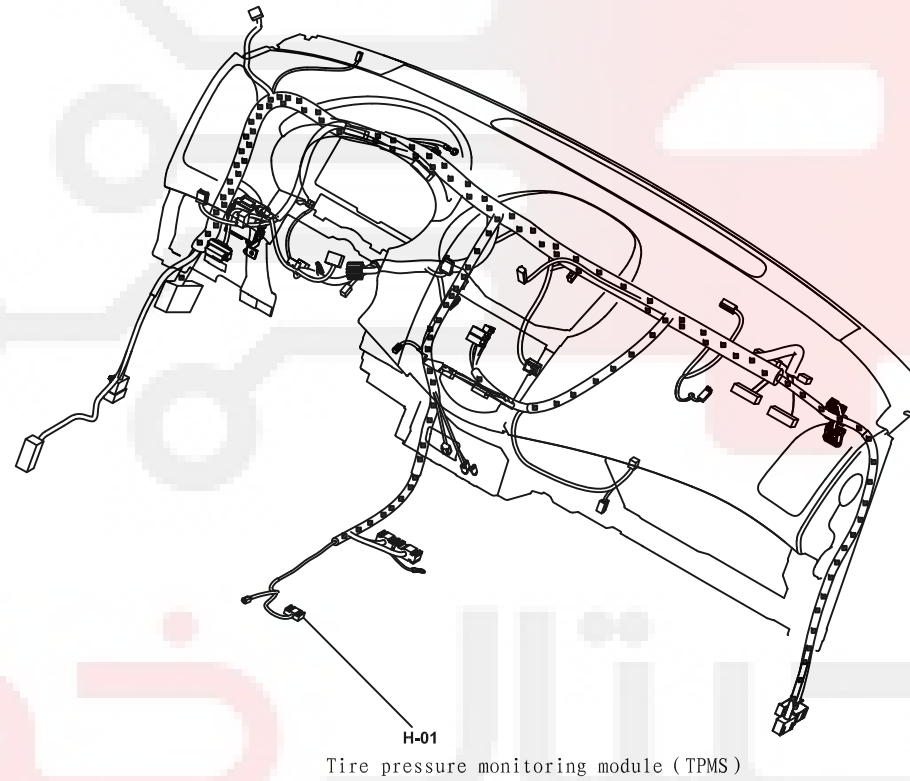


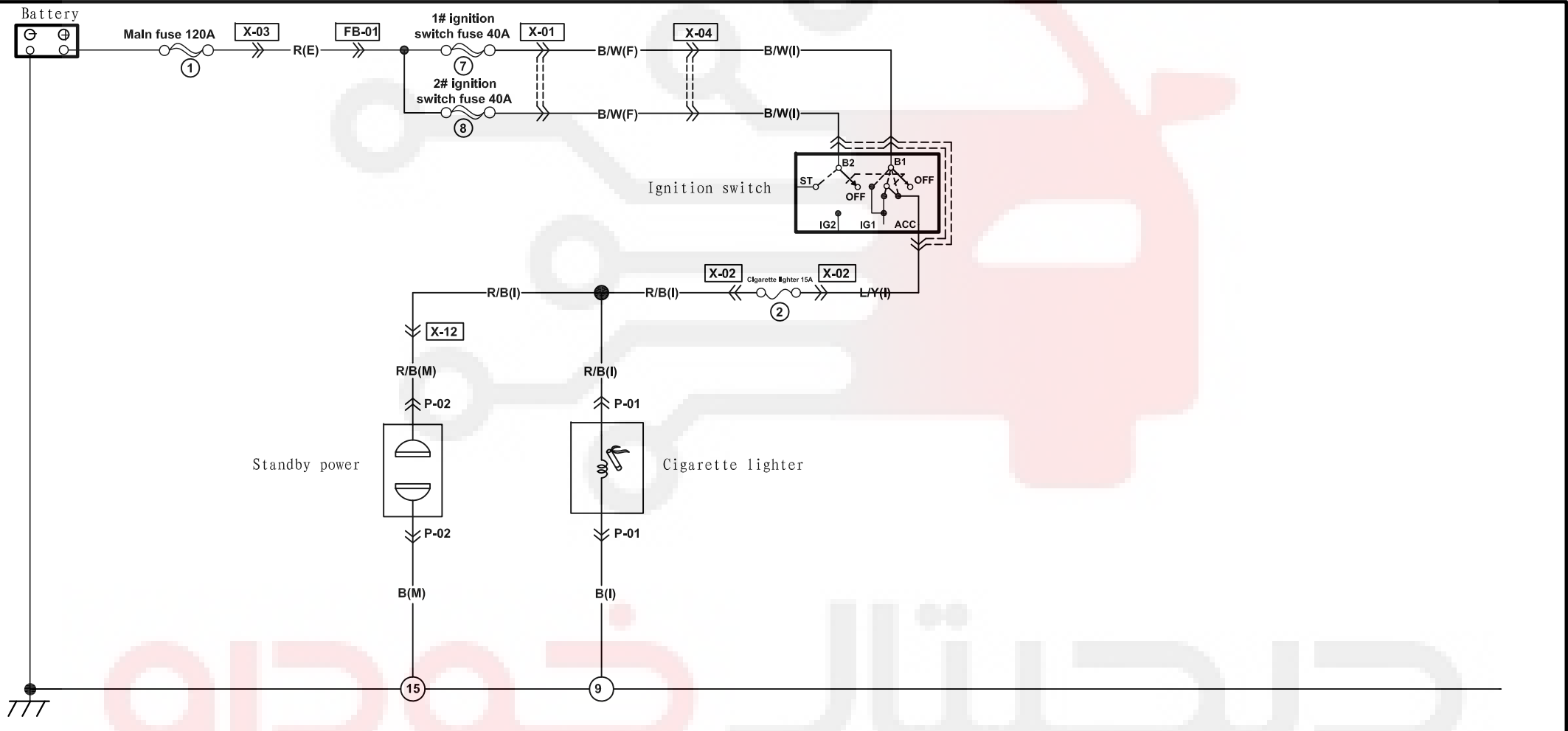


H-01 Tire pressure monitoring module (I)

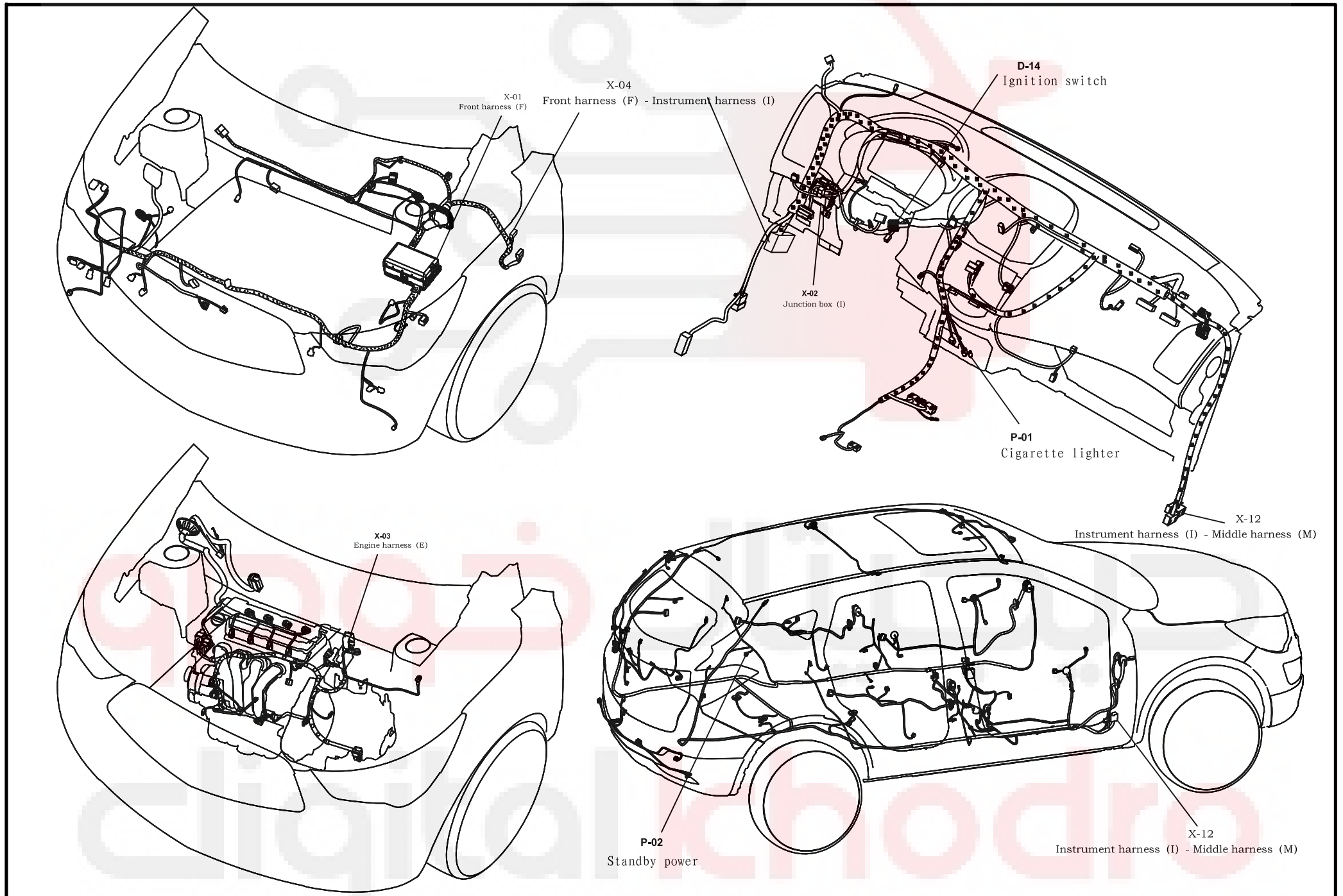
1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

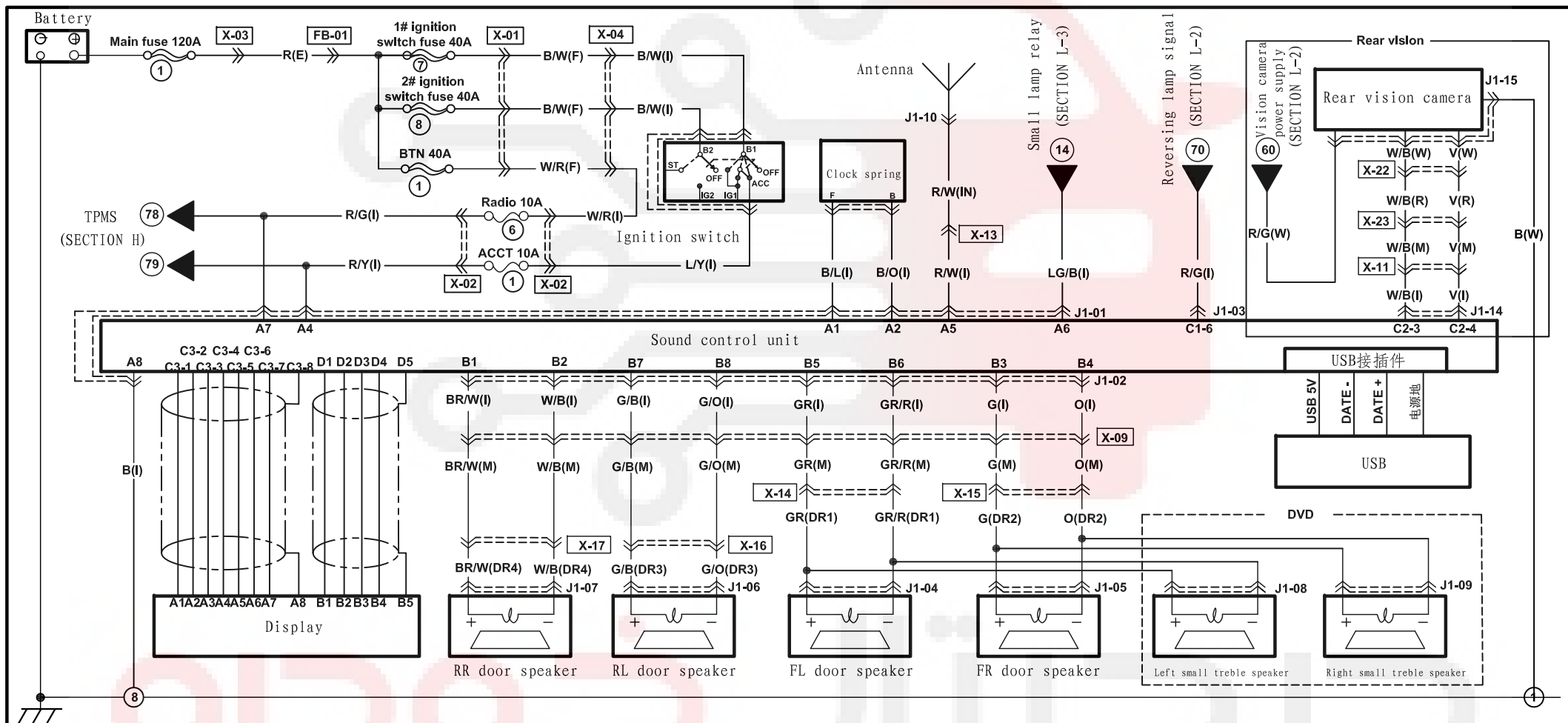
L P R/Y B

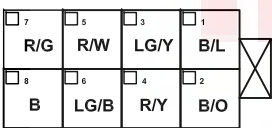
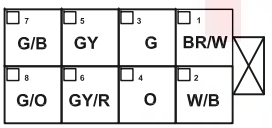
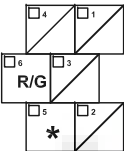
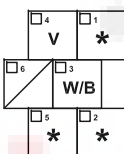
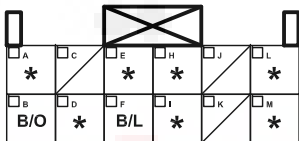
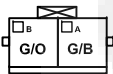
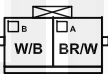
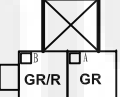
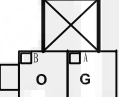
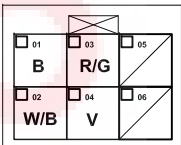


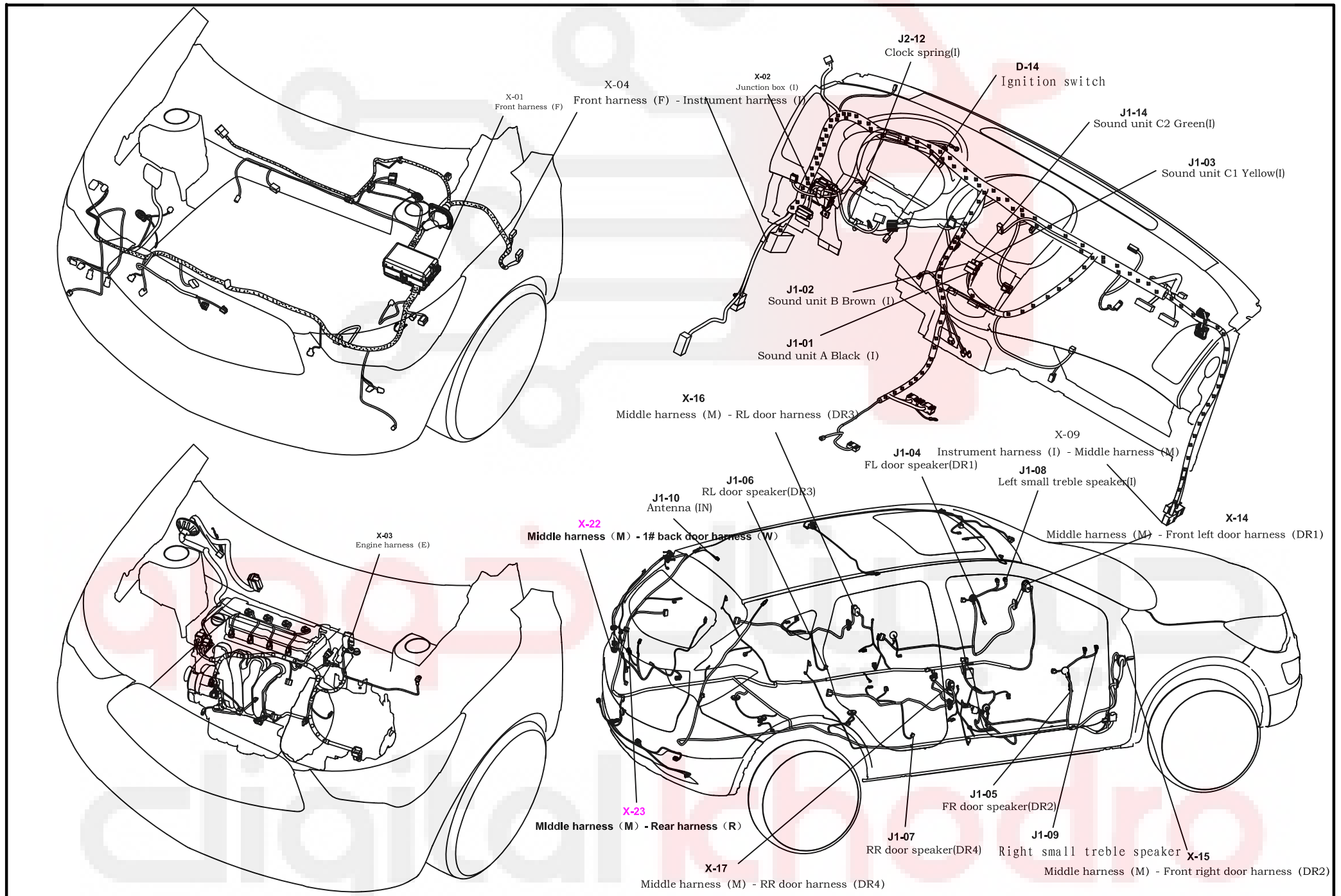


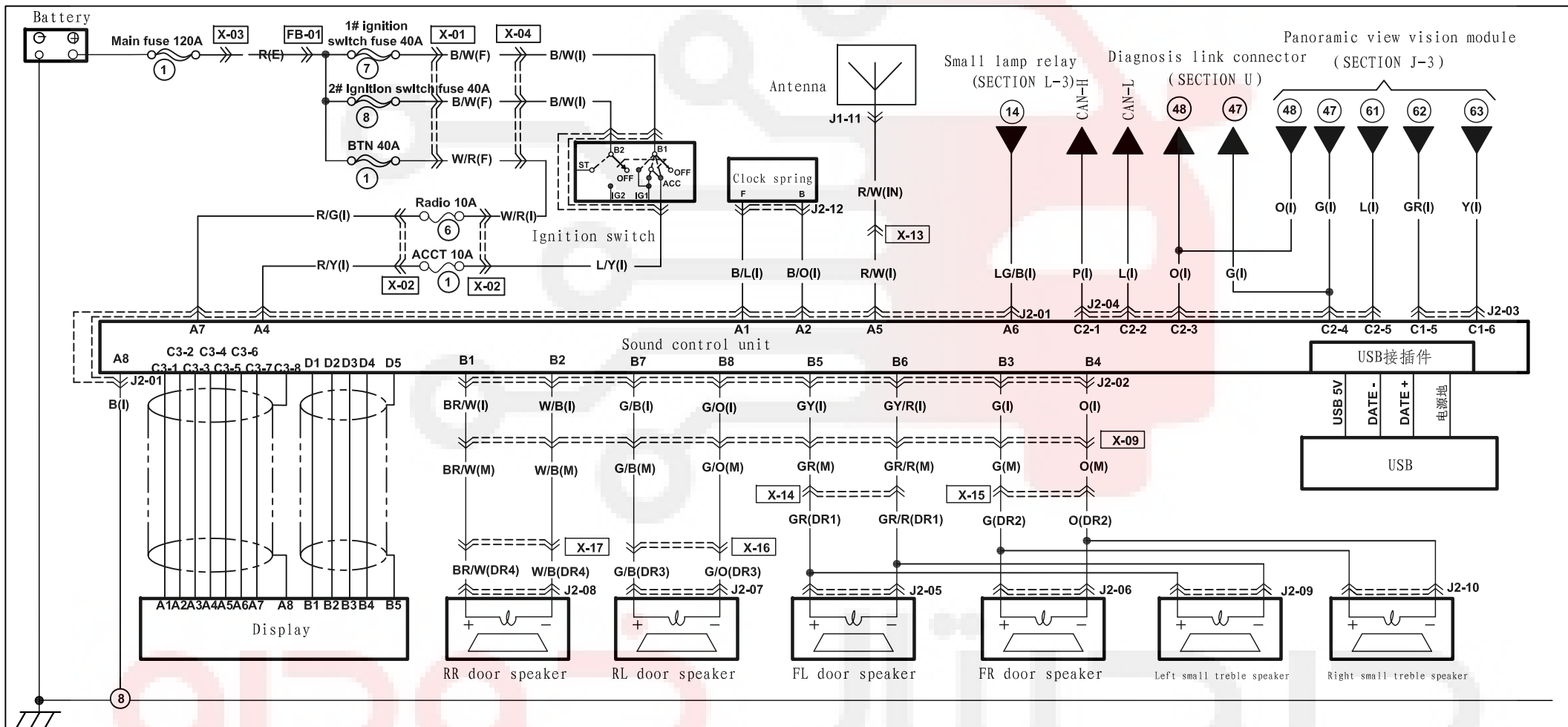
P-01 Cigarette lighter (I)		P-02 Standby power (I)				

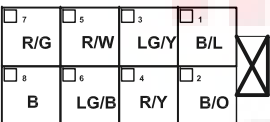
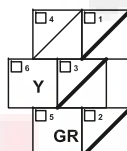
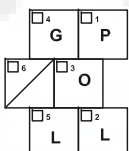
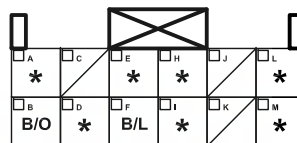
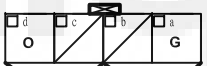
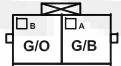
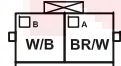
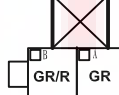
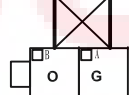


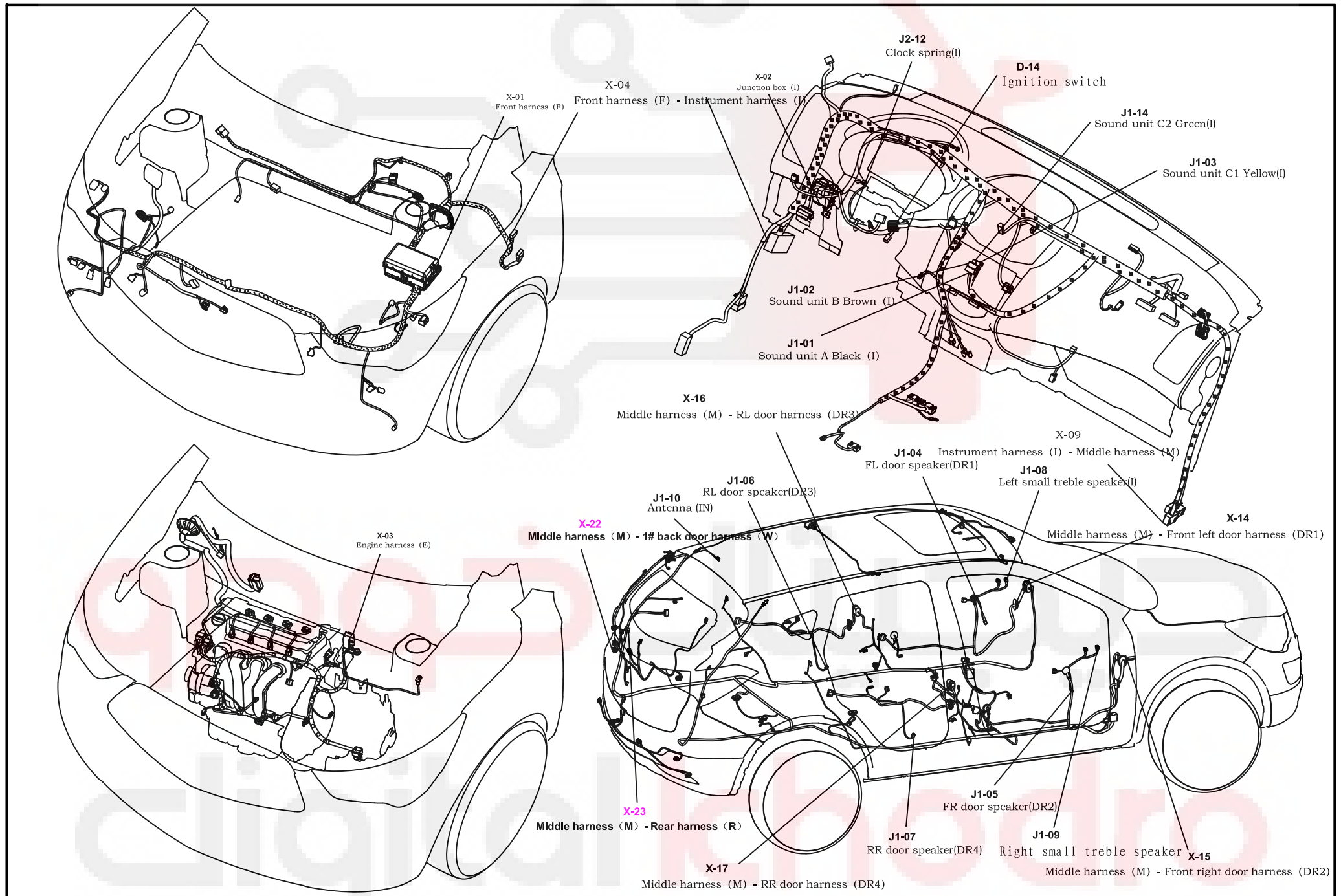


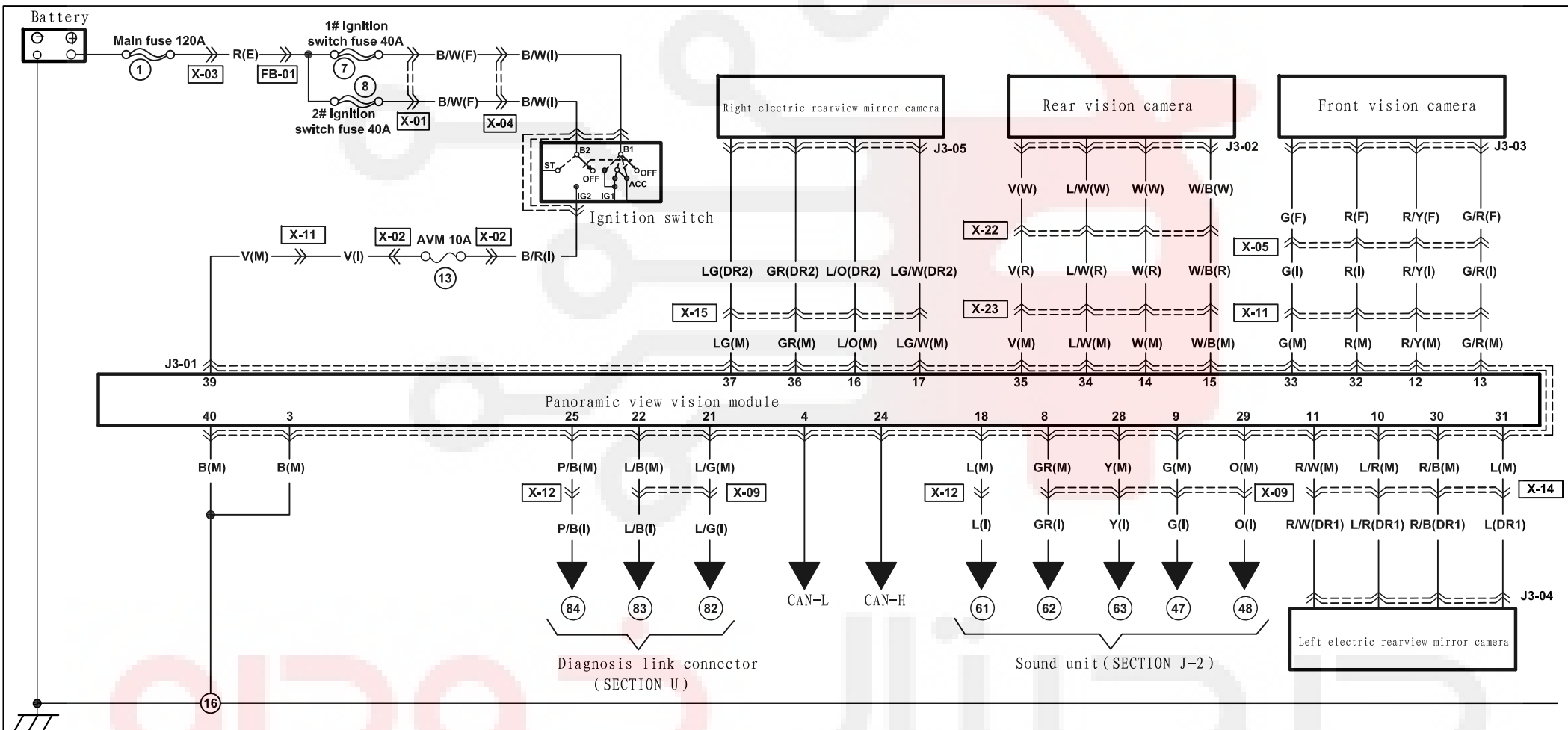
J1-01 Sound unit A Black (I)	J1-02 Sound unit B Brown (I)	J1-03 Sound unit C1 Yellow(I)	J1-14 Sound unit C2 Green(I)	J2-12 Clock spring (I)			
							
J1-06 RL door speaker(DR3)	J1-07 RR door speaker(DR4)	J1-08 Left small treble speaker(I)	J1-09 Right small treble speaker(I)	J1-10 Antenna (IN)	J1-04 FL door speaker(DR1)	J1-05 FR door speaker(DR2)	J1-15 Rear vision camera(W)
							



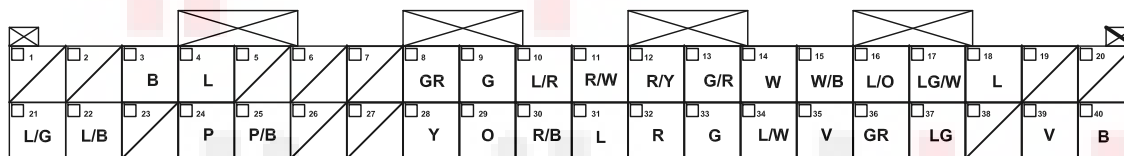


J2-01 Sound unit A Black (I)	J2-02 Sound unit B Brown (I)	J2-03 Sound unit C1 Yellow(I)	J2-04 Sound unit C2 Green(I)	J2-12 Clock spring (I)
				
J1a-05 FL door speaker(DR1)	J2-06 FR door speaker(DR2)	J2-07 RL door speaker (DR3)	J2-08 RR door speaker (DR4)	J2-09 Left small treble speaker(DR1)
				
				J2-10 Right small treble speaker(DR2)
				
				J2-11 Antenna (IN)
				

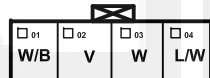




J3-01 Panoramic view vision module(M)



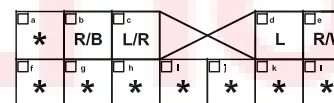
J3-02 Rear vision camera(W)



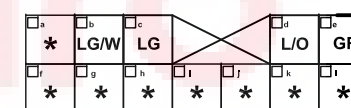
J3-03 Front vision camera(F)

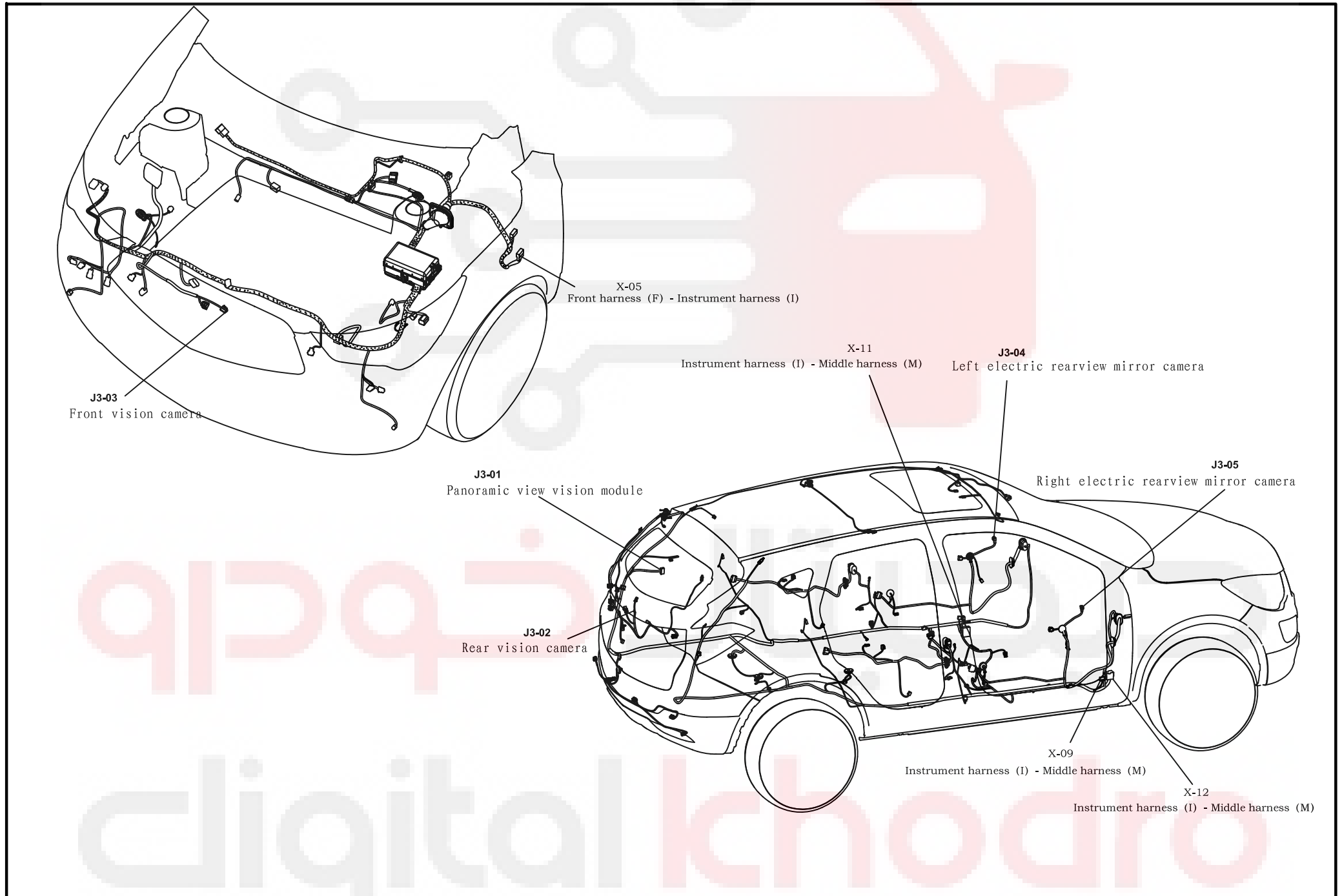


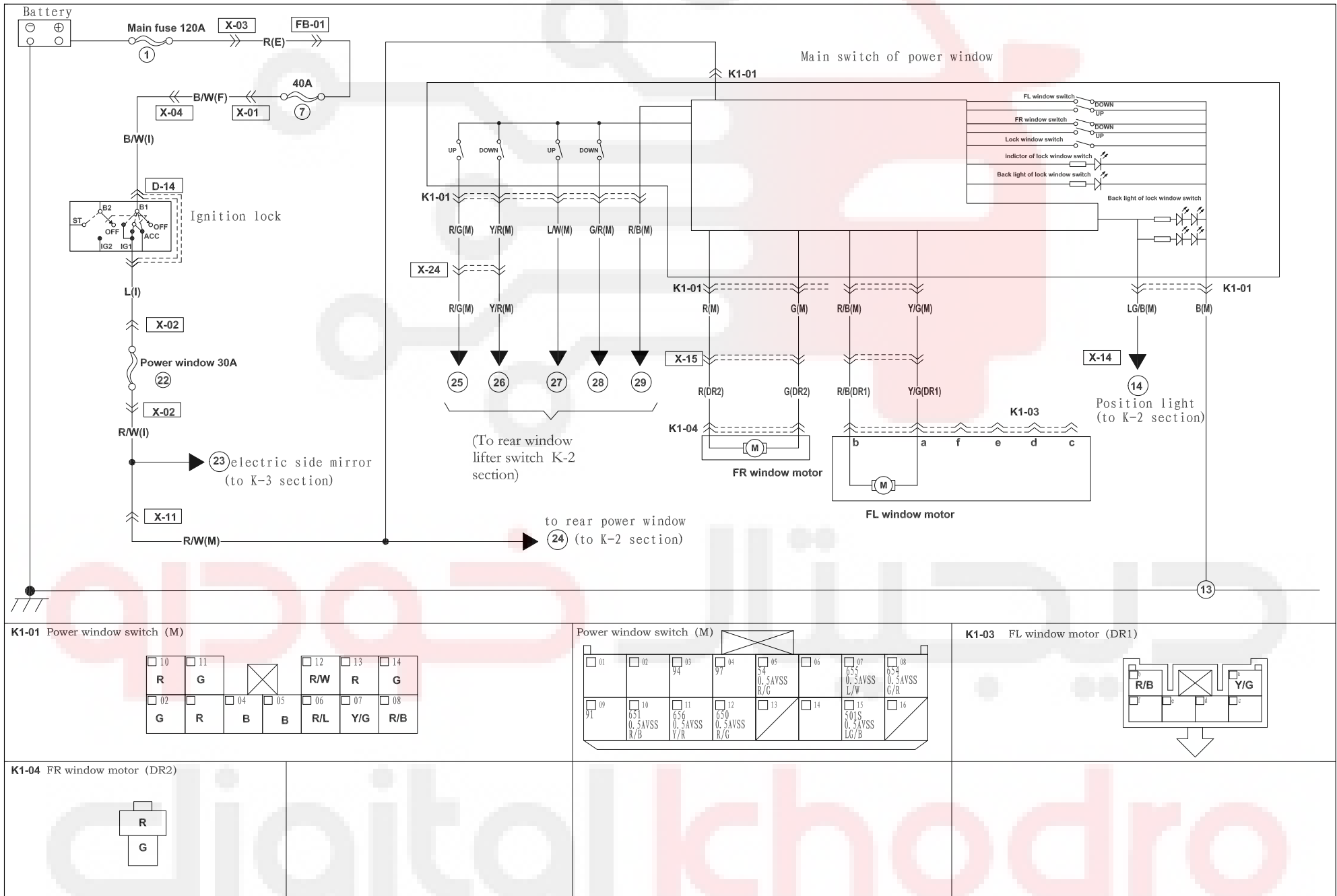
J3-04 Left electric rearview mirror(DR1)

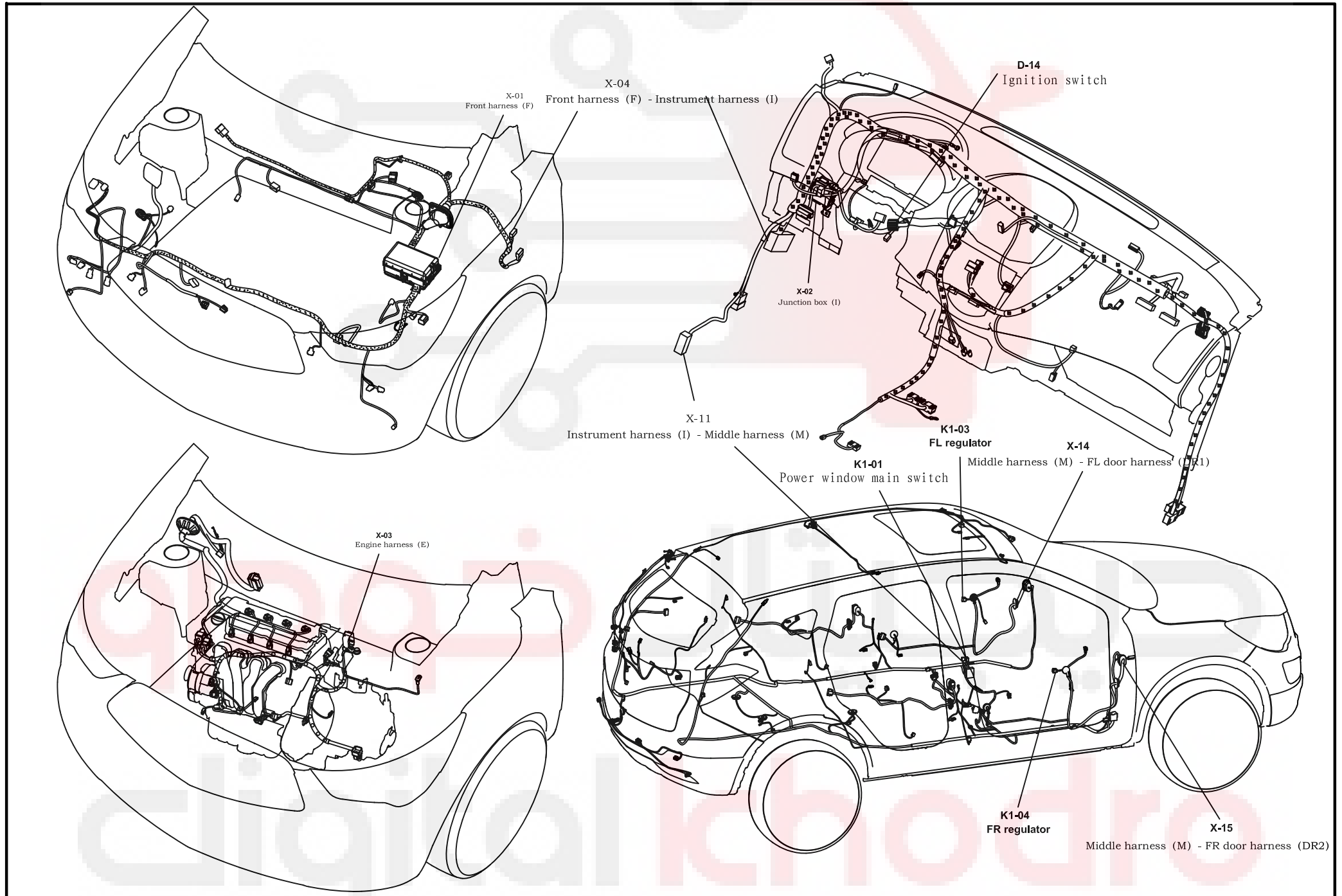


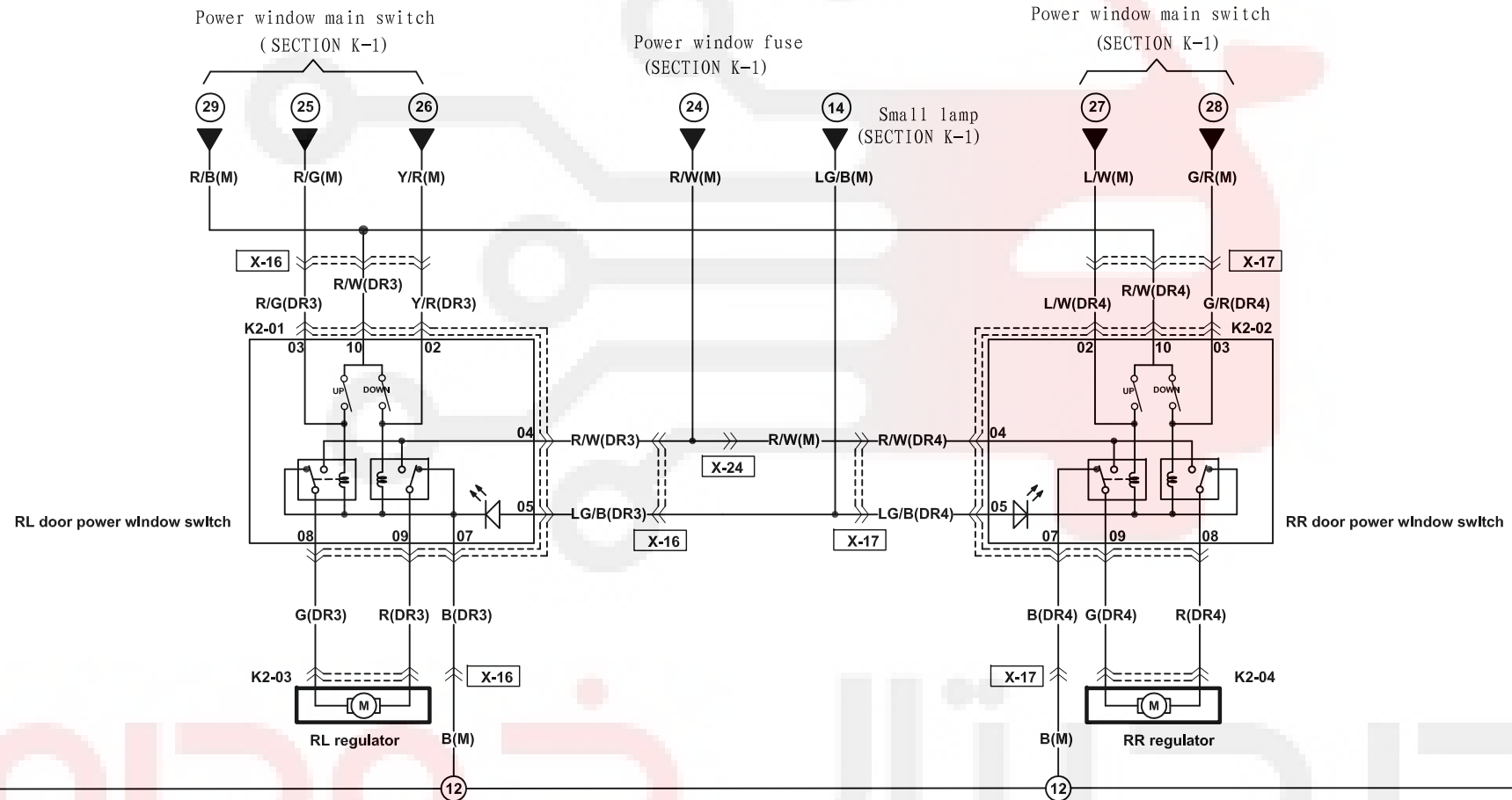
J3-05 Right electric rearview mirror (DR2)



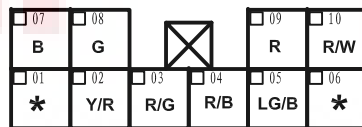




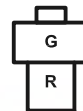




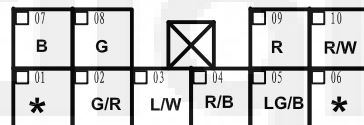
K2-01 RL door power window switch (DR3)



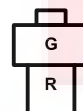
K2-03 RL regulator (DR2)

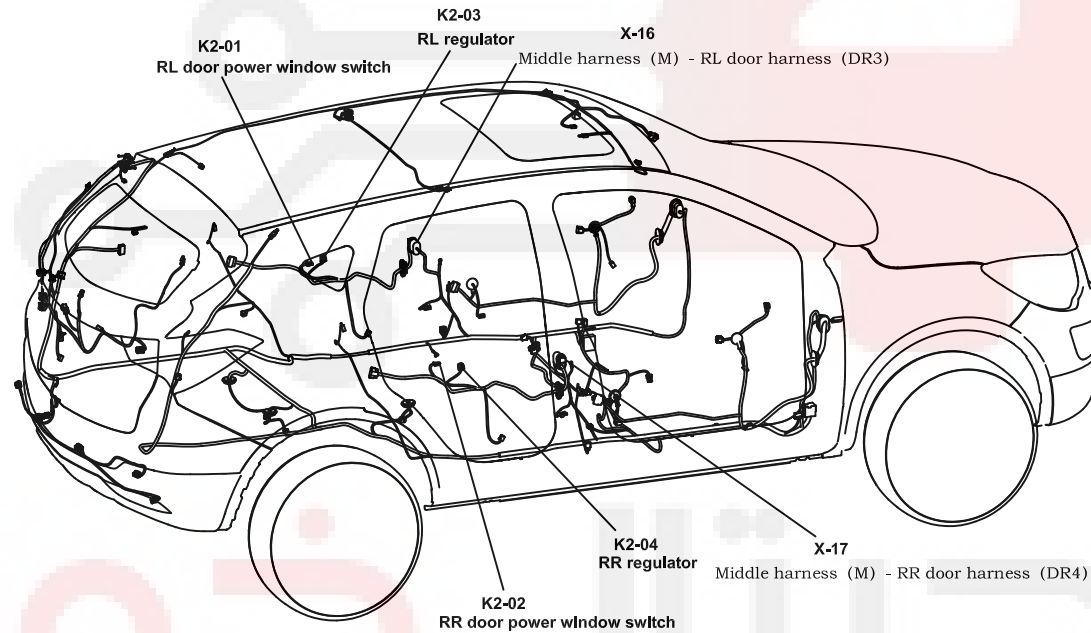


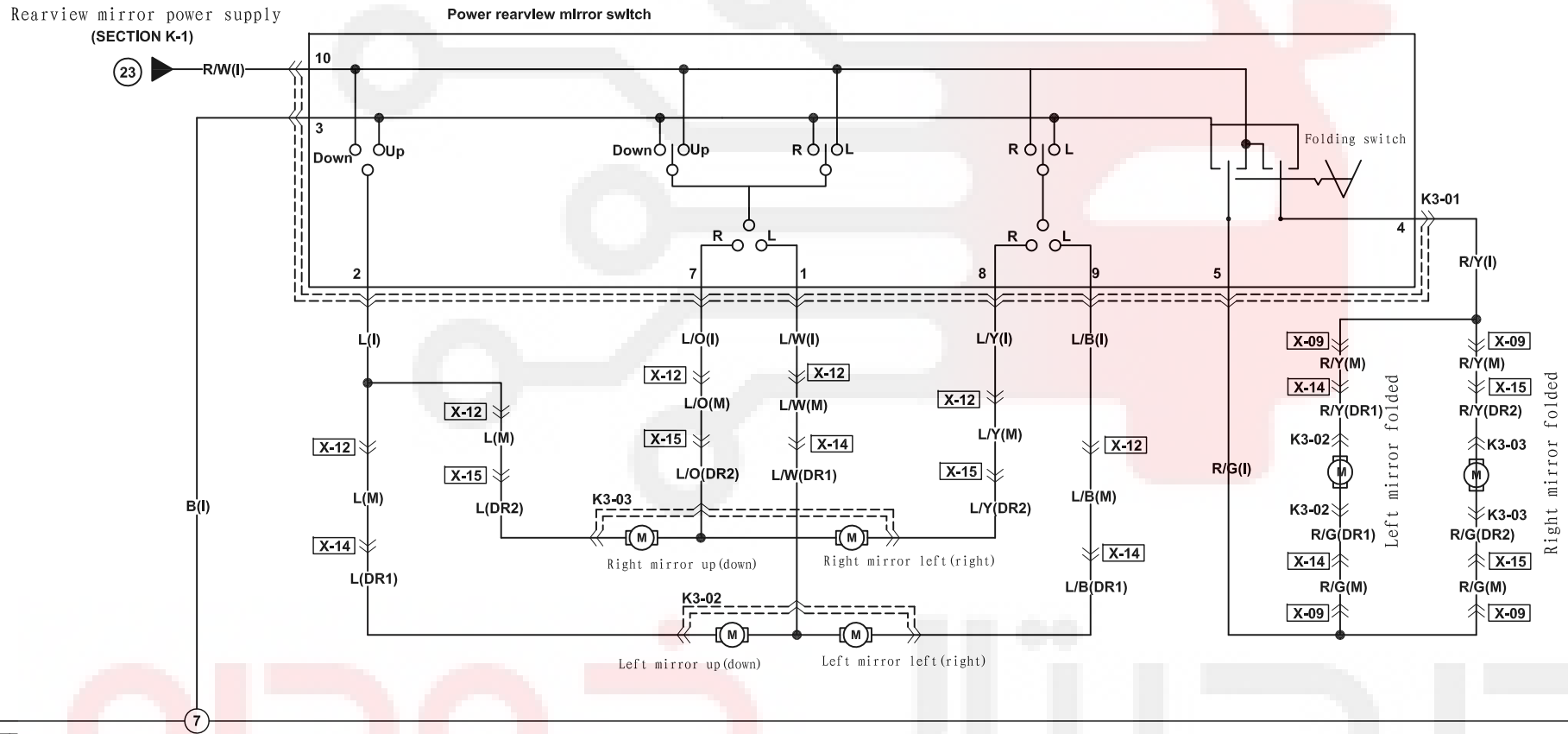
K2-02 RR door power window switch (DR4)



K2-04 RR regulator (DR4)







K3-01 Power rearview mirror switch (I)

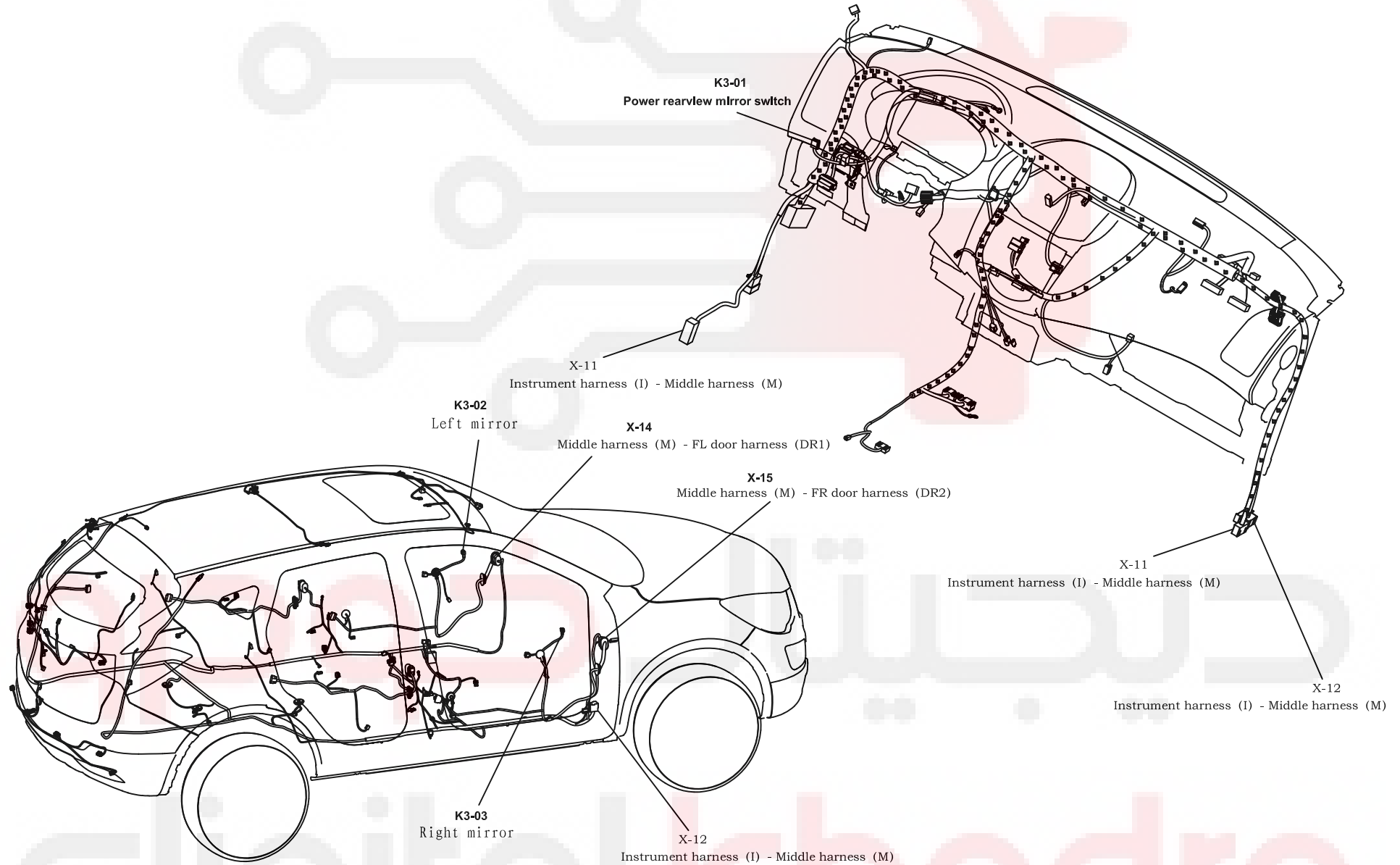
☐ 5 R/Y	☐ 4 R/G	☐ 3 B	☐ 2 L	☐ 1 L/W
☐ 10 R/W	☐ 9 L/B	☐ 8 L/Y	☐ 7 L/O	

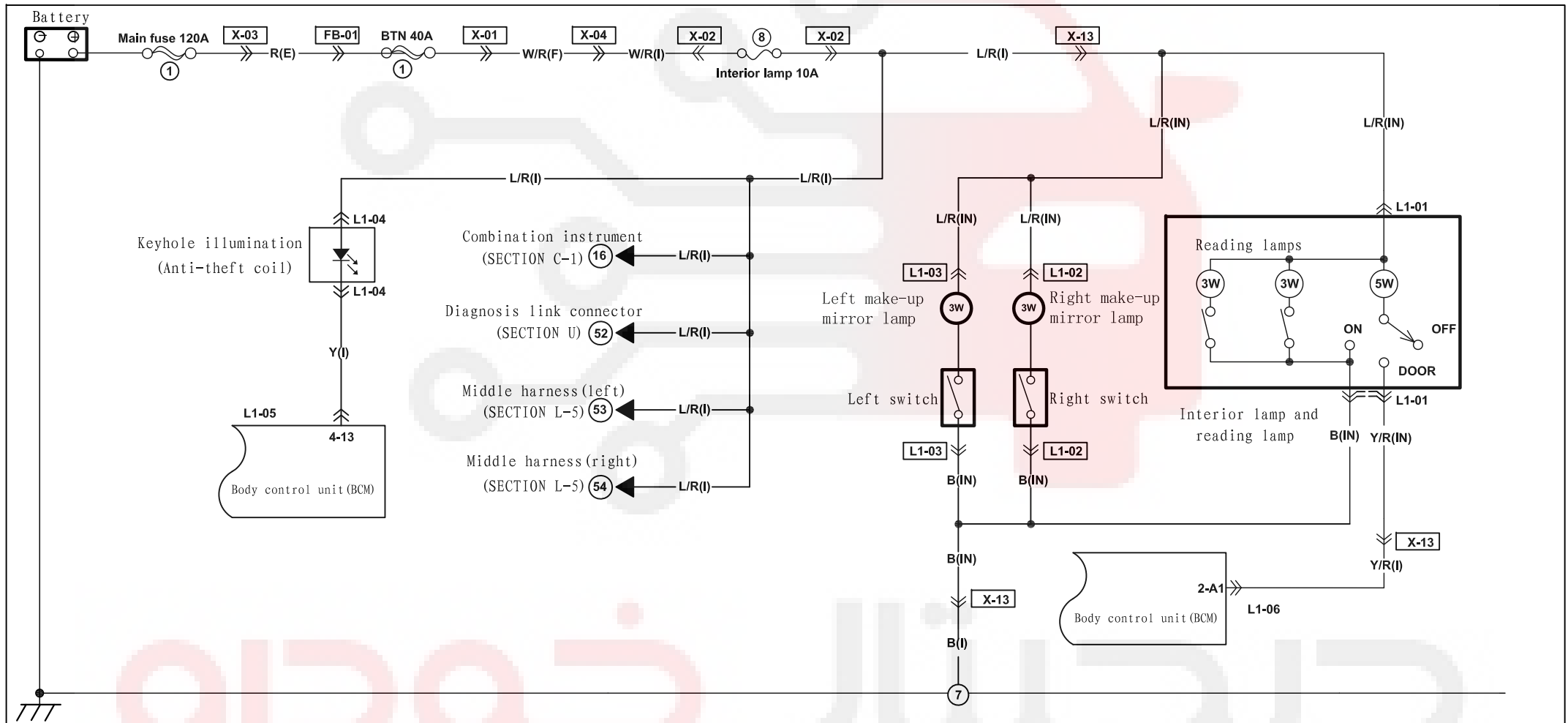
K3-02 Left power rearview mirror (DR1)

☐ a	☐ b	☐ c			☐ d	☐ e
*	*	*			*	*
☐ f	☐ g	☐ h	☐ i	☐ j	☐ k	☐ l
*	*	R/G	R/Y	L	L/B	L/W

K3-03 Right power rearview mirror (DR2)

☐ a *	☐ b *	☐ c *			☐ d *	☐ e *
☐ f *	☐ g *	☐ h R/G	☐ i R/Y	☐ j L	☐ k L/Y	☐ l L/O





L1-01
Interior lamp and reading lamp(IN)



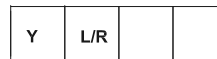
L1-02
Left make-up mirror lamp(IN)



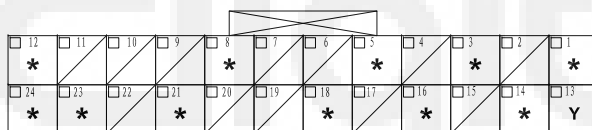
L1-03
Right make-up mirror lamp(IN)



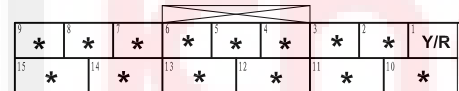
L1-04
Anti-theft coil(I)

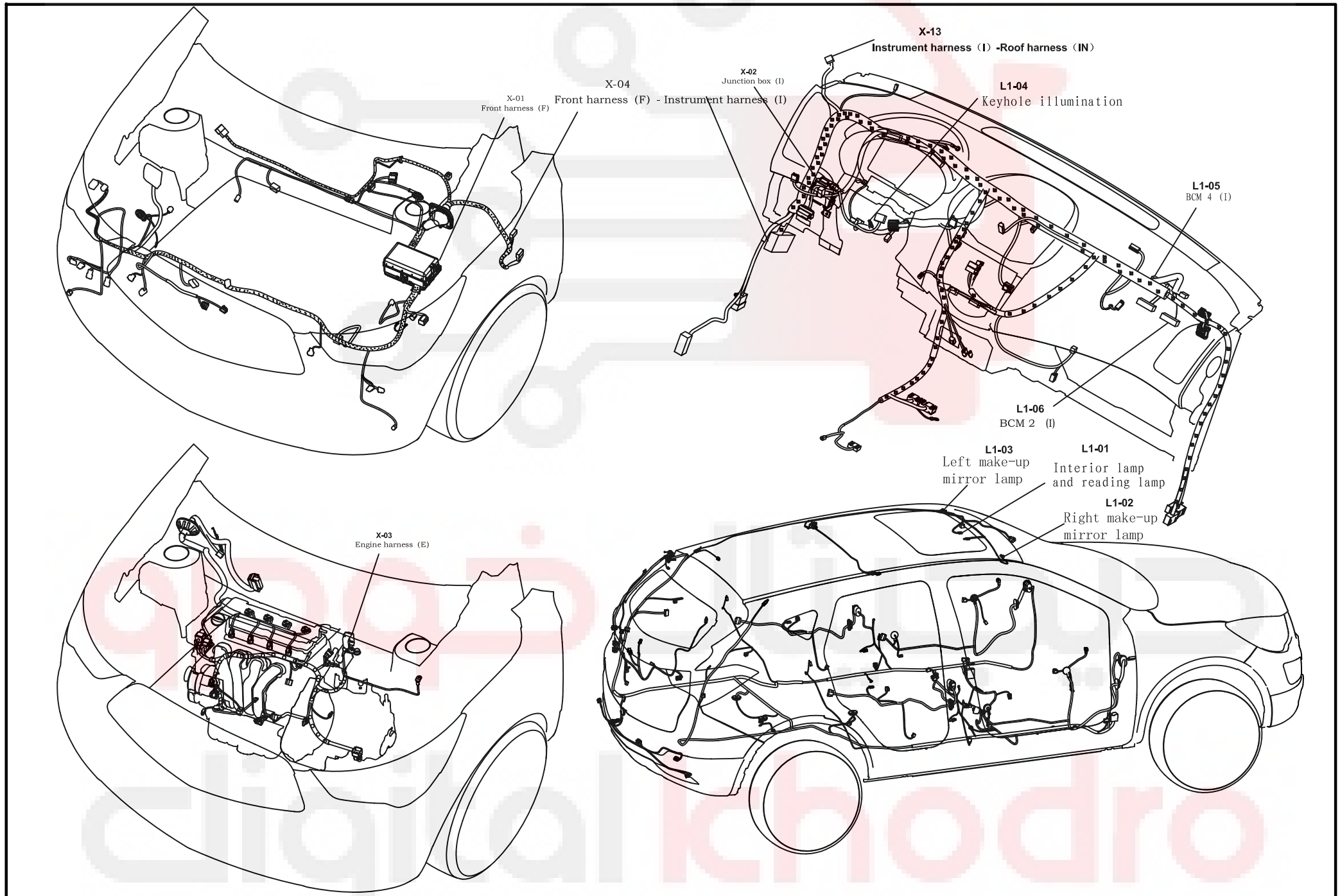


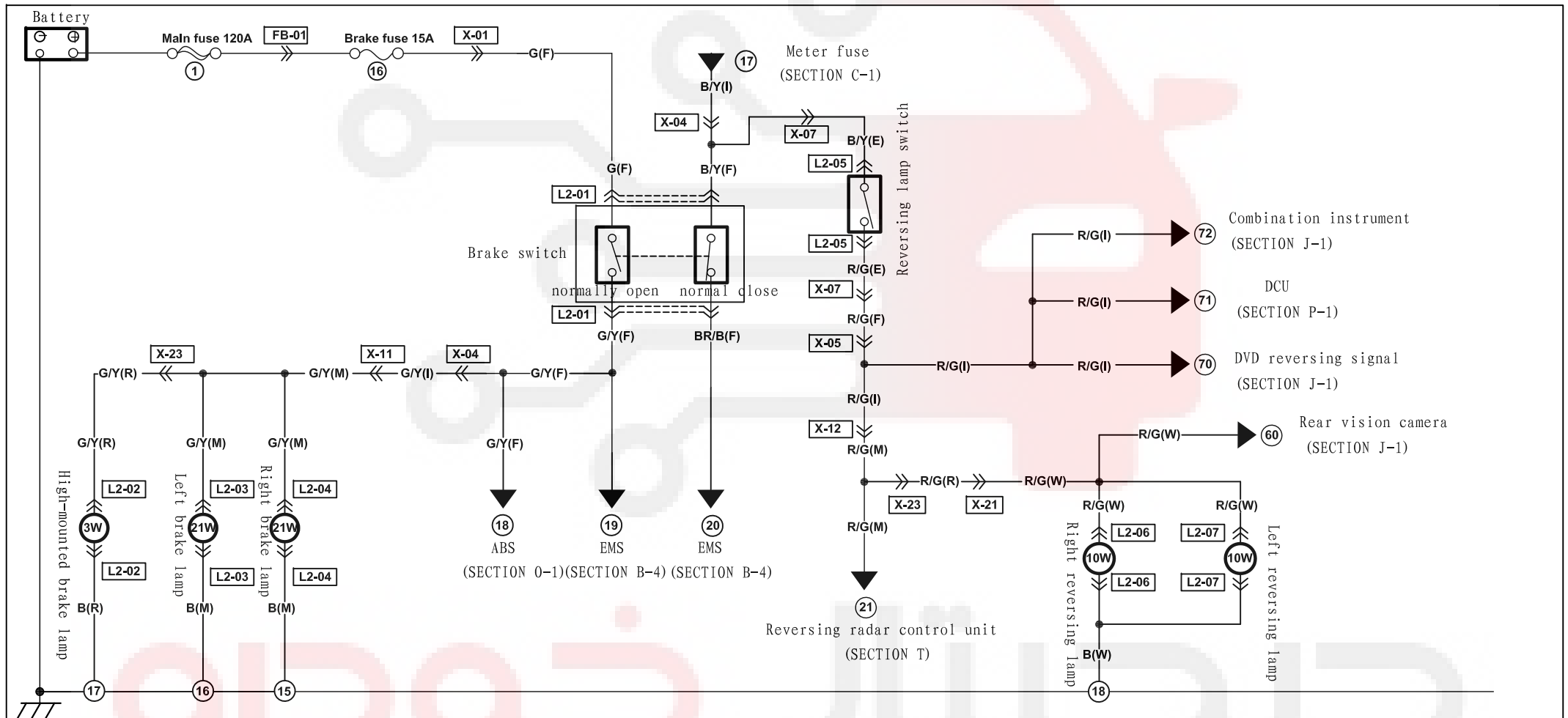
L1-05 BCM 4 (I)



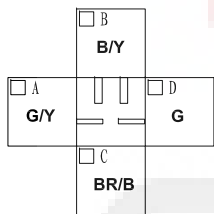
L1-06 BCM 2 (I)



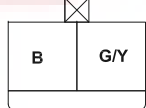




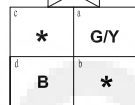
L2-01 Brake switch (F)



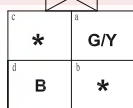
L2-02 High-mounted brake lamp (M)



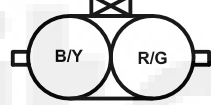
L2-03 Left brake lamp (M)



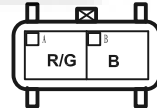
L2-04 Right brake lamp (M)



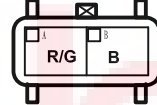
L2-05 Reversing lamp switch (E)

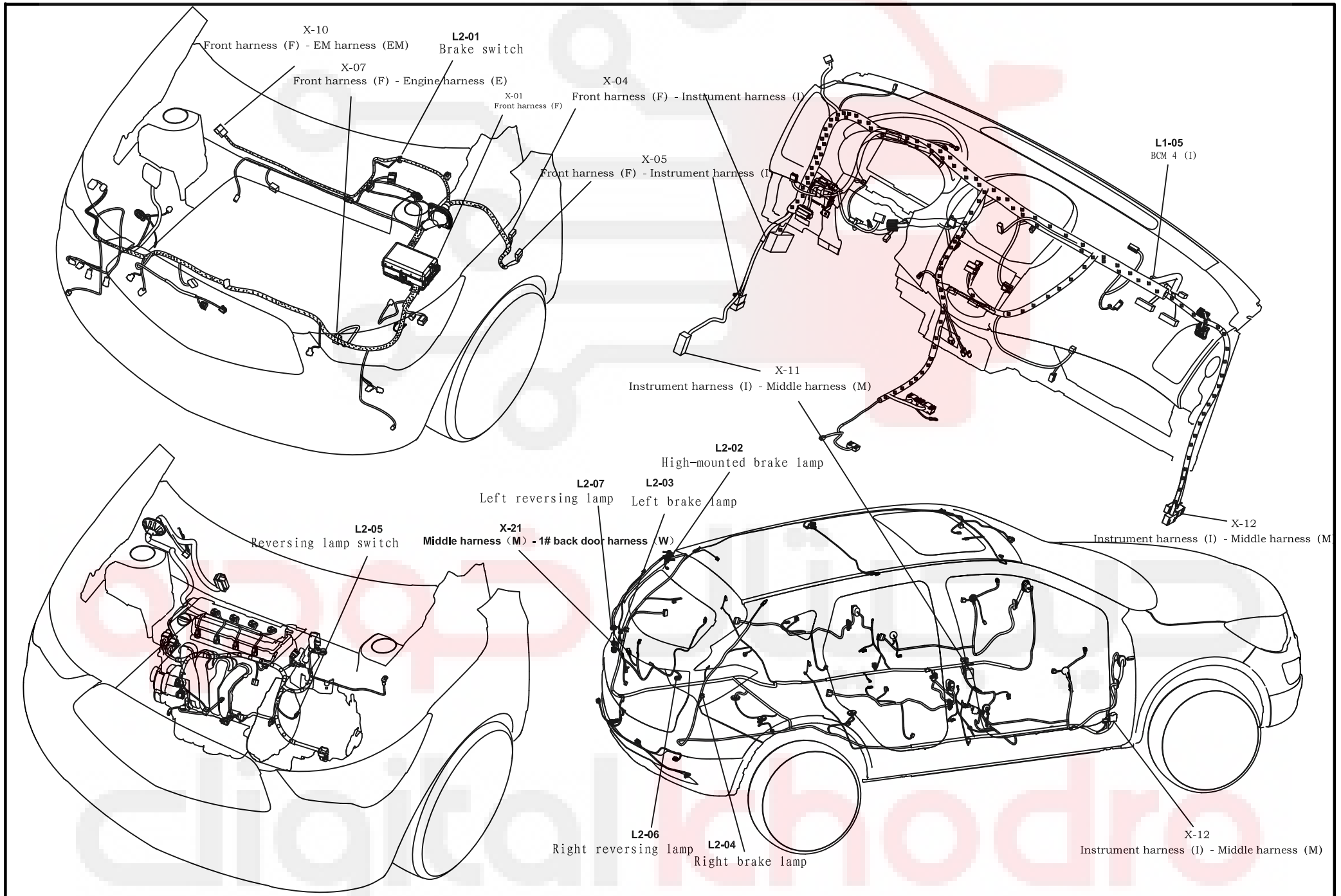


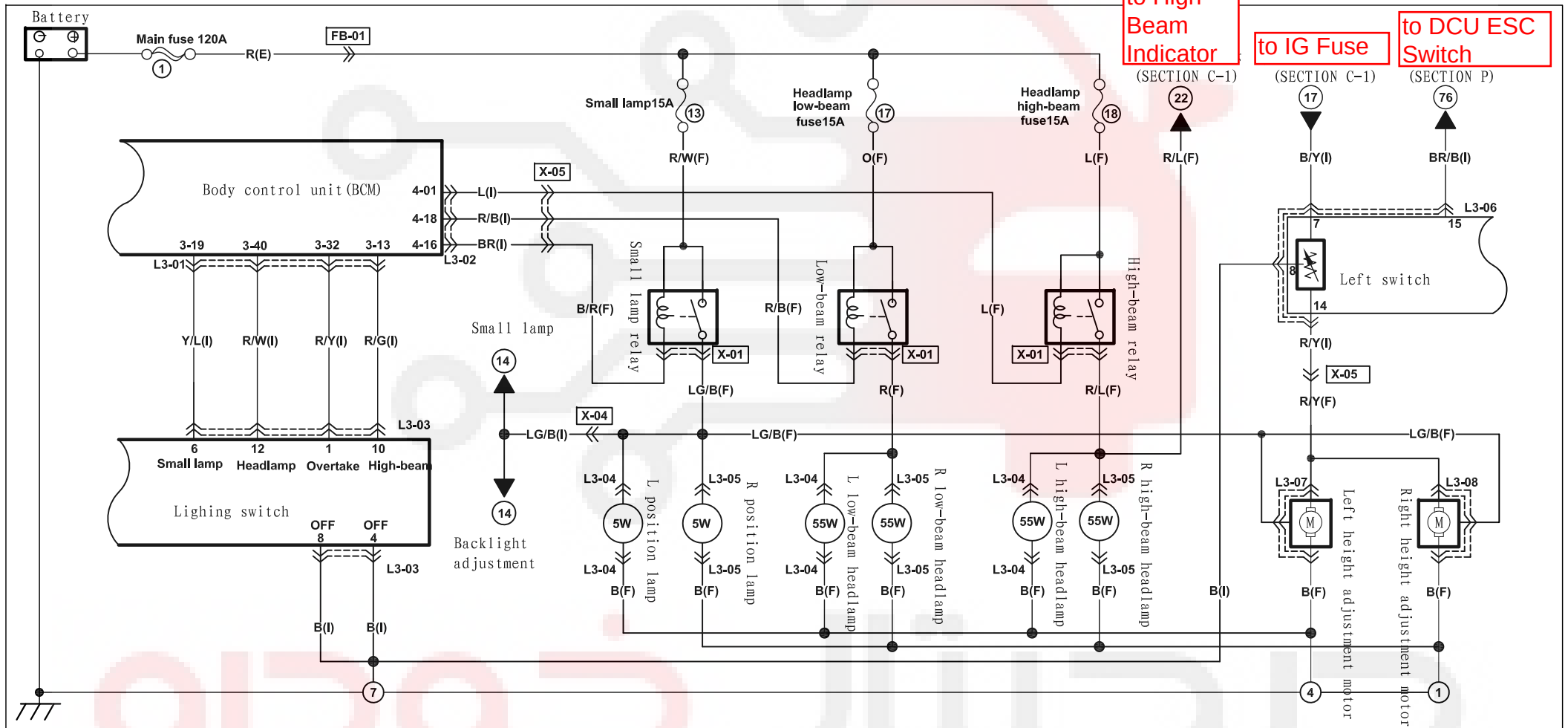
L2-06 Right brake lamp (W)



L2-07 Left brake lamp (W)







L3-01 BCM 3 (I)

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
*	Y/L	P	L/Y	*	*		R/G	*	*		*	*	*	*	*		*	*	*
40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21
R/W	*		*		*	*	*	R/Y	*	*	*	*		*	*		*	*	*

L3-02 BCM 4 (I)

12	11	10	9	8	7	6	5	4	3	2	1
*			*		*			W/B		L	
24	23	22	21	20	19	18	17	16	15	14	13
*			G/Y		R/B	BR		*	*		*

L3-03 Lighting switch (I)

6	5	4	3	2	1
Y/L	P/L	B	W/R	P	R/Y
12	11	10	9	8	7
R/W		R/G	L/Y	B	W/B

L3-04 Left headlamp (F)

R/L	R	LG/B
B	B	B

L3-05 Right headlamp (F)

R/L	R	LG/B
B	B	B

L3-06 Left switch (I)

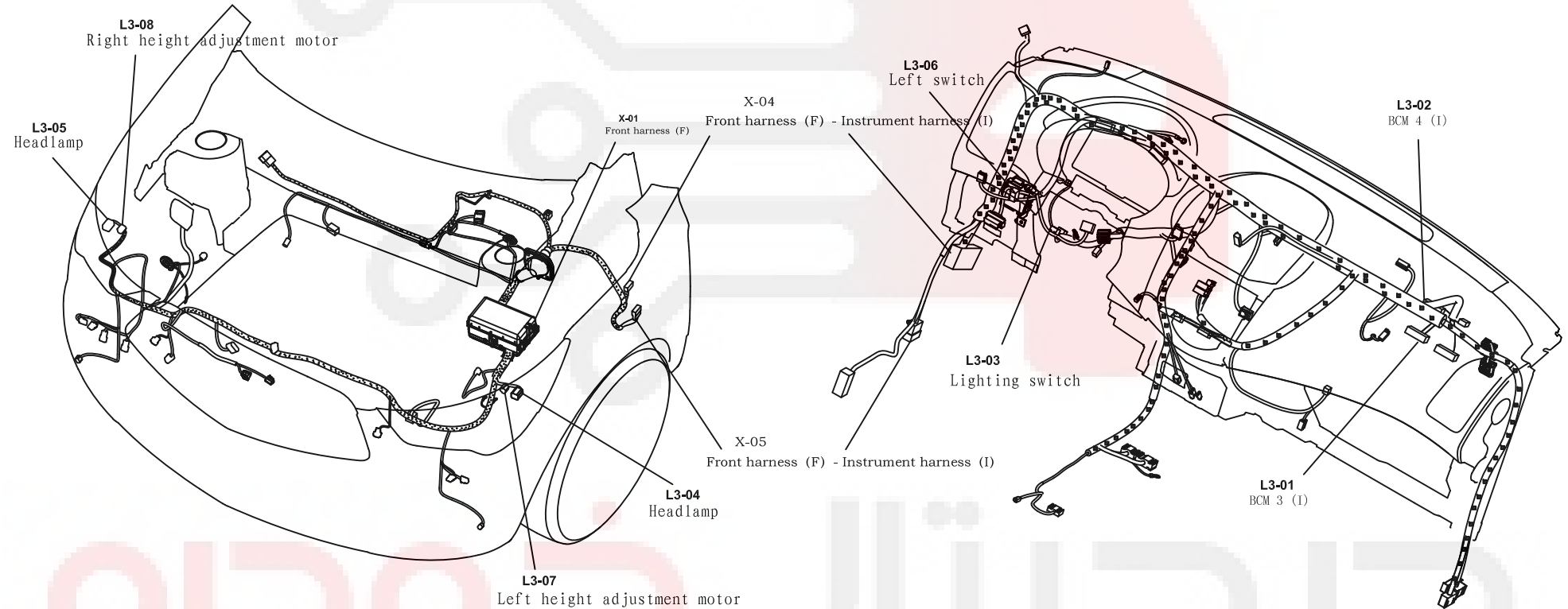
8	7	6	5	4	3	2	1
B	B/Y	*					
16	15	14	13	12	11	10	9
*	BR/B	R/Y	*	*	*		

L3-07 Left height adjustment motor (F)

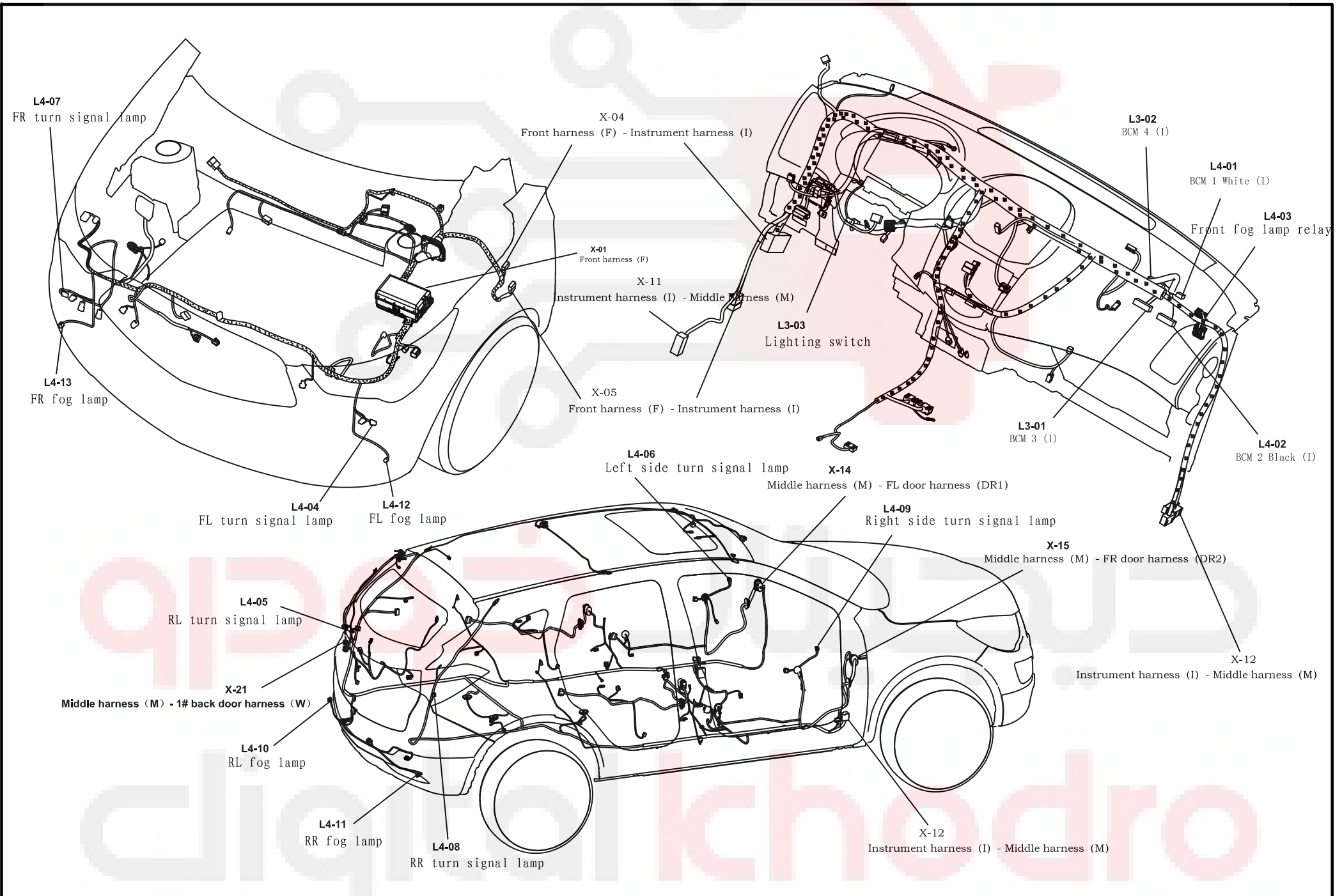
B	R/Y
LG/B	

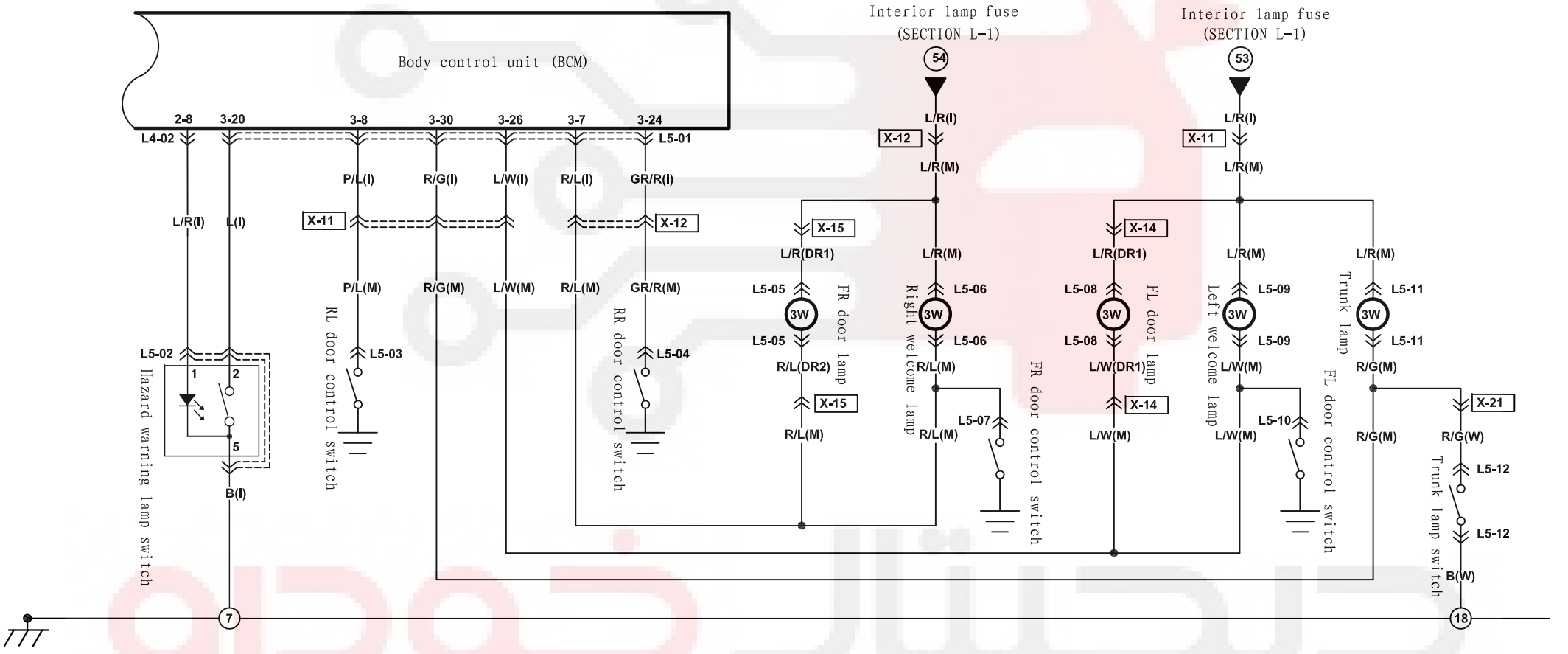
L3-08 Right height adjustment motor (F)

B	R/Y
LG/B	

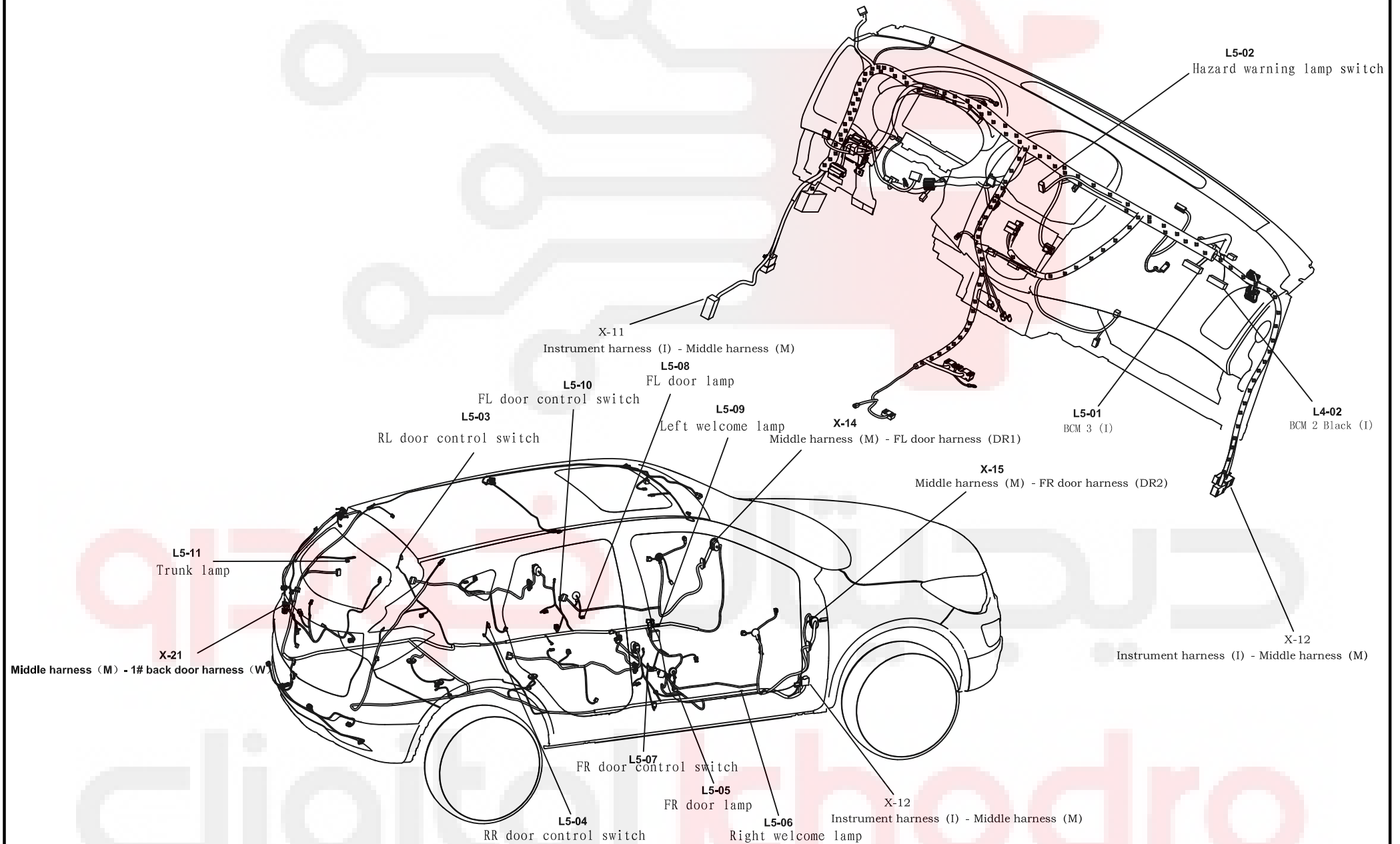


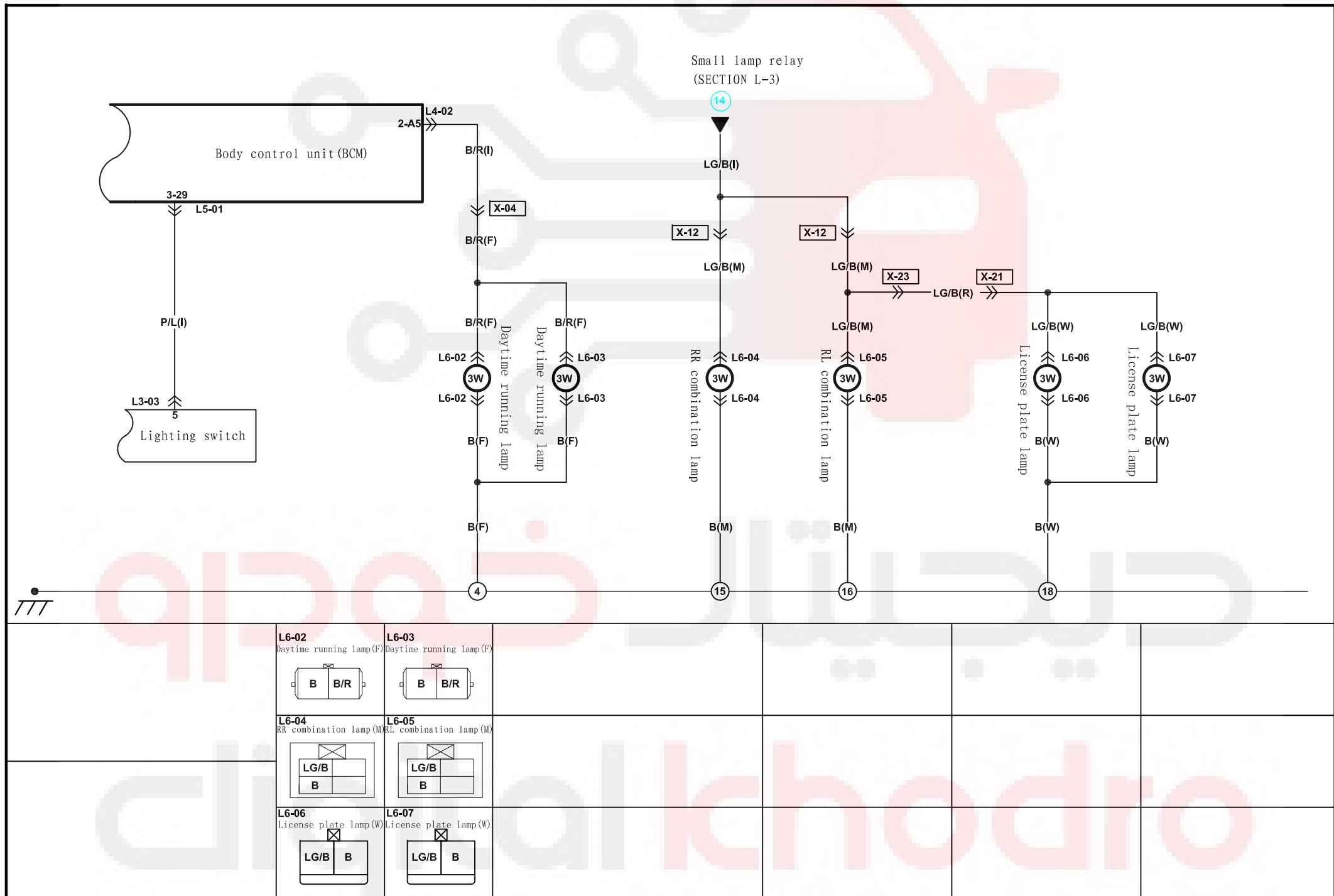


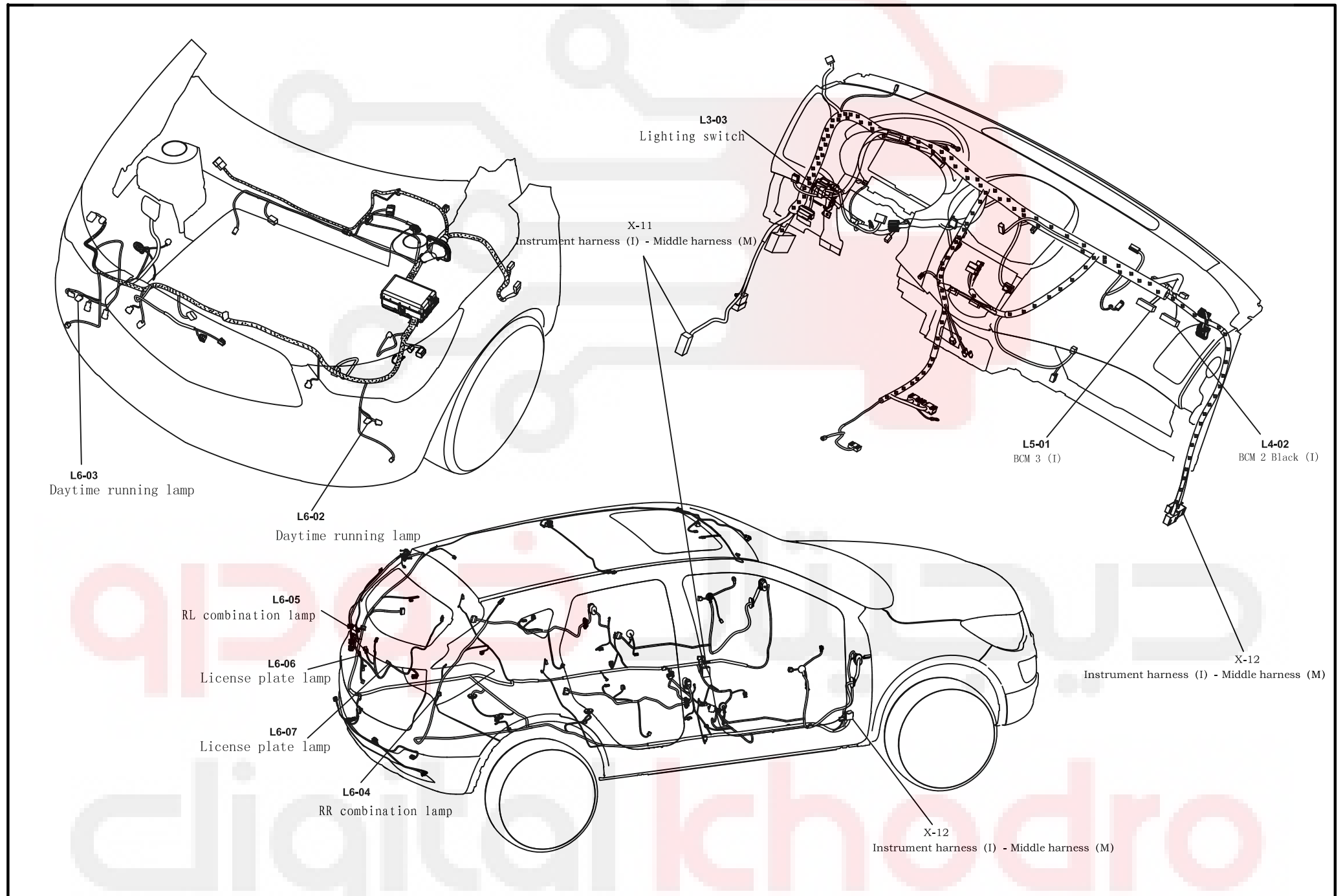


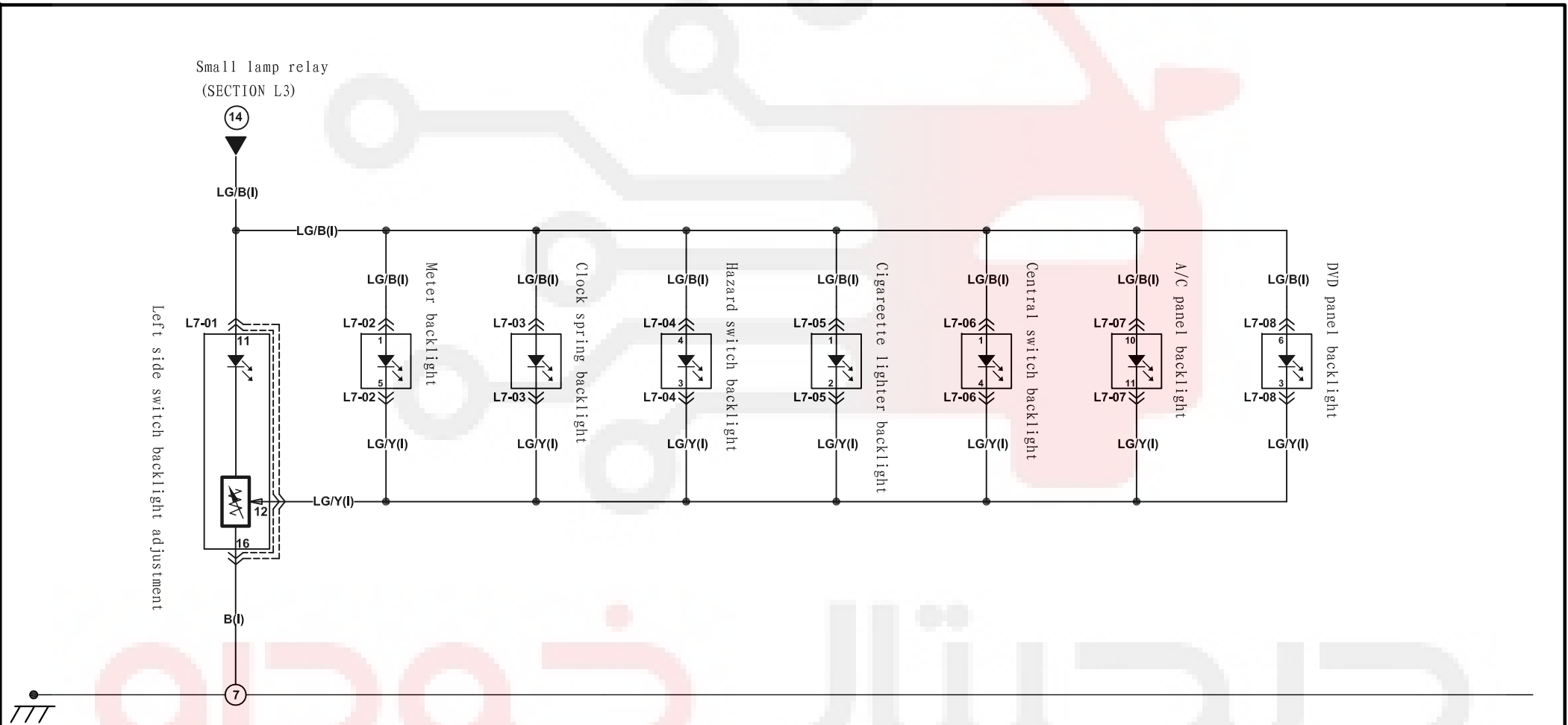


L5-01 BCM 3 (I)		L5-03 RL door control switch (I)		L5-05 FR door lamp (DR2)		L5-06 Right welcome lamp (M)		L5-11 Trunk lamp (M)																																																																																	
<table border="1"><tr><td>20</td><td>19</td><td>18</td><td>17</td><td>16</td><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr><tr><td>L</td><td>*</td><td>*</td><td>*</td><td>*</td><td>*</td><td></td><td>*</td><td>*</td><td>*</td><td>*</td><td>*</td><td>P/L</td><td>R/L</td><td>*</td><td>*</td><td></td><td>*</td><td>*</td><td>*</td></tr><tr><td>40</td><td>39</td><td>38</td><td>37</td><td>36</td><td>35</td><td>34</td><td>33</td><td>32</td><td>31</td><td>30</td><td>29</td><td>28</td><td>27</td><td>26</td><td>25</td><td>24</td><td>23</td><td>22</td><td>21</td></tr><tr><td>*</td><td>*</td><td></td><td>*</td><td></td><td>GR</td><td>B/W</td><td>L/R</td><td>*</td><td>*</td><td>R/G</td><td>P/L</td><td>*</td><td></td><td>L/W</td><td>*</td><td>GR/R</td><td></td><td>*</td><td>*</td></tr></table>		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	L	*	*	*	*	*		*	*	*	*	*	P/L	R/L	*	*		*	*	*	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	*	*		*		GR	B/W	L/R	*	*	R/G	P/L	*		L/W	*	GR/R		*	*	L5-04 RR door control switch (I)							
20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1																																																																						
L	*	*	*	*	*		*	*	*	*	*	P/L	R/L	*	*		*	*	*																																																																						
40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21																																																																						
*	*		*		GR	B/W	L/R	*	*	R/G	P/L	*		L/W	*	GR/R		*	*																																																																						
L5-01 Hazard warning lamp switch (I)		L5-04 RR door control switch (I)		L5-07 FR door control switch (I)		L5-08 FL door lamp (DR1)		L5-09 Left welcome lamp (M)		L5-12 Trunk lamp switch (W)																																																																															

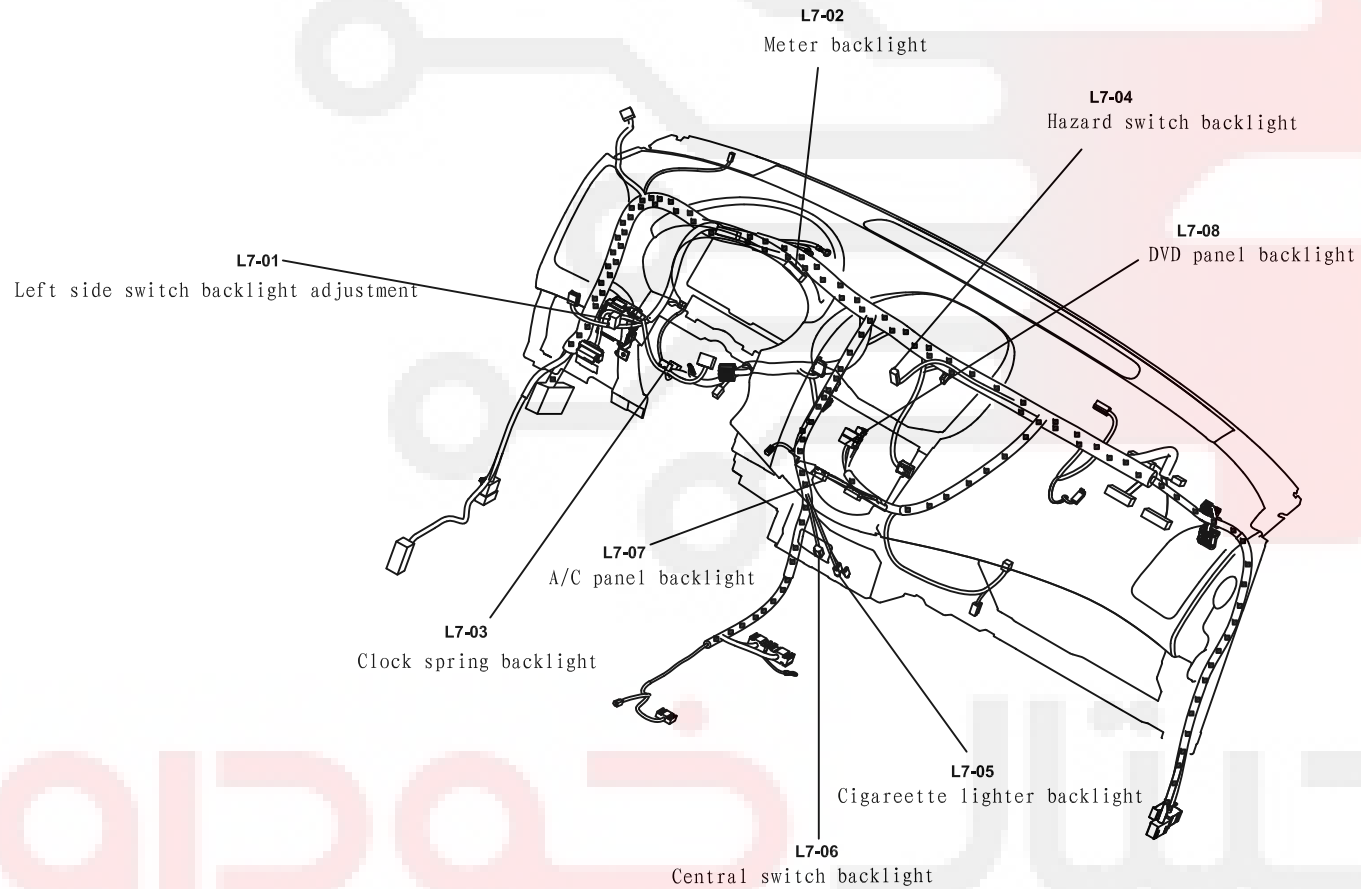


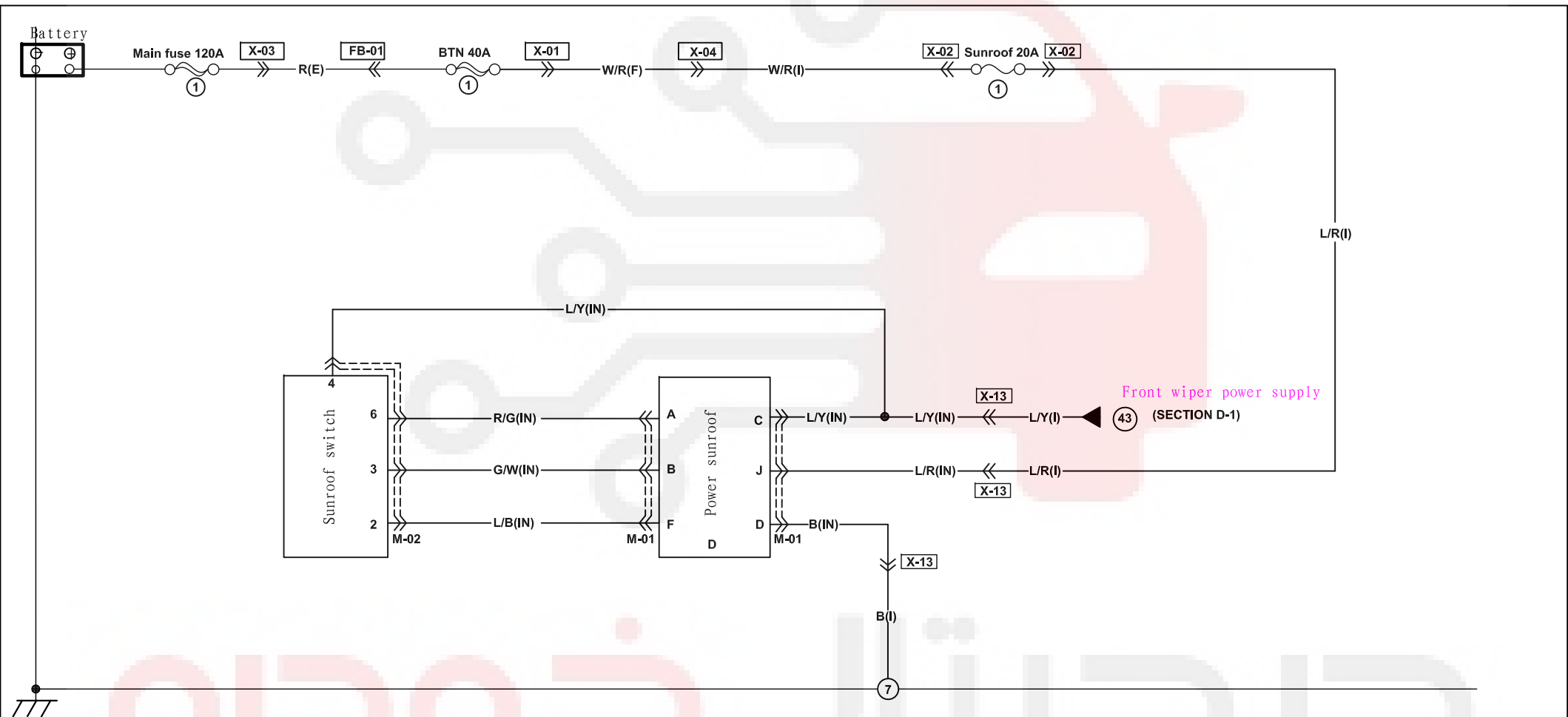




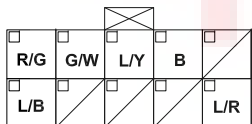


L7-01 Left switch(I) 	L7-02 Combination instrument1(yellow) (I) 	L7-04 Hazard switch backlight(I) 	L7-06 Central switch backlight(I) 	L7-05 Cigarette lighter backlight (I)
L7-07 A/C panel C(I) 	L7-03 Clock spring backlight (I) 	L7-08 DVD panel backlight A (I) 		

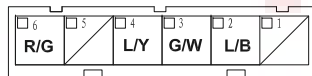


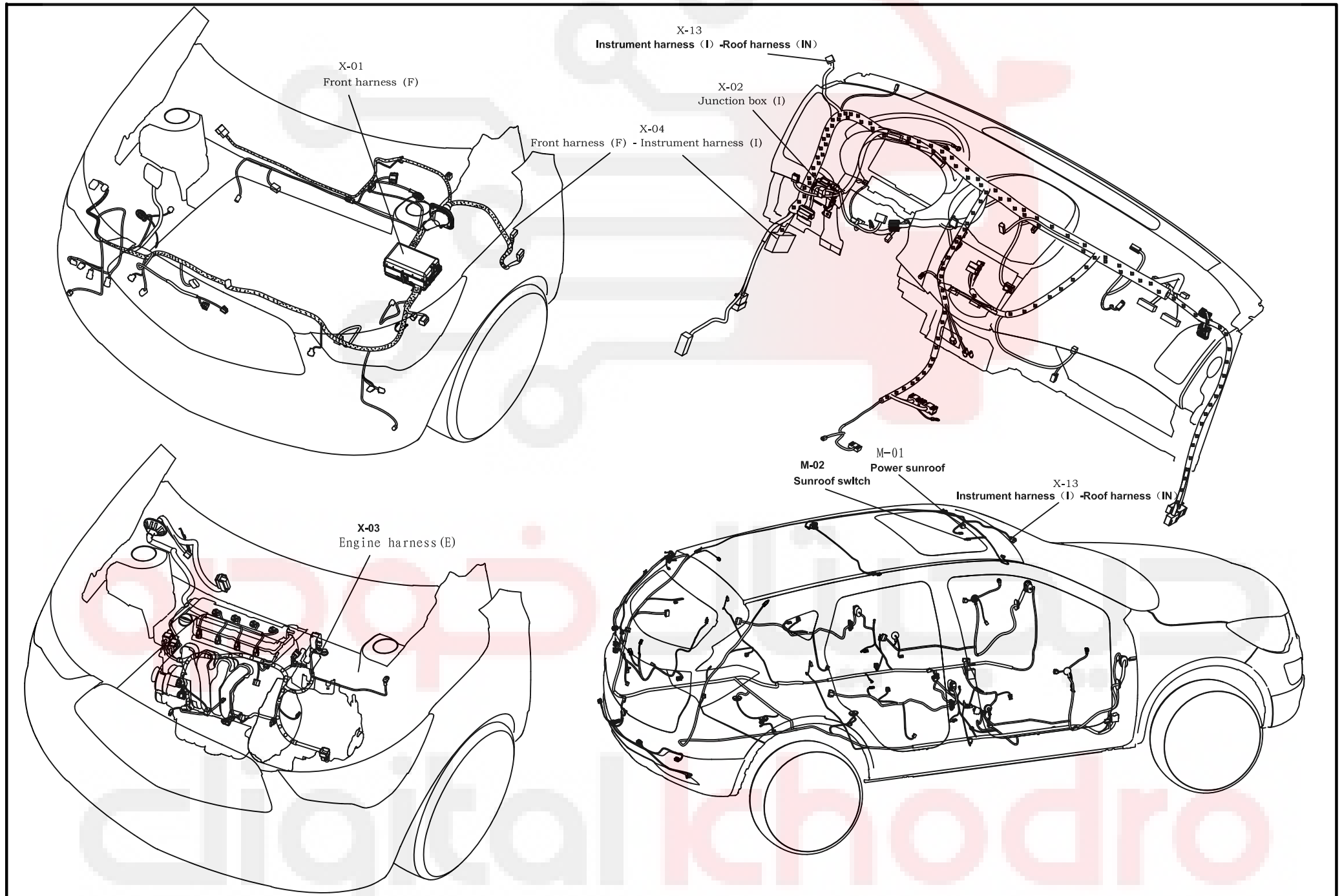


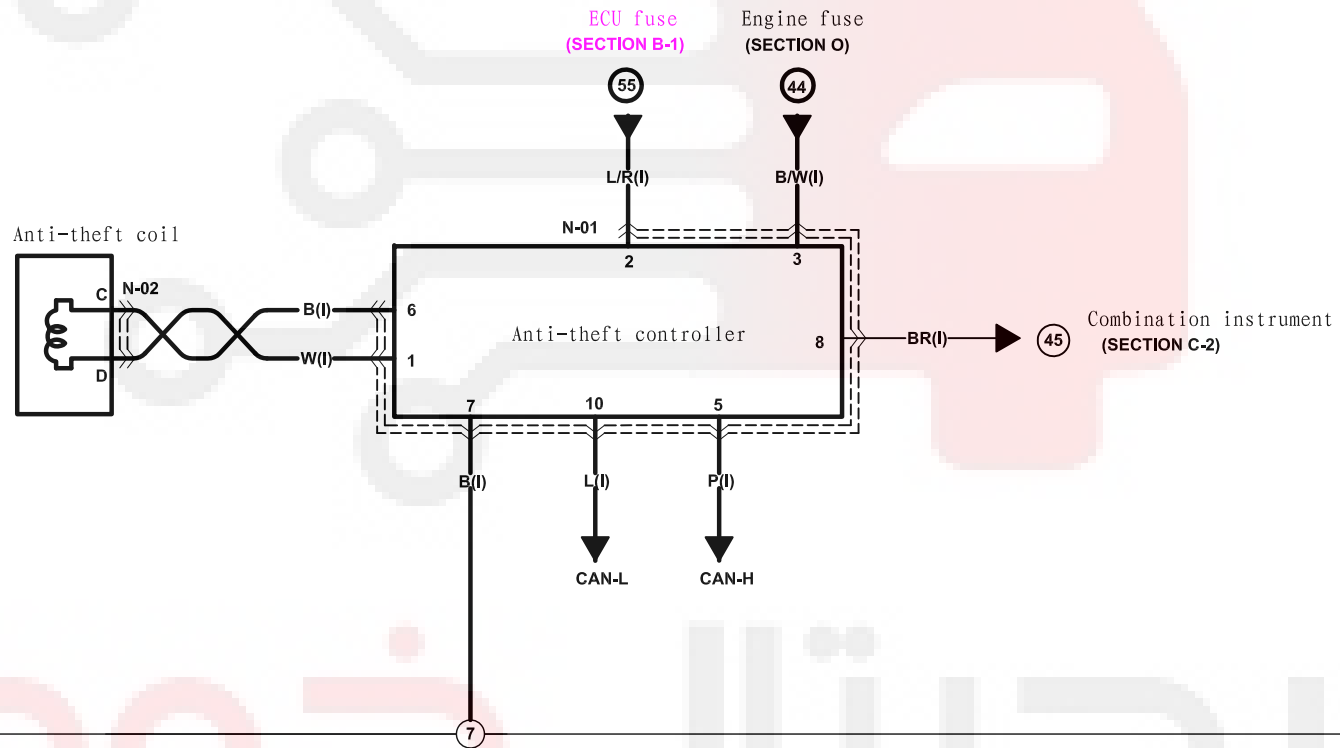
M-01	Power sunroof (IN)
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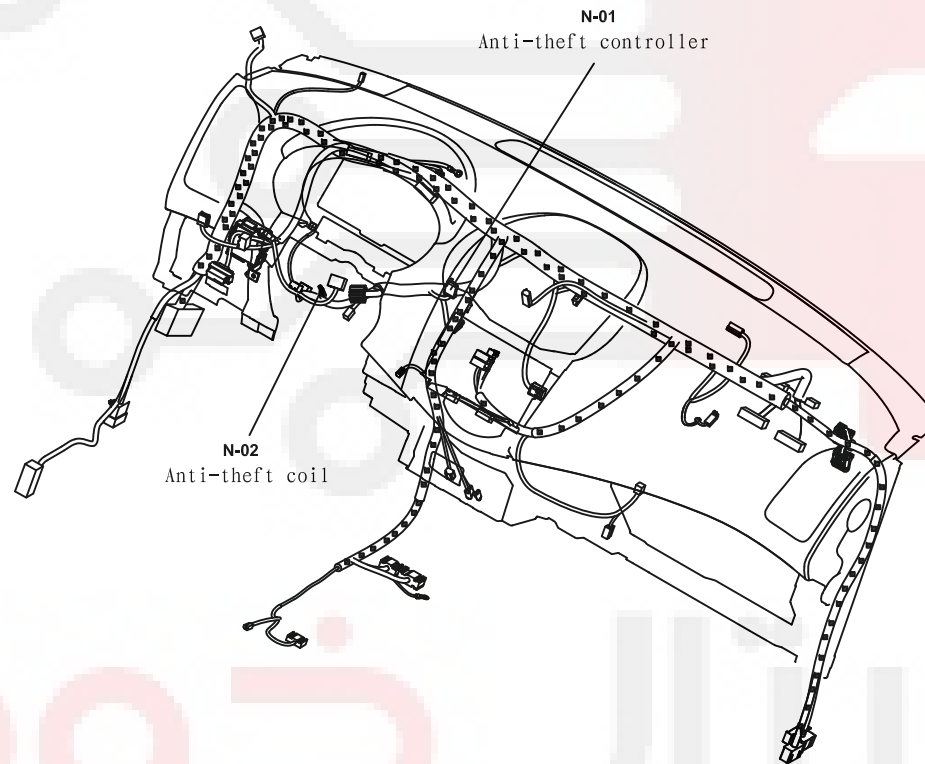
M-02	Power sunroof (IN)
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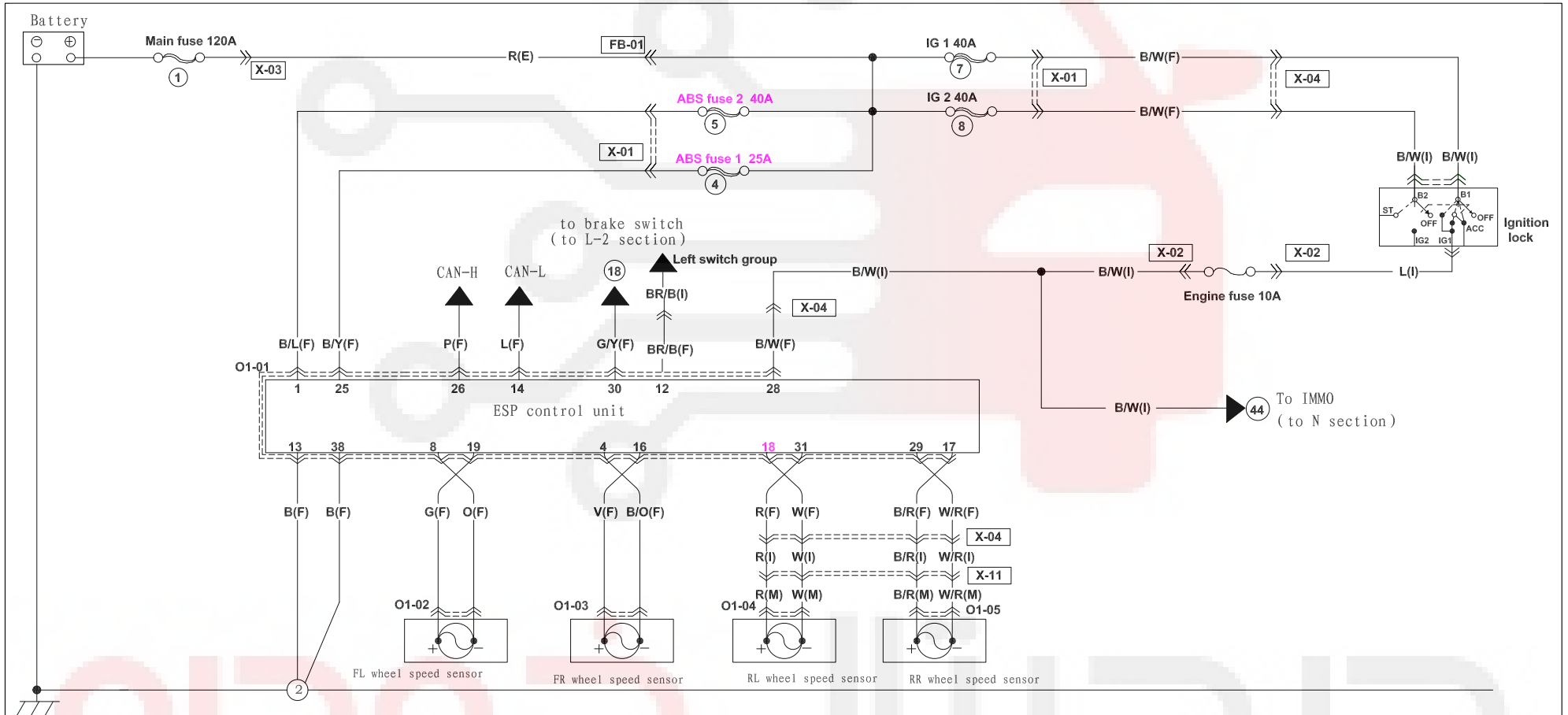


☐ A	☐ B	☐ C	☐ D
*	*	B	W

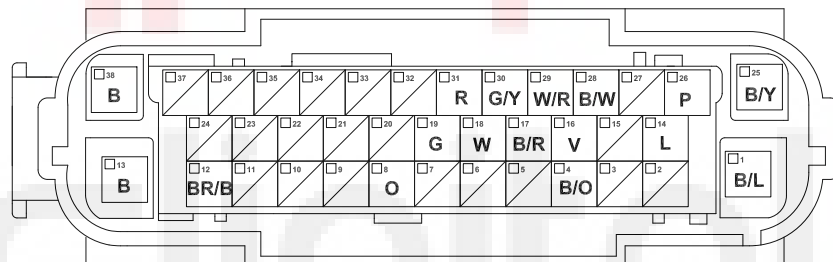


ESP

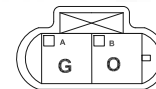
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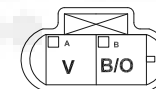
O1-01 ESP control unit



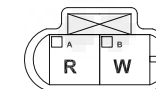
O1-02 FL wheel speed sensor



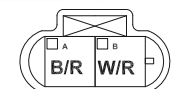
O1-03 FR wheel speed sensor

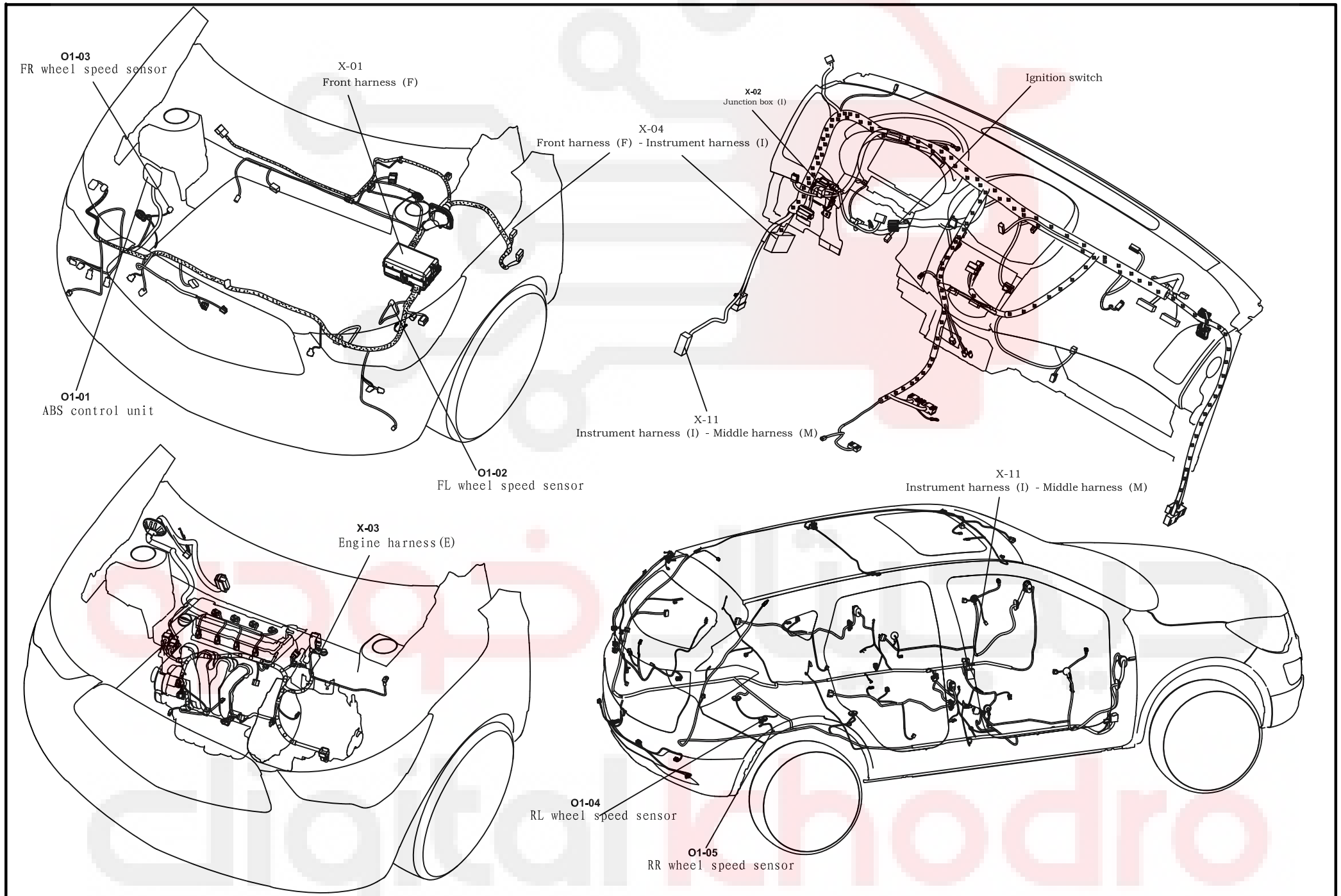


O1-04 RL wheel speed sensor



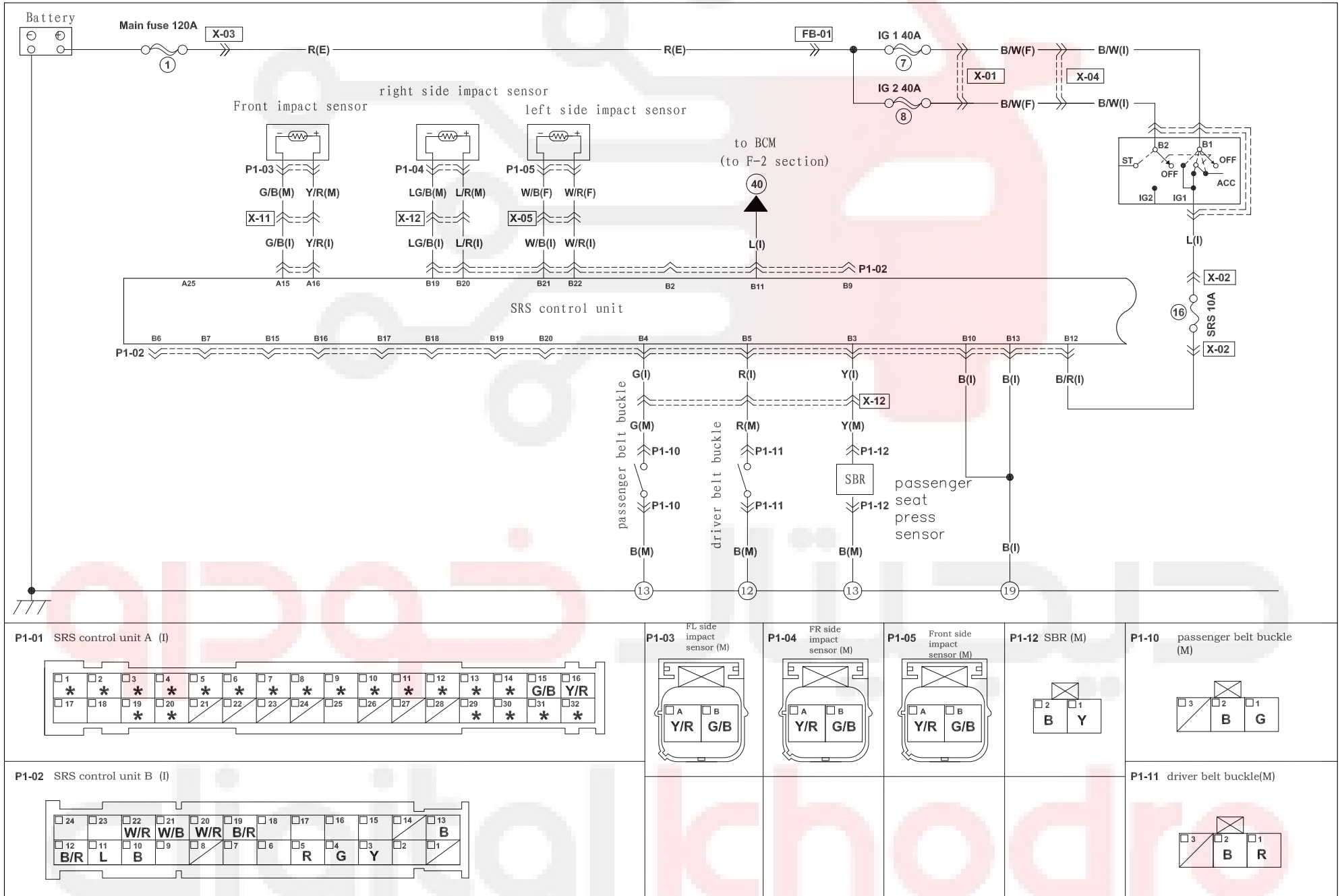
O1-05 RR wheel speed sensor

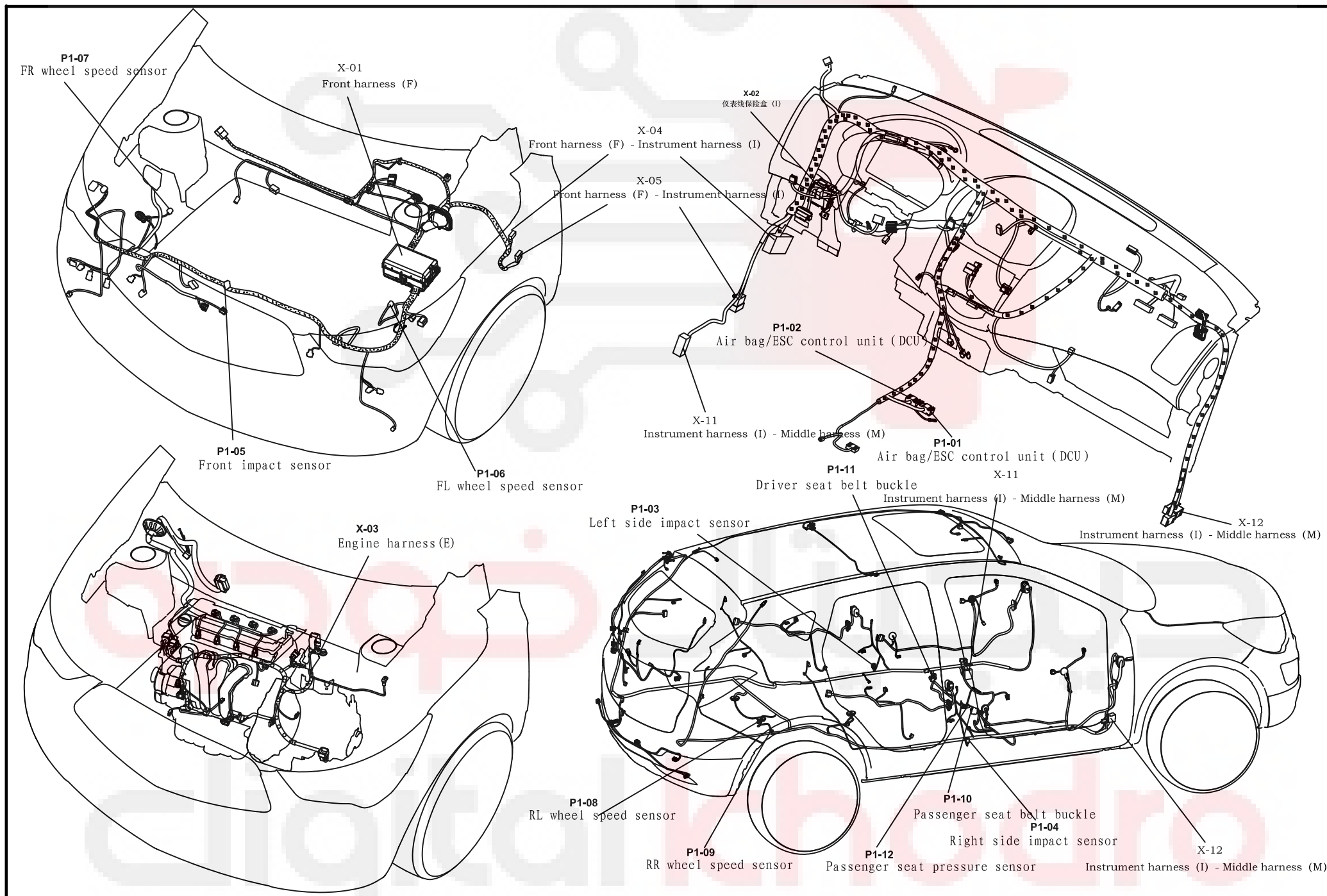


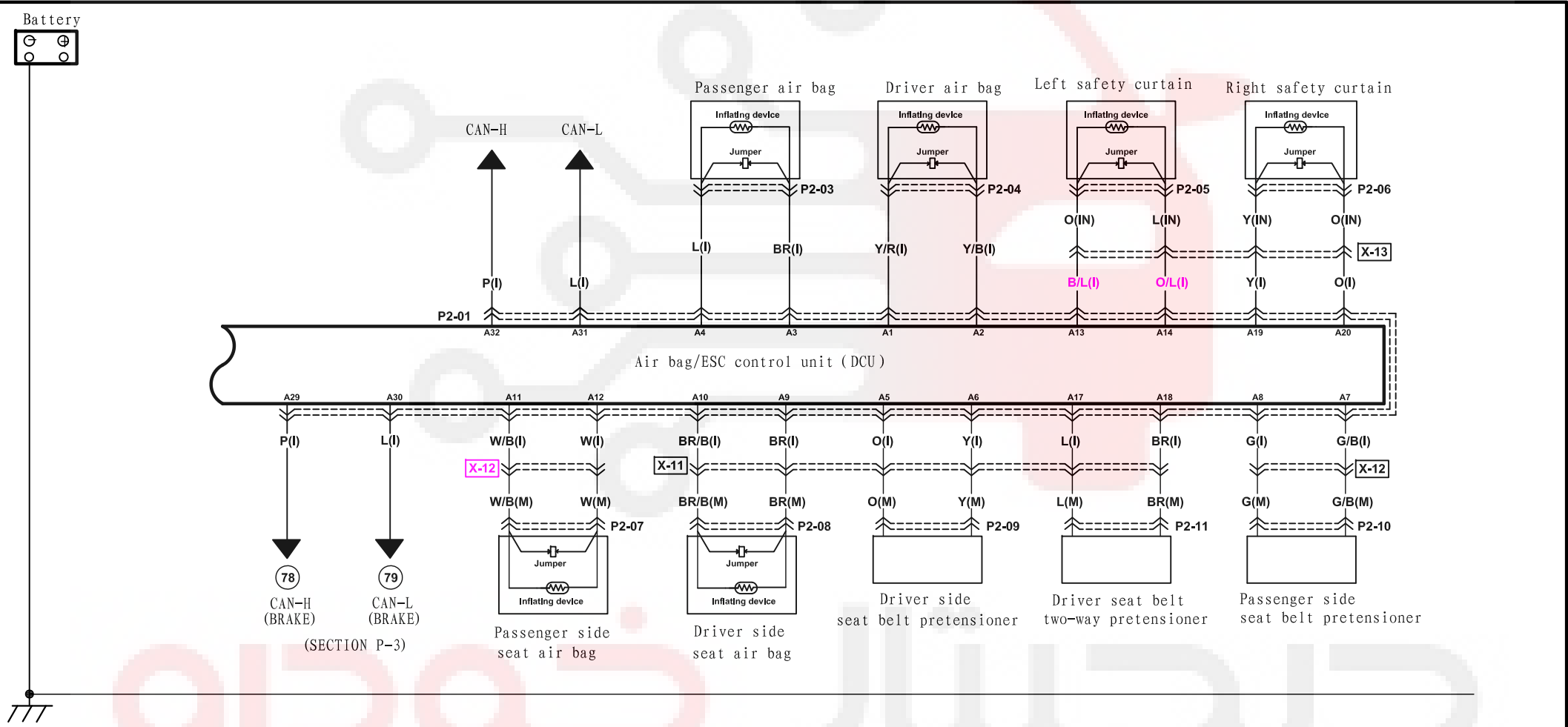


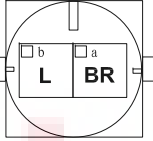
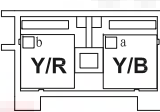
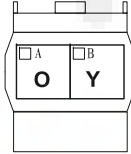
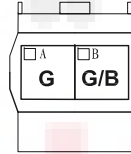
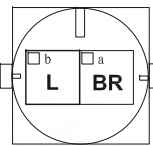
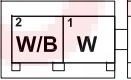
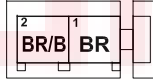
SRS

P-1

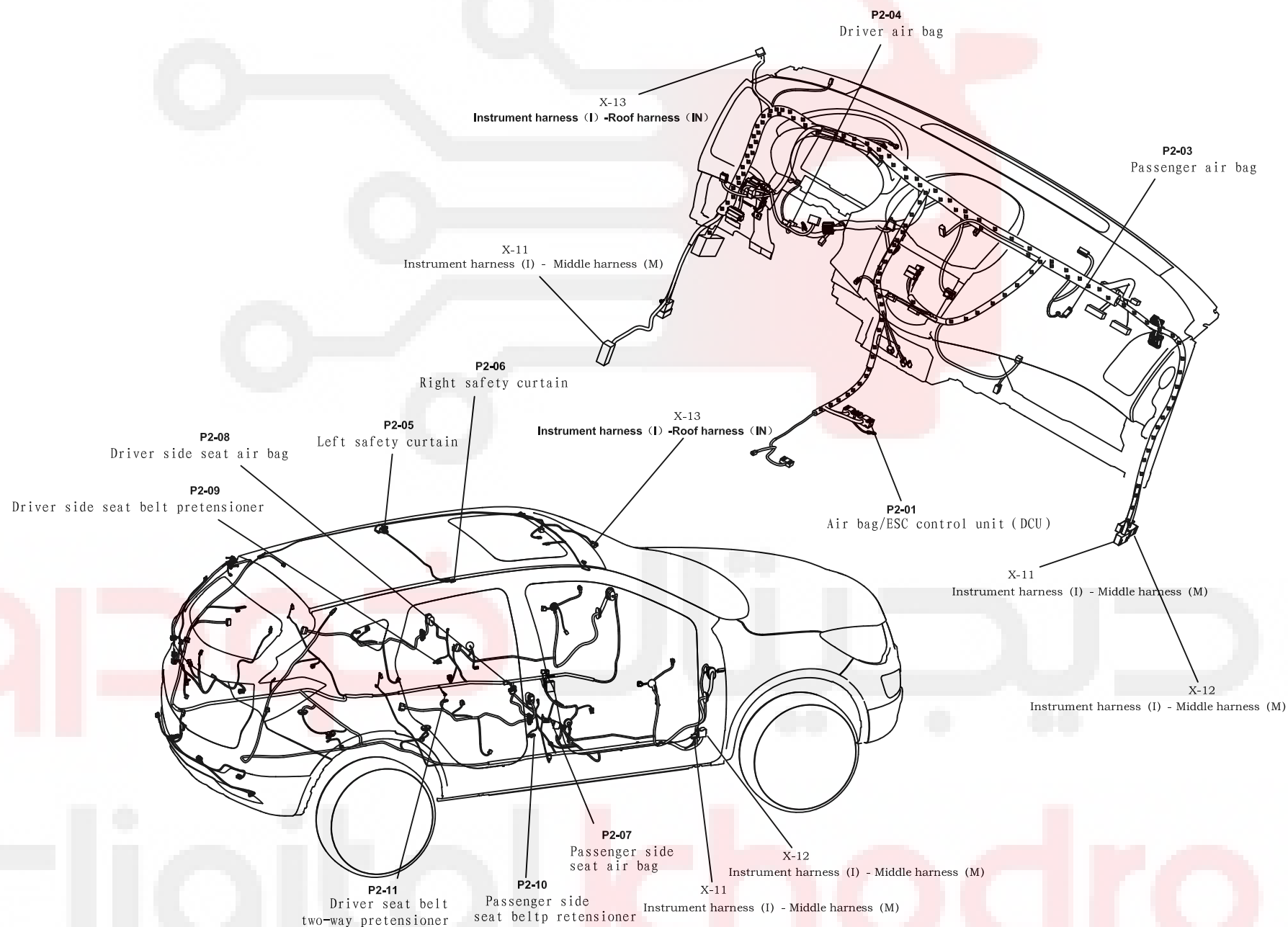


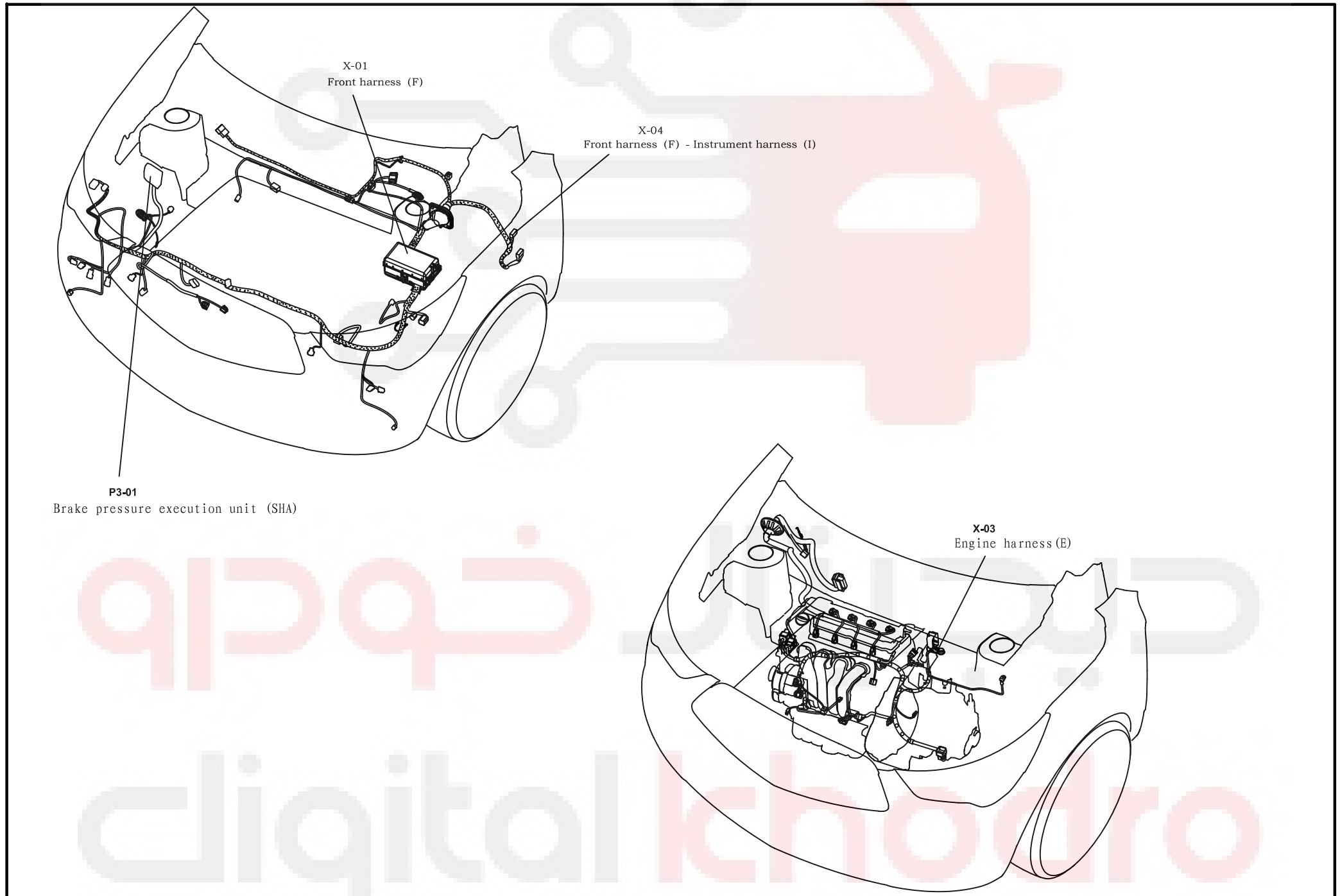




P2-01 Air bag/ESC control unit (DCU) A (I)	<table><tr><td>☐ 1</td><td>☐ 2</td><td>☐ 3</td><td>☐ 4</td><td>☐ 5</td><td>☐ 6</td><td>☐ 7</td><td>☐ 8</td><td>☐ 9</td><td>☐ 10</td><td>☐ 11</td><td>☐ 12</td><td>☐ 13</td><td>☐ 14</td><td>☐ 15</td><td>☐ 16</td></tr><tr><td>Y/R</td><td>Y/B</td><td>BR</td><td>L</td><td>O</td><td>Y</td><td>G/B</td><td>G</td><td>BR</td><td>BR/B</td><td>W/B</td><td>W</td><td>B/L</td><td>O/L</td><td>*</td><td>*</td></tr><tr><td>☐ 17</td><td>☐ 18</td><td>☐ 19</td><td>☐ 20</td><td>☐ 21</td><td>☐ 22</td><td>☐ 23</td><td>☐ 24</td><td>☐ 25</td><td>☐ 26</td><td>☐ 27</td><td>☐ 28</td><td>☐ 29</td><td>☐ 30</td><td>☐ 31</td><td>☐ 32</td></tr><tr><td>L</td><td>BR</td><td>Y</td><td>O</td><td></td><td></td><td></td><td></td><td>*</td><td></td><td></td><td></td><td>P</td><td>L</td><td>L</td><td>P</td></tr></table>	☐ 1	☐ 2	☐ 3	☐ 4	☐ 5	☐ 6	☐ 7	☐ 8	☐ 9	☐ 10	☐ 11	☐ 12	☐ 13	☐ 14	☐ 15	☐ 16	Y/R	Y/B	BR	L	O	Y	G/B	G	BR	BR/B	W/B	W	B/L	O/L	*	*	☐ 17	☐ 18	☐ 19	☐ 20	☐ 21	☐ 22	☐ 23	☐ 24	☐ 25	☐ 26	☐ 27	☐ 28	☐ 29	☐ 30	☐ 31	☐ 32	L	BR	Y	O					*				P	L	L	P	P2-03 Passenger air bag (M) 	P2-04 Driver air bag (I) 	P2-09 Driver side seat belt pretensioner (M) 	P2-10 Passenger side seat belt pretensioner (M) 	P2-11 Driver seat belt two-way pretensioner (M) 
☐ 1	☐ 2	☐ 3	☐ 4	☐ 5	☐ 6	☐ 7	☐ 8	☐ 9	☐ 10	☐ 11	☐ 12	☐ 13	☐ 14	☐ 15	☐ 16																																																							
Y/R	Y/B	BR	L	O	Y	G/B	G	BR	BR/B	W/B	W	B/L	O/L	*	*																																																							
☐ 17	☐ 18	☐ 19	☐ 20	☐ 21	☐ 22	☐ 23	☐ 24	☐ 25	☐ 26	☐ 27	☐ 28	☐ 29	☐ 30	☐ 31	☐ 32																																																							
L	BR	Y	O					*				P	L	L	P																																																							
	P2-05 Left safety curtain (IN) 	P2-06 Right safety curtain (IN) 	P2-07 Passenger side seat air bag (M) 	P2-08 Driver side seat air bag (M) 																																																																		

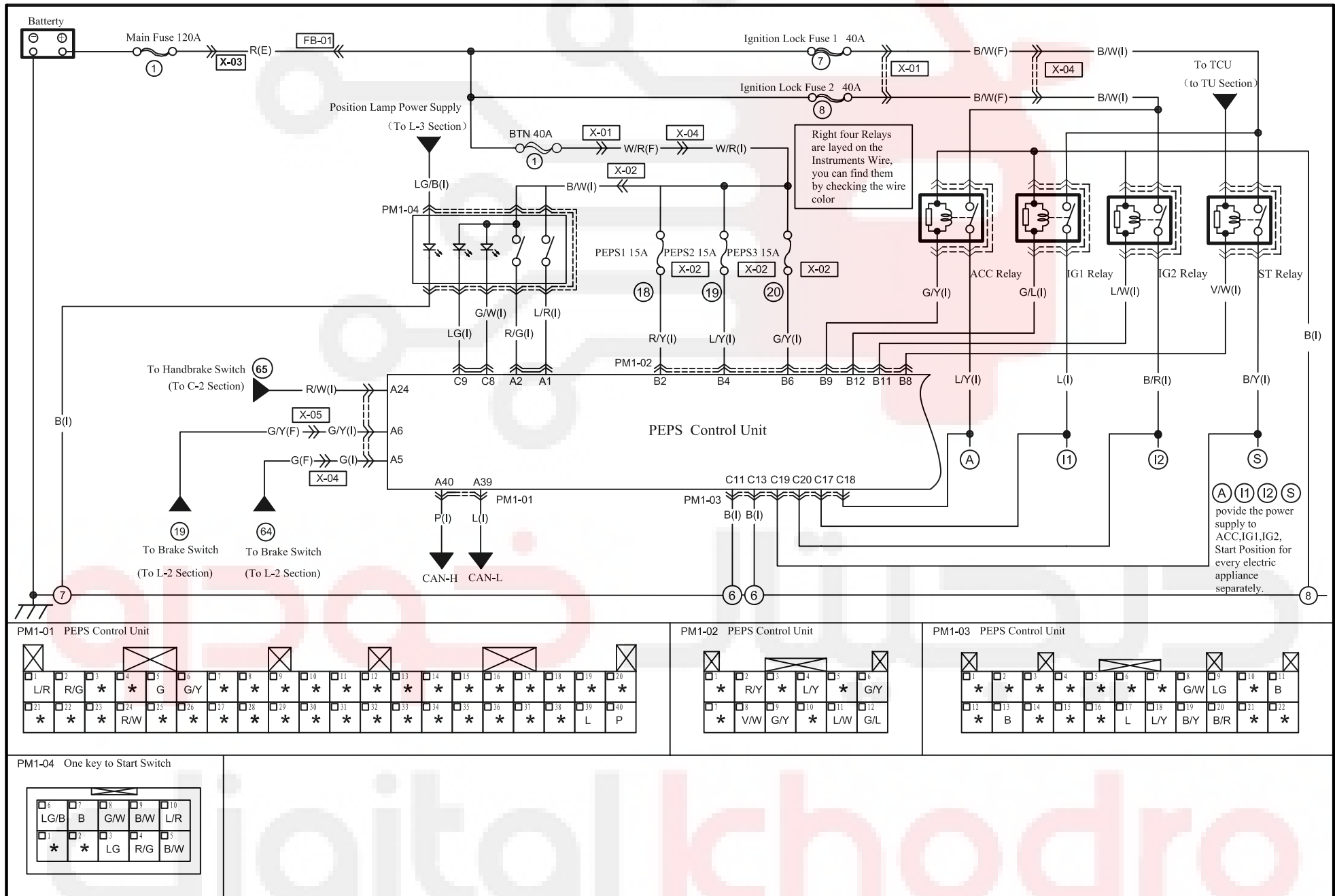
Harness mark :  F  I  E

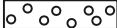




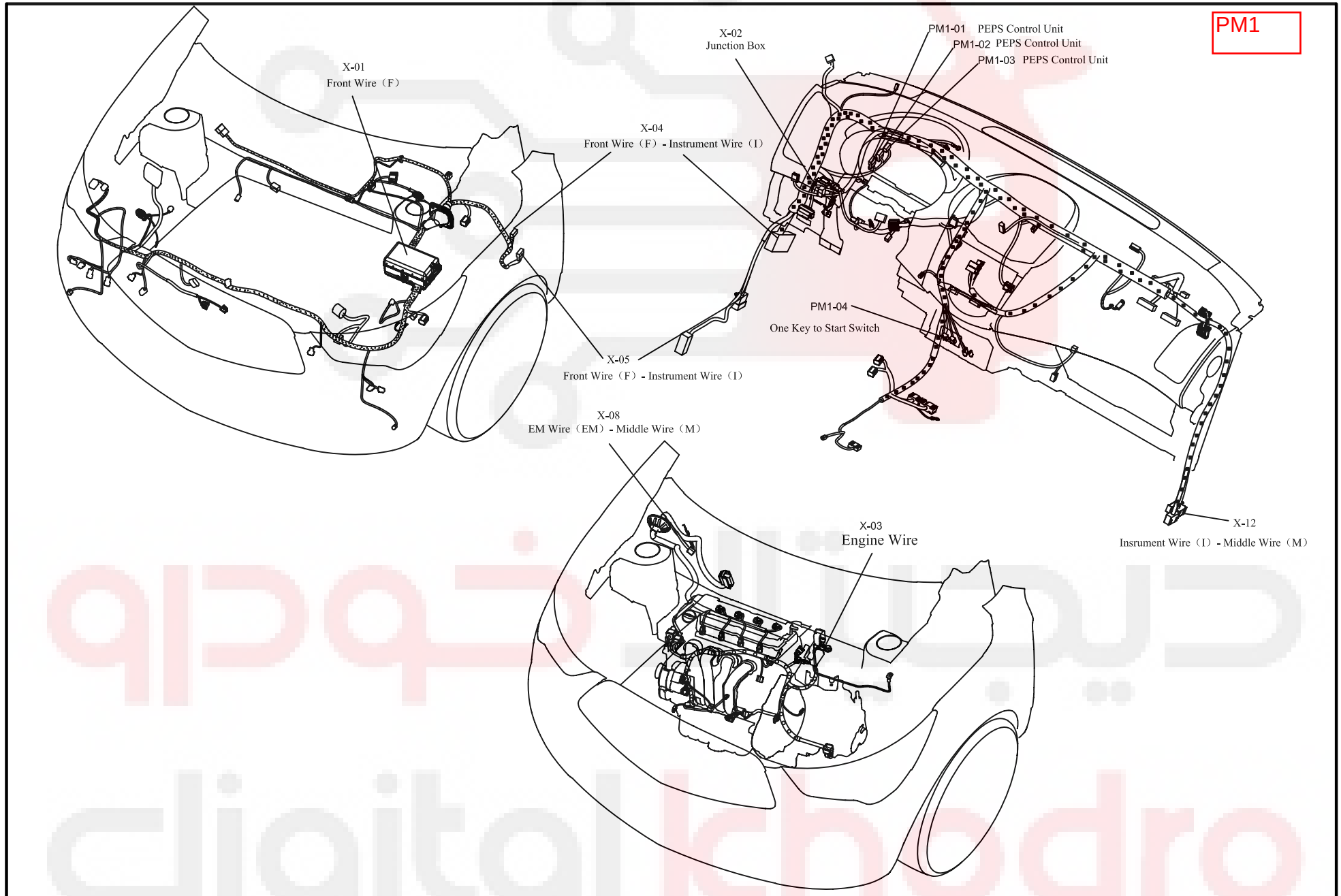
PEPS

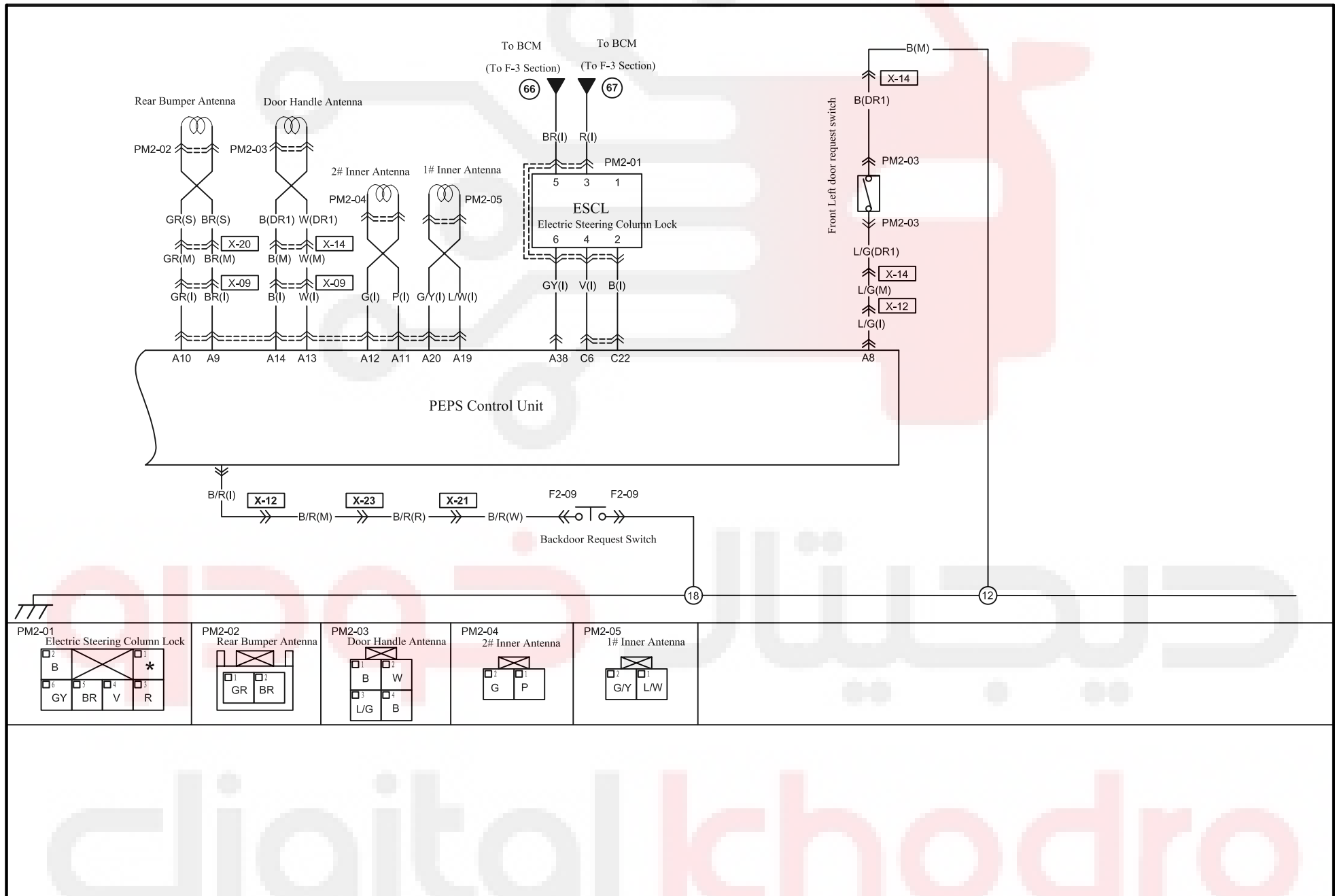
PM-1

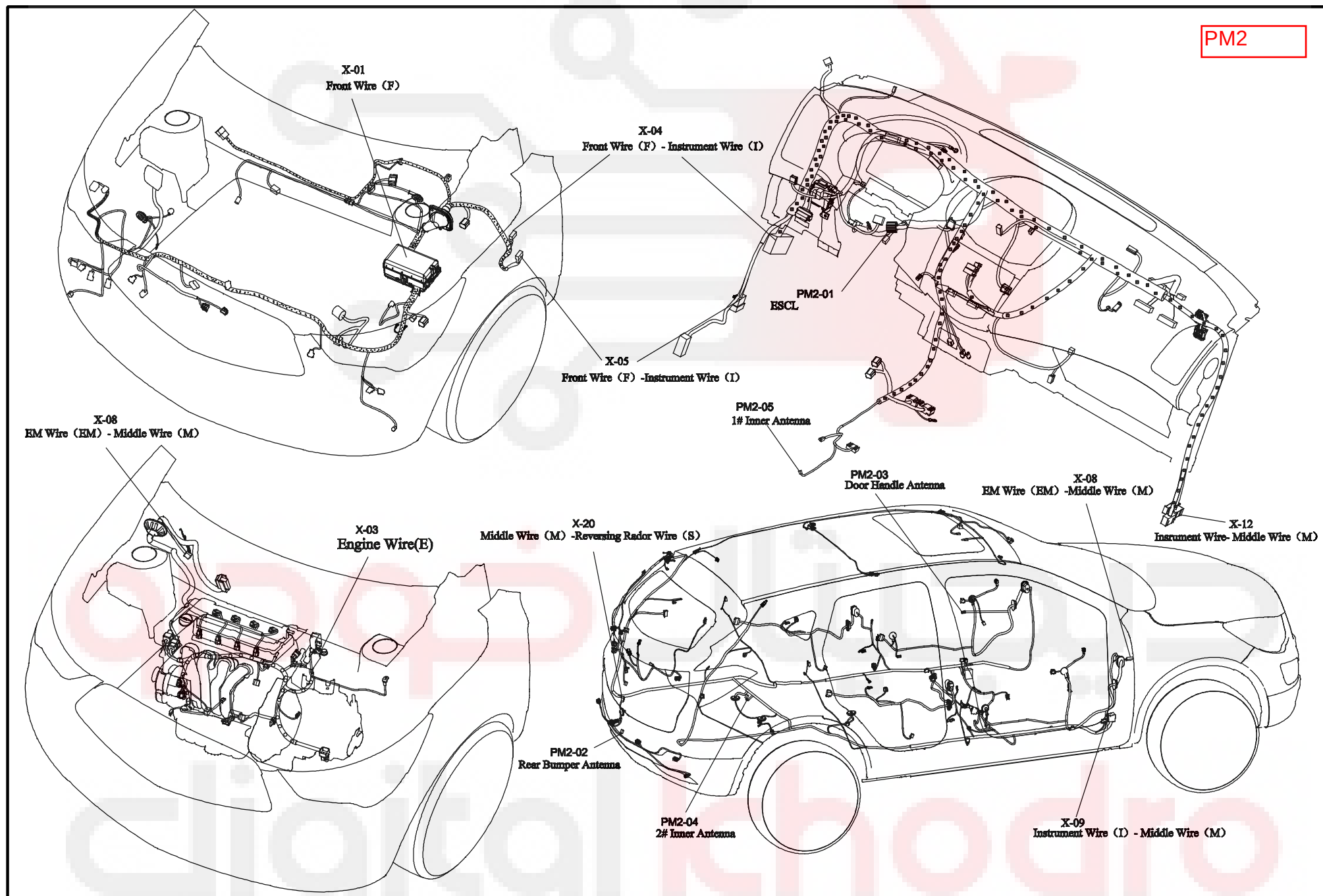


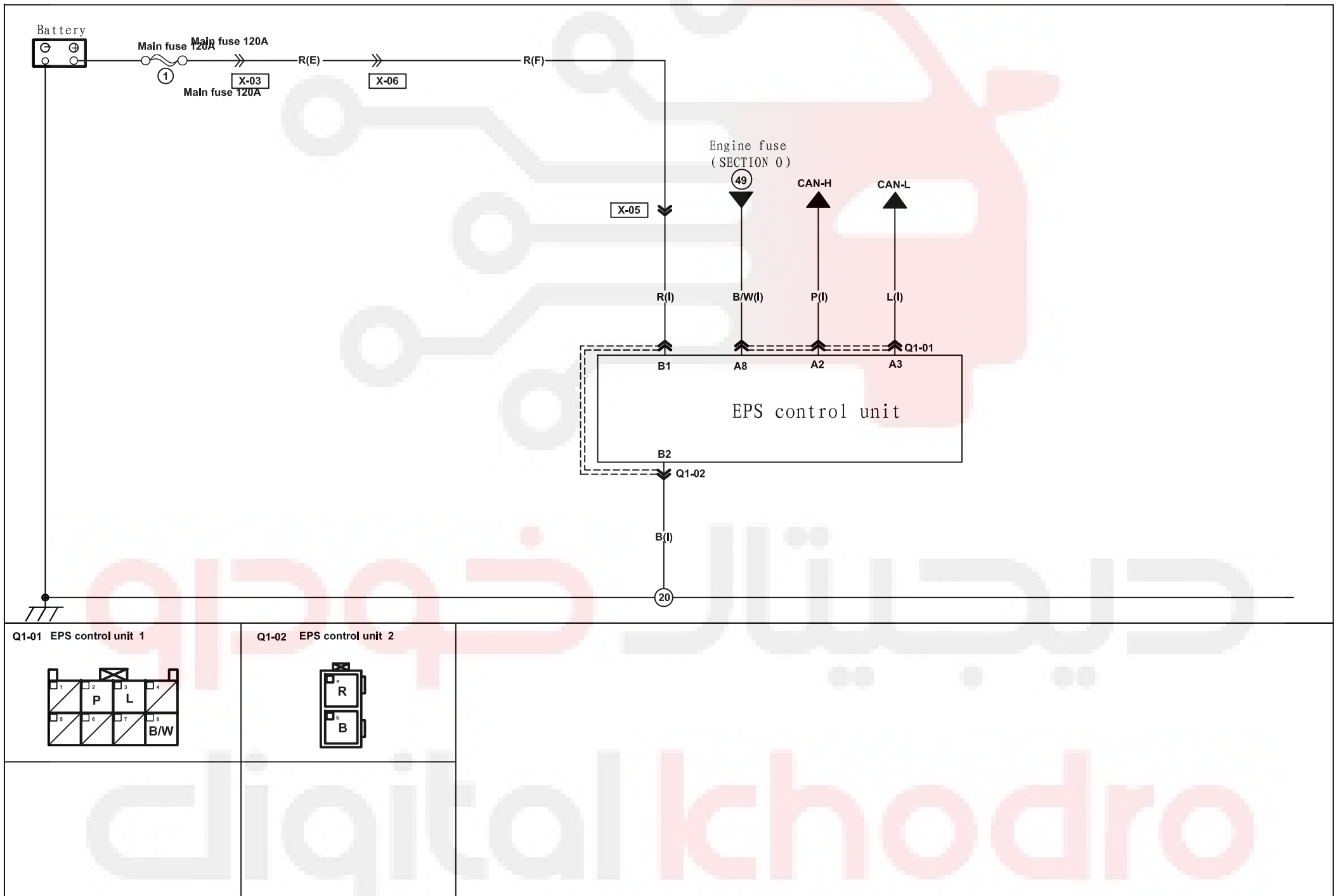
Wire Mark:  F  I  E

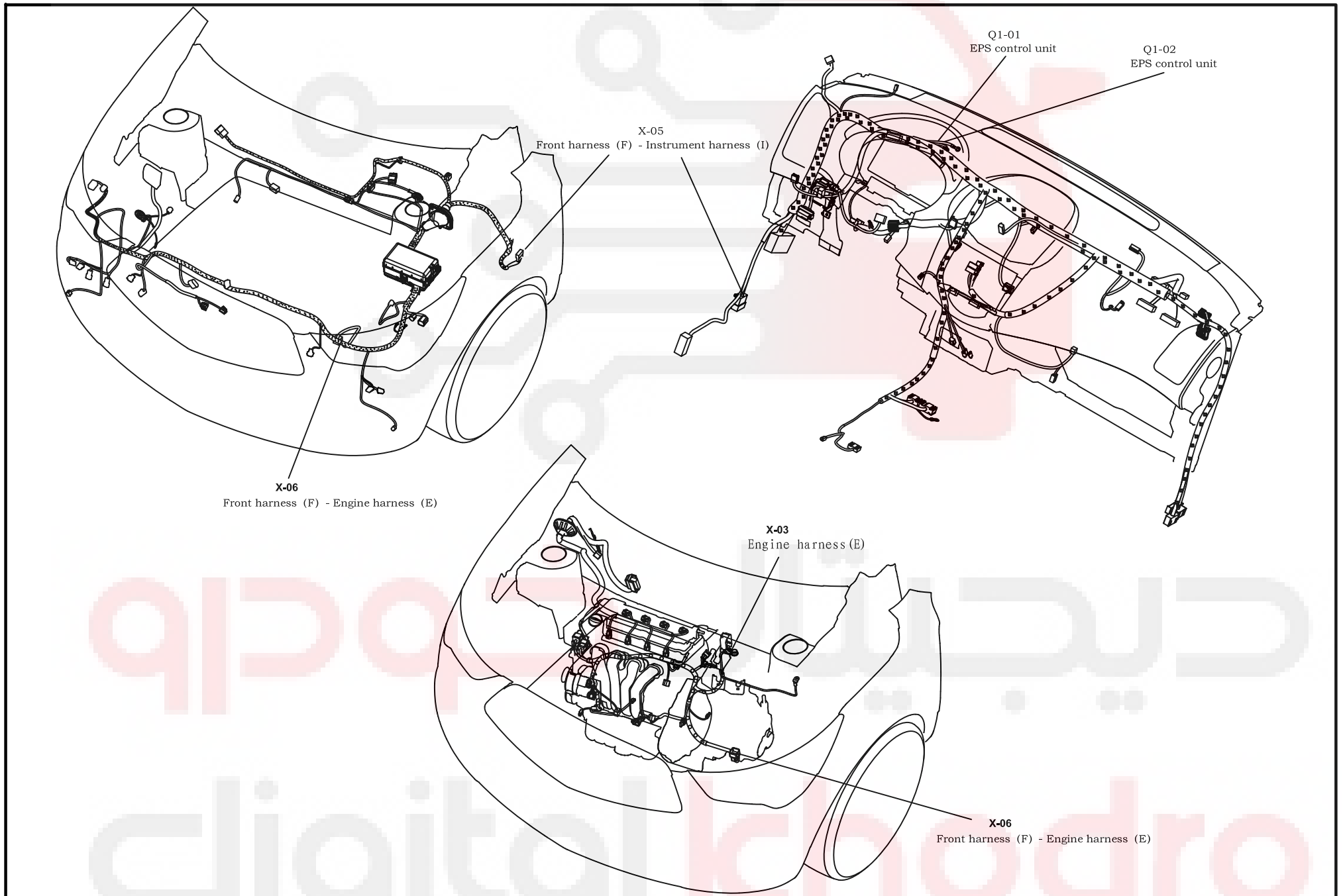
PM1

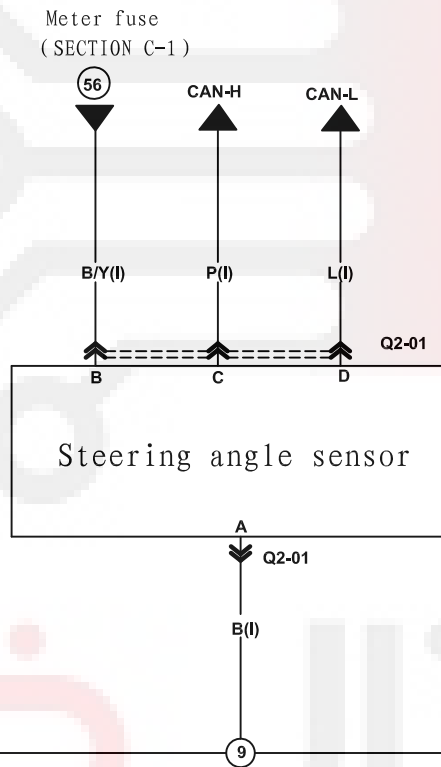




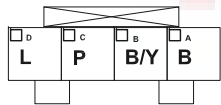




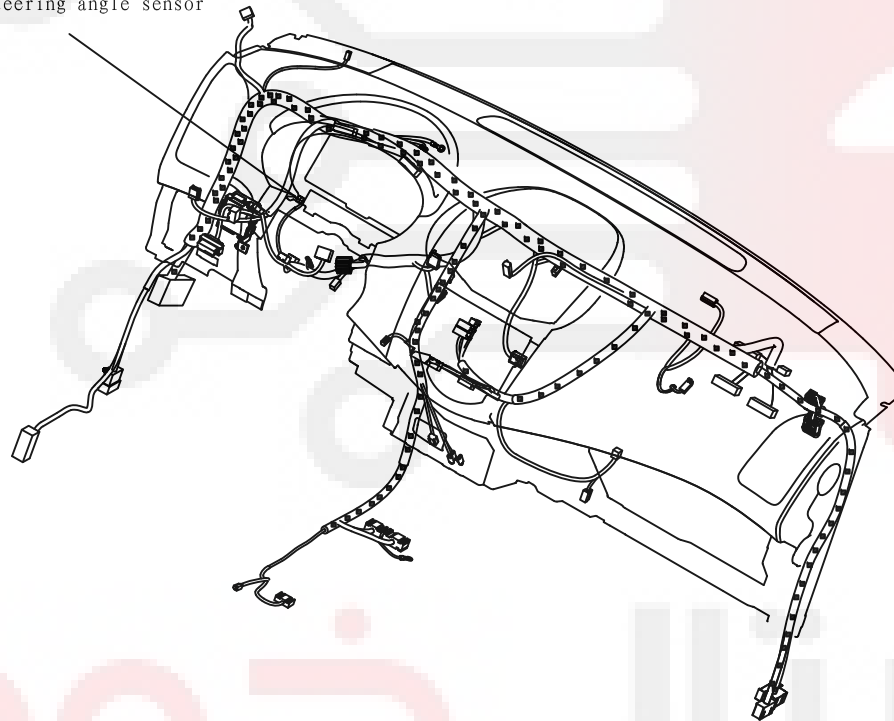


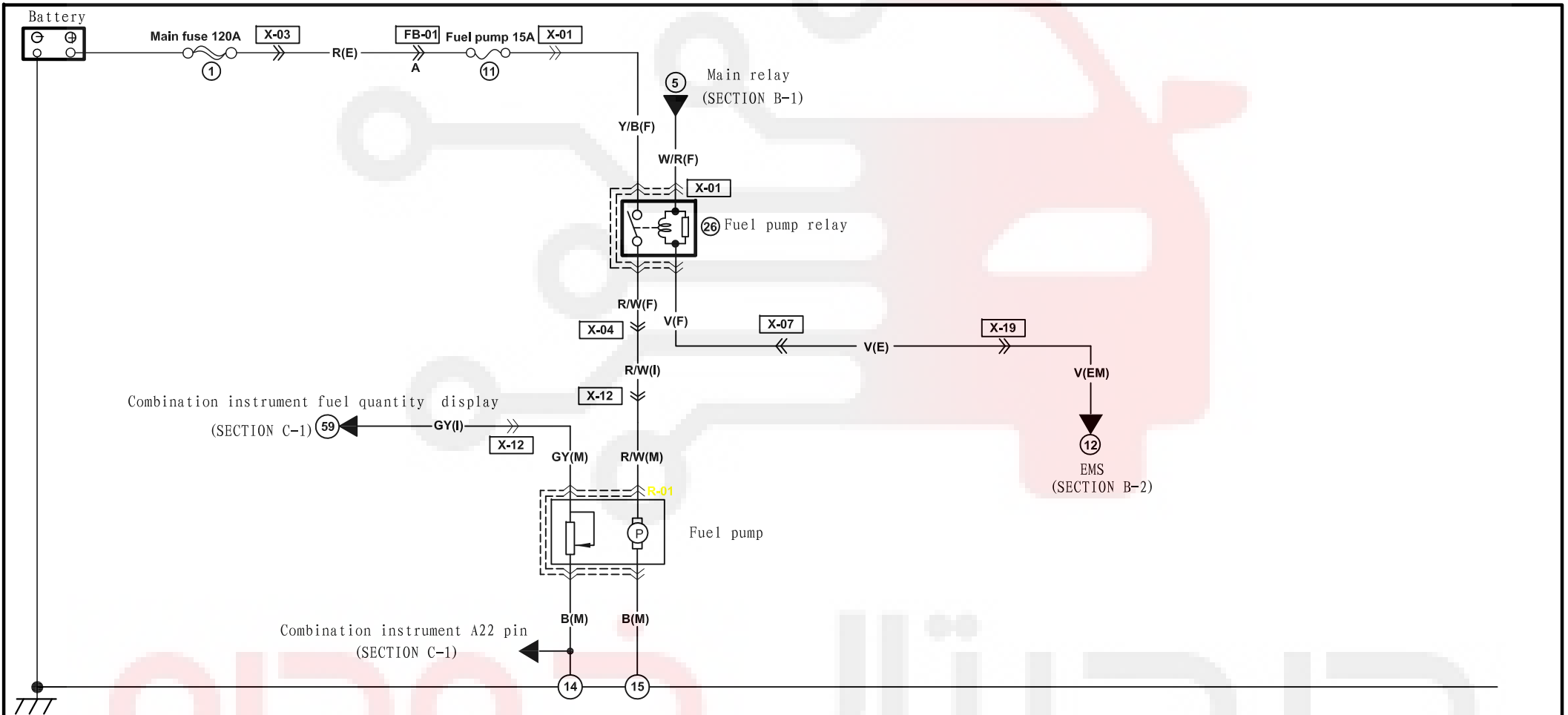


Q2-01 Steering angle sensor

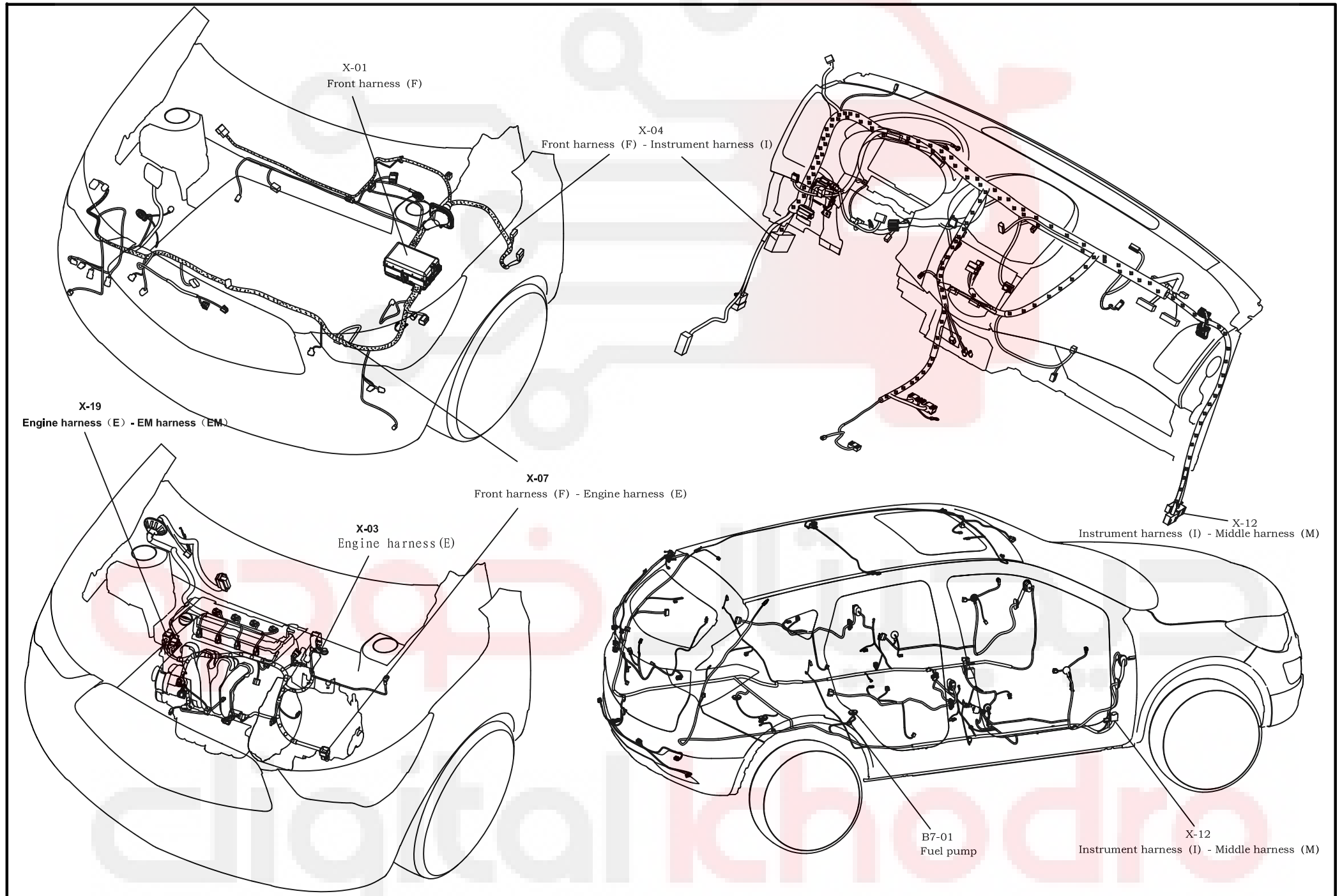


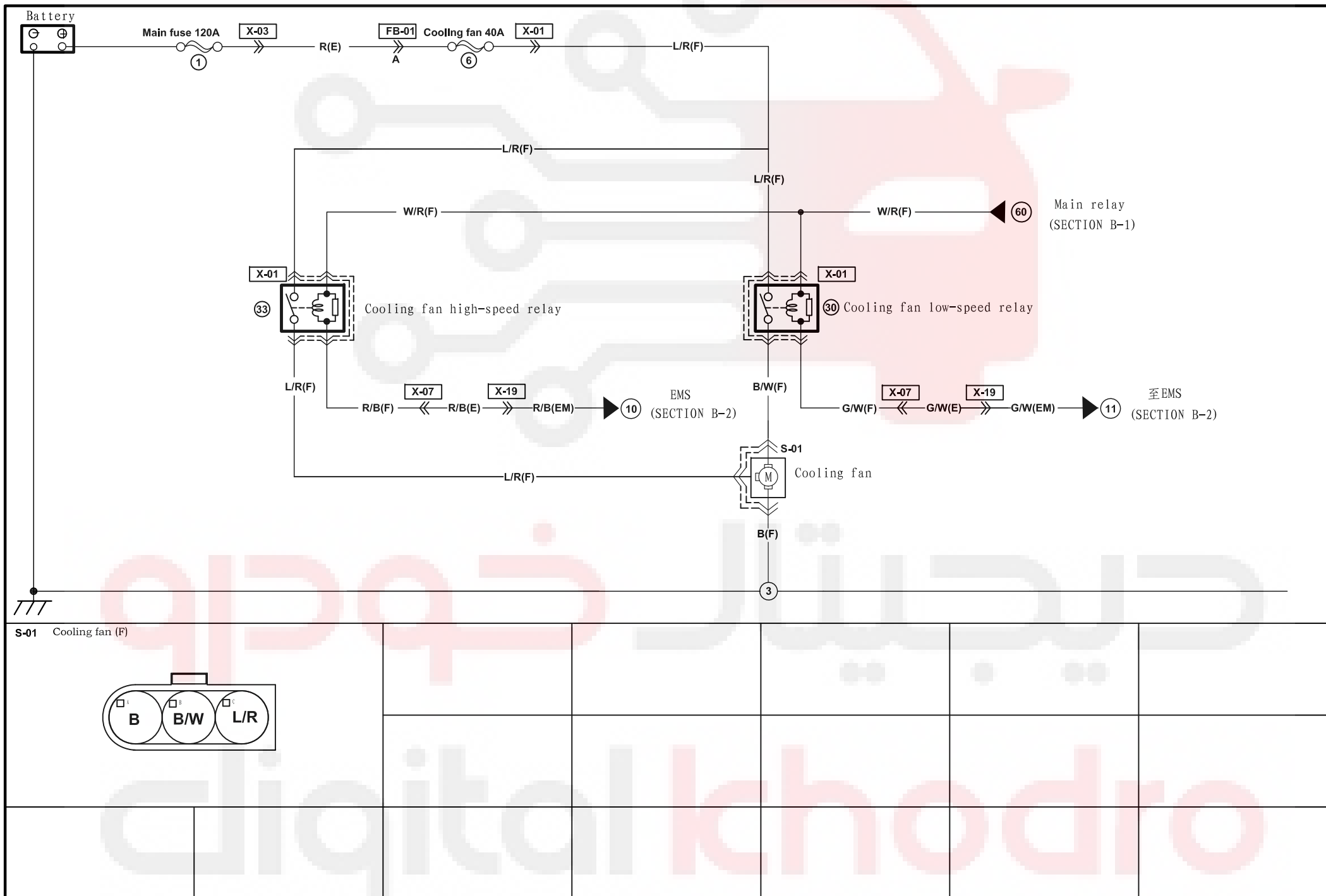
Q2-01
Steering angle sensor

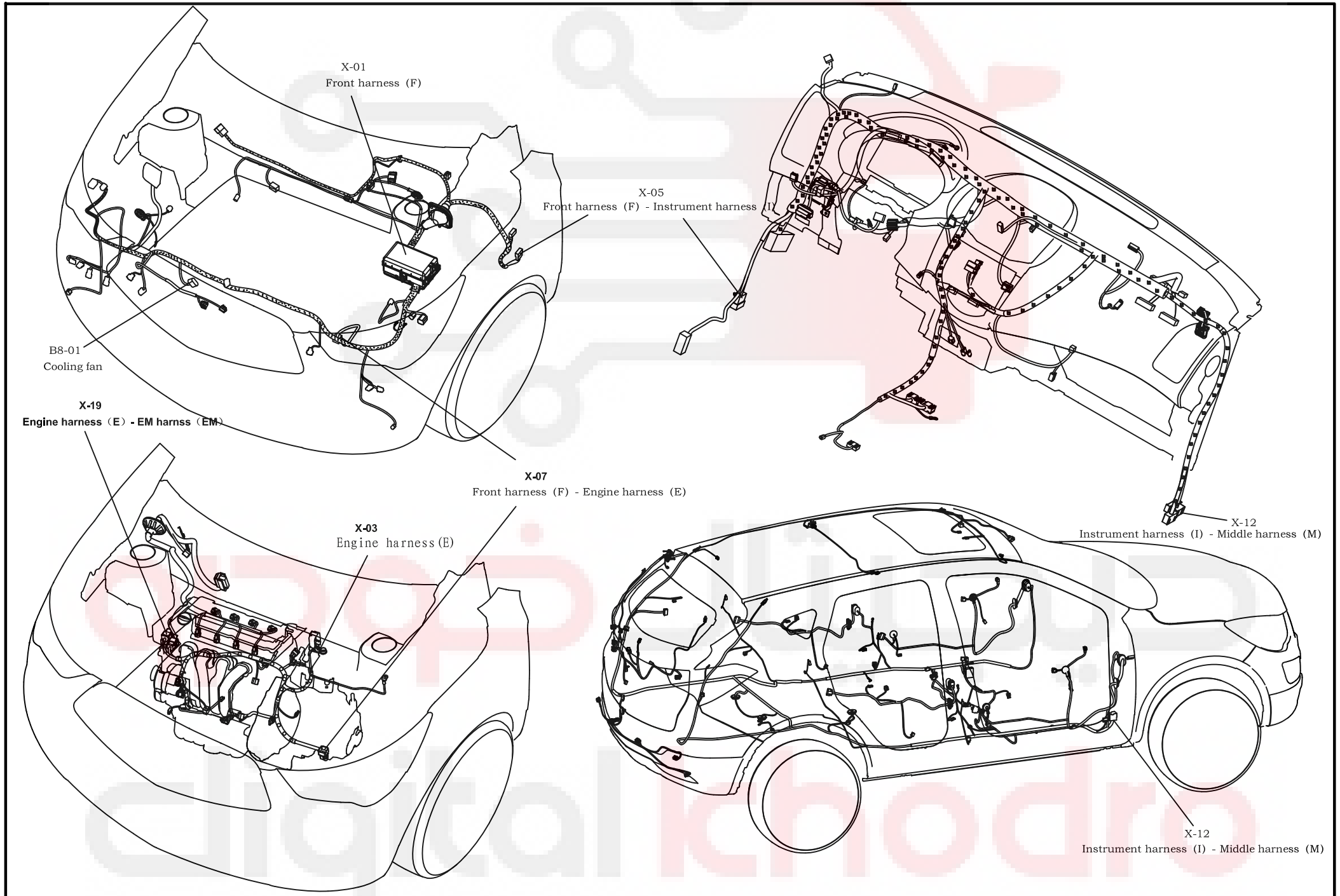


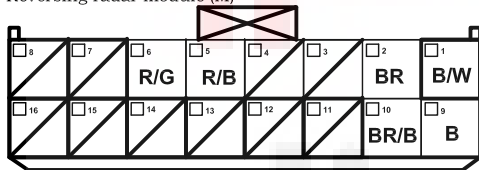
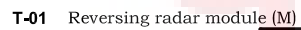
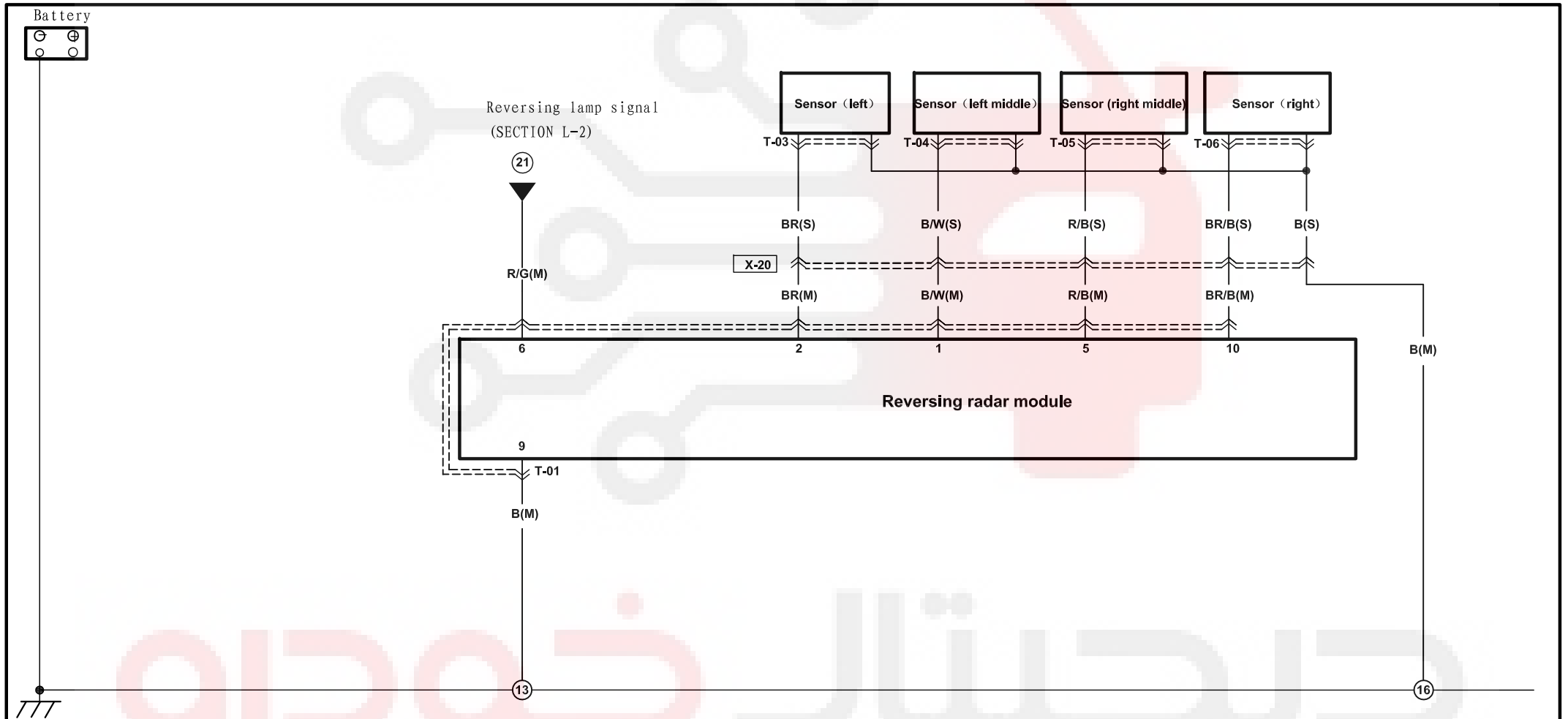


R-01 Fuel pump (R)					
					

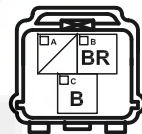




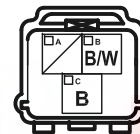




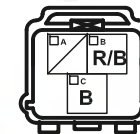
T-03	Sensor (left) (S)
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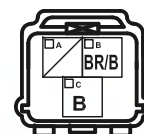
T-04 Sensor (left middle) (S)



T-05 Sensor (right middle) (S)



T-06 Sensor (right) (S)



X-20
Middle harness (M) - Reversing radar harness (S)

T-03
Sensor (left)

T-04
Sensor (left middle)

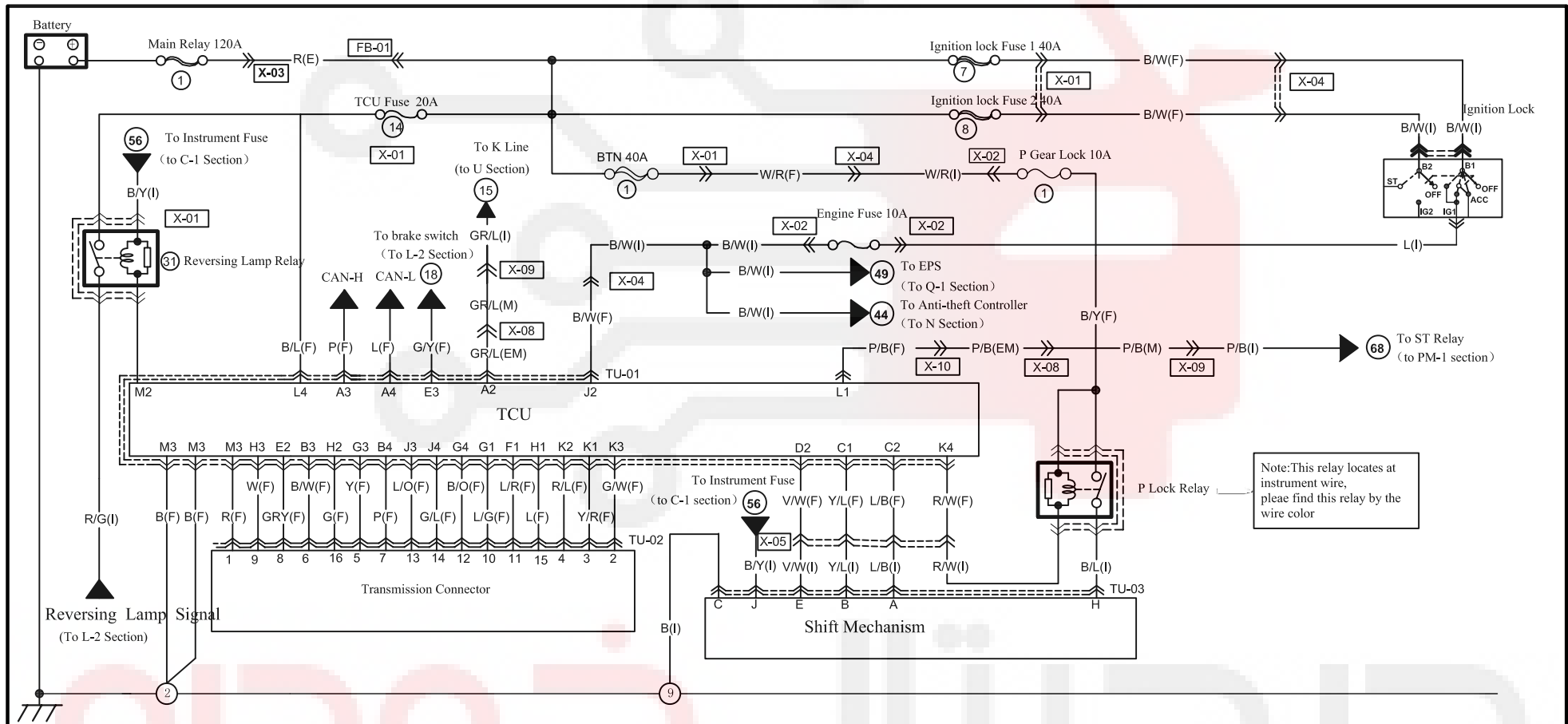
T-05
Sensor (right middle)

T-06
Sensor (right)

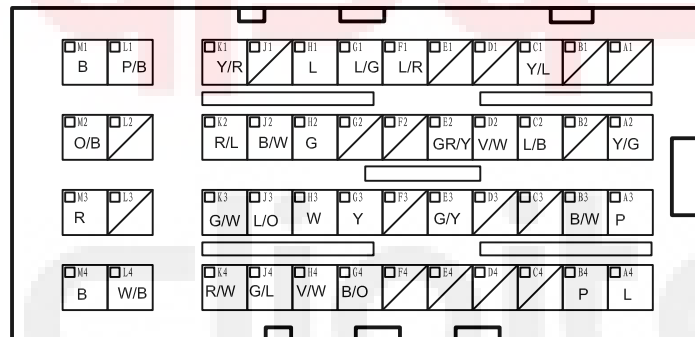
T-01
Reversing radar module

TCU

TU-1



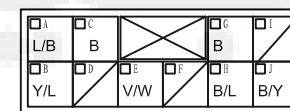
TU-01 TCU

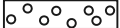


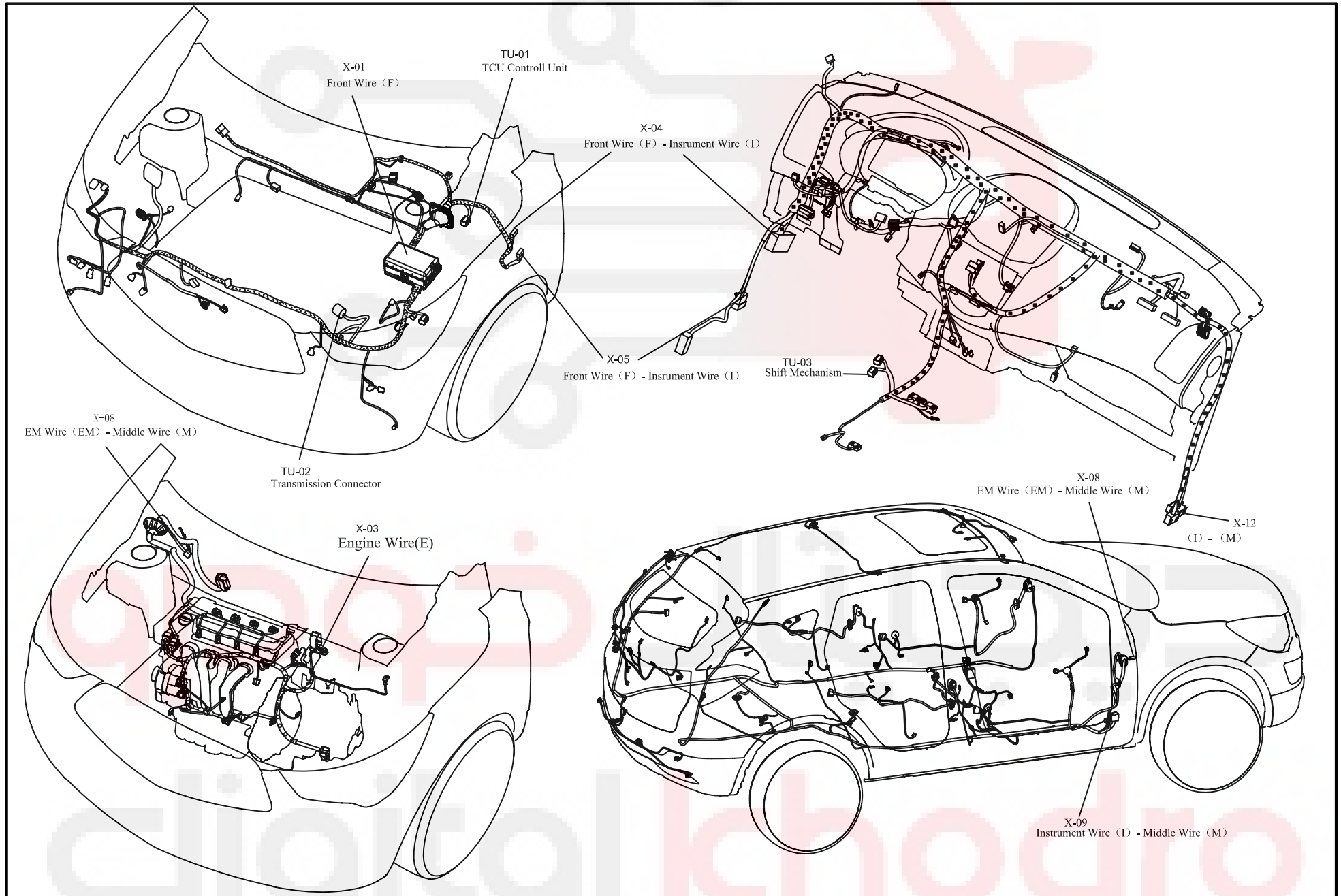
TU-02 Transmission Connector

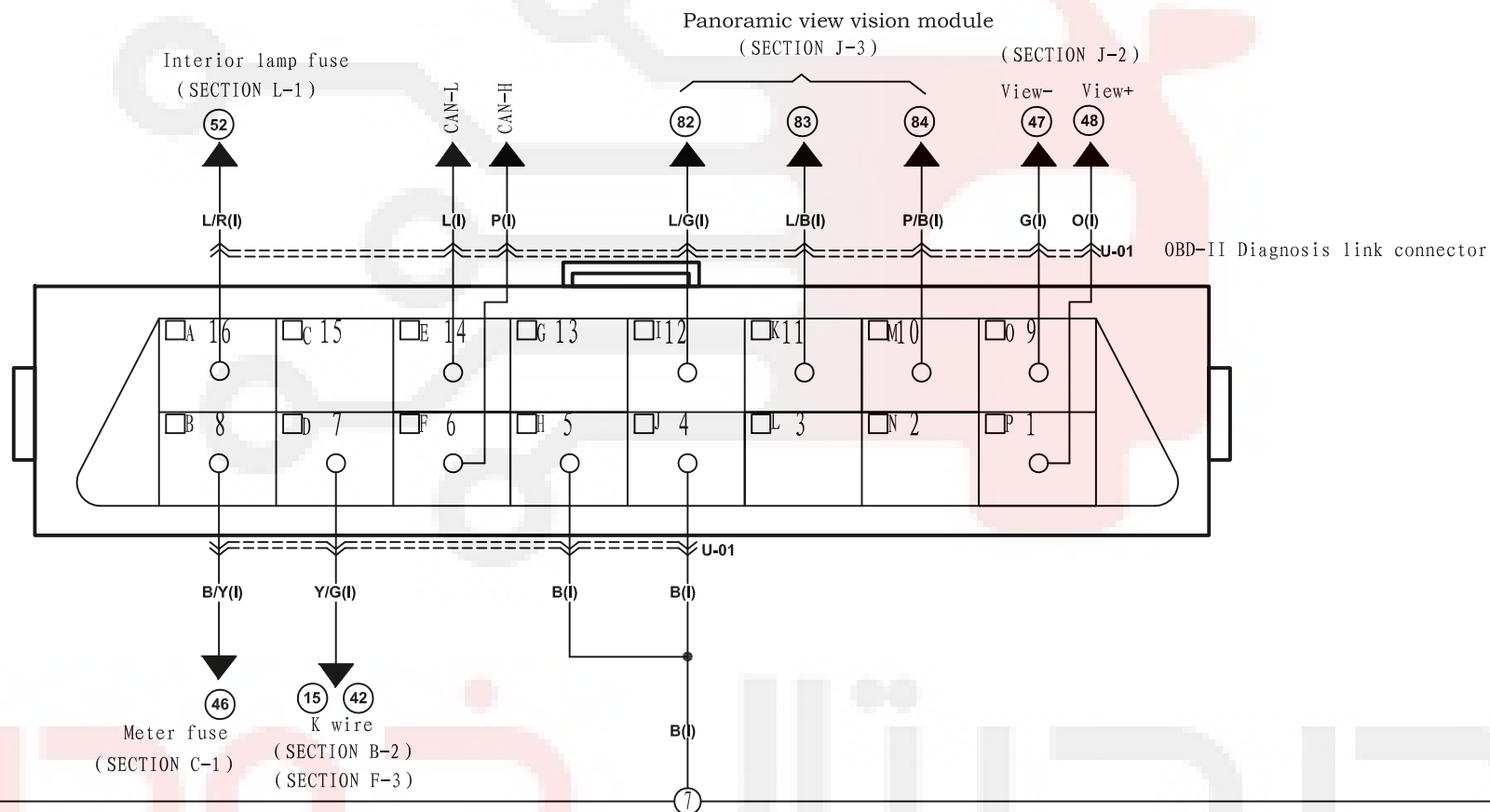


TU-03 Shift Mechanism

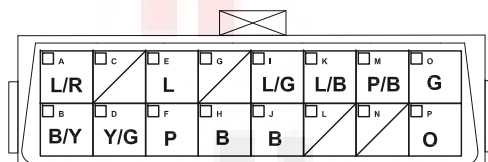


Wire Mark:  F  I  E

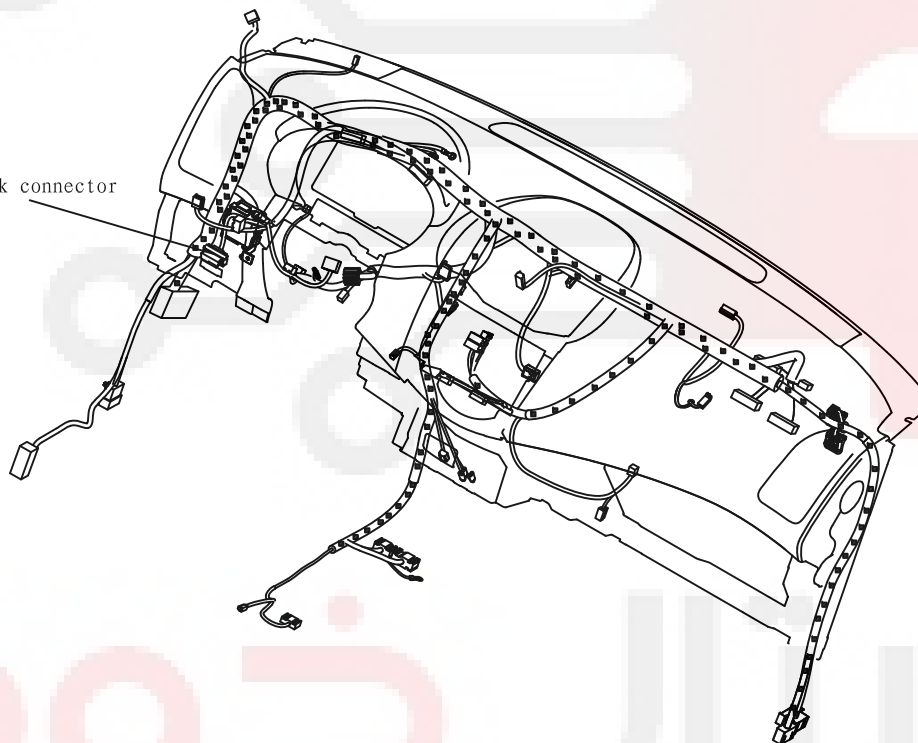


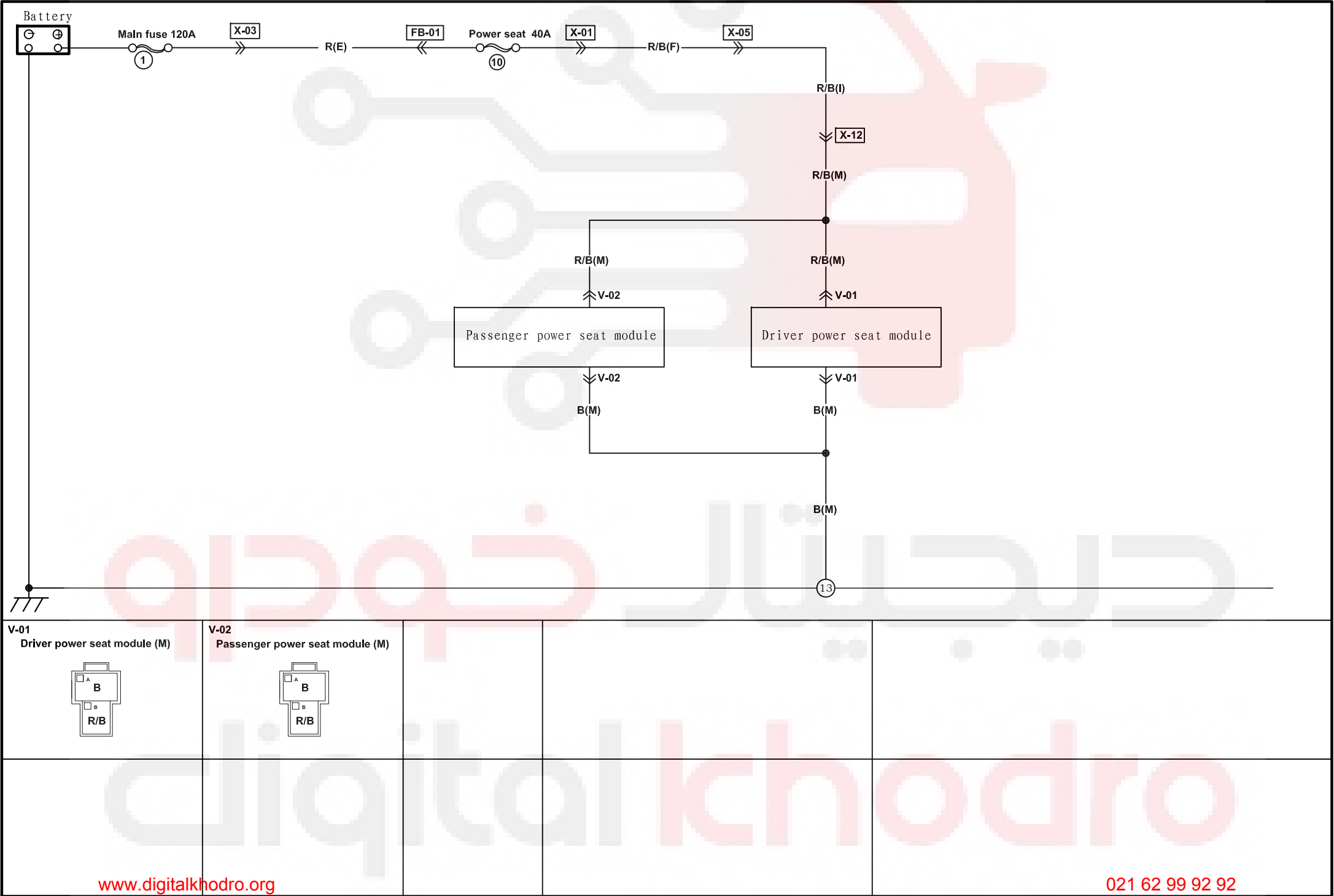


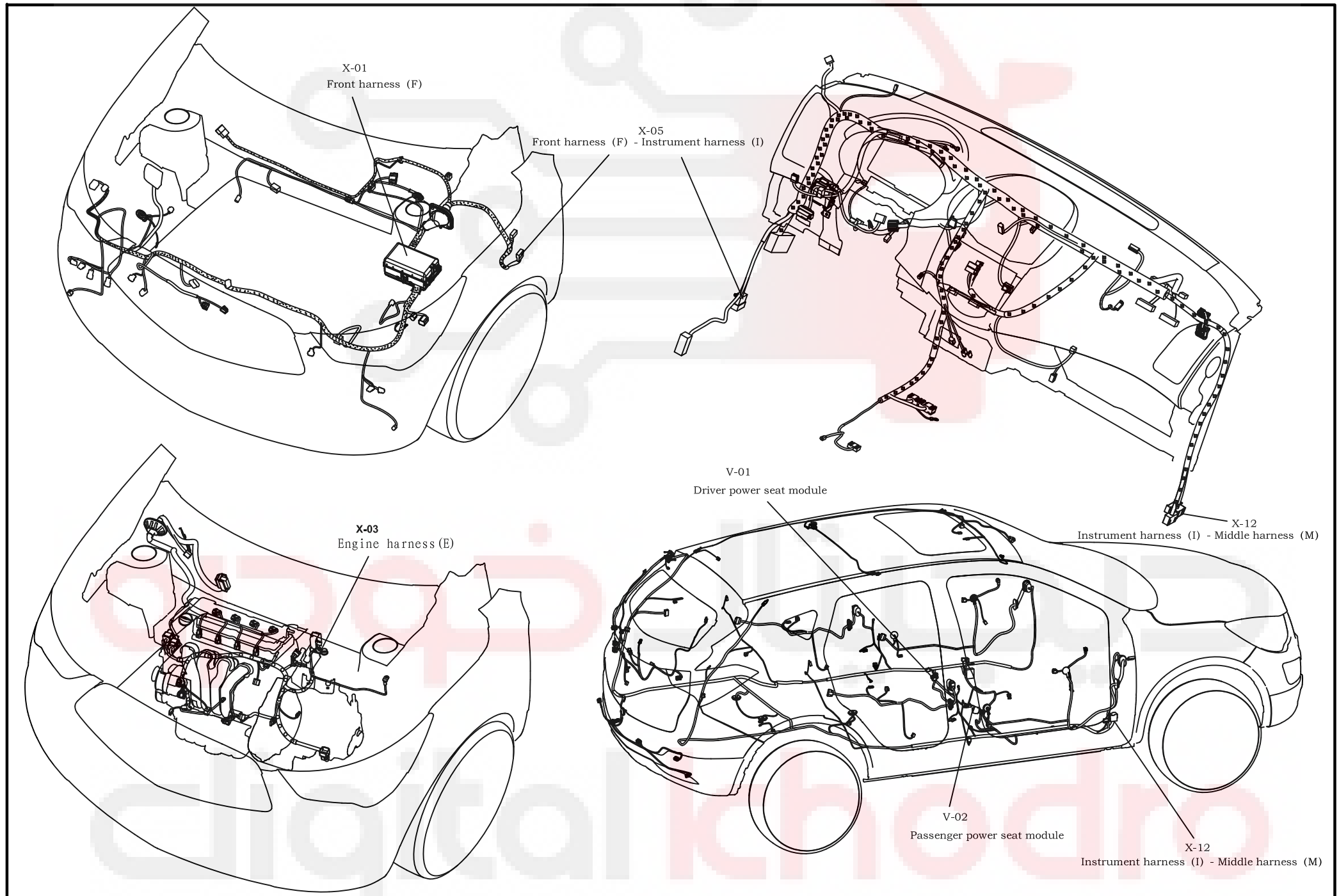
U-01 Diagnosis link connector (I)



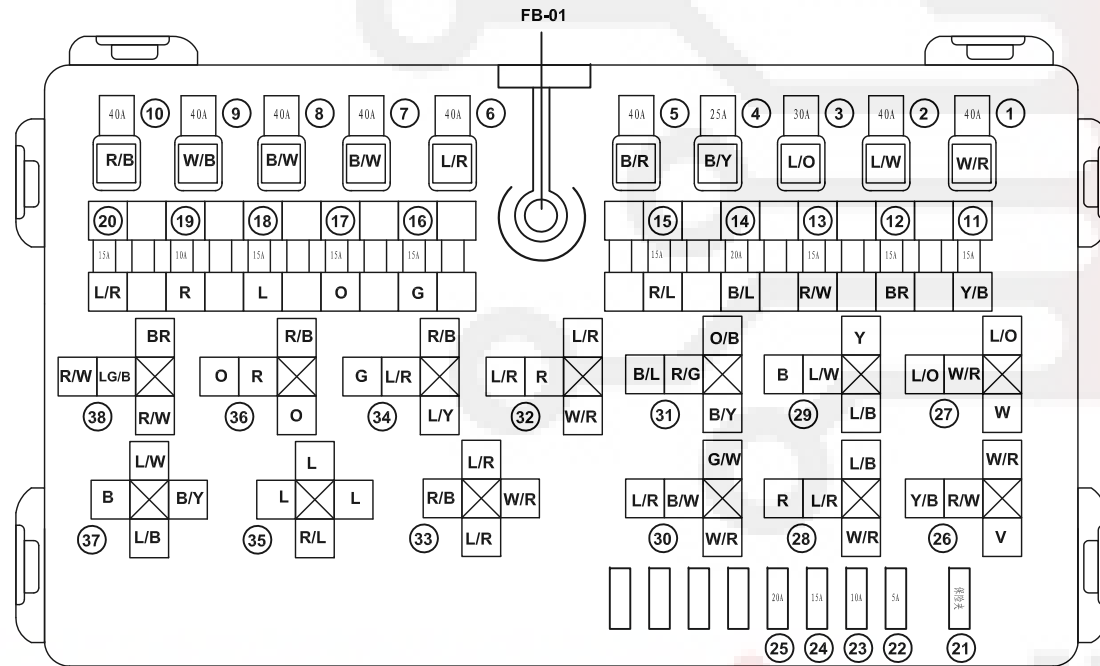
U-01
OBD-II Diagnosis link connector







X-01 Front harness (F)



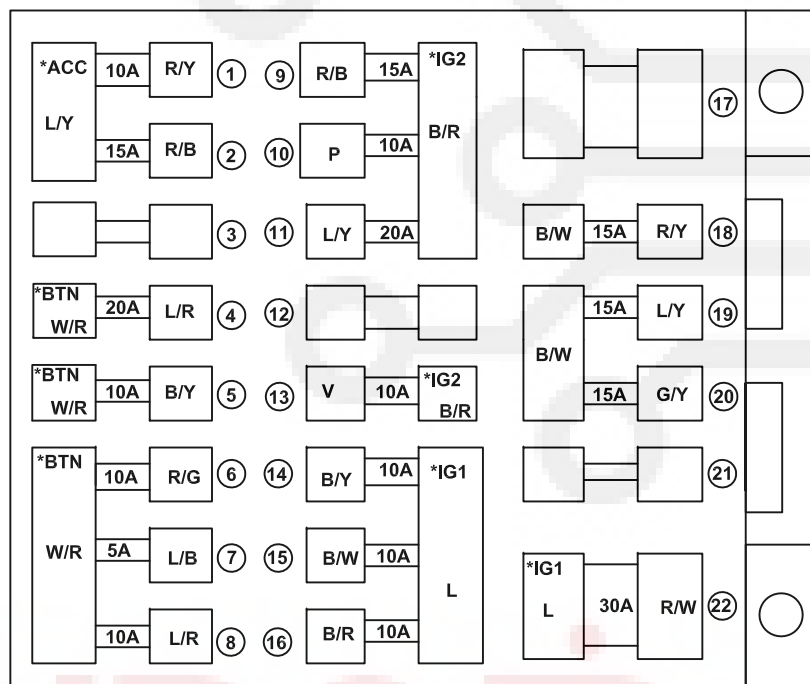
No.	Fuse name	No.	Fuse name
①	BTN	⑭	TCU
②	Blower	⑮	BCM1
③	Main relay	⑯	Brake lamp
④	ABS1	⑰	Low-beam headlamp
⑤	ABS2	⑱	High-beam headlamp
⑥	Cooling fan	⑲	A/C compressor
⑦	1#ignition switch	⑳	Rear defroster
⑧	2#ignition switch	㉑	Fuse clip
⑨	BCM2	㉒	Spare 10A
⑩	Power seat	㉓	Spare 10A
⑪	Fuel pump	㉔	Spare 20A
⑫	Front fog lamp	㉕	Spare 30A
⑬	Small lamp		

No.	Relay name	No.	Relay name
26	油泵继电器	33	高速风扇继电器
27	主继电器	34	后除霜继电器
28	压缩机继电器	35	远光继电器
29	鼓风机高速继电器	36	近光继电器
30	低速风扇继电器	37	鼓风机继电器
31	倒车灯继电器	38	小灯继电器
32	真空助力泵继电器		

FB-01 Front harness (F)

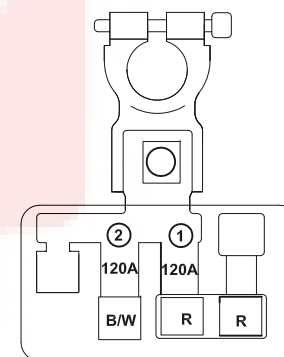


X-02 Junction box (I)



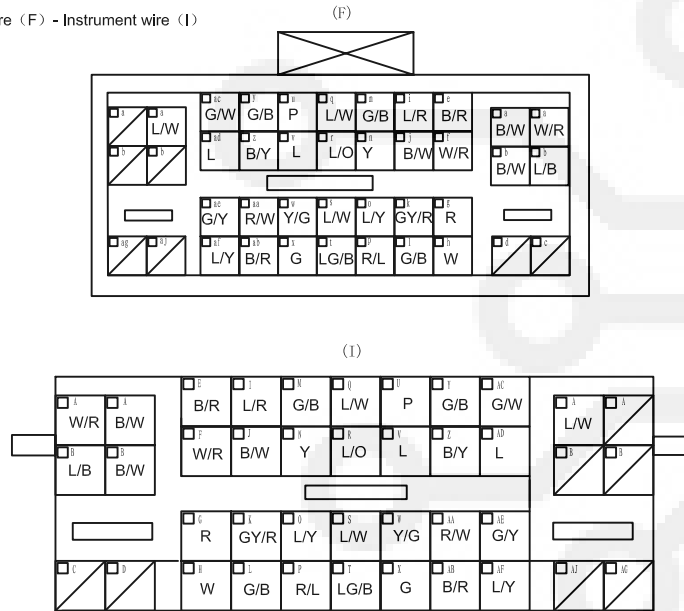
No.	Fuse name	No.	Fuse name	No.	Fuse name	No.	Fuse name	No.	Fuse name
①	ACCT	⑥	Radio	⑪	Front wiper	⑯	DCU	⑳	*
②	Cigarette lighter	⑦	ECU	⑫	*	⑰	*	㉑	Power window IG
③	*	⑧	Interior lamp	⑬	AVM	⑱	PEPS 1		
④	Sunroof	⑨	Rear washer	⑭	Meter	⑲	PEPS 2		
⑤	P gear valve body	⑩	A/C	⑮	Engine	㉒	PEPS 3		

X-03 Engine harness (E)

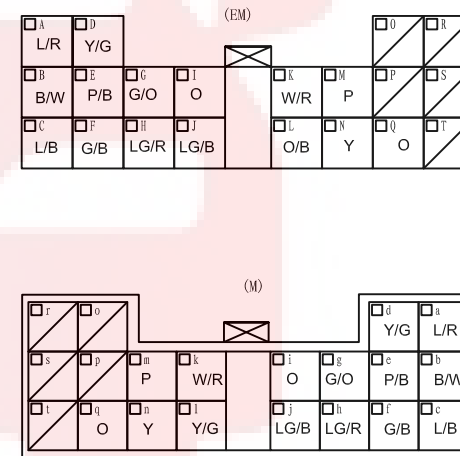


No.	Fuse name
①	Main fuse
②	Generator

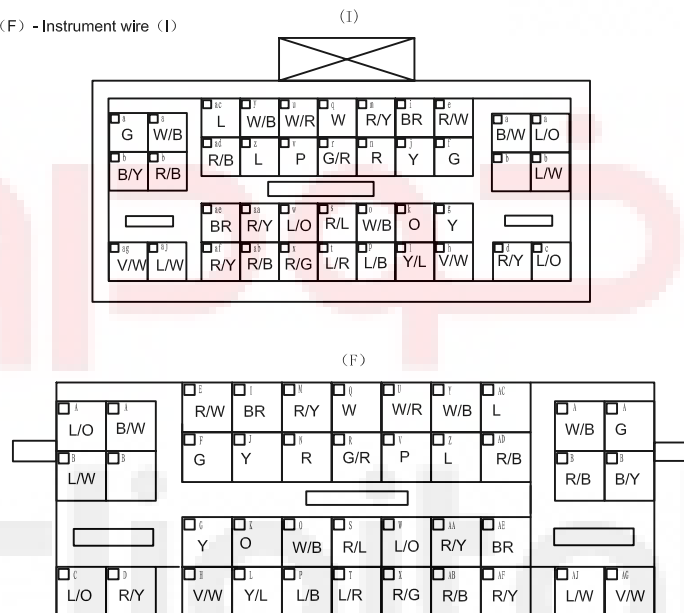
X-04 Front wire (F) - Instrument wire (I)



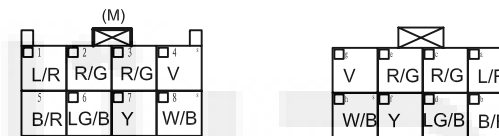
X-08 EM wire (EM) - Middle wire (M)



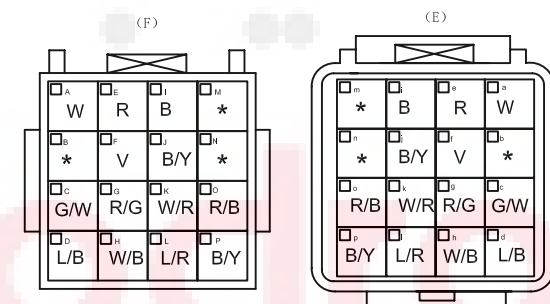
X-05 Front wire (F) - Instrument wire (I)



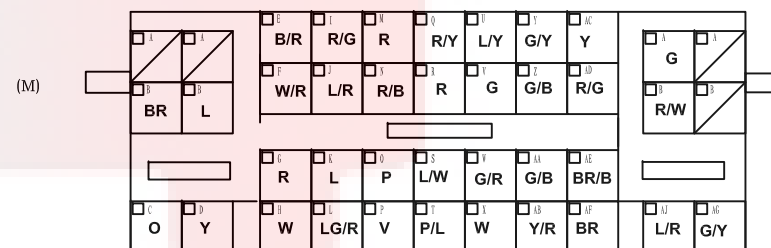
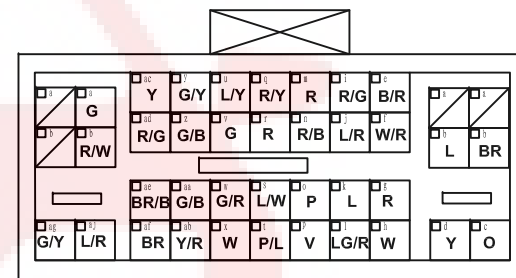
X-25 Back door wire 2# (W2) - Middle wire (M)



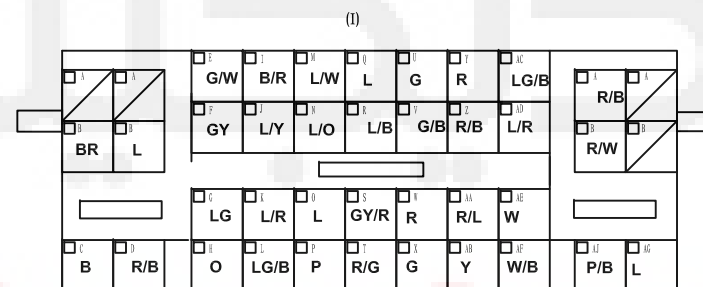
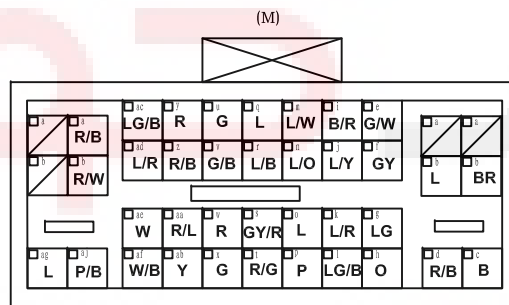
X-07 Front wire (F) - Engine wire (E)



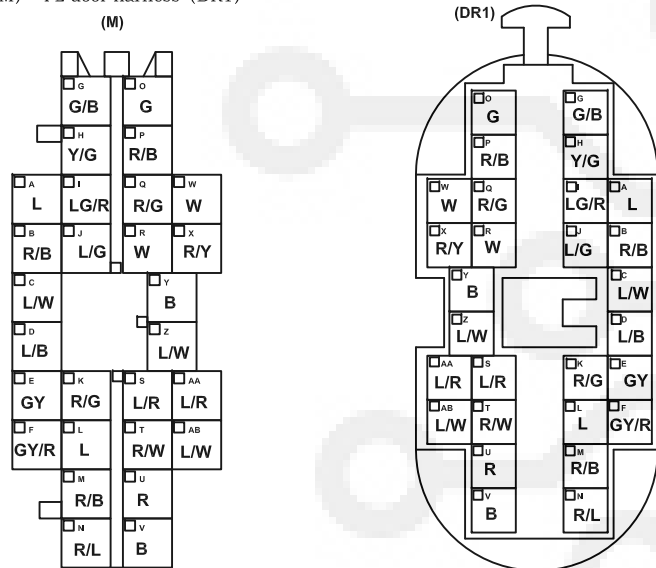
X-11 Instrument harness (I) - Middle harness (M)



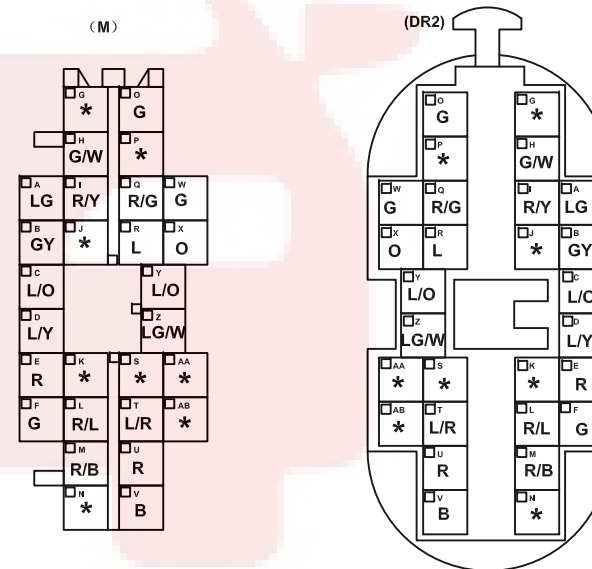
X-12 Instrument harness (I) - Middle harness (M)



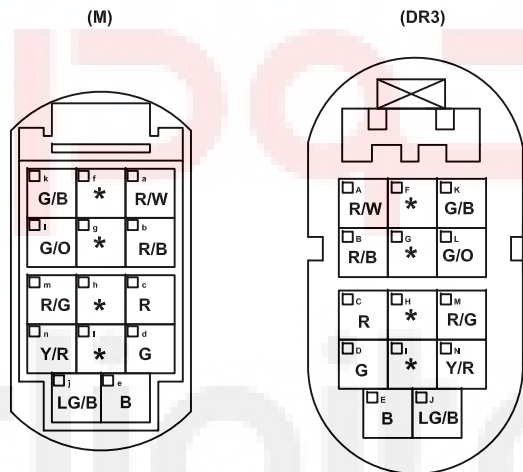
X-14 Middle harness (M) - FL door harness (DR1)



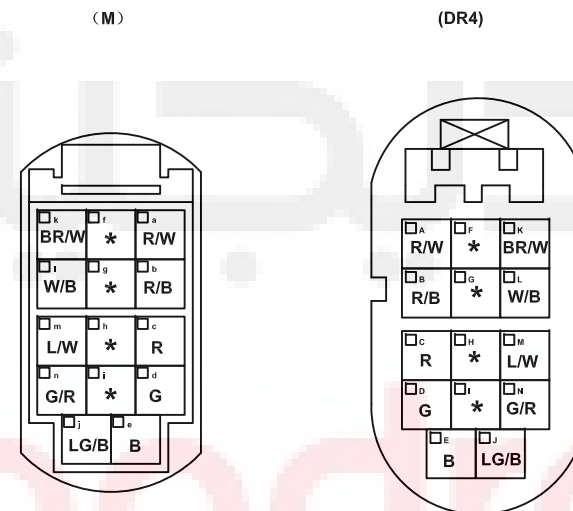
X-15 Middle harness (M) - FR door harness (DR2)



X-16 Middle harness (M) - RL door harness (DR3)



X-17 Middle harness (M) - RR door harness (DR4)



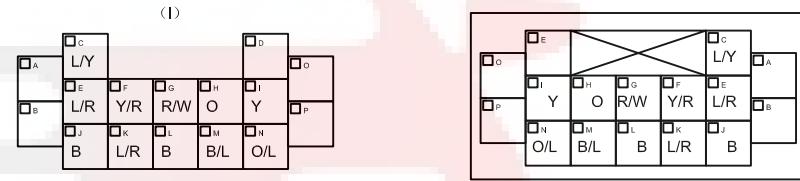
Common Connector List

X-4

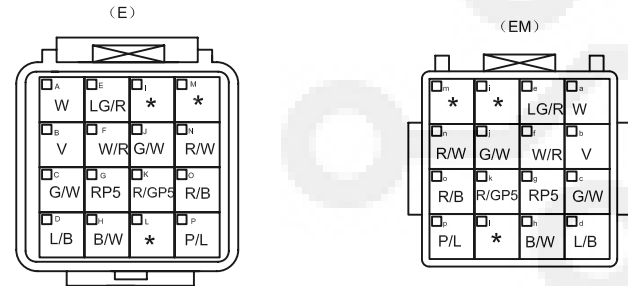
X-13 Instrument wire (I) -Roof wire (IN)



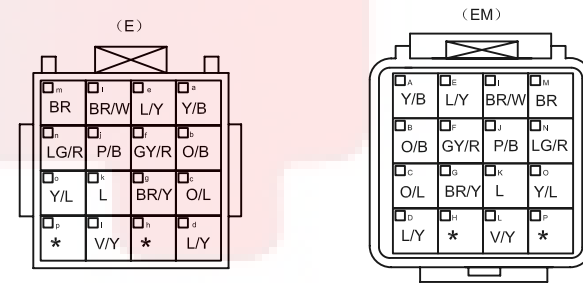
X-13 Instrument wire (I) -Roof wire (IN)



X-19 Engine wire (E) - EM wire (EM)



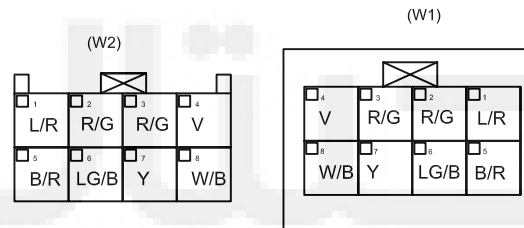
X-18 Engine wire (E) - EM wire (EM)



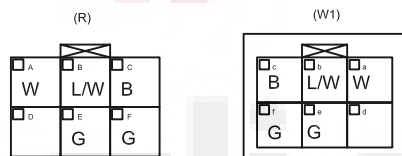
X-20 Middle wire (M) - Reverse radar wire (S)



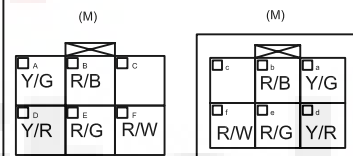
X-21 Back door wire 2# (W2) -Back door wire 1# (W1)



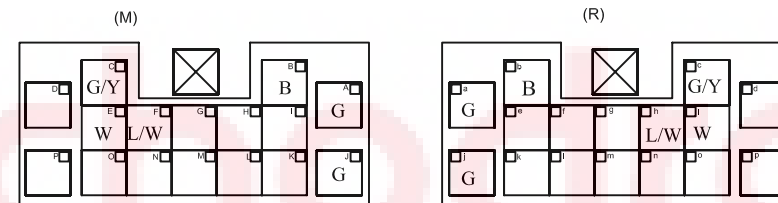
X-22 Rear wire (R) -Back door wire 1# (W1)



X-24 Middle wire (M) -Rear wire (M)

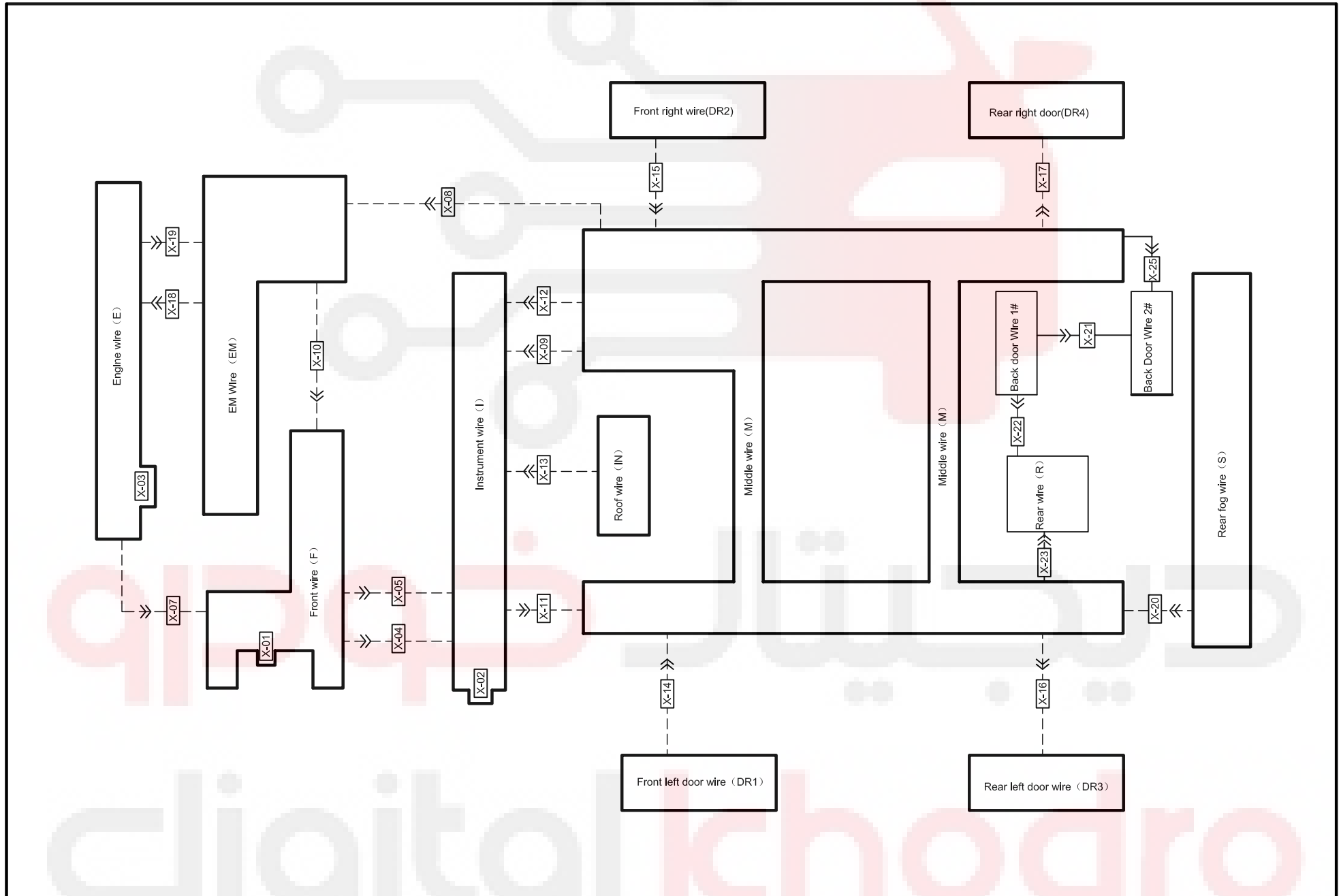


X-23 Middle wire (M) - Rear wire (R)



Common Connector List

X-5



CAN Net Conneting Diagram

Z

