



معاونت خدمات پس از فروش

راهنمای تعمیرات

معرفی و جانمایی دسته سیمها و نقشه های

الکتریکی

خودروی هایما S7

کلید مدرک ۱۵۶۳۸

تابستان ۱۳۹۴

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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.

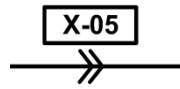


بر روی هر سیم کدی وجود دارد که نشان دهنده رنگ و دسته سیم آن می باشد. حروف خارج از پرانتز یعنی در این مثال B/W نشان دهنده رنگ سیم و همچنین حروف داخل پرانتز نشان دهنده دسته سیم می باشد. جدول معرفی کد رنگ ها و دسته سیم ها در صفحات اولیه کتاب آورده شده است.

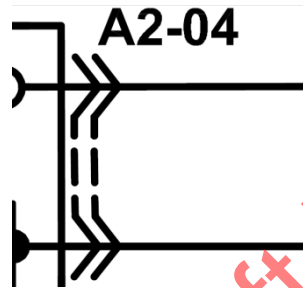
————B/W(EM)————

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.

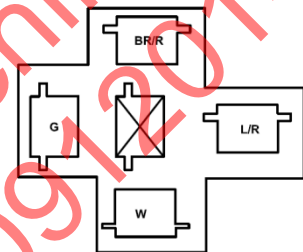


برای نشان دادن کانکتور ها از علامتهایی نظیر علامت زیر استفاده می شود. به طور مثال علامت زیر نشان دهنده آنست که کد کانکتور قطعه مذکور A2-04 می باشد و هر دو سیم بالایی و پایینی در آن قرار دارند. مشخصات کلی هر کانکتور، در پایین صفحه همان نقشه ای که در آن بکار رفته است وجود دارد.

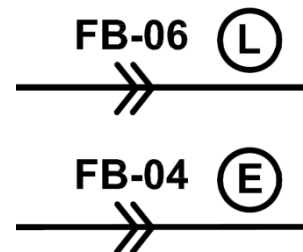


در نقشه های دسته سیم از شماره سیم استفاده نشده است و جهت ردیابی هر مسیر تنها به رنگ سیم و محل قرار گیری در کانکتور بسنده شده است. مانند شکل زیر که کانکتور A2-04 را که مربوط به رله Start-Stop می باشد را نشان داده است.

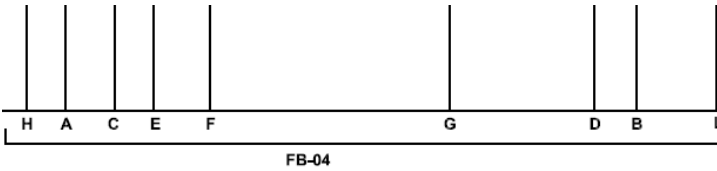
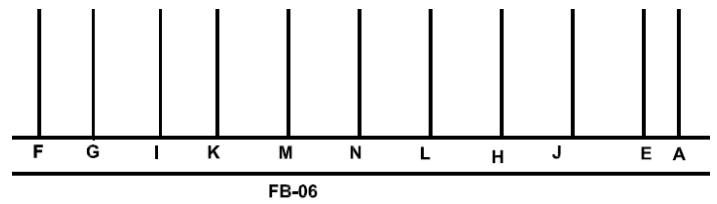
A2-04 Start-stop control relay (EM)



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.



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دیف	بخش	زیر بخش	عنوان نقشه	نقشه های اصلی	نقشه های مرتبط
۱	سیستم سوخت رسانی جرقه	۱	سیستم سوخت رسانی و جرقه	B-1a, B-1b, B-1c, B-1d	G-1b, B-7, B-8, G-2, A-2, Z-1b, Z-2b, F-3, U-2a, T, U, I-1
۲	سیستم خنک کننده موتور (فن ها)	۱	سیستم خنک کننده موتور (فن ها)	B-8	B-1a, B-1c
۳	سیستم ترمز	۱	ترمز ABS	O-1a, O-1b	Z-1b, Z-2b, U-2b, F-3, U, N-1c, N-2b, J-1b, K-2d, U-1, G-1a, C-1d
		۲	سیستم ESP	O-1a, O-1b	Z-1b, Z-2b, U-2b, F-3, U, N-1c, N-2b, J-1b, K-2d, U-1, G-1a, C-1d
۴	سیستم های حفاظتی و هشدار دهنده	۱	قفل مرکزی	K-2a, K-2b, K-2c K-2d	N-1b, S, F-4, N-2a, Z-1b, Z-2b, O-1a, C-1c, I-3, C-1b
		۲	کیسه هوا و کمربندهای پیش کشنده	S	N-2b, K-2d, Z-1b, Z-2b, U, C-1d
		۳	ایموبیلایزر	T	Z-1b, Z-2b, C-1f, B-1d, U, U-2
		۴	قفل صندوق عقب (صندوق پران)	K-2c	K-2d, N-2a
		۵	سیستم دزدگیر	T	Z-1b, Z-2b, C-1f, B-1d, U, U-2
		۶	سنسور دنده عقب	H-1	M, F-2
		۷	بوق	F-4	N-2b, K-2d
		۸	سیستم استارت بدون کلید	N-1a, N-1b, N-1c	B-2b, A-1, K-2d, O-1a, F-3, B-1d, C-1c, C-1e, U-2, N-2b
		۱	برف پاک کن و شیشه شوی	D-1a, D-1b	Z-1a, Z-1b, Z-2a, Z-2b
		۱	شیشه بالابر جلو	K-1	Z-2b, Z-1b, N-2b
۶	سیستمهای مربوط به شیشه بالابرها	۲	شیشه بالابر عقب	K-1	Z-2b, Z-1b, N-2b
		۳	Power Window	K-1	Z-2b, Z-1b, N-2b
		۴	Sun Roof	M	Z-2a, Z-1a, H-1
		۱	سیستم تهویه مطبوع (کولر و بخاری اتوماتیک)	G-1a, G-1b, G-2	Z-2a, Z-1a, O-1b, J-1b, B-1d, I-1, B-1c, B-1a
۷	سیستمهای آسایشی سرنشینان	۲	گرمکن شیشه عقب و آینه های جانبی	L	Z-2b, Z-1b, I-1
		۳	آینه های جانبی (تنظیم و تاشو اتوماتیک)	L	Z-2b, Z-1b, I-1
		۴	صندلی برقی	P	Z-2b, Z-1b, C-1a
		۵	سیستمهای صوتی و تصویری (رادیو پخش و ...)	J-1a J-1b	Z-2a, Z-1a, H-2, G-1a, U-2, C-1c, F-2, O-1a
		۶	فندک و شارژر	I-1	Z-1a, Z-1b, Z-2a, Z-2b, B-1d, L, G-1b
		۷	سیستم ناوبری (مسیریاب)	J-1a J-1b	Z-2a, Z-1a, H-2, G-1a, U-2, C-1c, F-2, O-1a





دیف	بخش	زیر بخش	عنوان نقشه	نقشه های اصلی	نقشه های مرتبط
۸	آلترناتور و استارت	۱	آلترناتور و استارت	A-1, Z-1a, Z-2a	C-1e, N-1a
۹	نشانگرها و جلو آمپر	۱	نمایشگر مقدار سوخت (بنزین سوز و گازسوز)	B-7, C-1b	B-1a, B-1b, U
		۲	صفحه نمایشگر (پشت آمپر)	C-1a, C-1b, C-1c, C-1d, C-1e, C-1f, C-1g	I-2c, P, C-1c, Z-1b, Z-2b, B-1d, K-2d, O-1a, O-1b, U-2a, F-1, E-1, J-1b, N-1c, S, E-5, B-2b, N-1c, A-1, T, N-2a, B-2b
		۳	نشانگر فشار روغن موتور	C-1d	C-1a, C-1b, C-1c, C-1e, C-1f, C-1g
		۴	نشانگر دمای مایع خنک کننده	B-1c, C-1b	G-1b
		۵	چراغ اخطار سطح روغن ترمز و ترمز دستی	C-1c	C-1a, C-1d
۱۰	سیستم روشنایی	۱	چراغهای جانبی (پارک و پلاک)	E-7	E-1
		۲	چراغهای اصلی و تنظیم ارتفاع چراغها	E-1, E-2	I-2a/I-2c, P, E-7, C-1c
		۳	مه شکن جلو و عقب	E-5	C-1d
		۴	چراغ دنده عقب	F-2	Z-1b, Z-2b, J-1a/J-1b, H-1, H-2b
		۵	راهنما و فلاشر	F-1	N-2a, N-2b, C-1c
		۶	چراغ سقفی	I-3	K-2d, N-2b
		۷	چراغ ترمز	F-3	N-1c, O-1a, B-1d, Z-1b, Z-2b
		۸	سیستم تنظیم نور چراغها و نمایشگرها	I-2a, I-2b, I-2c	C-1a, E-1
۱۱	سیستم مالتی پلکس	۱	نودها و یونیتها	U-2a, U2b	B-2b, B-1c, O-1a, O-1b, Q, J-1b, C-1b, N-2a, N-1c
۱۲	سیستم انتقال قدرت	۱	گیربکس اتوماتیک	B-2a, B-2b	Z-1b, Z-2b, Z-1a, N-1a, N-1c, C-1e
۱۳	فیوزها و رله ها	۱	فیوزها و رله ها	FB, JB	
۱۴	آپشن	۱	آپشن - Start+Stop	A-2	B-1a, Z-1a
		۲	آپشن - دوربین دنده عقب	H-2	F-2, J-1b
		۳	آپشن - کروز کنترل	B-1d	F-3, U
۱۵	اینترکانکتور	۱	اینترکانکتورها	X-1, X-2, X-3, X-4	

General Wire Color Code

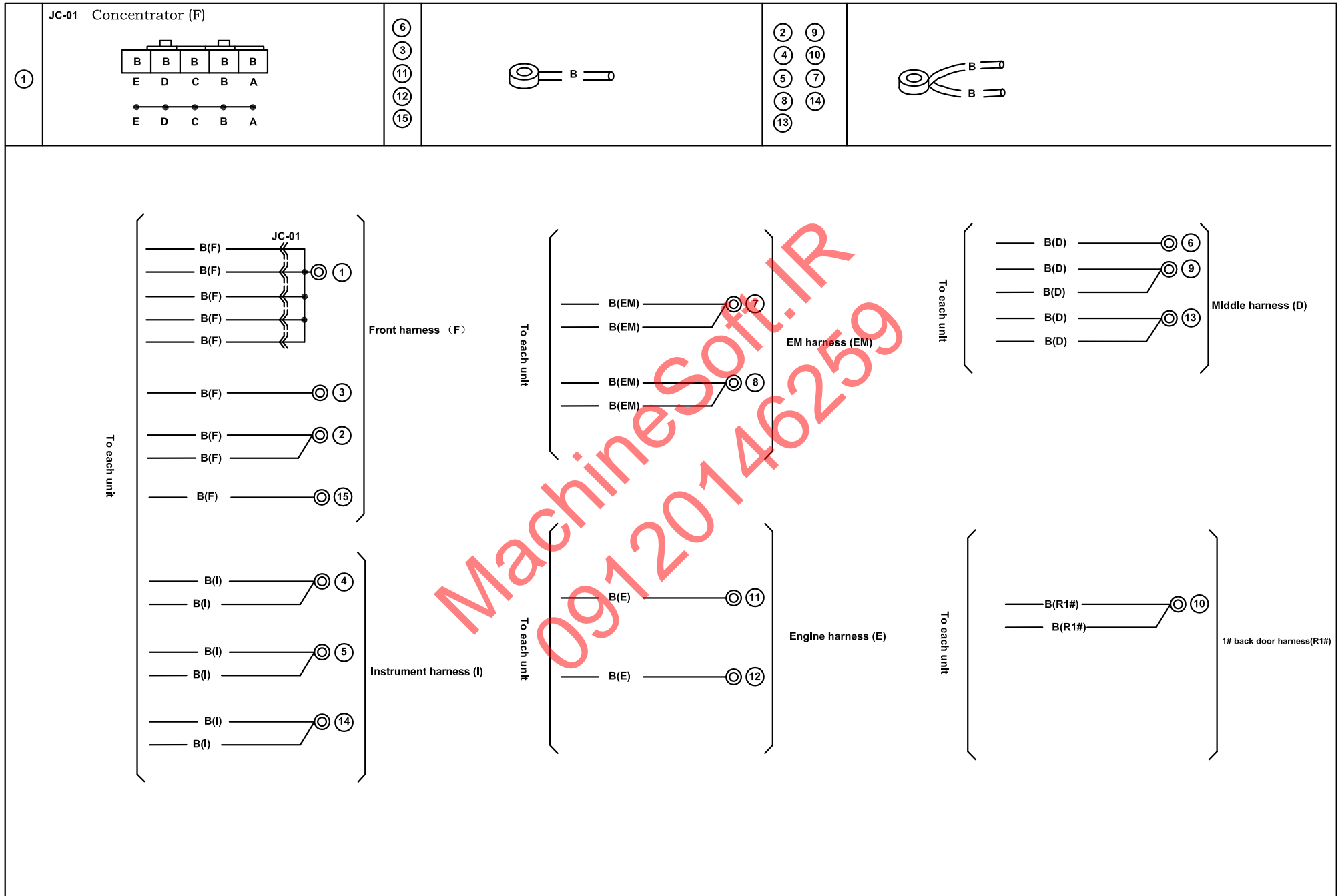
Color	Code	Color	Code
Black	B	Light Green	LG
Brown	BR	Orange	O
Dark blue	DL	Pink	P
Dark Green	DG	Red	R
Gray	GR	Sky Blue	SB
Green	G	Violet	V
Light blue	LB	White	W
Blue	L	Yellow	Y

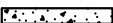



Reading Instruction For Wiring Diagram

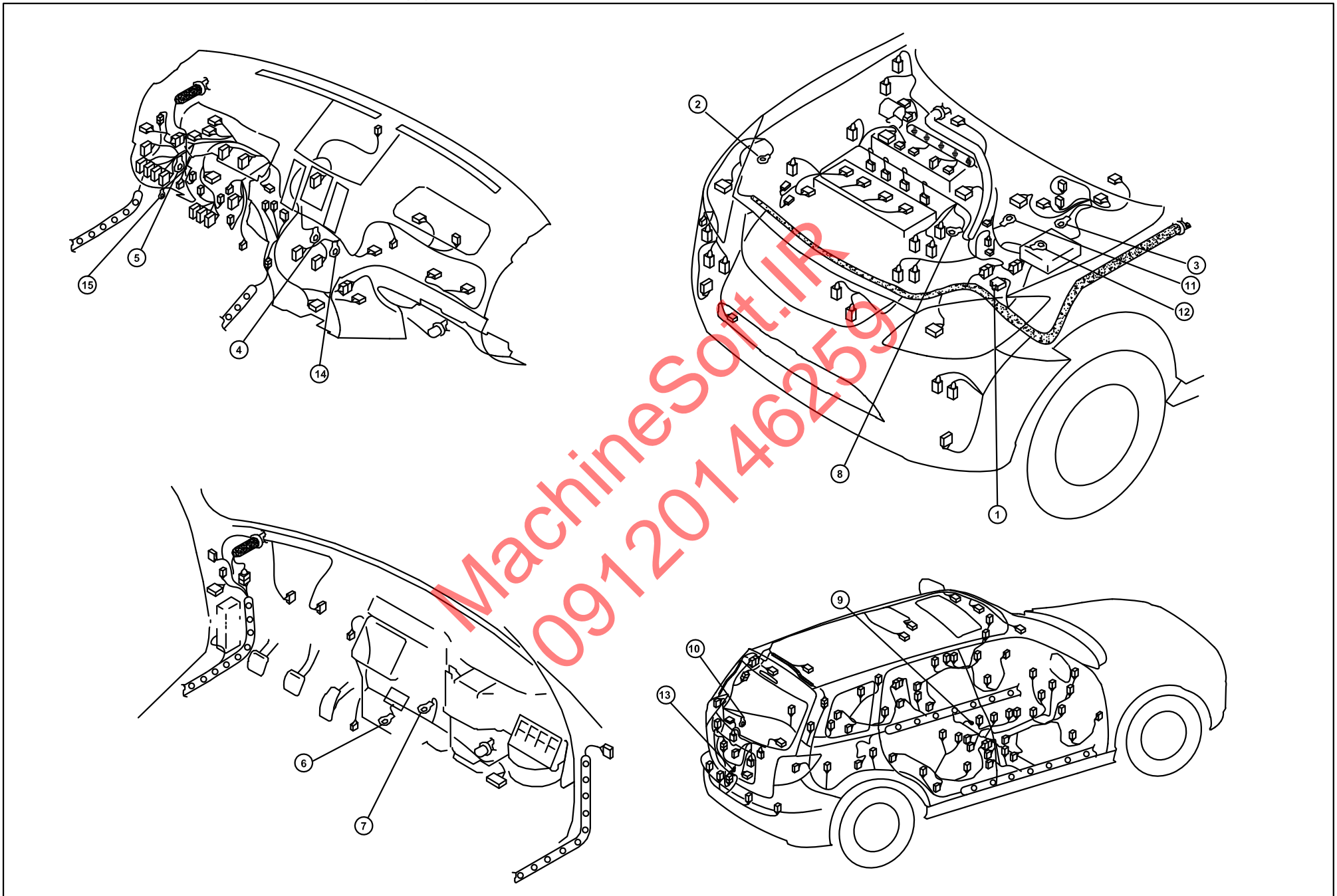
Harness symbol

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

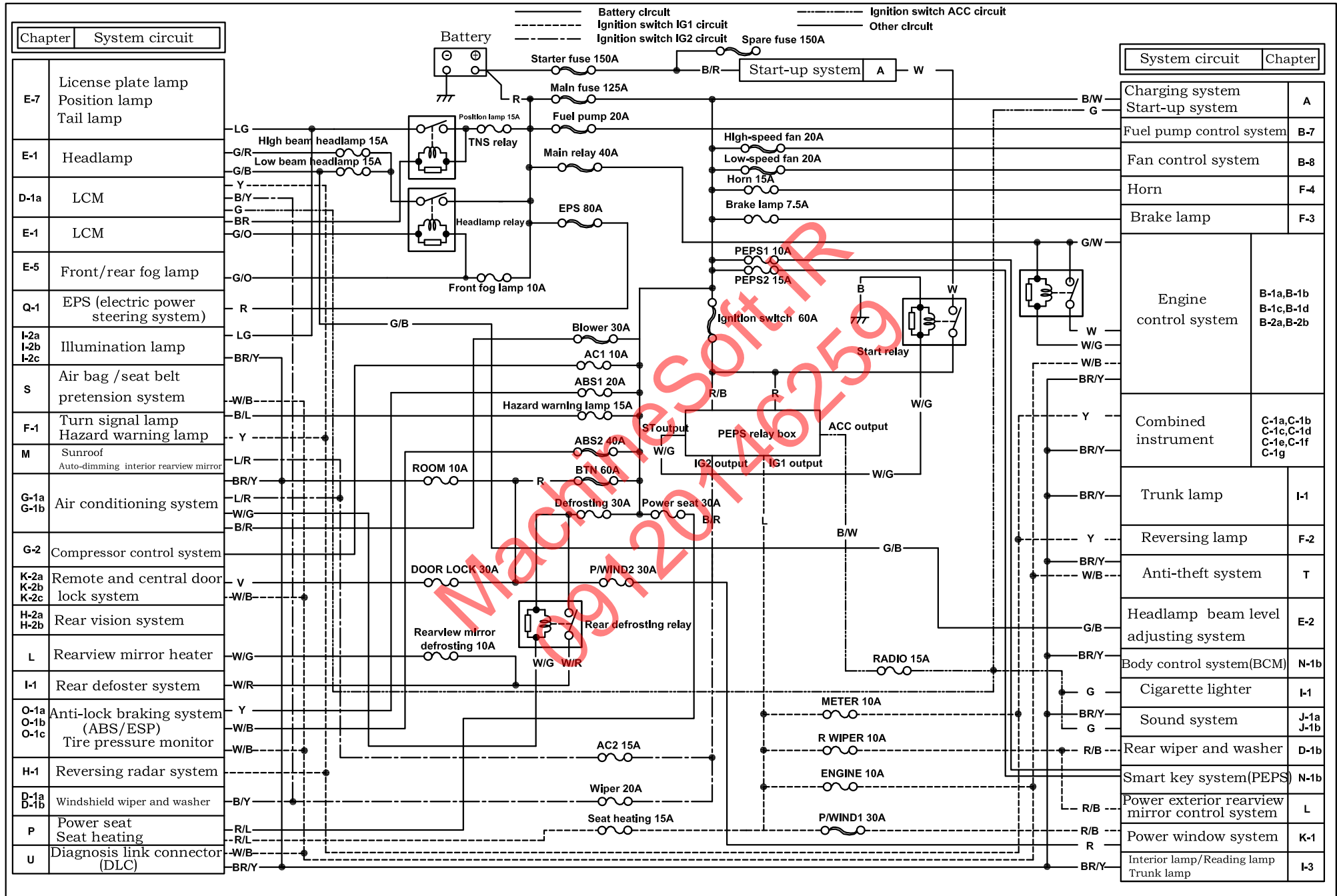
Ground point



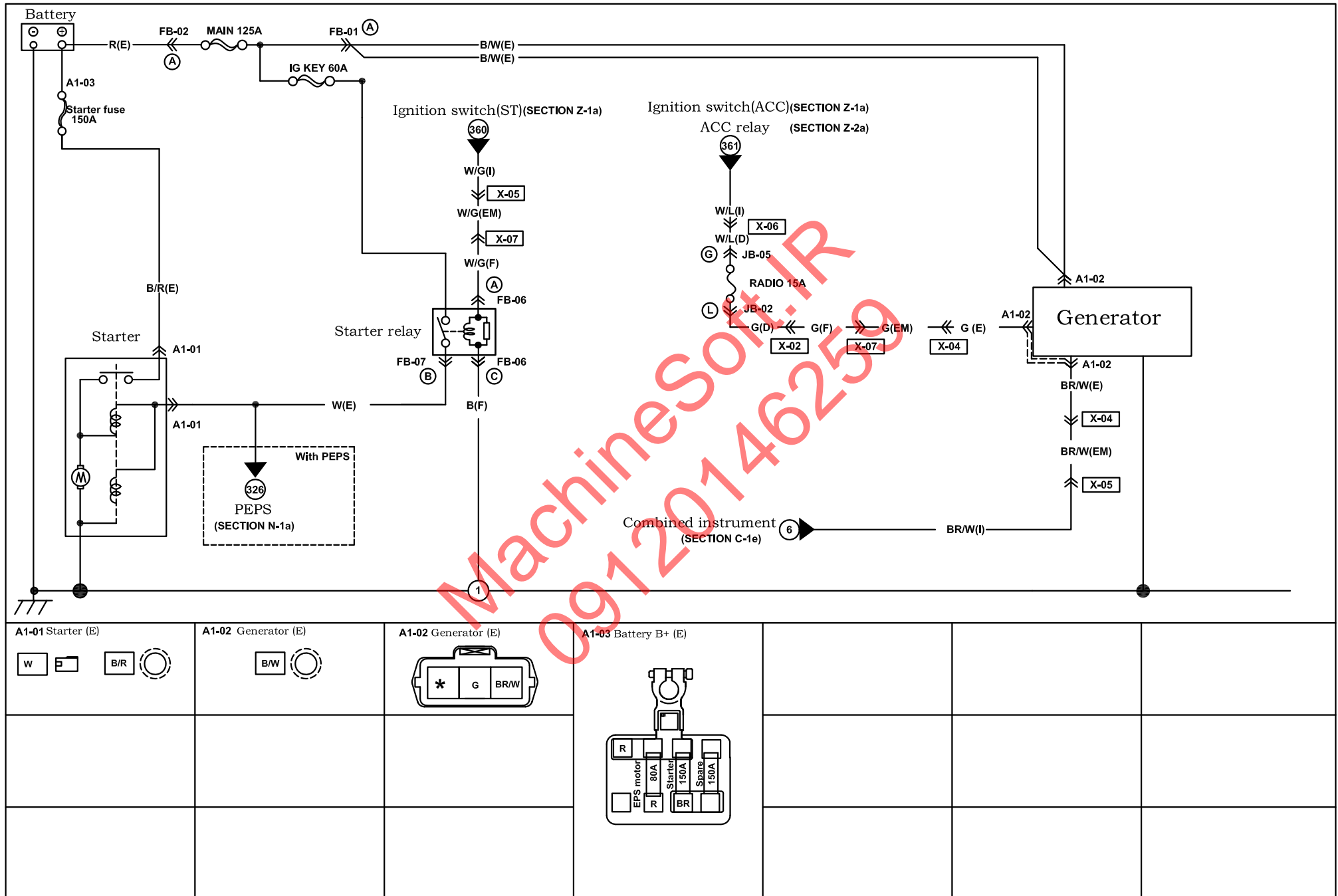
Harness mark:  (F)  (E)  (D)  (R)



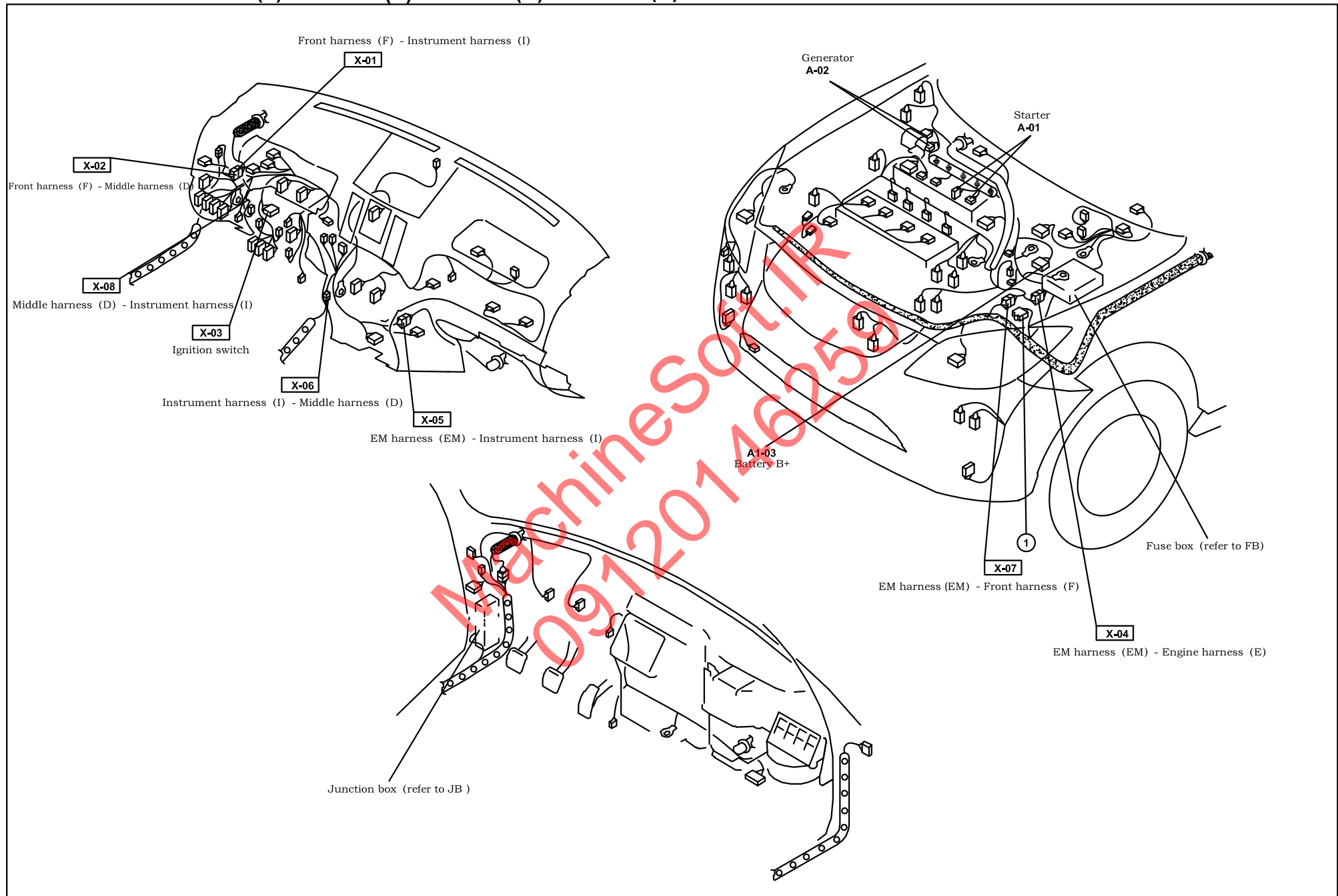
Electric harness schematic (with smart key)



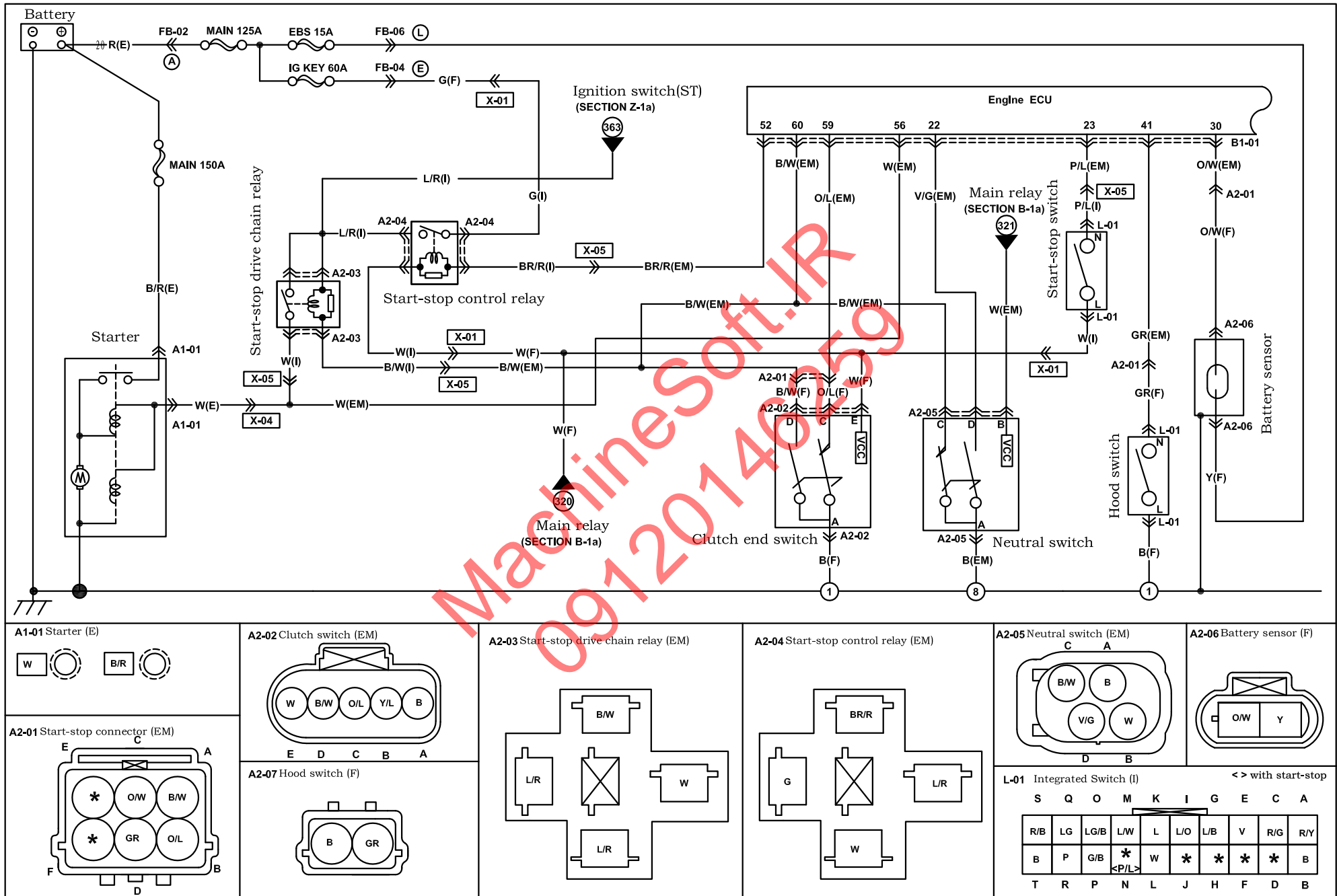
Charging system/start-up system



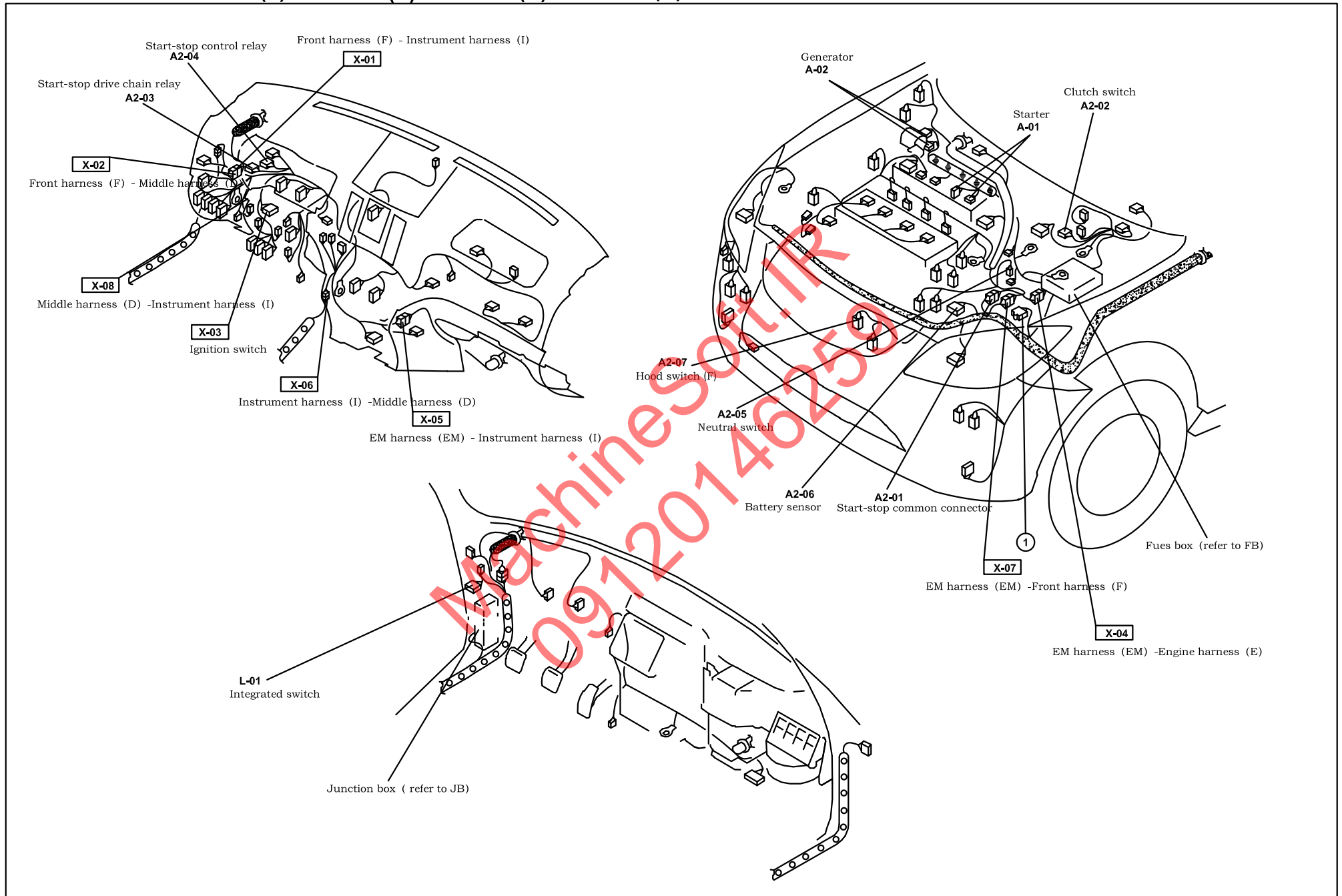
Harness mark:  (F)  (E)  (D)  (R)



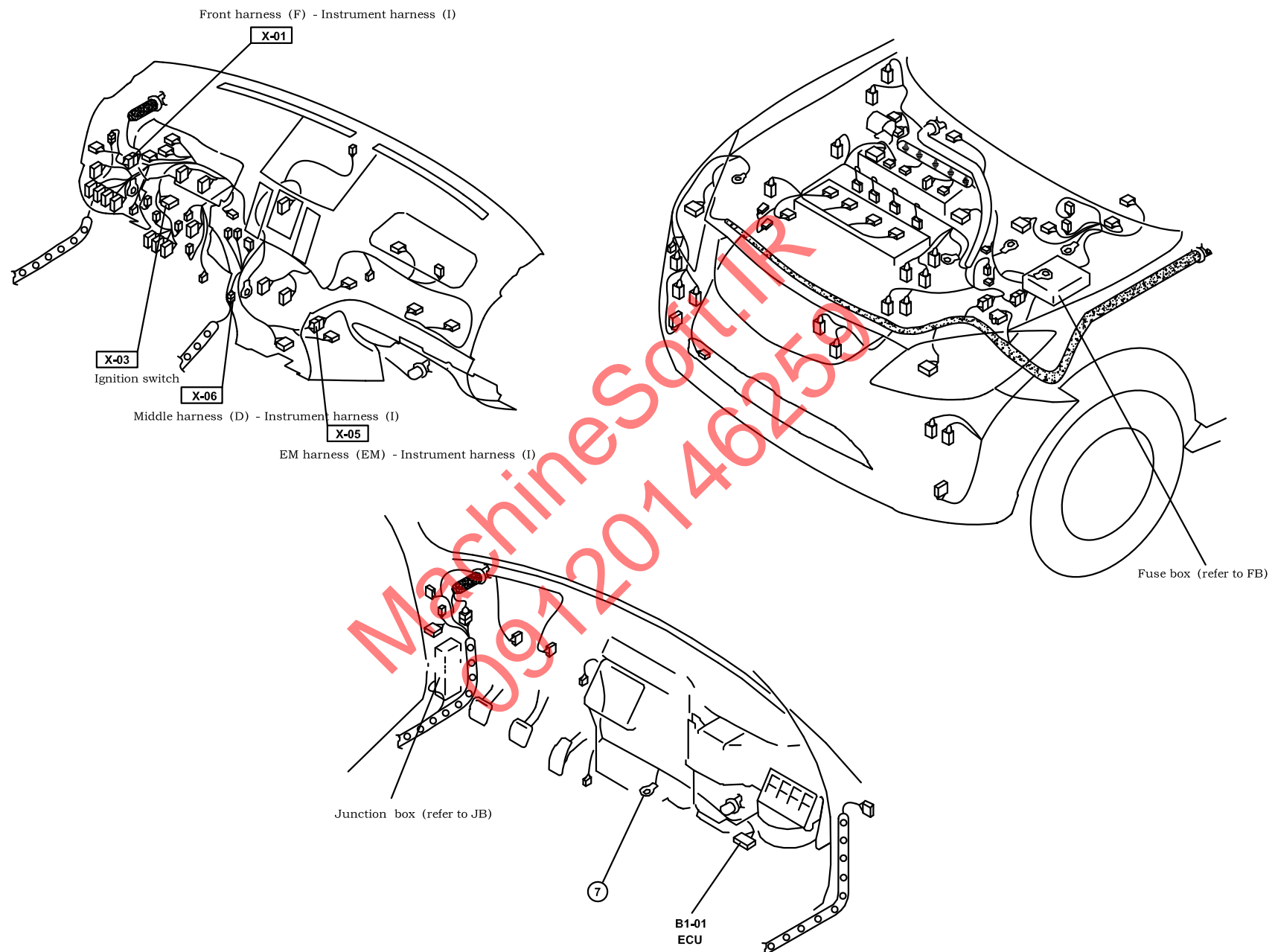
Start-stop start-up system



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

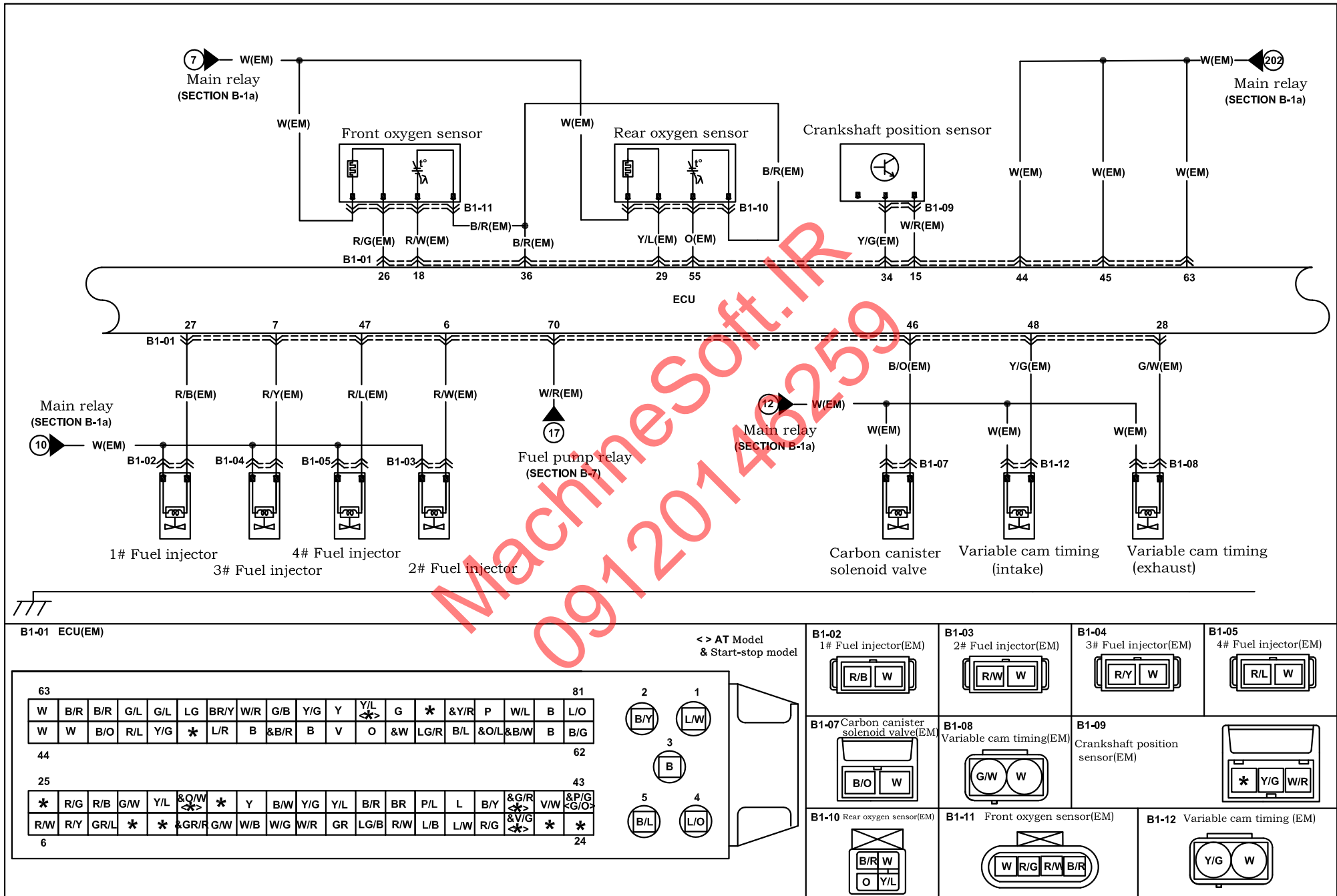


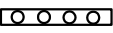
Harness mark: (F) (E) (D) (R)

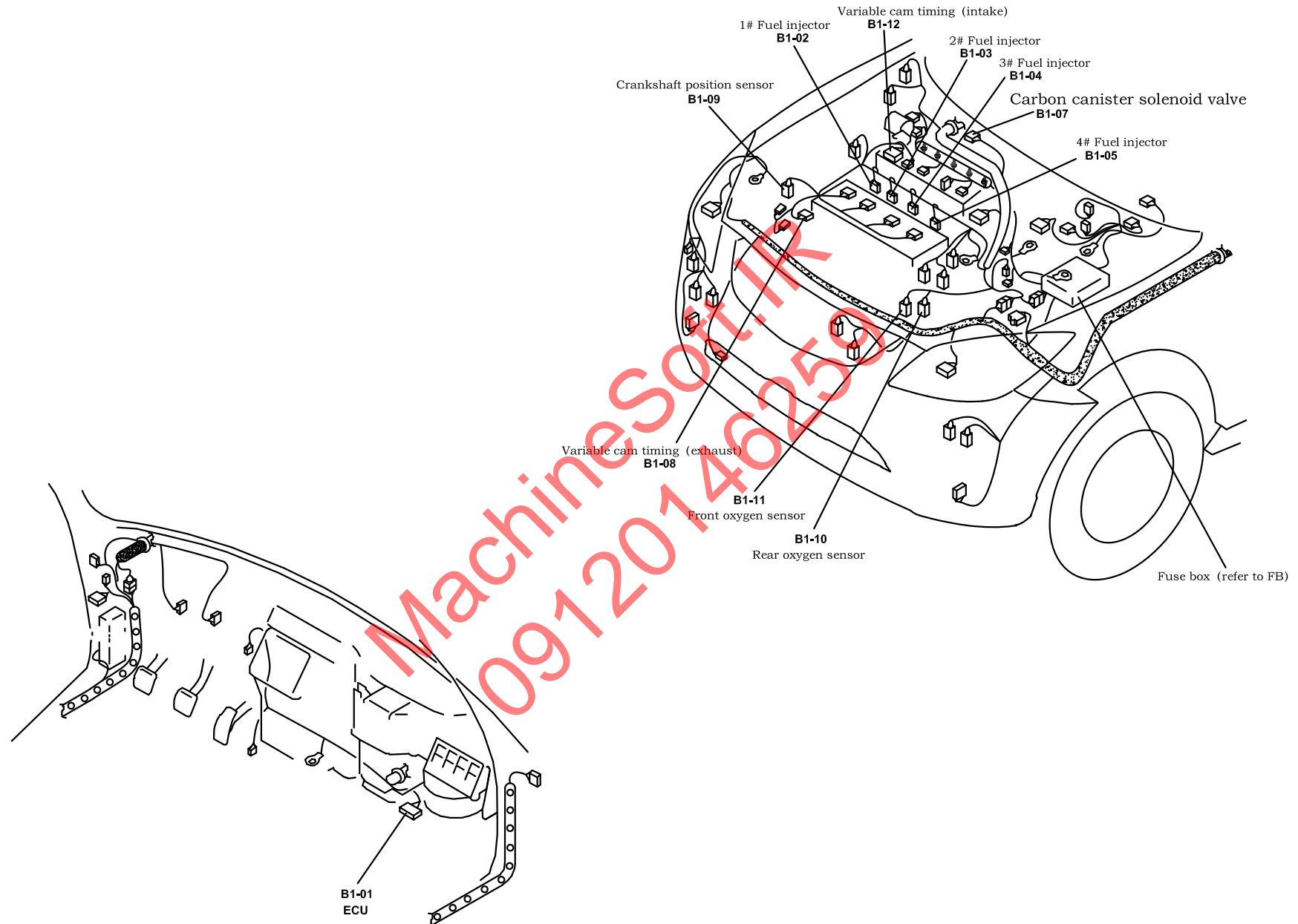


Engine control system (484Q)

B-1b

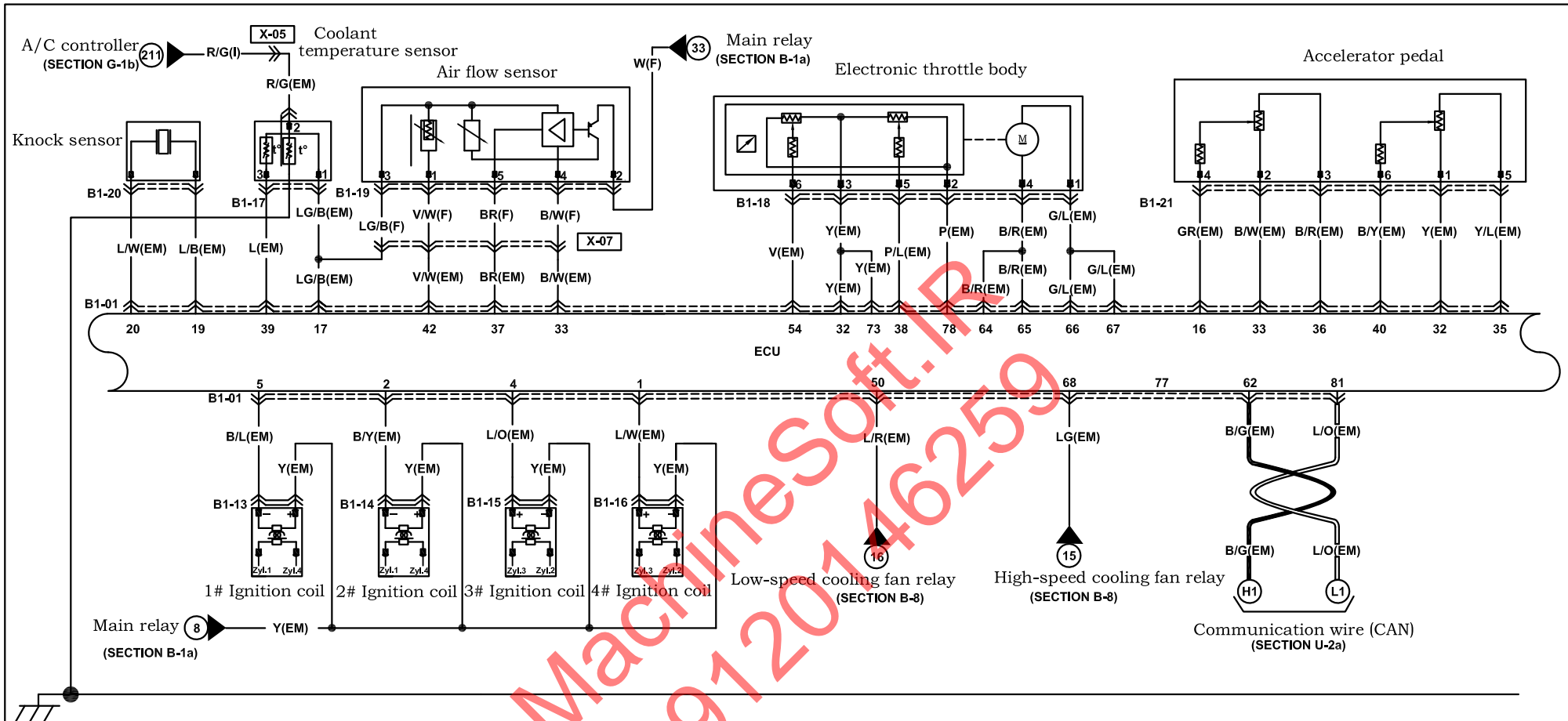


Harness mark:  (F)  (E)  (D)  (R)

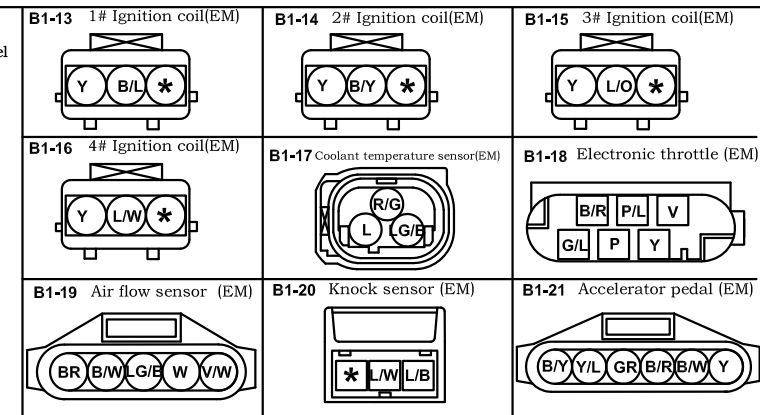






Engine control system (484Q)

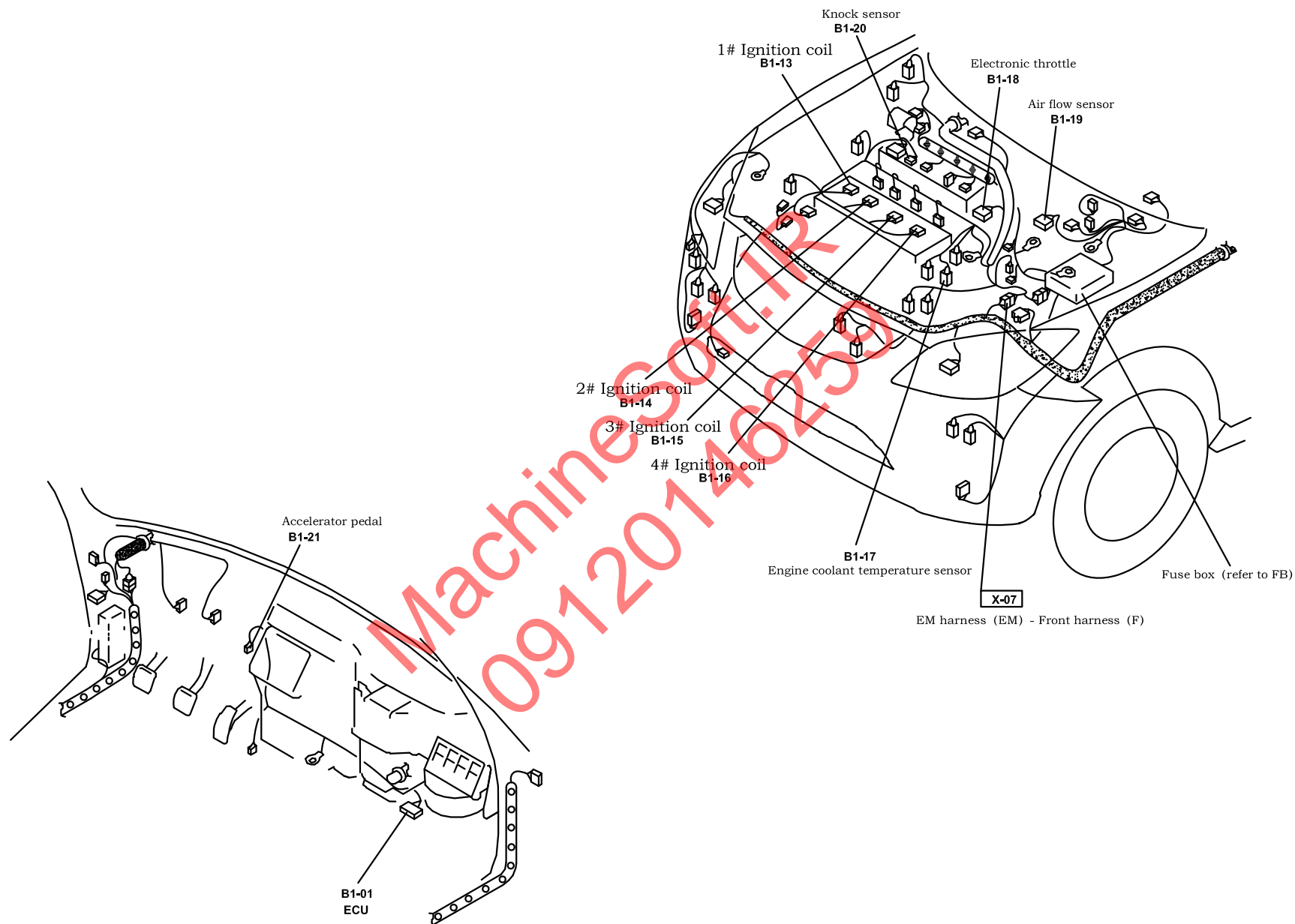
B-1c

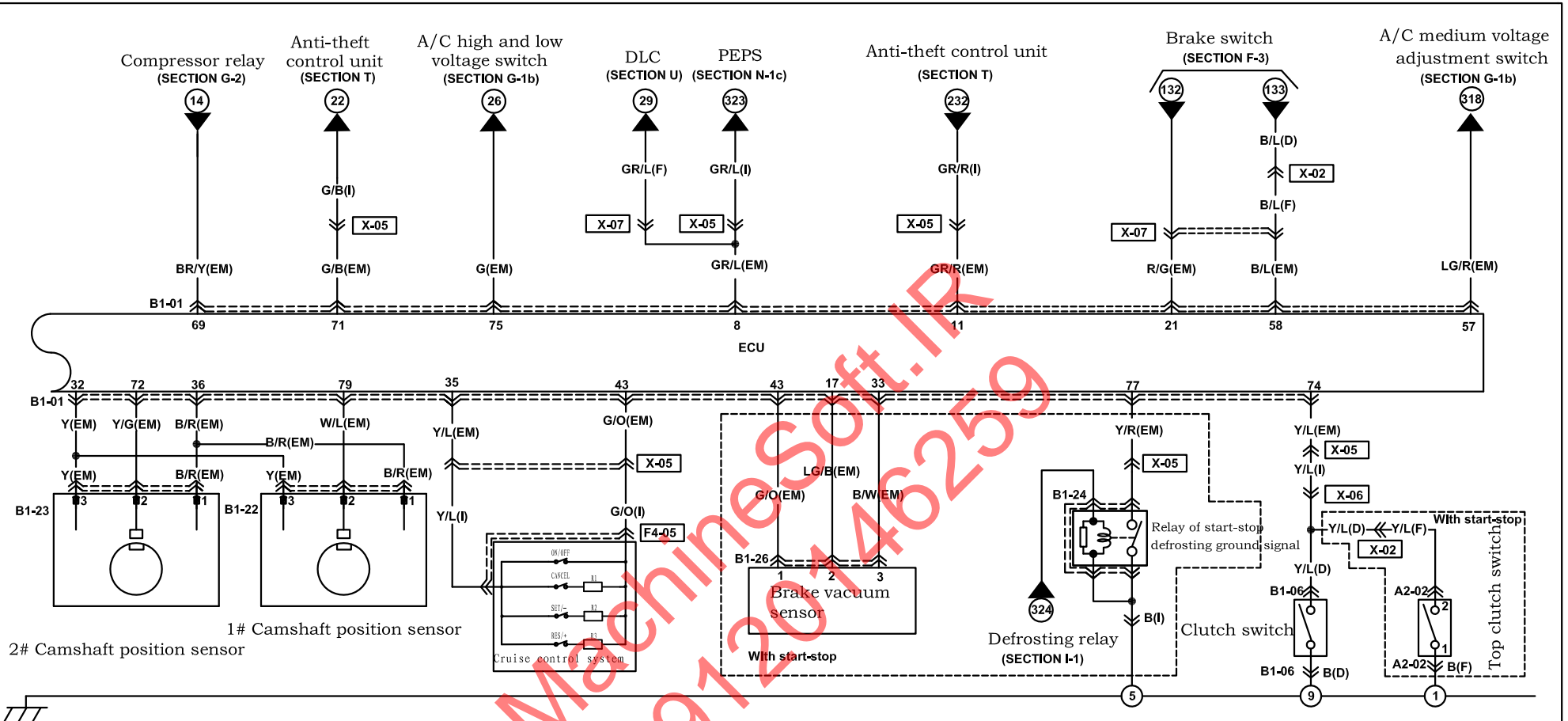


B1-01 ECU(EM)

<> AT Model
& Start-stop model

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

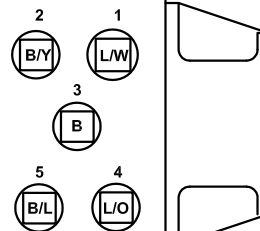




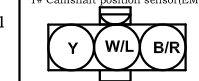
B1-01 ECU(EM)

<> AT Model
& Start-stop model

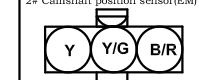
63	W	B/R	B/R	G/L	G/L	LG	BR/Y	W/R	G/B	Y/G	Y	Y/L	G	*	&Y/R	P	W/L	B	L/O	81
44	W	W	B/O	R/L	Y/G	*	L/R	B	&B/R	B	V	O	&W	LG/R	B/L	&O/L	&B/W	B	B/G	62
25	*	R/G	R/B	G/W	Y/L	&Q/W	*	Y	B/W	Y/G	Y/L	B/R	BR	P/L	L	B/Y	&G/R	V/W	&P/G	43
6	R/W	R/Y	GR/L	*	*	&GR/R	G/W	W/B	W/G	W/R	GR	LG/B	R/W	L/B	L/W	R/G	*	*	*	24



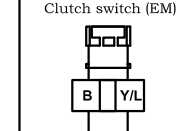
B1-22 1# Camshaft position sensor(EM)



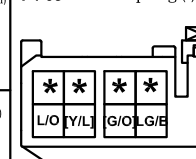
B1-23 2# Camshaft position sensor(EM)



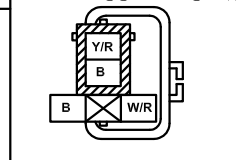
B1-06 Clutch switch (EM)



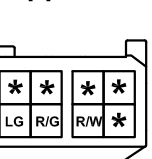
F4-05 Clock spring (I)



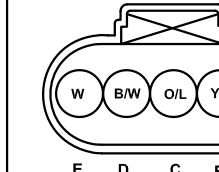
B1-24 Relay of start-stop defrosting ground signal(I)



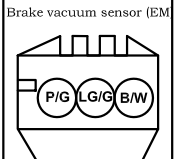
[] With cruise



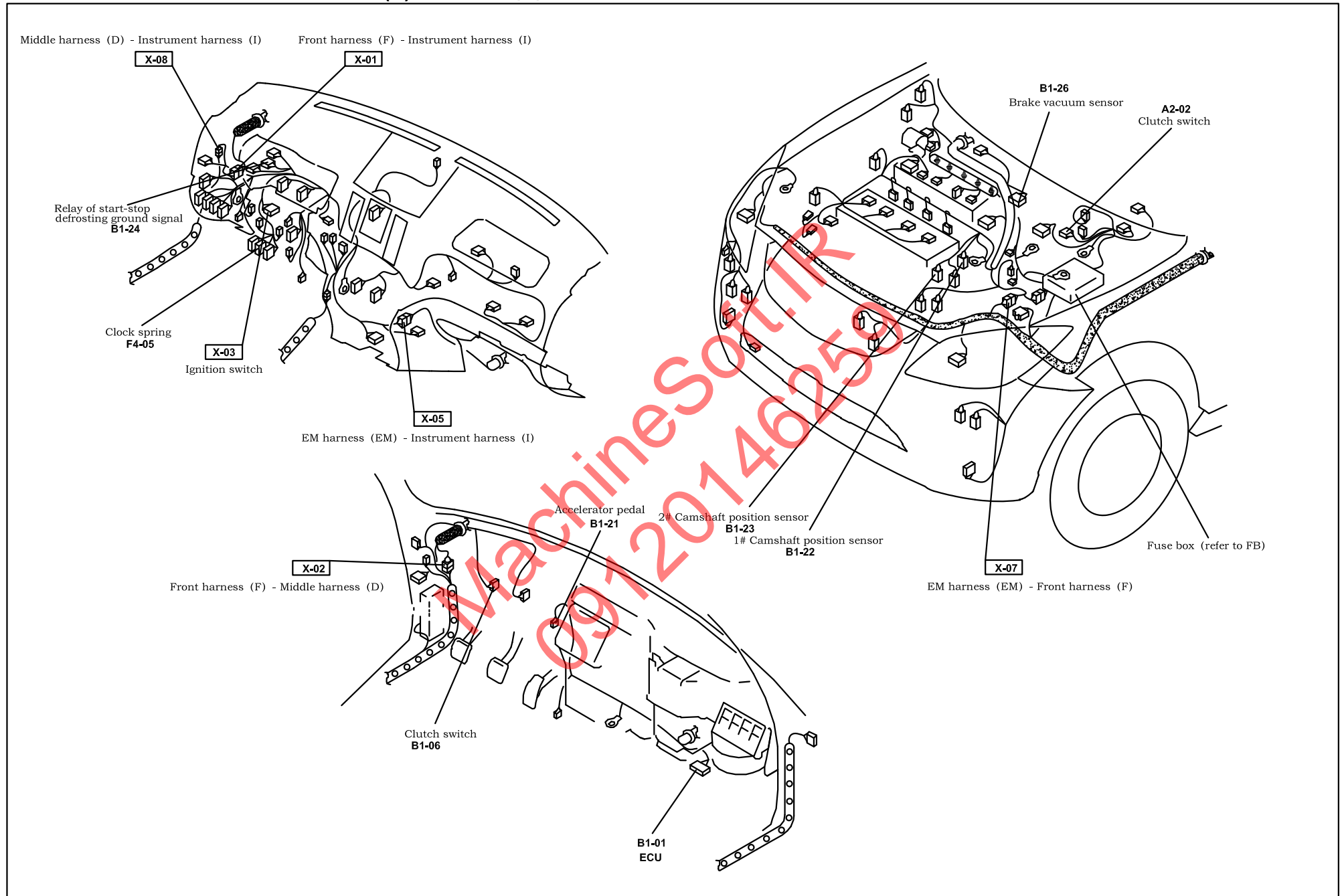
A2-02 Clutch switch (EM)



B1-26 Brake vacuum sensor (EM)

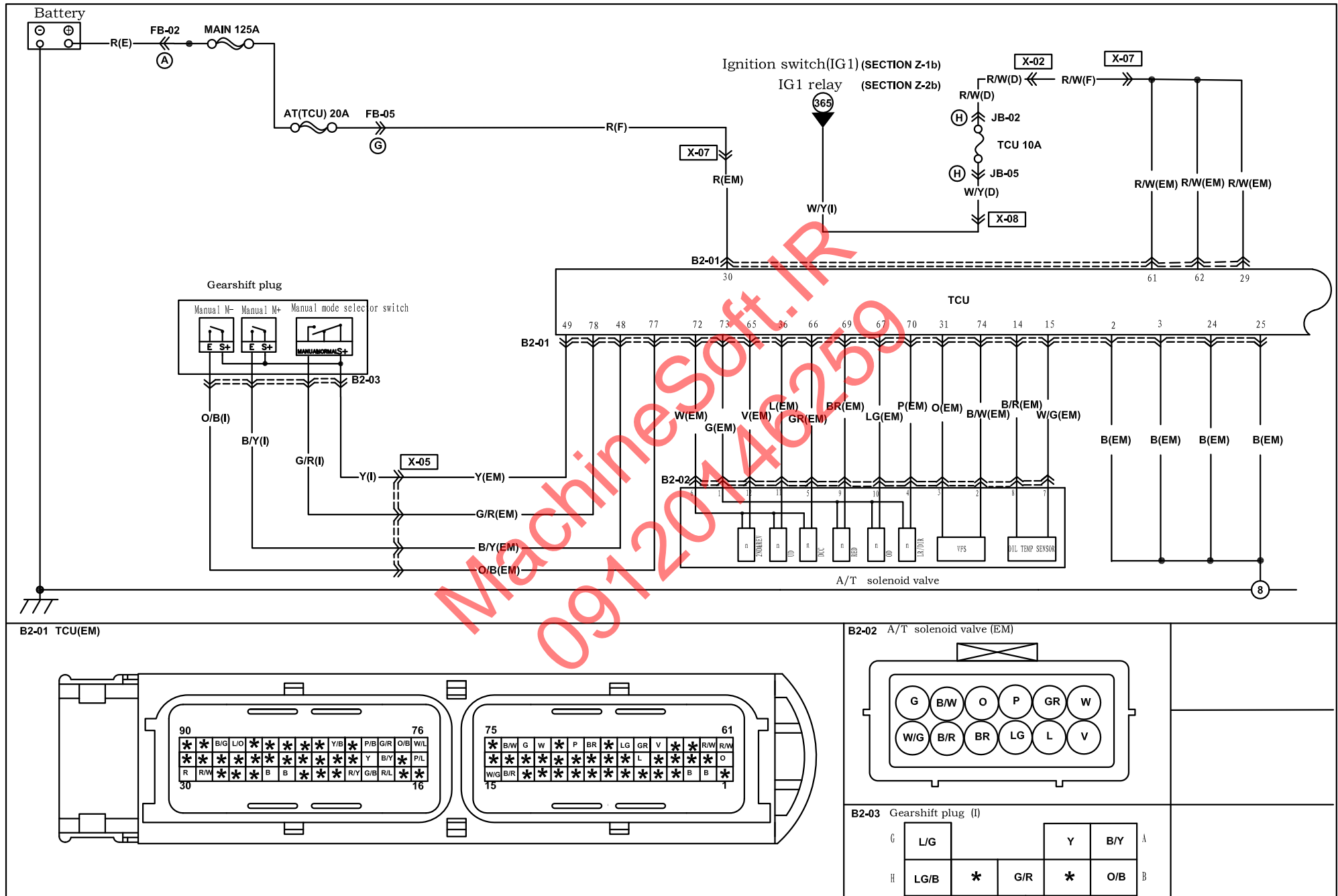


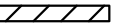
Harness mark:  (F)  (E)  (D)  (R)

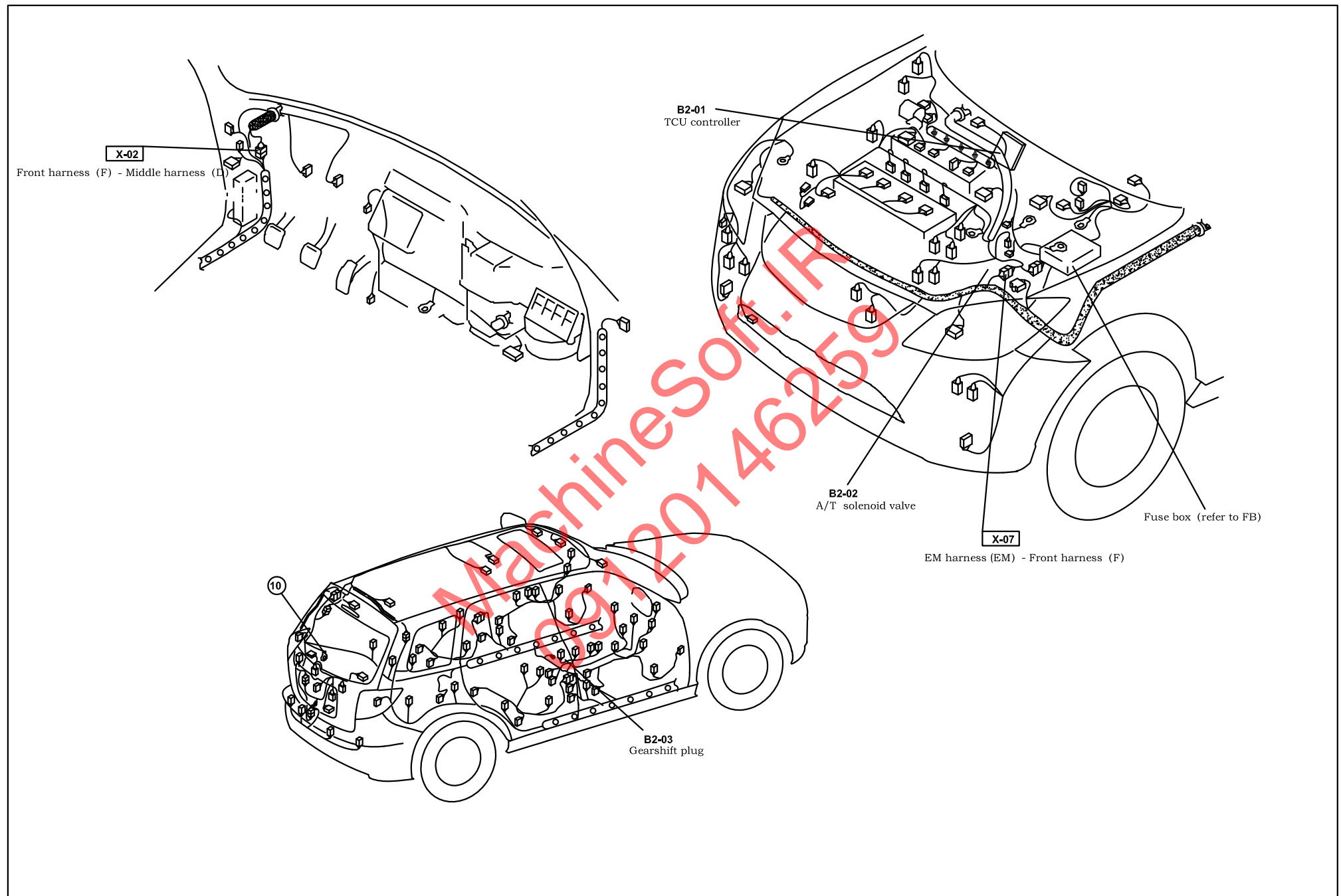


Transmission control system (AT)

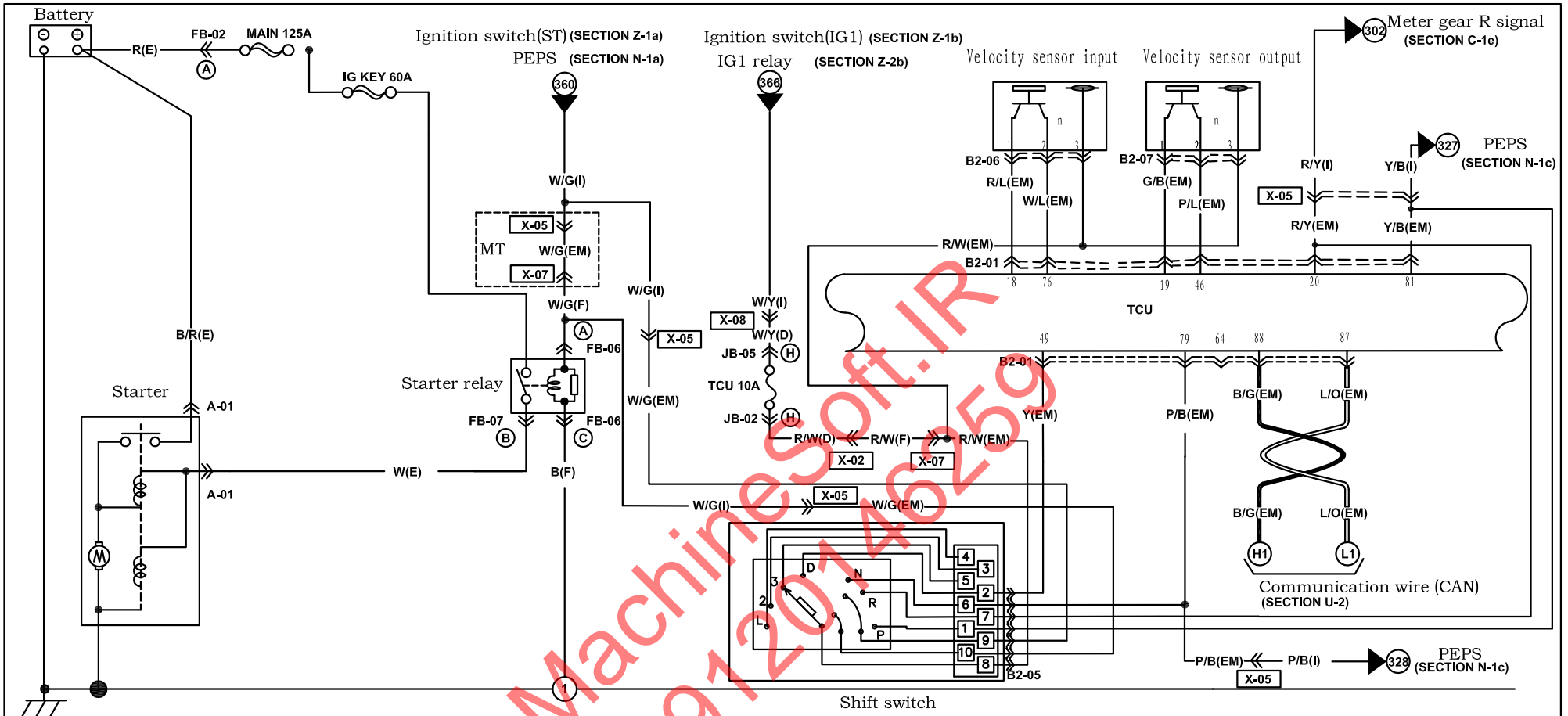
B-2a



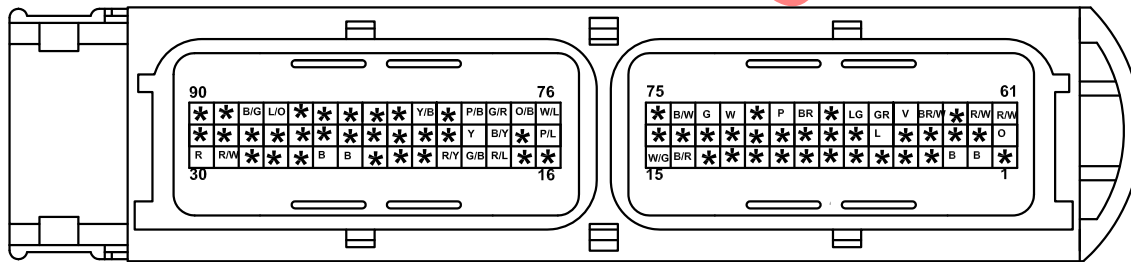
Harness mark:  (F)  (E)  (D)  (R)



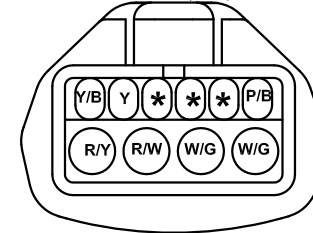
Transmission control system (AT)



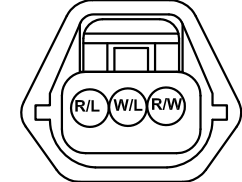
B2-01 TCU(EM)



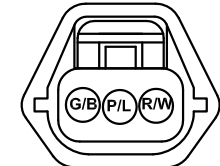
B2-05 Shift switch (EM)




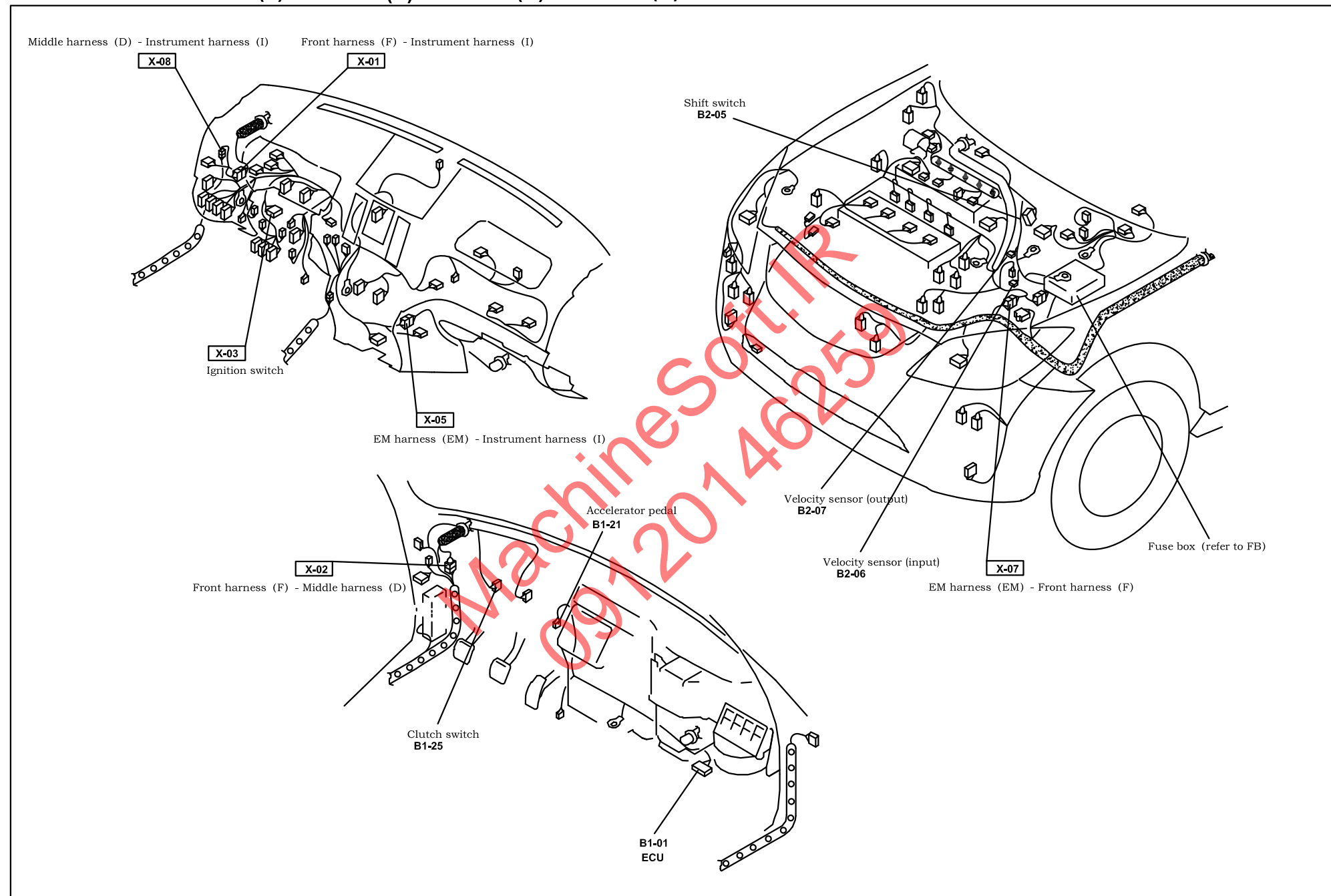
B2-06 Velocity sensor input (EM)



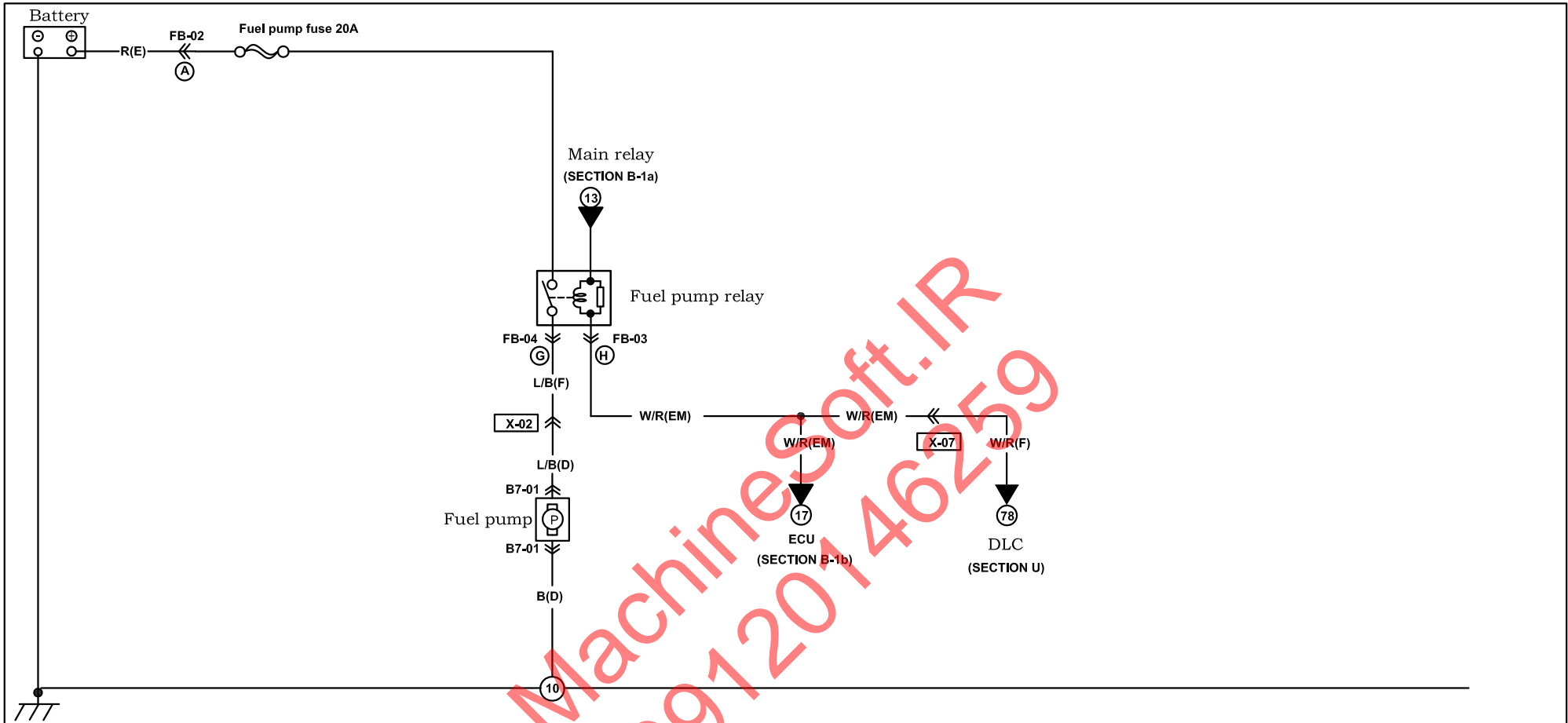
B2-07 Velocity sensor output (EM)



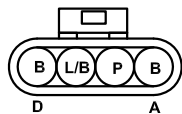
Harness mark:  (F)  (E)  (D)  (R)

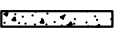


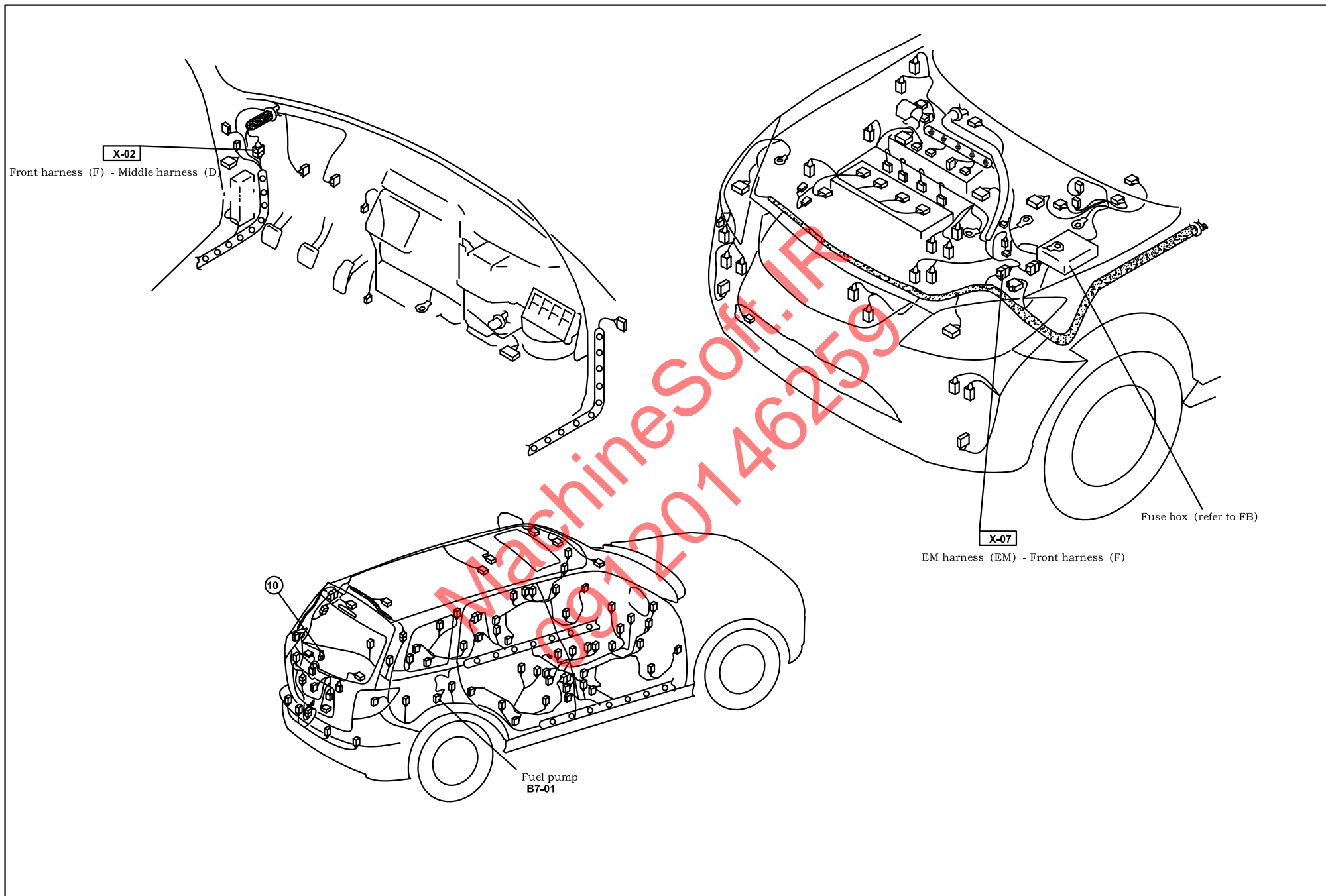
Fuel pump control system



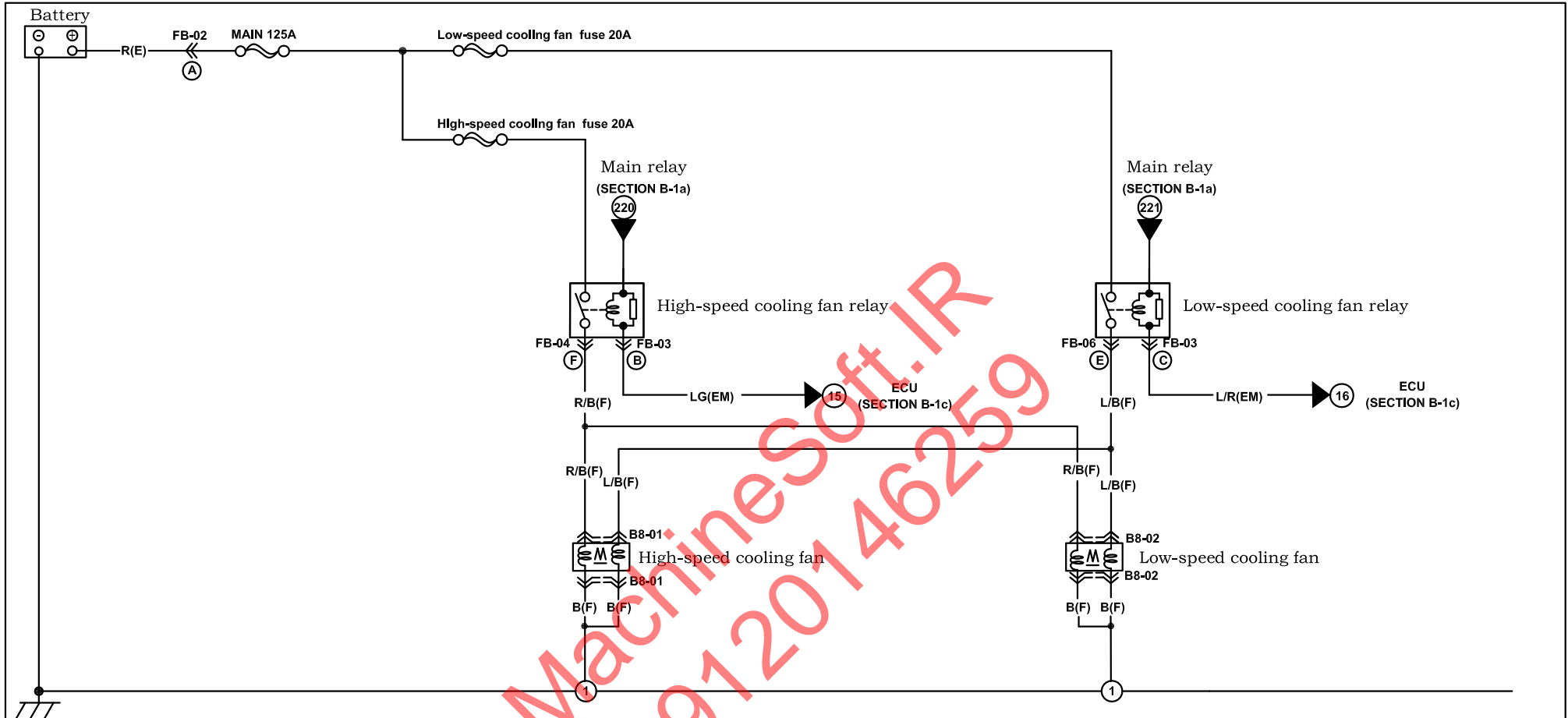
B7-01 Fuel pump (D)

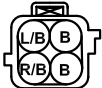
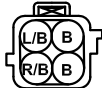


Harness mark:  (F)  (E)  (D)  (R)

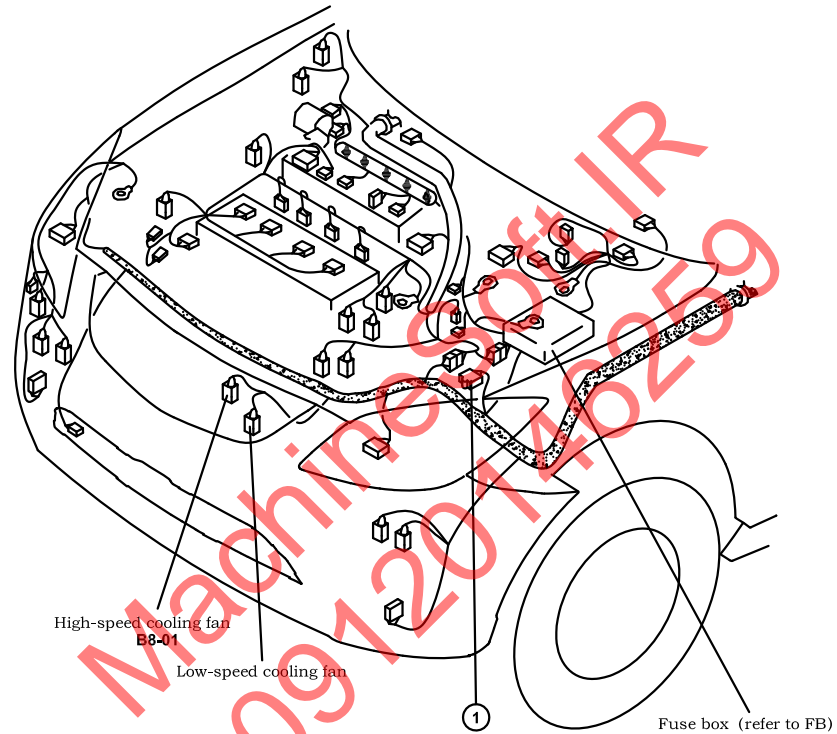


Fan control system



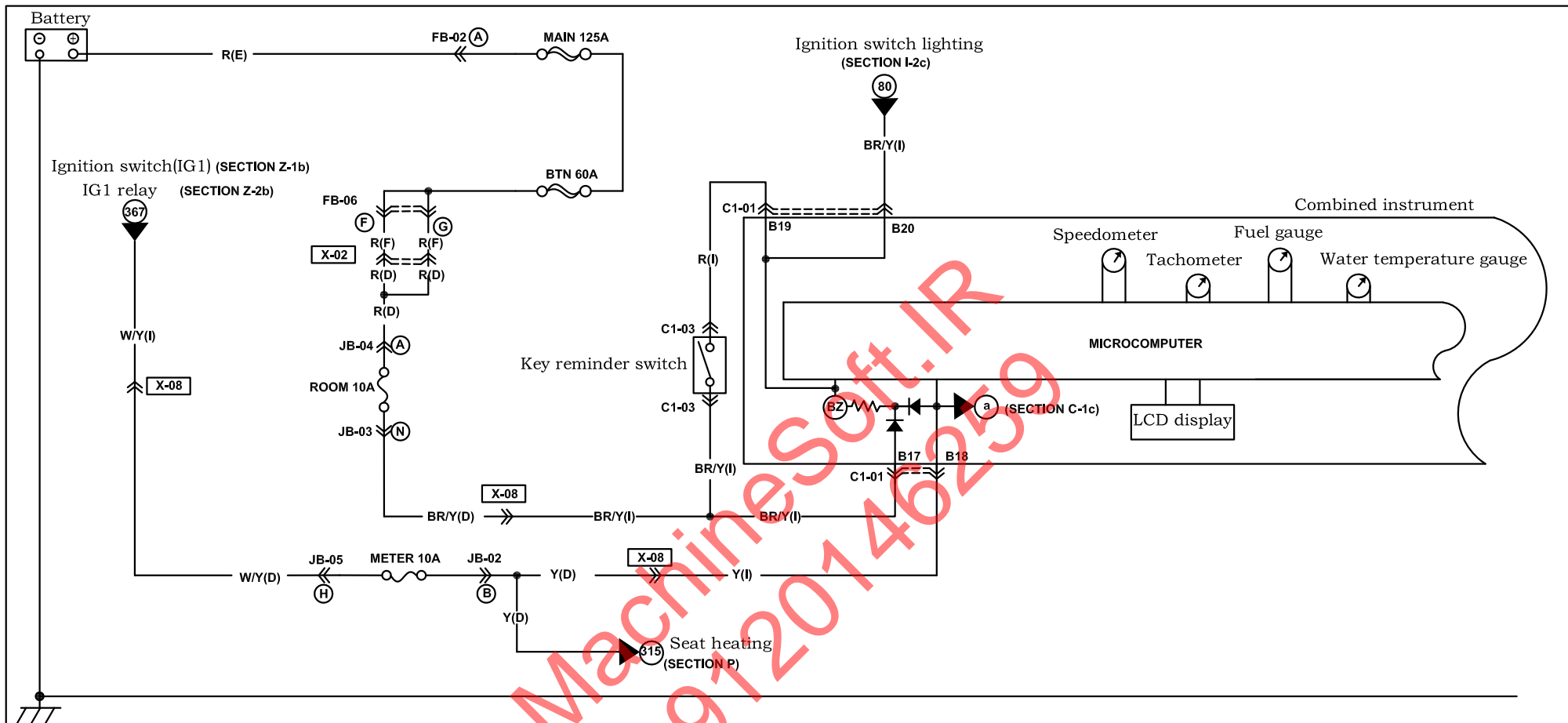
B8-01 High-speed cooling fan (F) 	B8-02 Low-speed cooling fan (F) 					

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



Combined instrument

C-1a



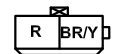
C1-01 Combined instrument (I)

() with ESP

C1-01 Combined instrument (I)

\$ with PEPS
@ with ignition switch

C1-03 Key reminder switch (I)



A1

A16

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

A17

A32

B1

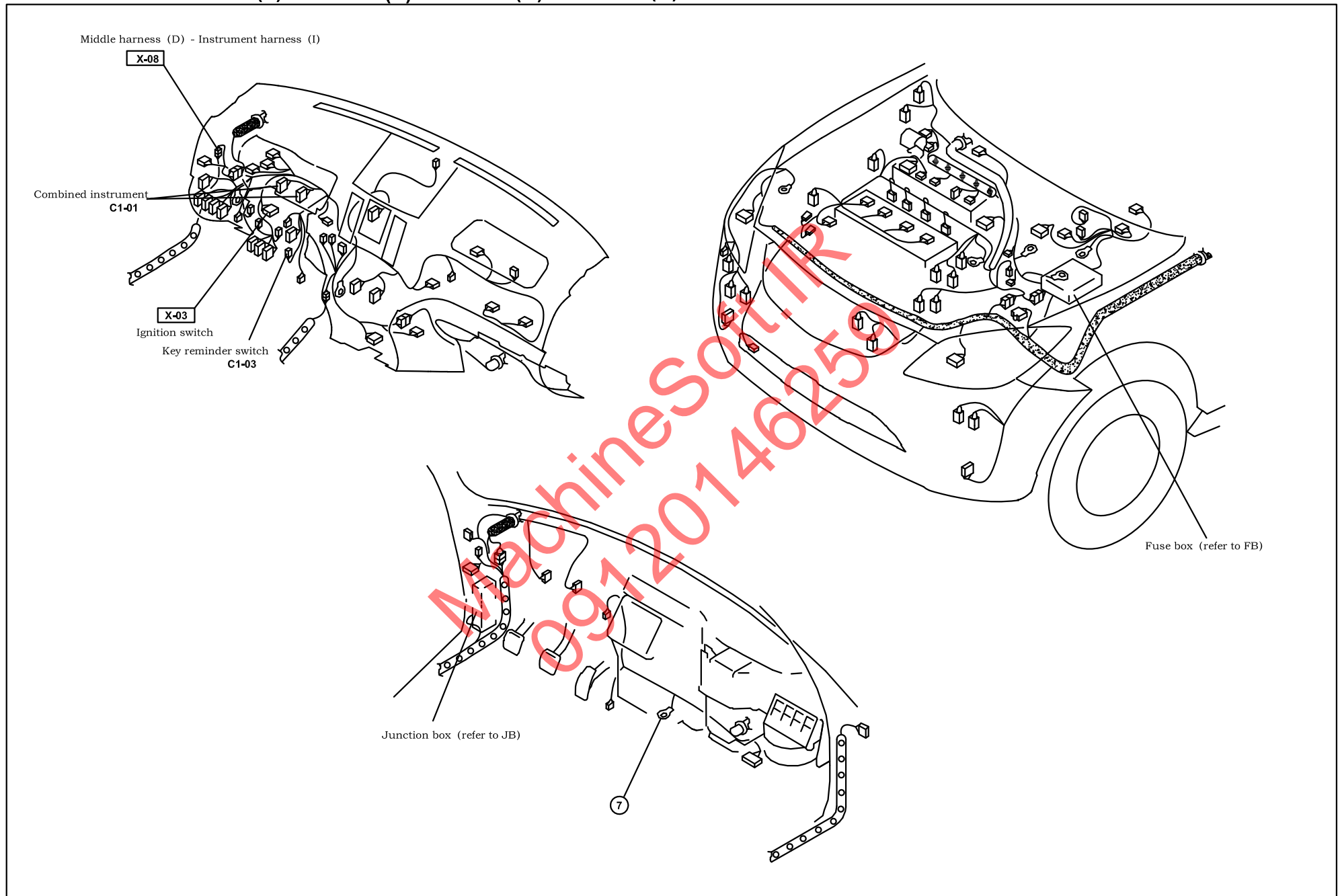
B16

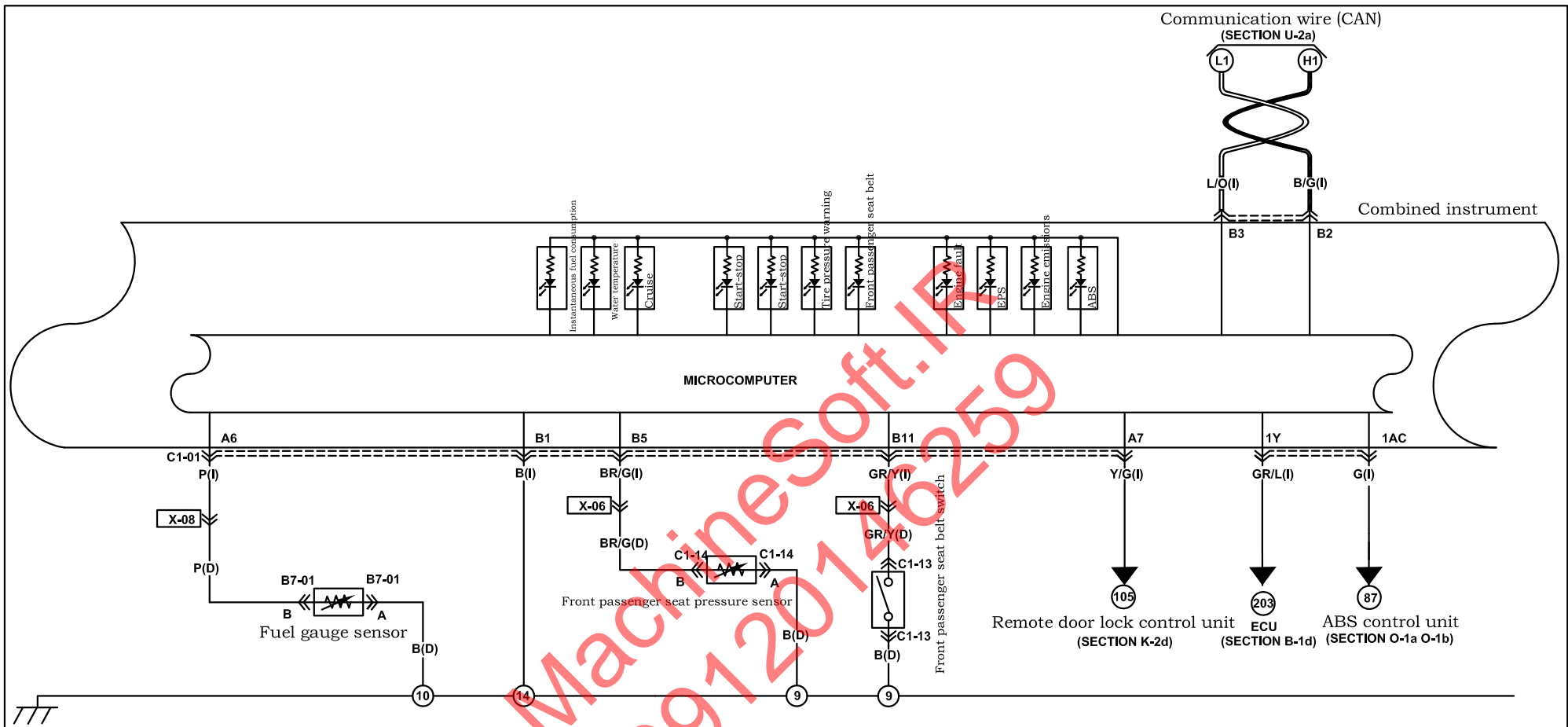
B	B/G	L/O	*	BR/G	\$L/B	\$L/W	G/Y	B/W	GR	GR/Y	Y/R	BR/W	L/R	V	Y/B
BR/Y	Y	@R	@V/W	BR/E	*	*	*	*	*	*	*	*	*	*	*

B17

B32

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





C1-01 Combined instrument (I)

() with ESP

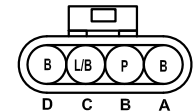
C1-01 Combined instrument (I)

\$ with PEPS
@ with ignition switch

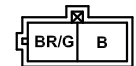
A1	B/Y	B/L	B/W	B/R	R/Y	P	Y/G	(G/O)	(V/W)	*	*	*	*	*	*	A16
A17	LG	LG/B	*	*	*	*	*	*	*	*	*	G/B	LG/R	G/W	G/R	Y/L
A32																

B1															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		

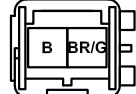
B7-01 Fuel gauge sensor (D)



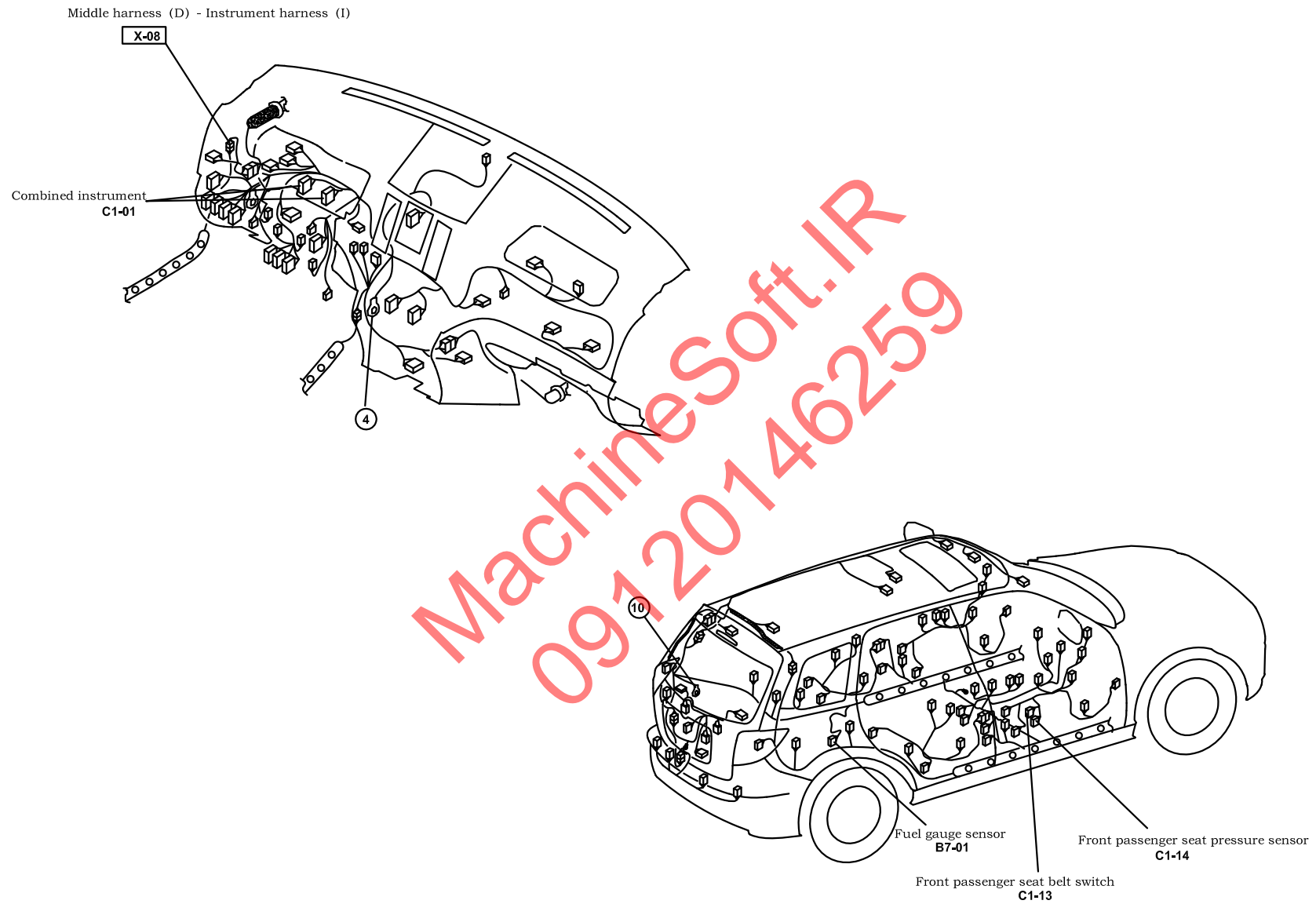
C1-13 Front passenger seat belt switch(D)

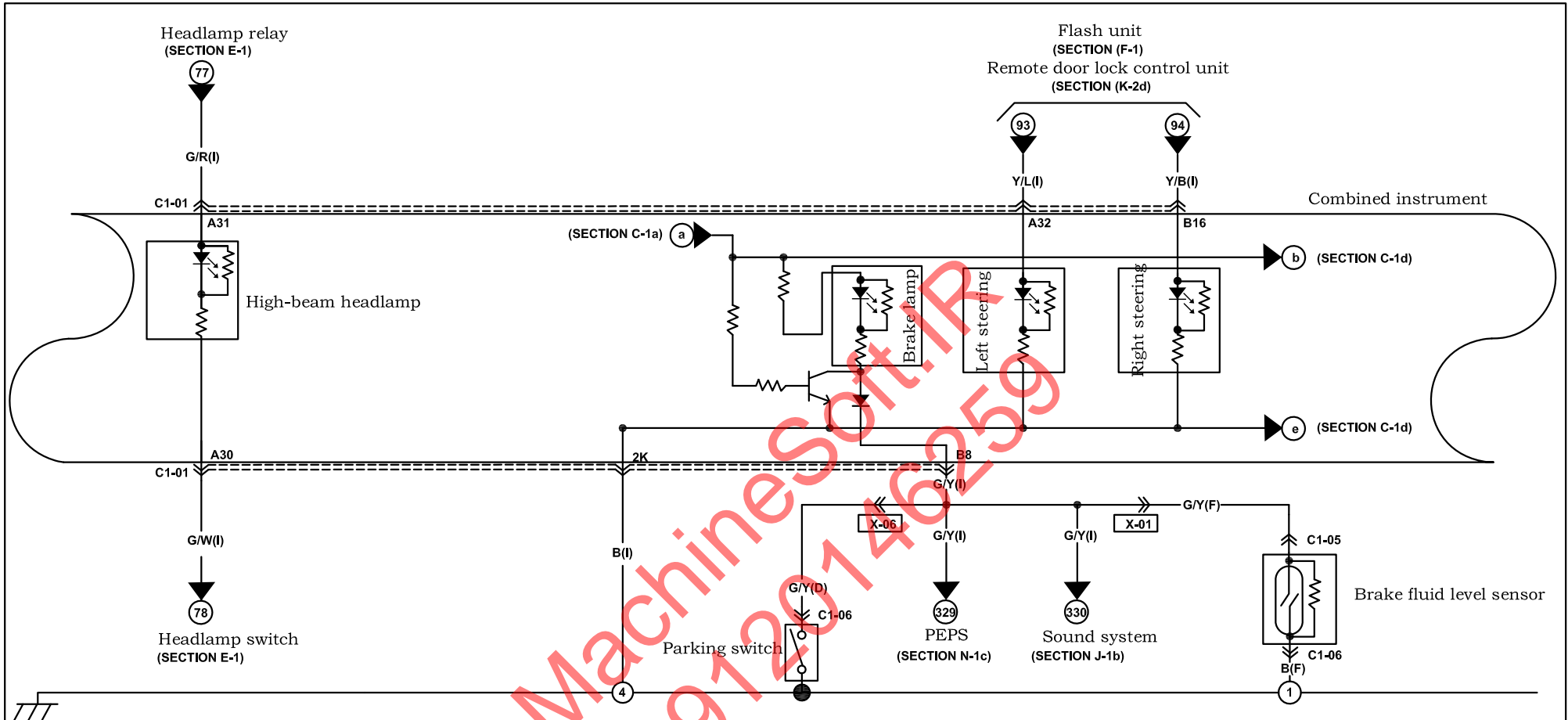


C1-14 Front passenger seat pressure sensor(D)



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





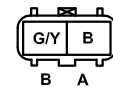
C1-01 Combined instrument (I)

() with ESP

C1-01 Combined instrument (I)

\$ with PEPS
@ with ignition switch

C1-05 Brake fluid level sensor (F)

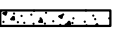
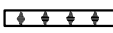
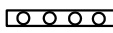
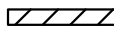


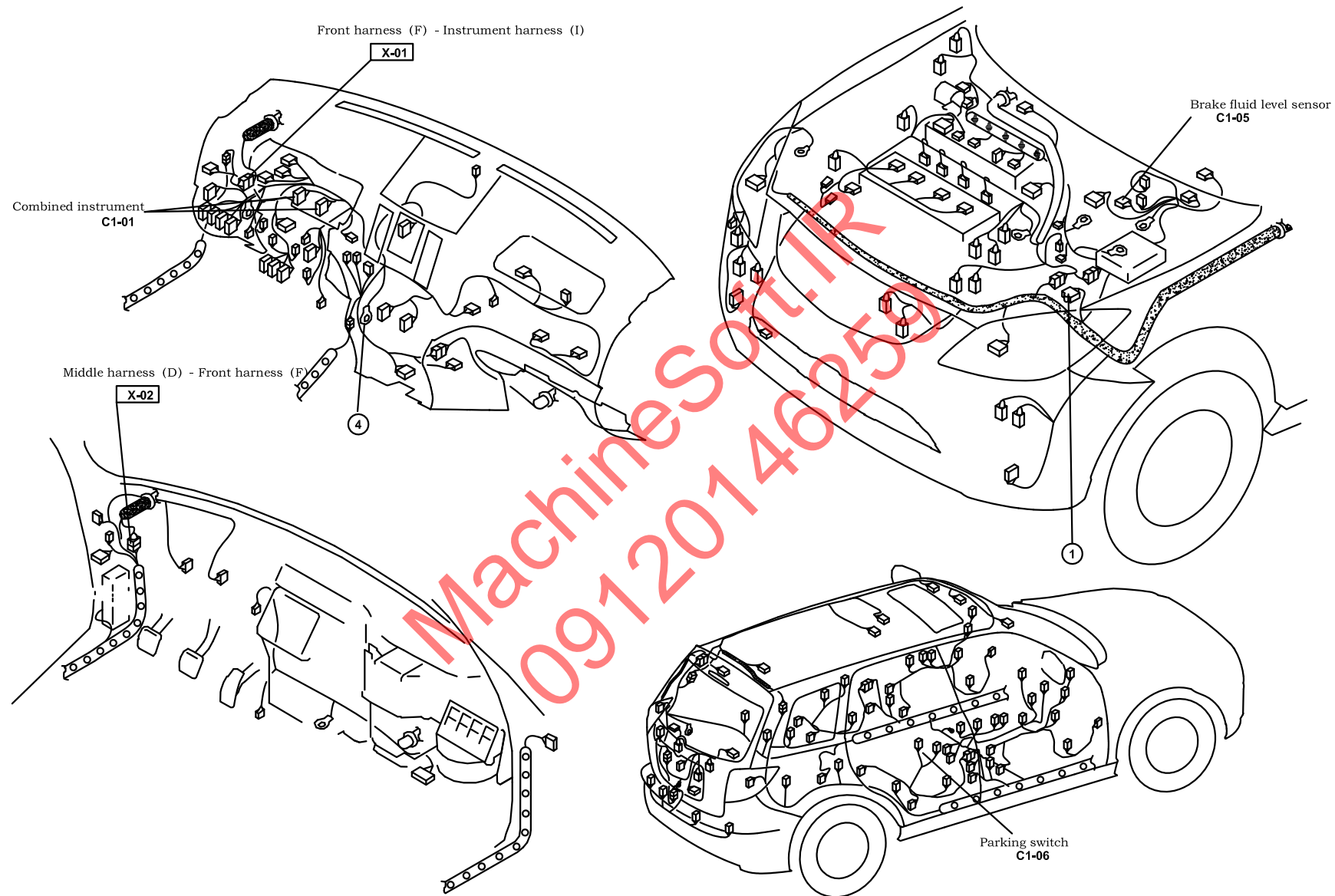
C1-06 Parking switch (D)

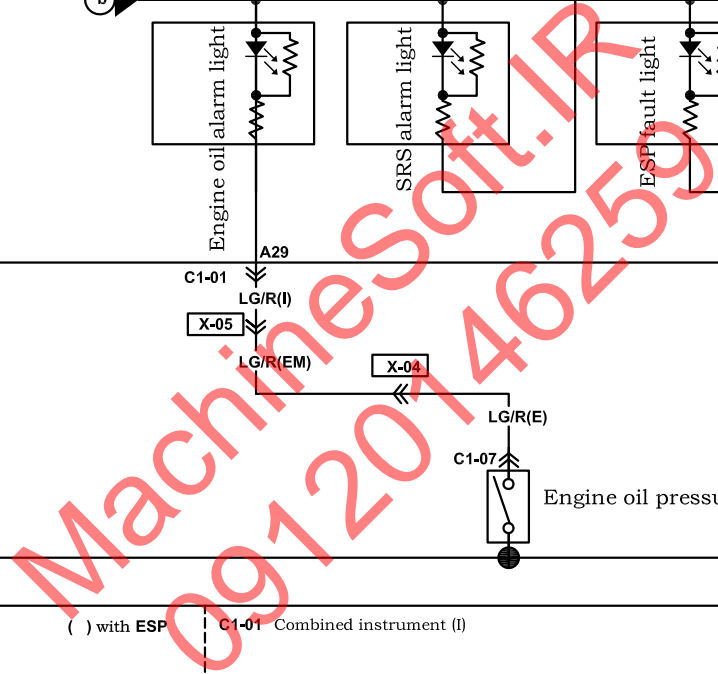


A1	B/Y	B/L	B/W	B/R	R/Y	P	Y/G	(G/O)	(V/W)	*	*	*	*	*	*	*	A16
A17	LG	LG/B	*	*	*	*	*	*	*	*	*	G/B	LG/R	G/W	G/R	Y/L	A32

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

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



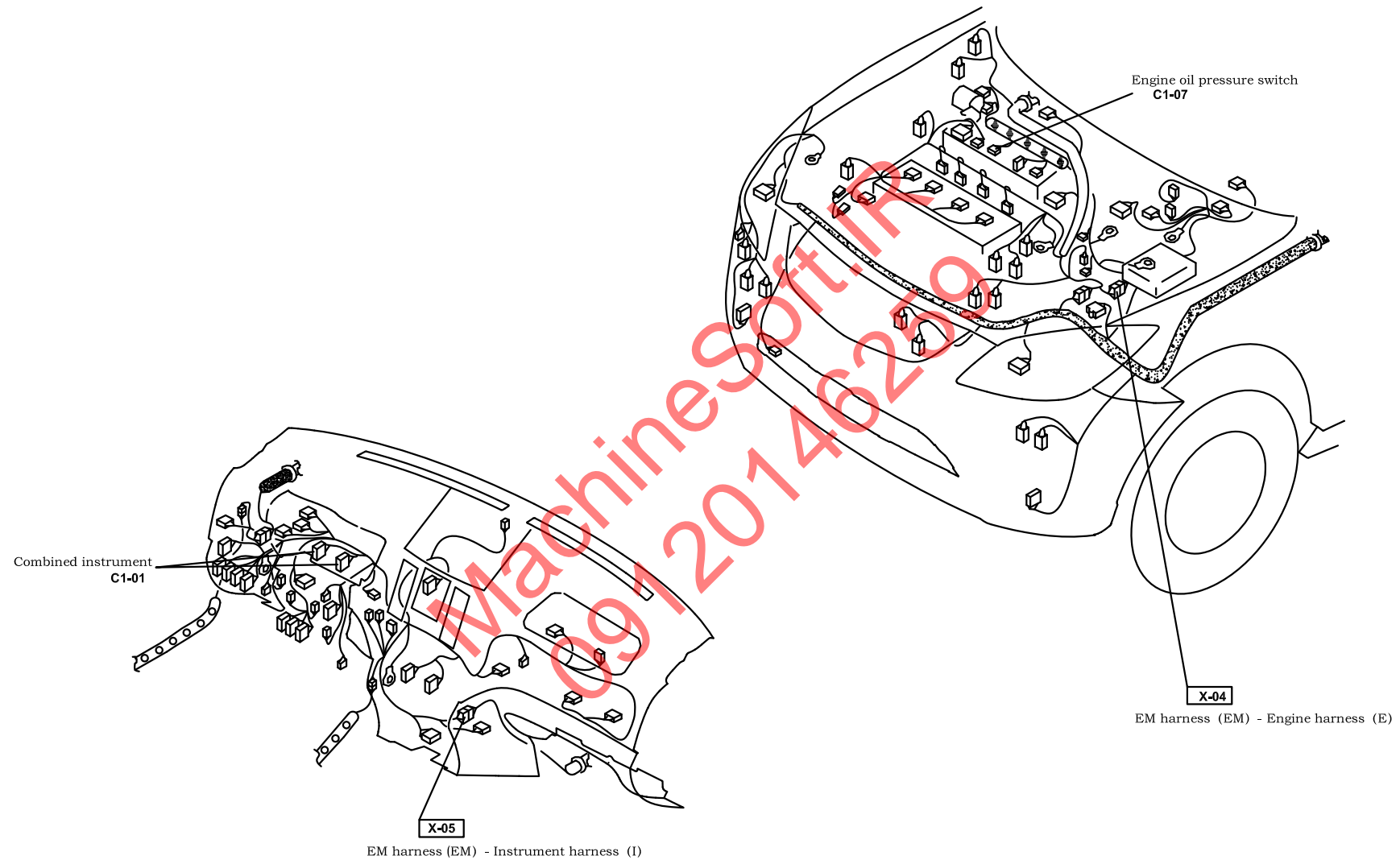


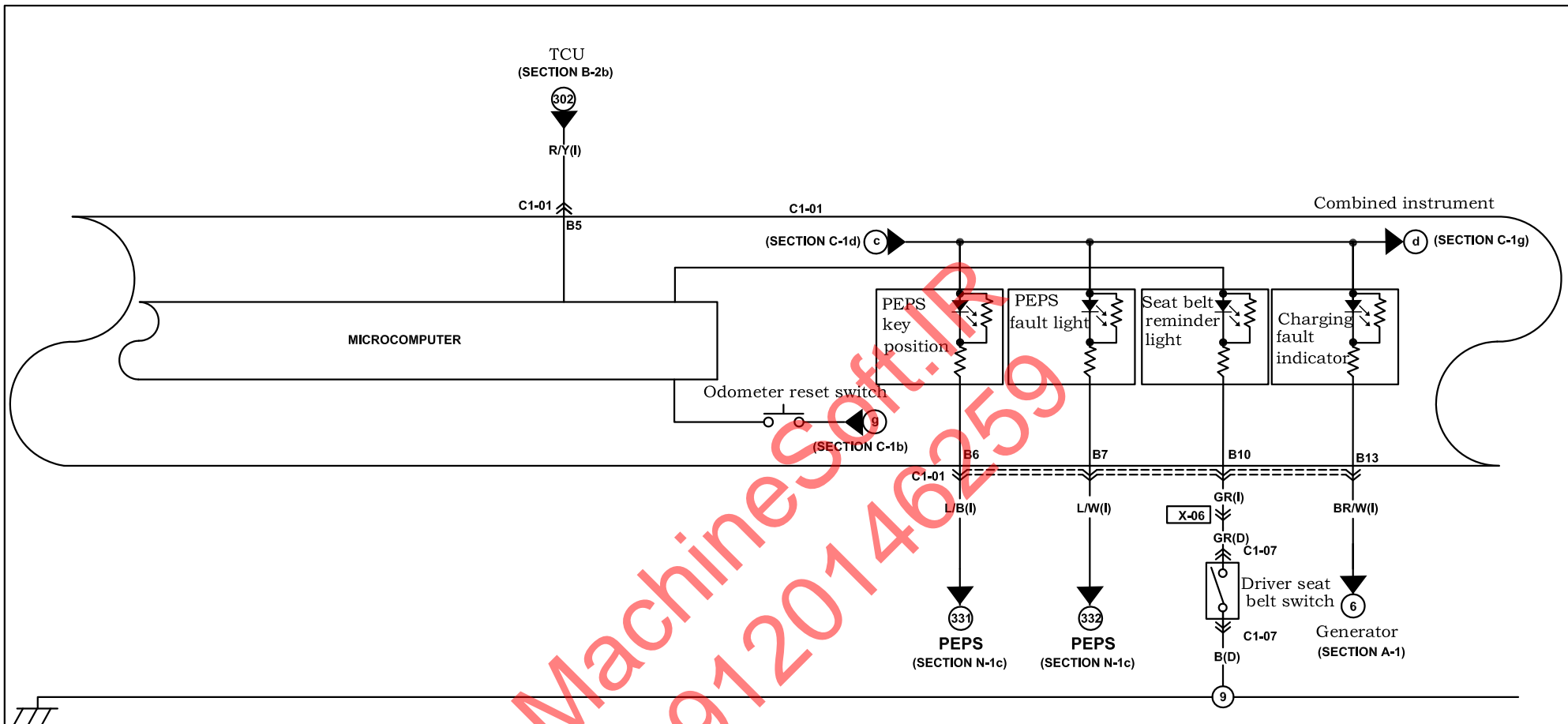
() with ESP

\$ with PEPS
@ with ignition switch

[illegible]

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





C1-01 Combined instrument (I)

() with ESP

C1-01 Combined instrument (I)

\$ with PEPS
@ with ignition switch

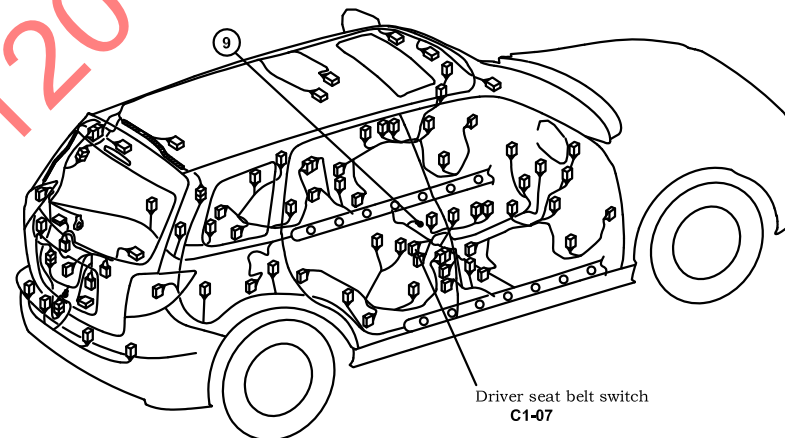
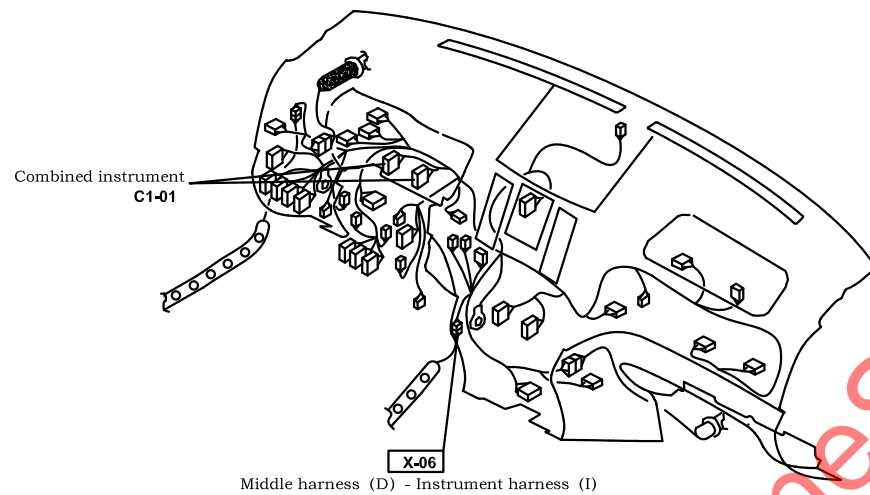
C1-07 Driver seat belt switch (D)



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	A32

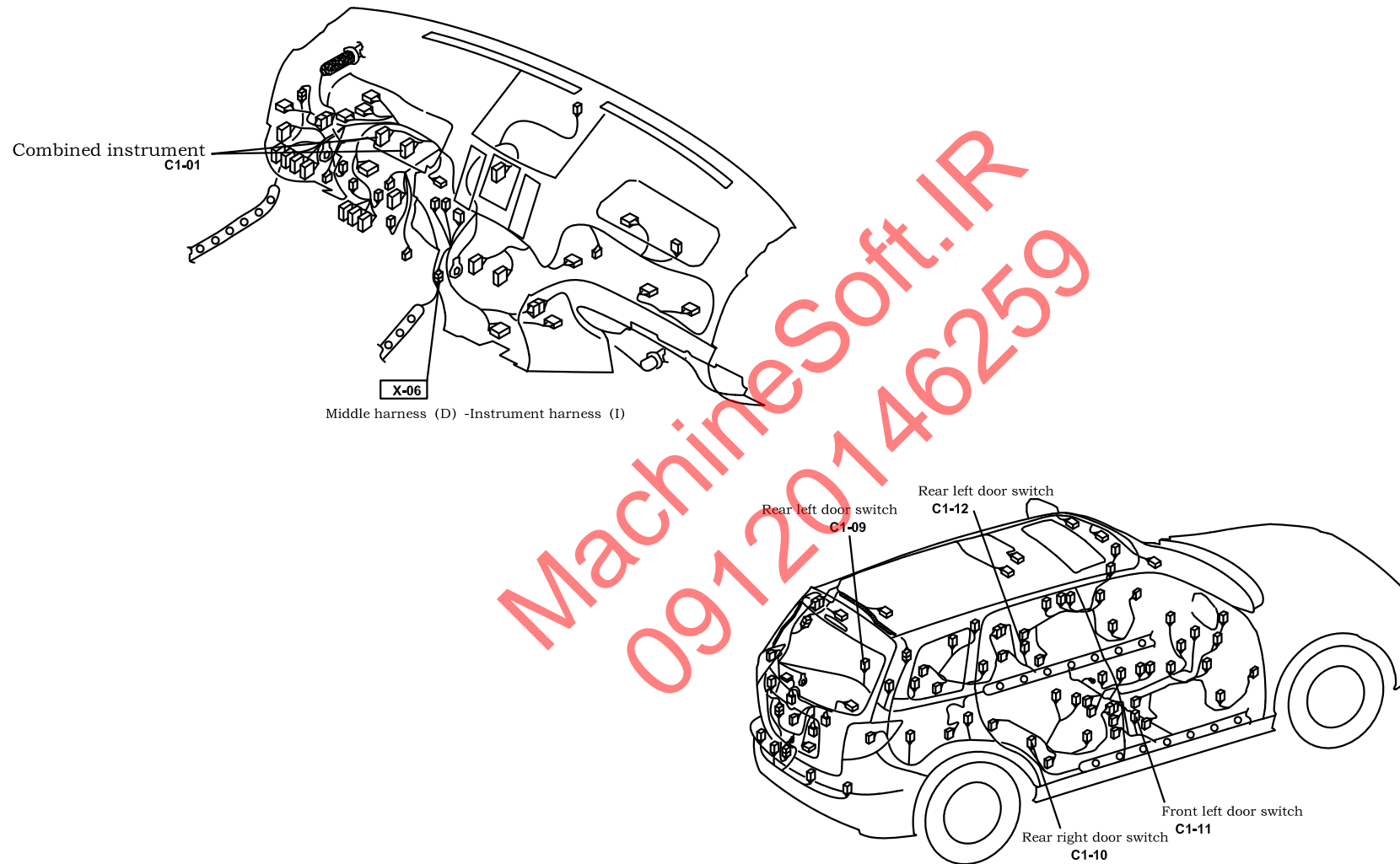
B1	B	B/G	L/O	*	BR/G	\$L/B	\$L/W	G/Y	B/W	GR	GR/Y	Y/R	BR/W	L/R	V	Y/B	B16
B17	BR/Y	Y	@	@/V/W	BR/E	*	*	*	*	*	*	*	*	*	*	*	B32

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

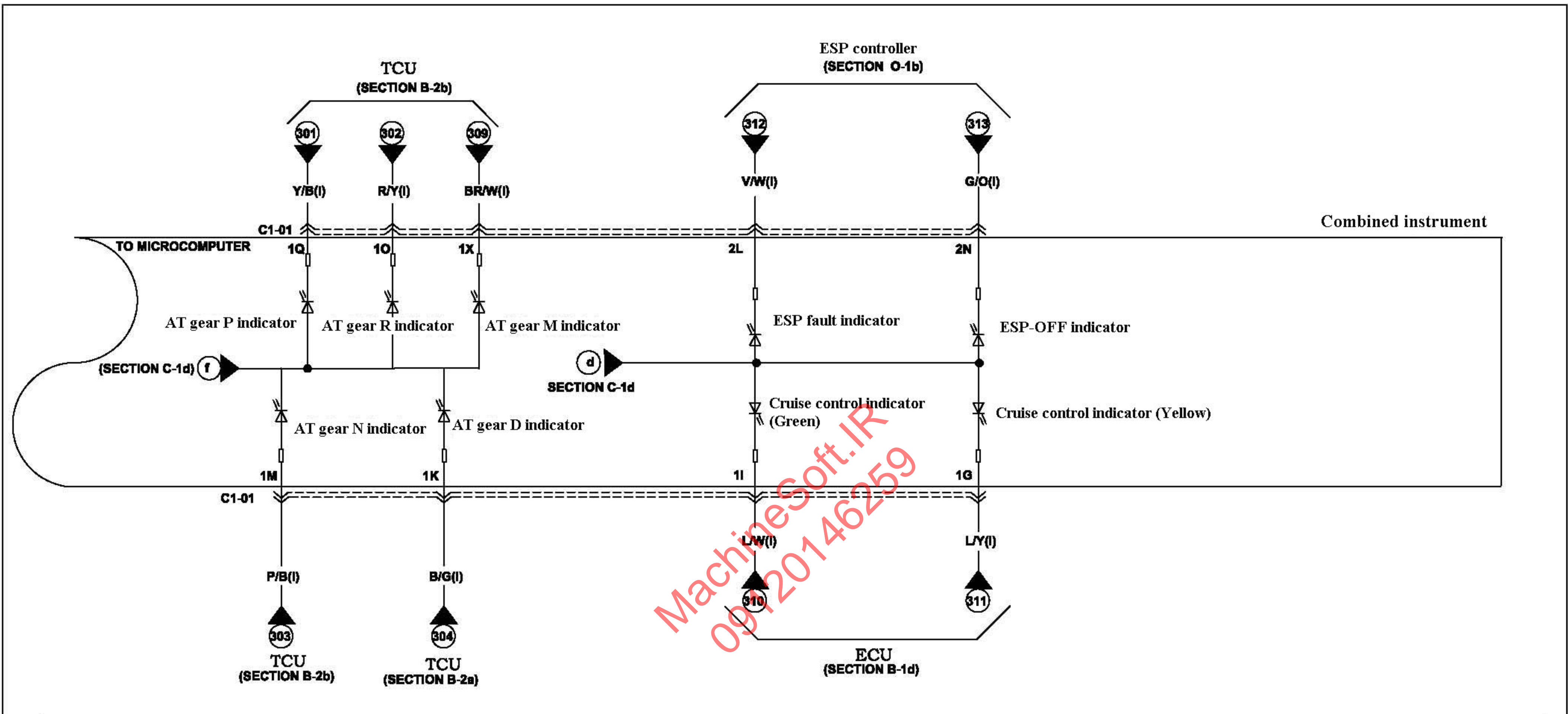




Harness mark:  (F)  (E)  (D)  (R)



Combined instrument



C1-01 Combined instrument (I)

() With ESP
 [] With cruise control
 < > AT

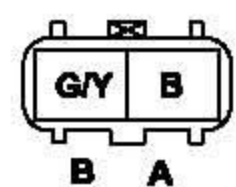
1AE															1A	
BR/Y	G	Y	GR/L	B	R/G	P	<Y/B>	<R/Y>	<P/B>	<B/G>	L/W	L/Y	*	*	W	
LG/B	*	LG	*	<BR/W>	V/W	*	*	*	R	*	B/W	GR	P/L	Y/G	Y/R	
1AF															1B	

C1-01 Combined instrument (I)

() With ESP
 [] With cruise control
 < > AT

2Q	Y/L	B/W	BR/B	B	GR/R	*	LG/R	BR/W	G/Y	2A
2R	Y/B	*	(G/O)	(V/W)	L/R	G/R	V	G/W	*	2B

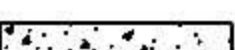

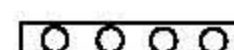

C1-05 Fluid level sensor (F)

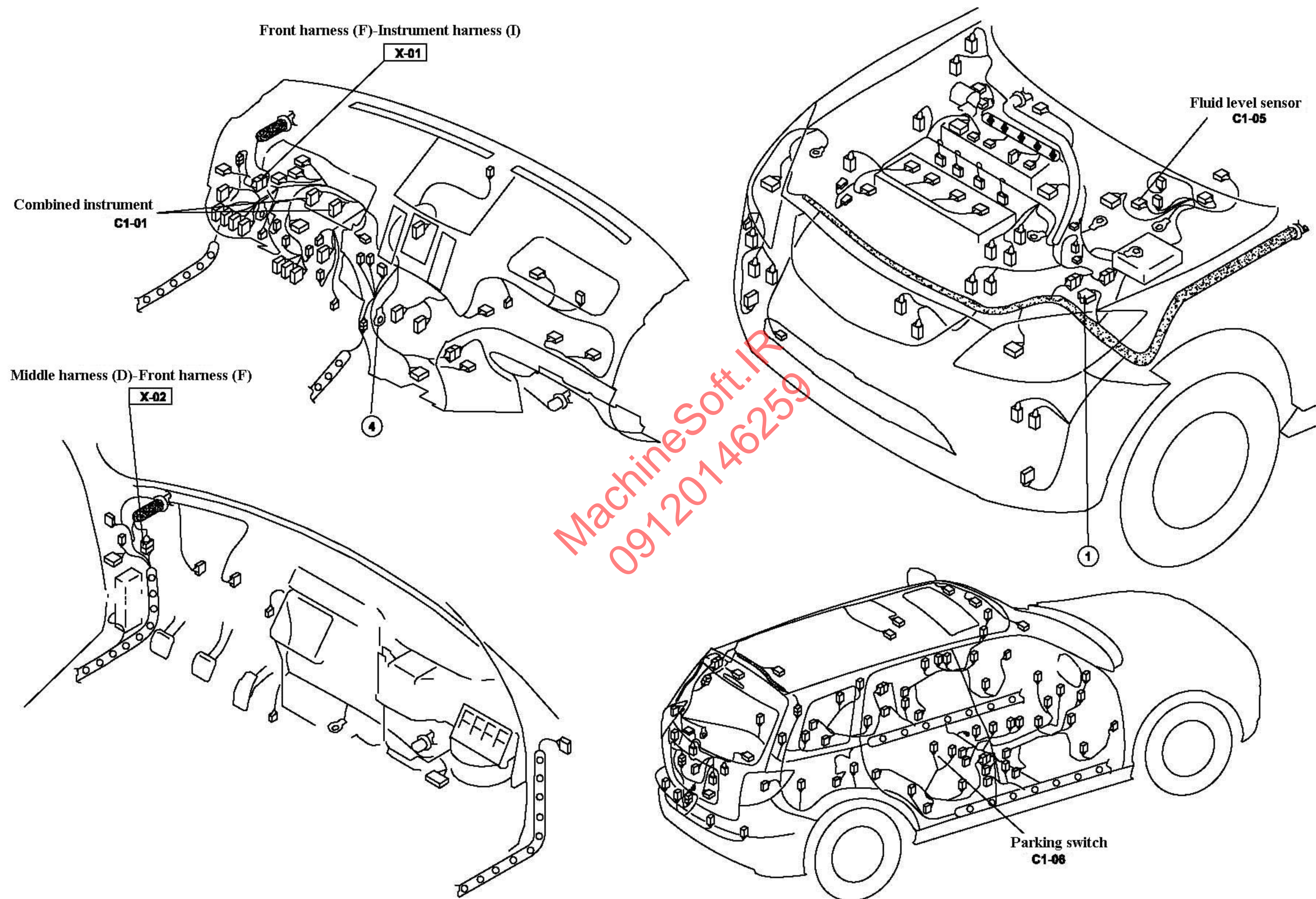


C1-06 Parking switch (D)



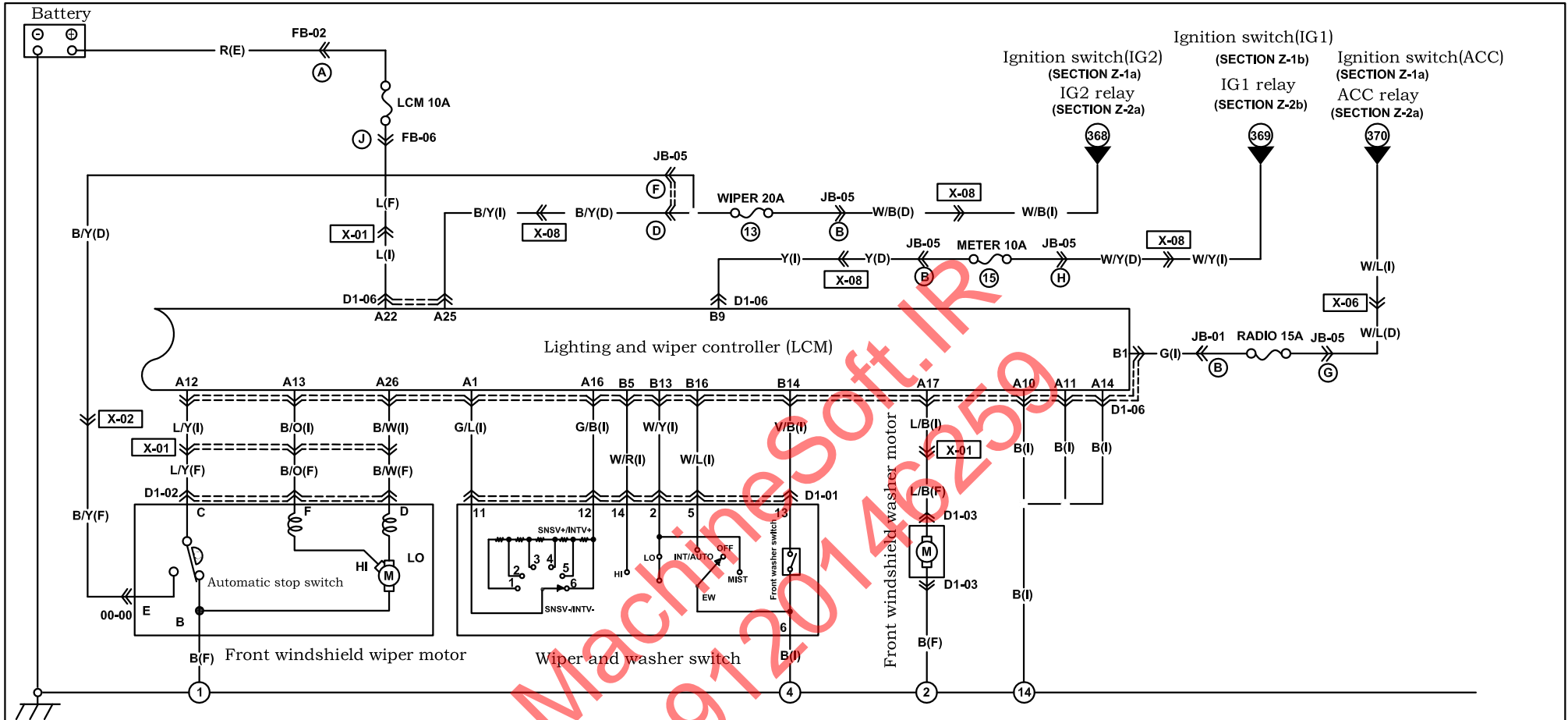
Harness

identification:  (F)  (E)  (D)  (R)

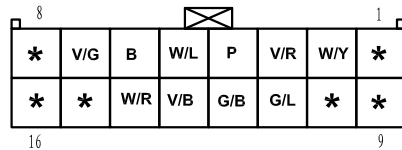


Windshield wiper and washer

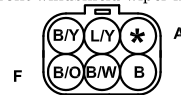
D-1a



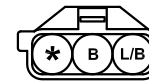
D1-01 Windshield wiper and washer switch (I)



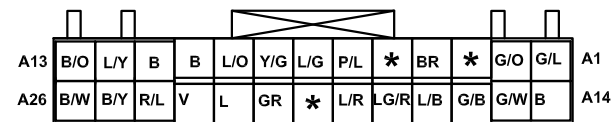
D1-02 Front windshield wiper motor (F)



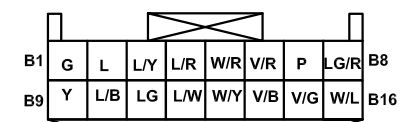
D1-03 Front windshield washer motor (F)




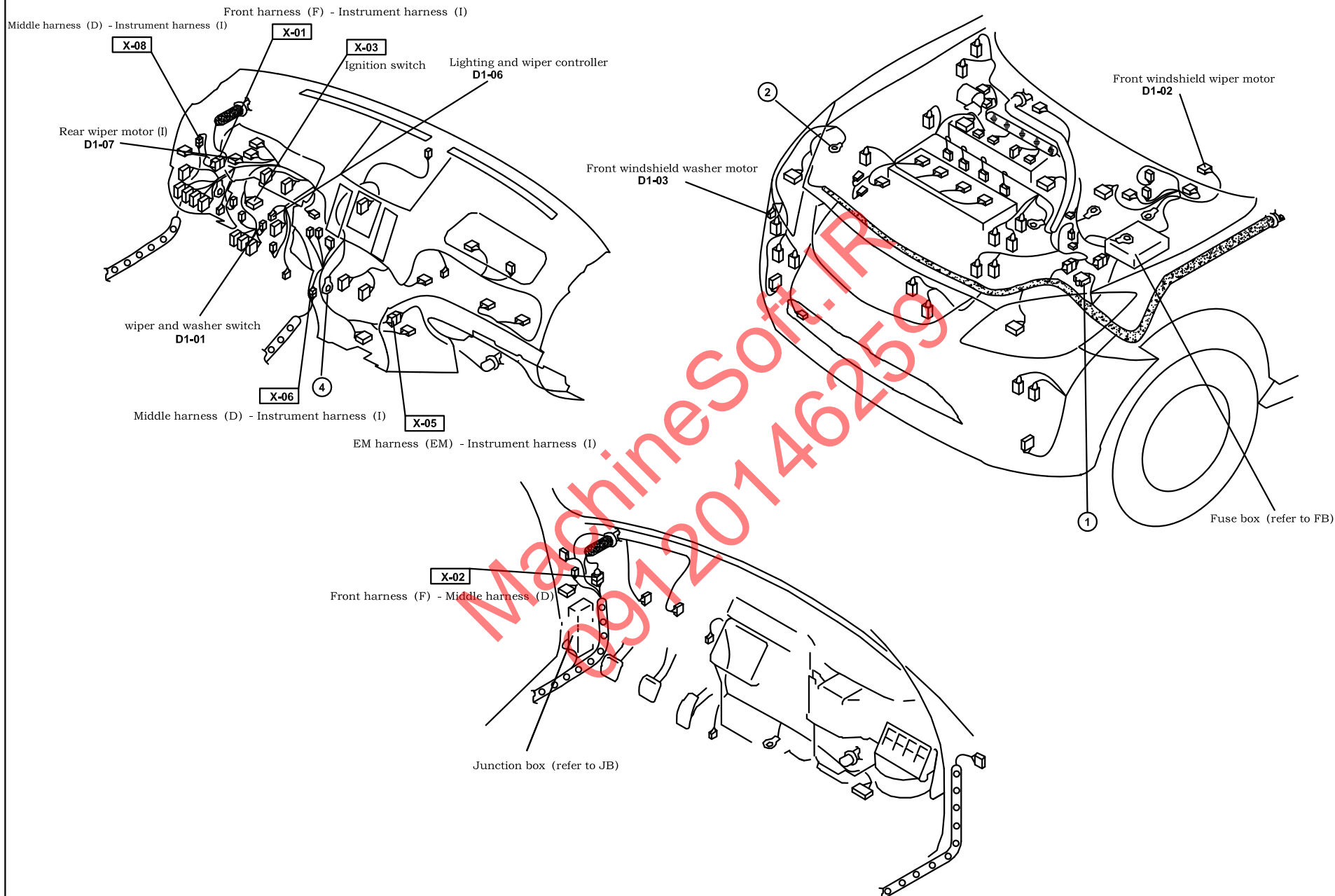
D1-06 Lighting and wiper controller (I)



D1-06 Lighting and wiper controller (I)

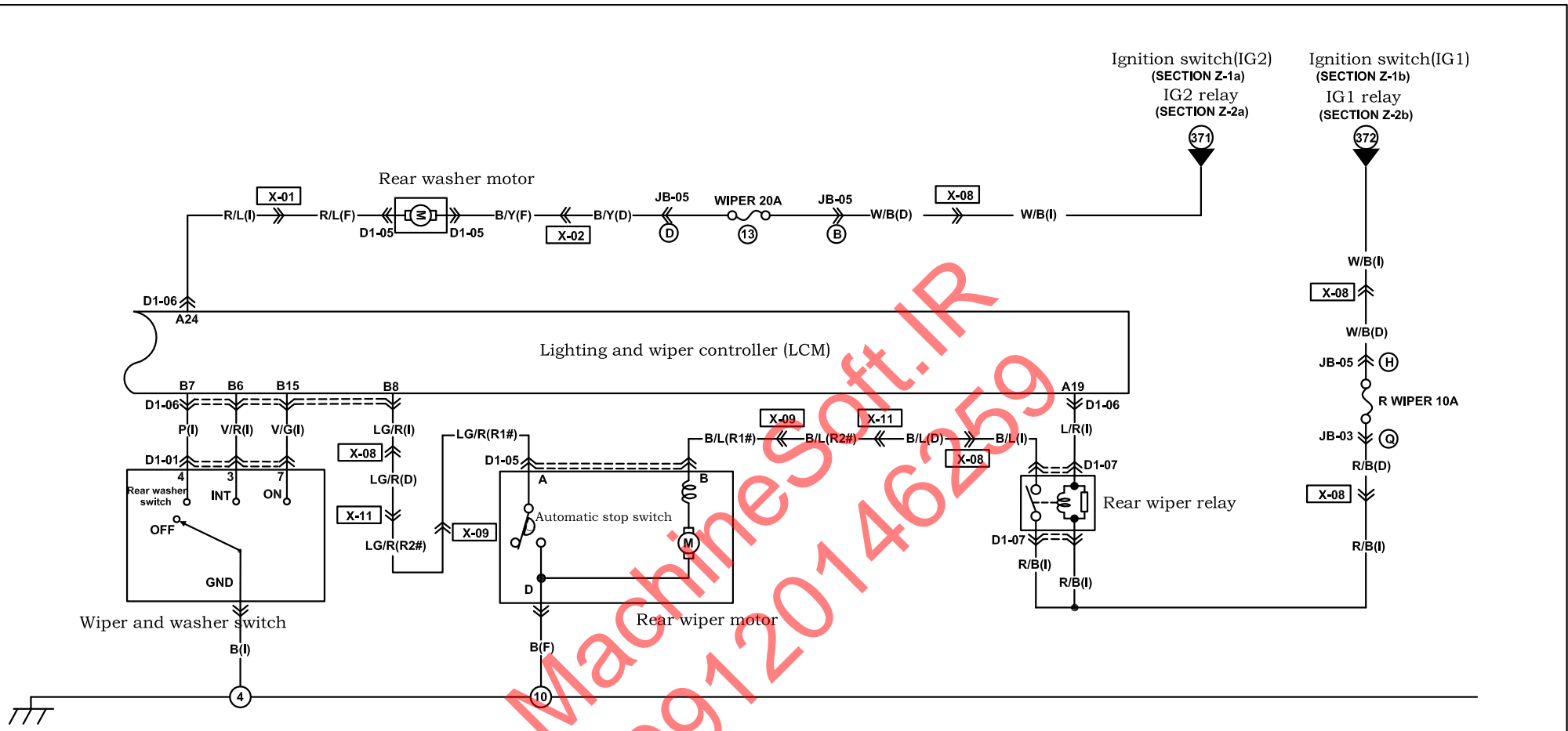


Harness mark:  (F)  (E)  (D)  (R)



Rear-window wiper and washer

D-1b



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

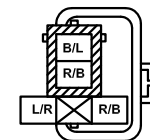
D1-04 Rear-window wiper motor

*	LG/R
B	B/L

D1-05 Rear-window washer motor (F)

B/Y
R/L

D1-07 Rear wiper relay (I)







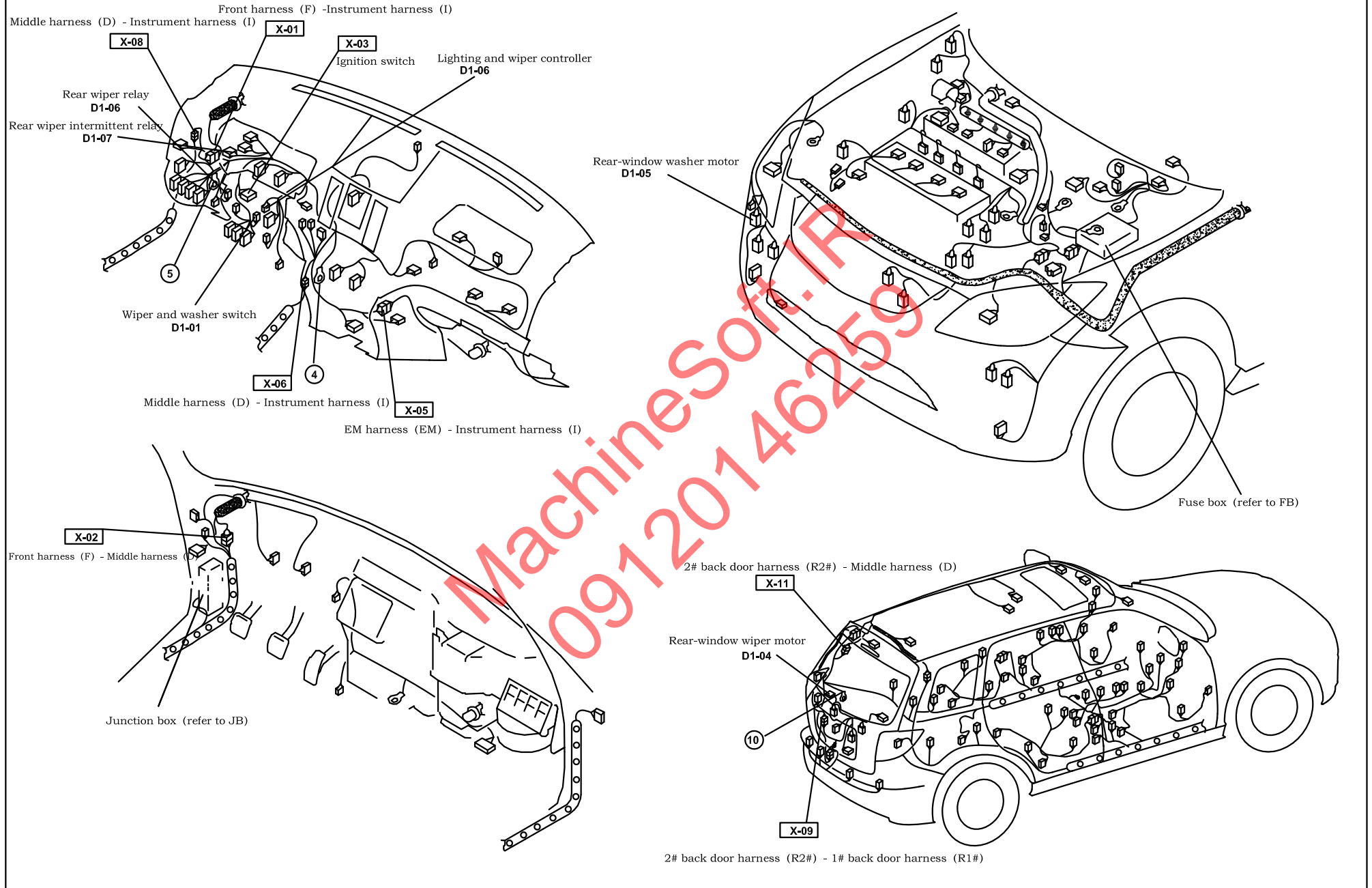
D1-06 Lighting and wiper controller (I)

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

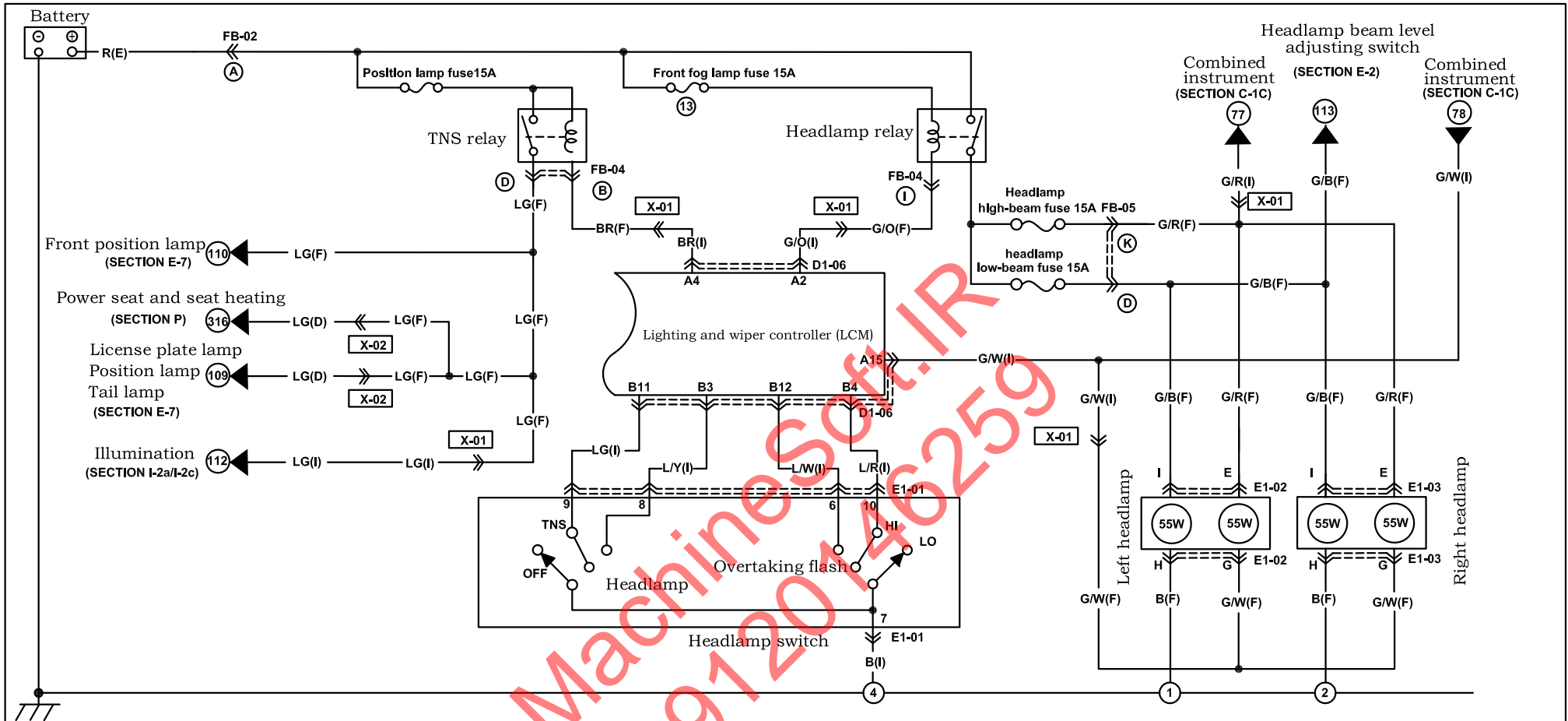
D1-06 Lighting and wiper controller (I)

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

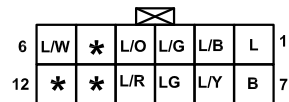
Harness mark:  (F)  (E)  (D)  (R)



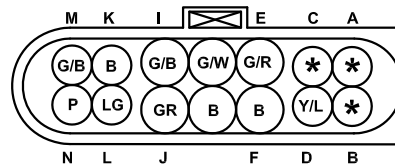
Headlamp



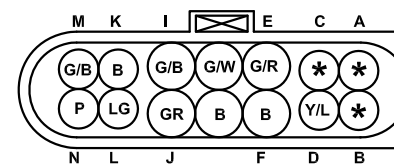
E1-01 Headlamp switch (I)







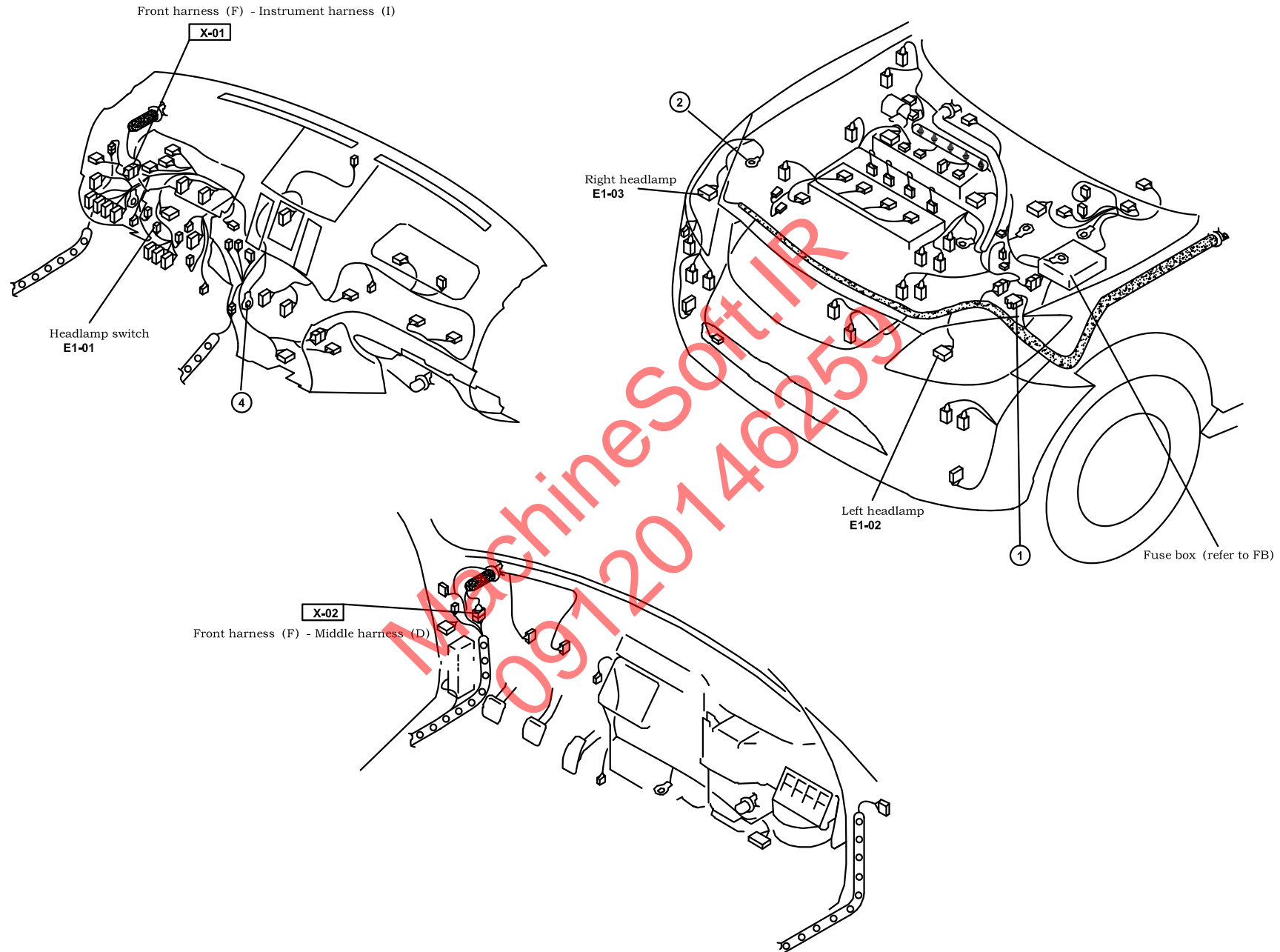
E1-02 Left headlamp (F)



E1-03 Right headlamp (F)

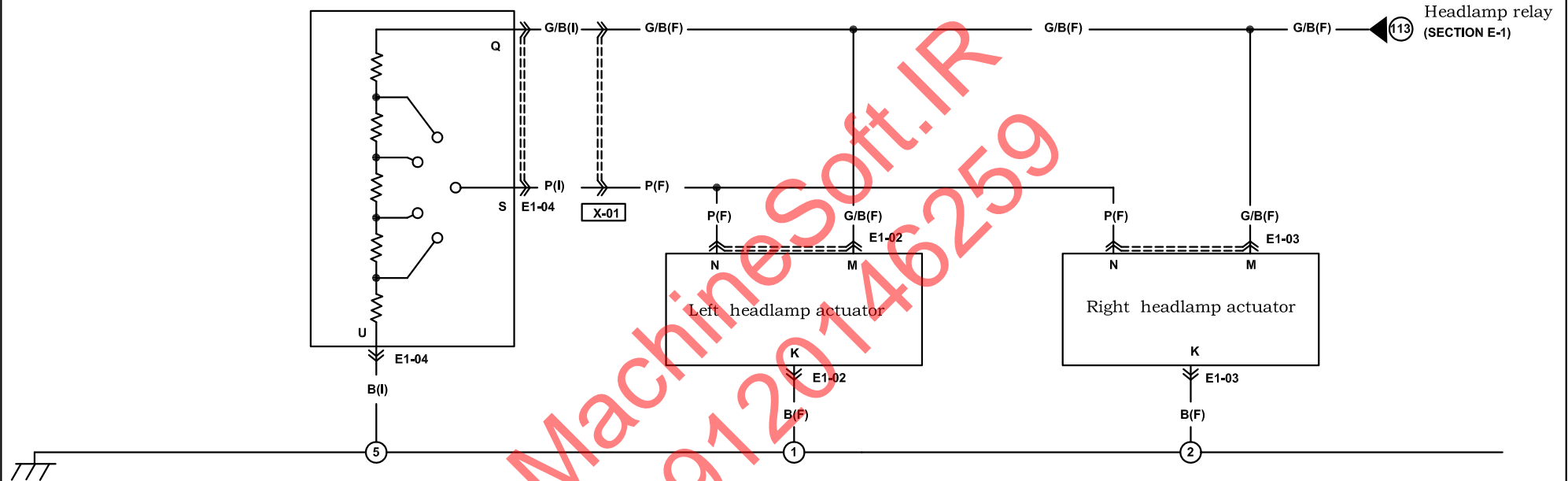


Harness mark:  (F)  (E)  (D)  (R)



Headlamp beam level adjusting system

Headlamp beam level adjusting switch



E1-01 Headlamp switch (D)

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

E1-02 Left headlamp (F)



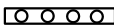

M	K	I	E	C	A
G/B	B	G/B	G/W	G/R	*
P	LG	GR	B	B	Y/L
N	L	J	F	D	B

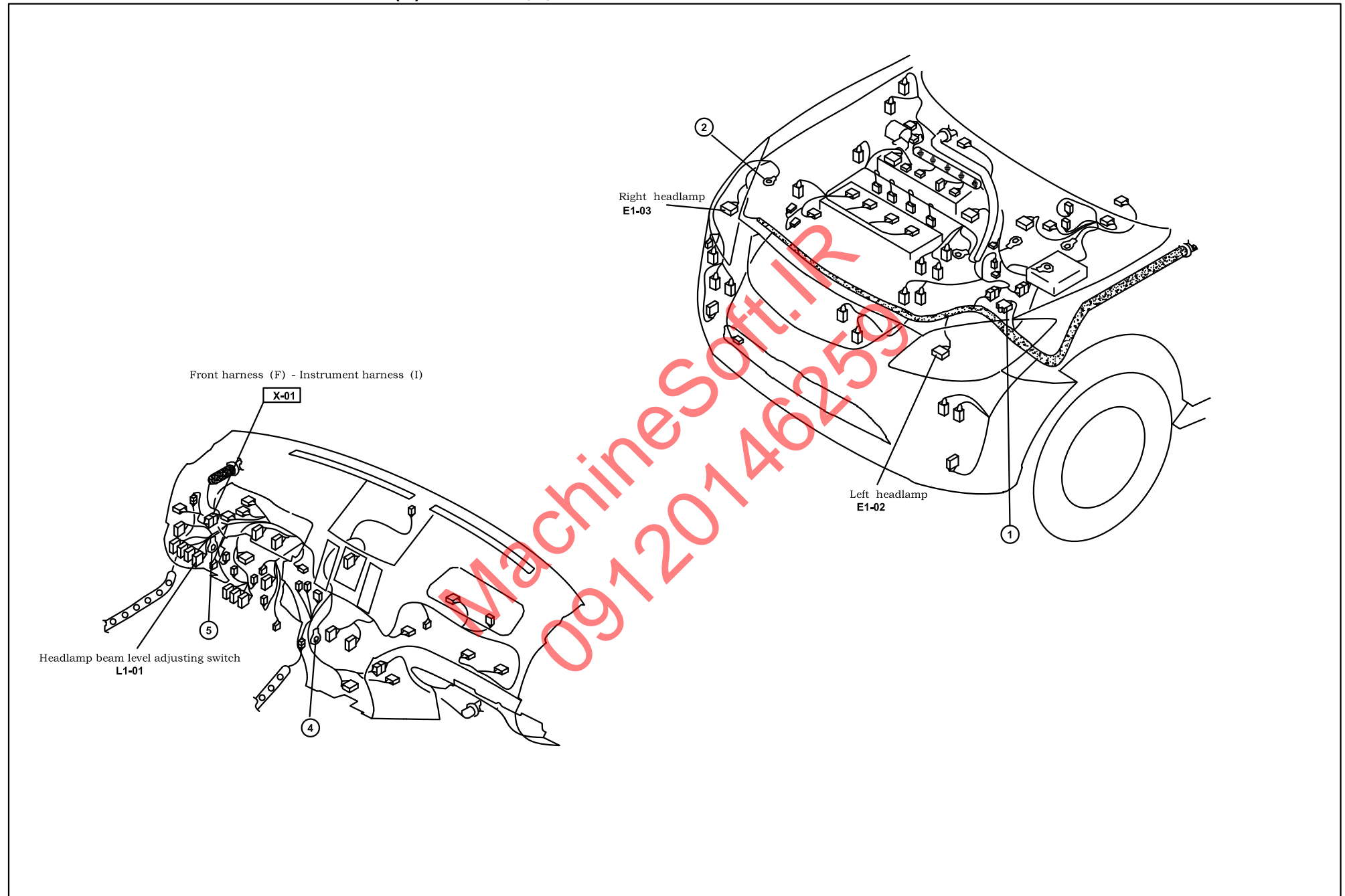
E1-03 Right headlamp (F)

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



L1-01 Headlamp beam level adjusting switch (I)

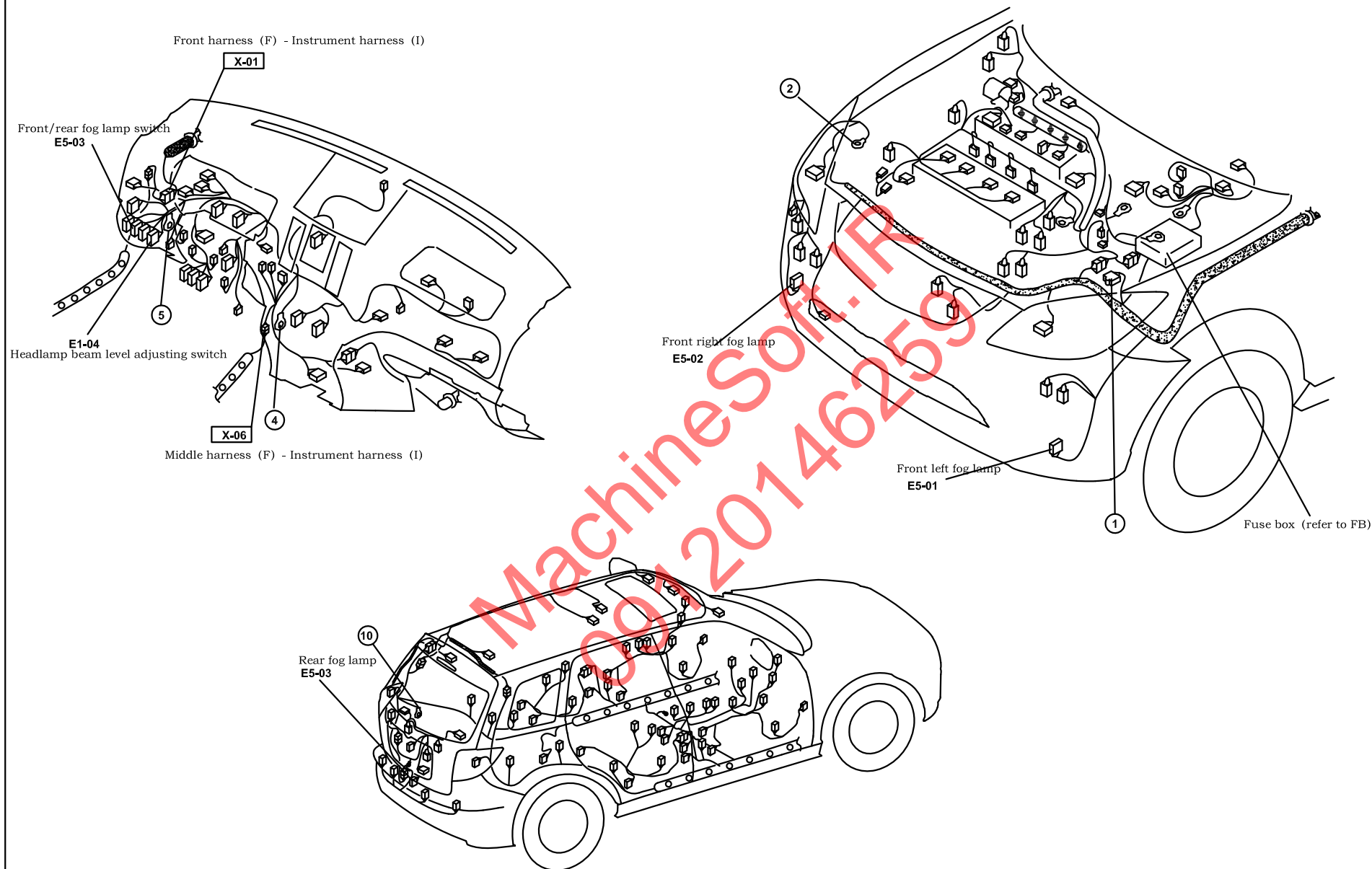
S	Q	O	M	K	I	G	E	C	A
R/B	LG	LG/B	L/W	L	L/O	L/B	V	R/G	R/Y
B	P	G/B	*	W	*	*	*	*	B
T	R	P	N	L	J	H	F	D	B

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

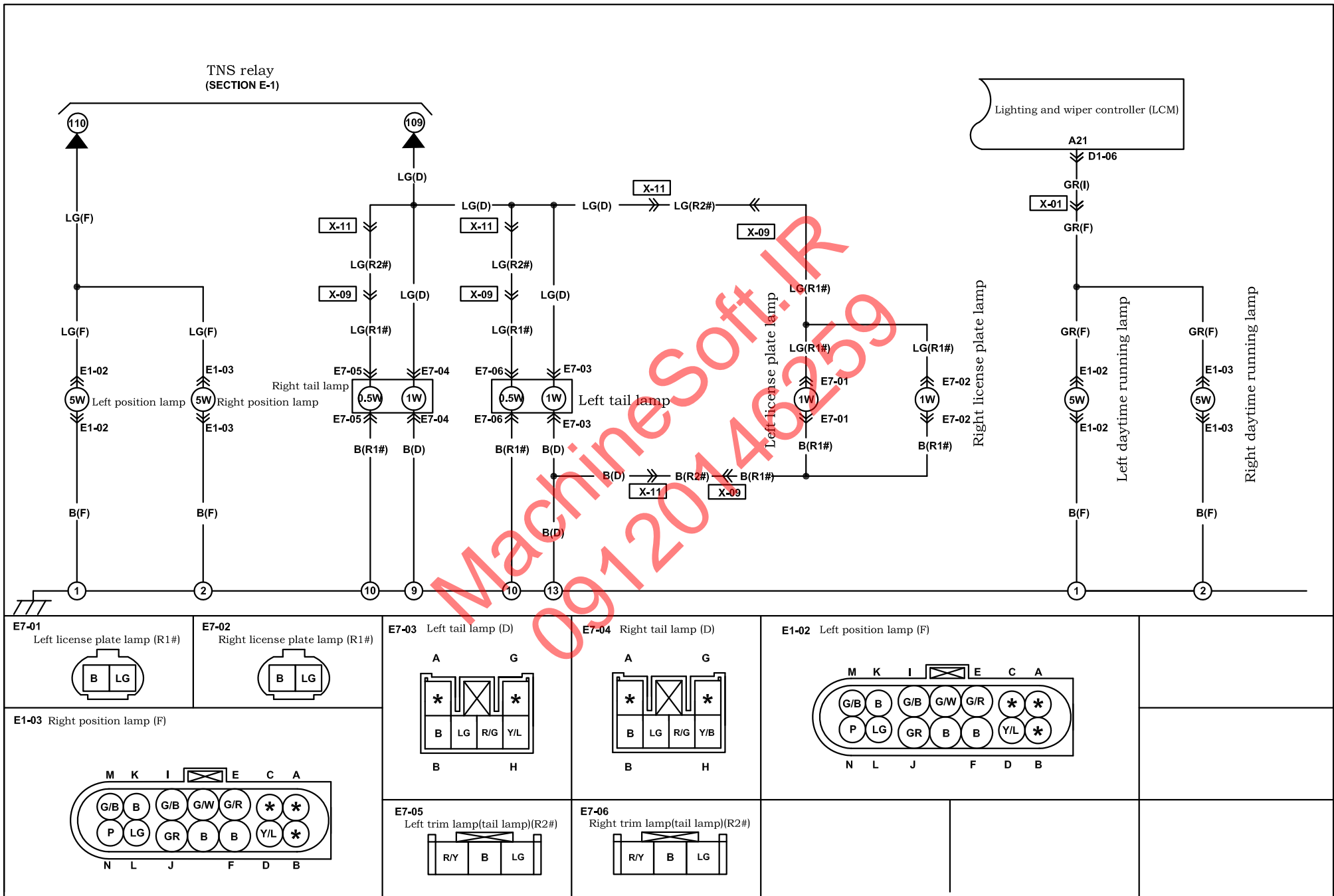





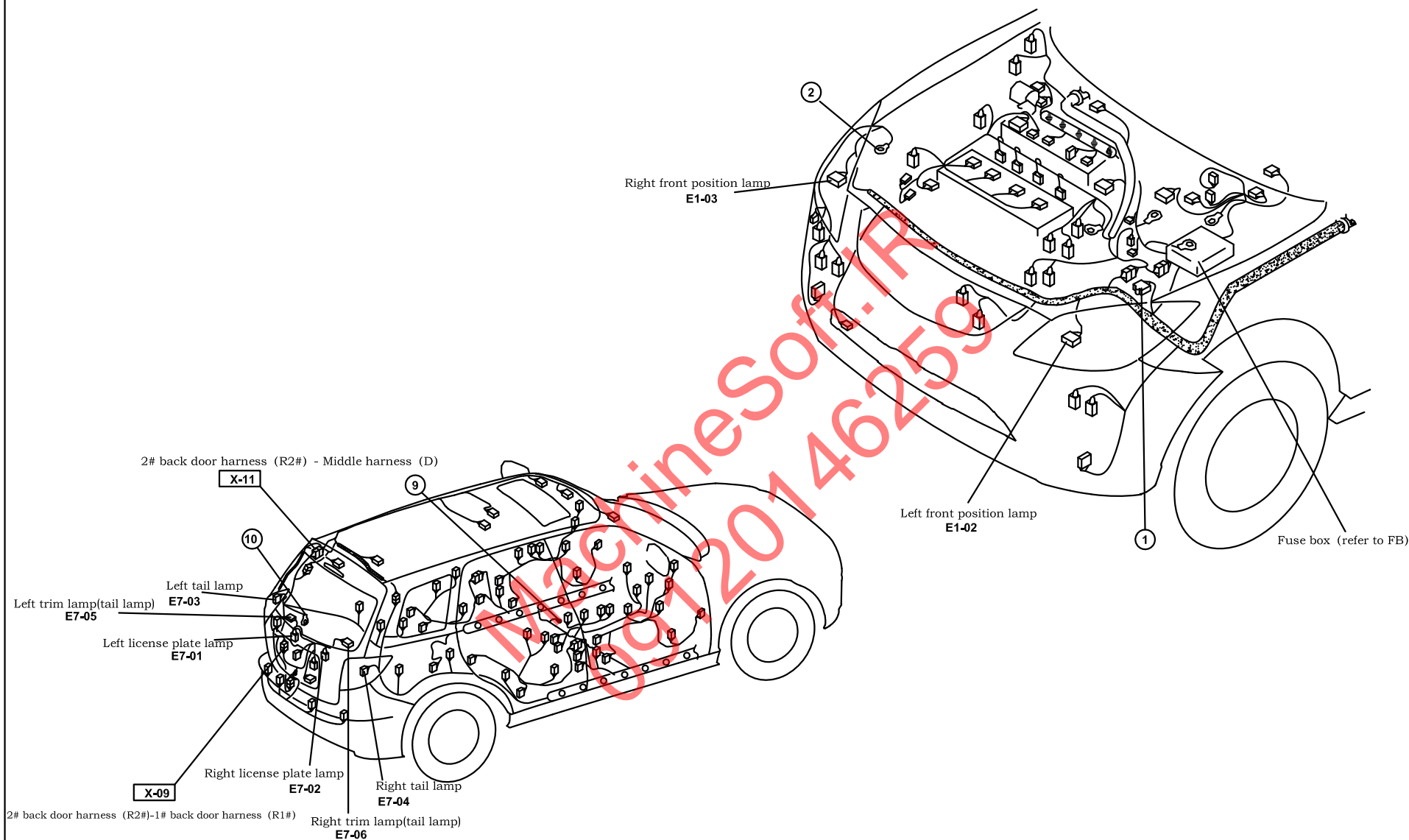
Harness mark:  (F)  (E)  (D)  (R)



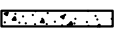

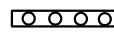
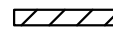
License plate lamp/position lamp/tail lamp/daytime running lamp

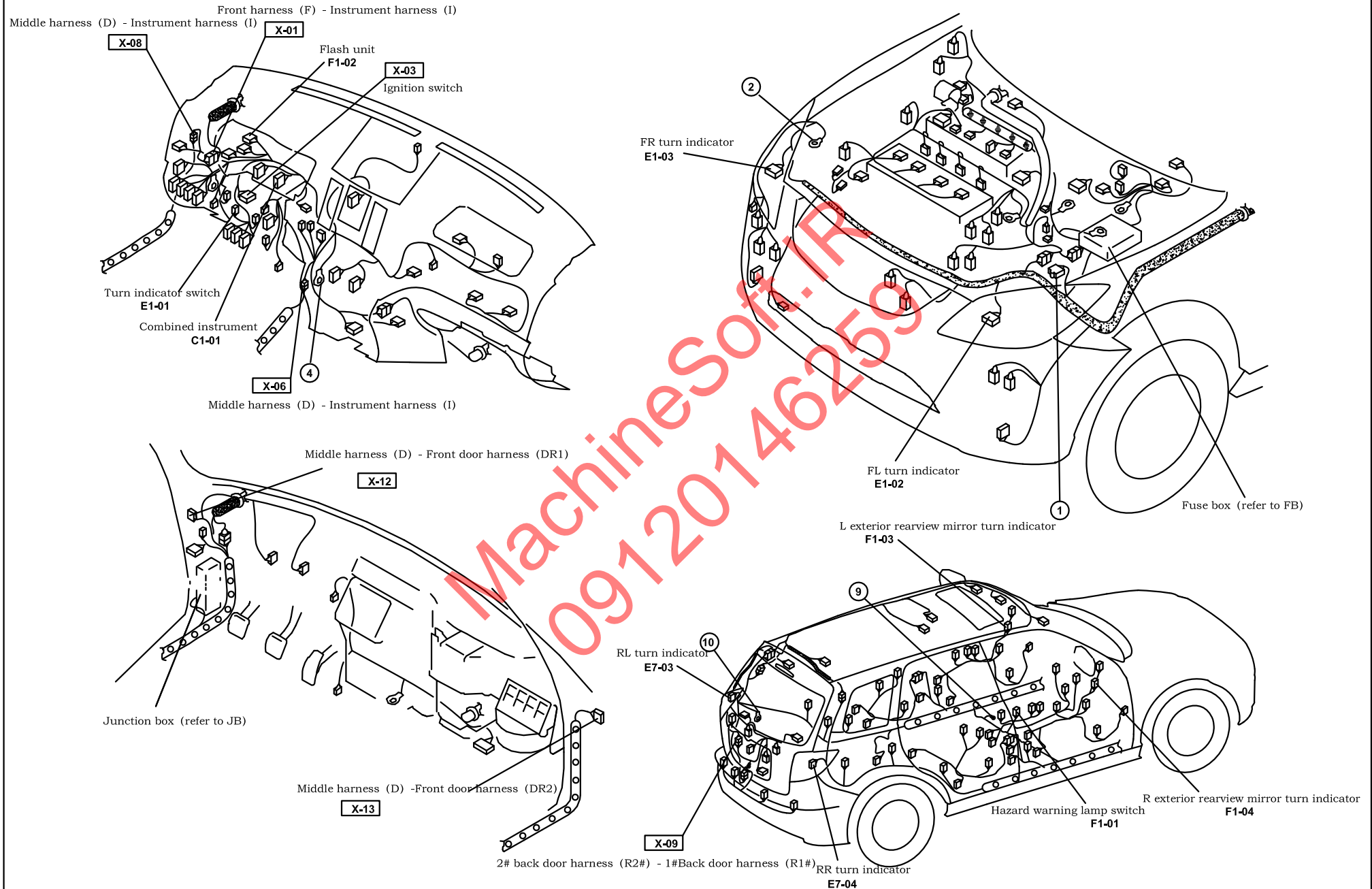


Harness mark:  (F)  (E)  (D)  (R)

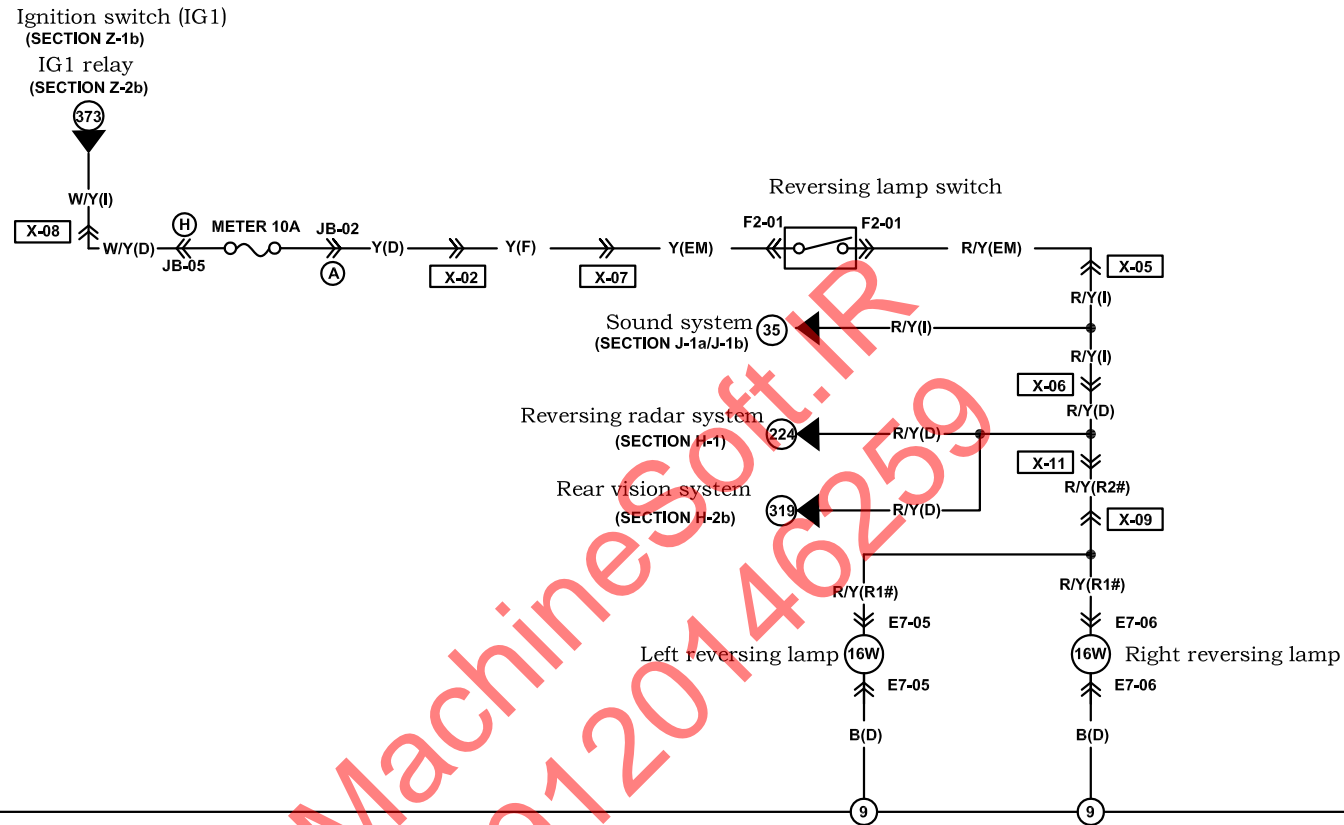


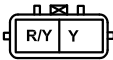
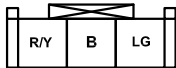
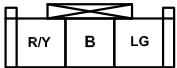


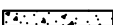
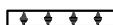
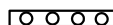

Harness mark:  (F)  (E)  (D)  (R)

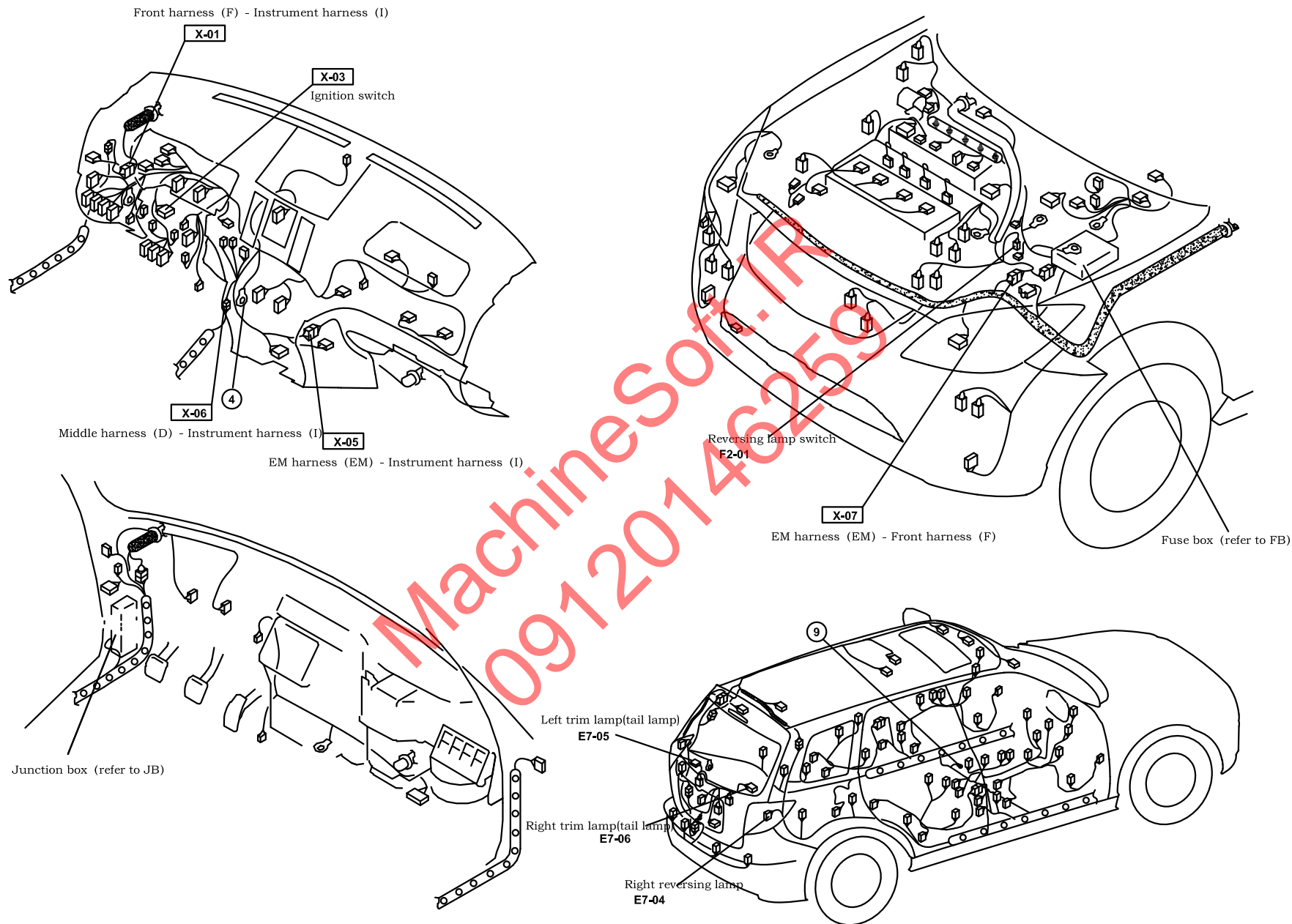


Reversing lamp

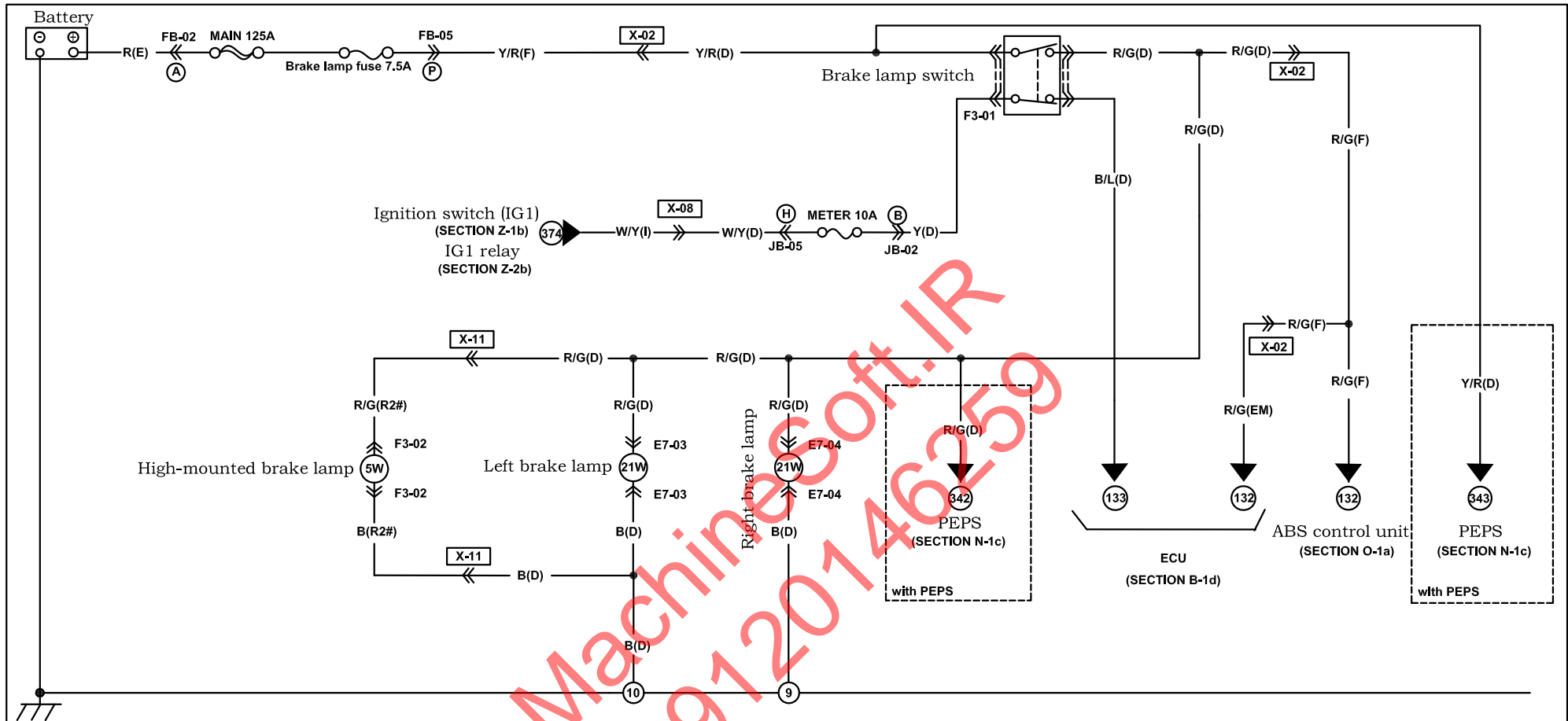


F2-01 Reversing lamp switch (EM) 	E7-05 Left trim lamp(tail lamp)(R2#) 	E7-06 Right trim lamp(tail lamp)(R2#) 				

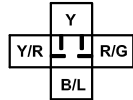
Harness mark:  (F)  (E)  (D)  (R)



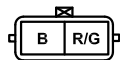
Brake lamp



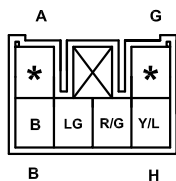
F3-01 Brake switch (D)



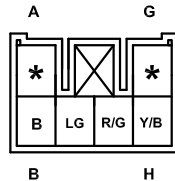
F3-02 High-mounted brake lamp(R2#)



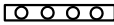
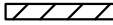


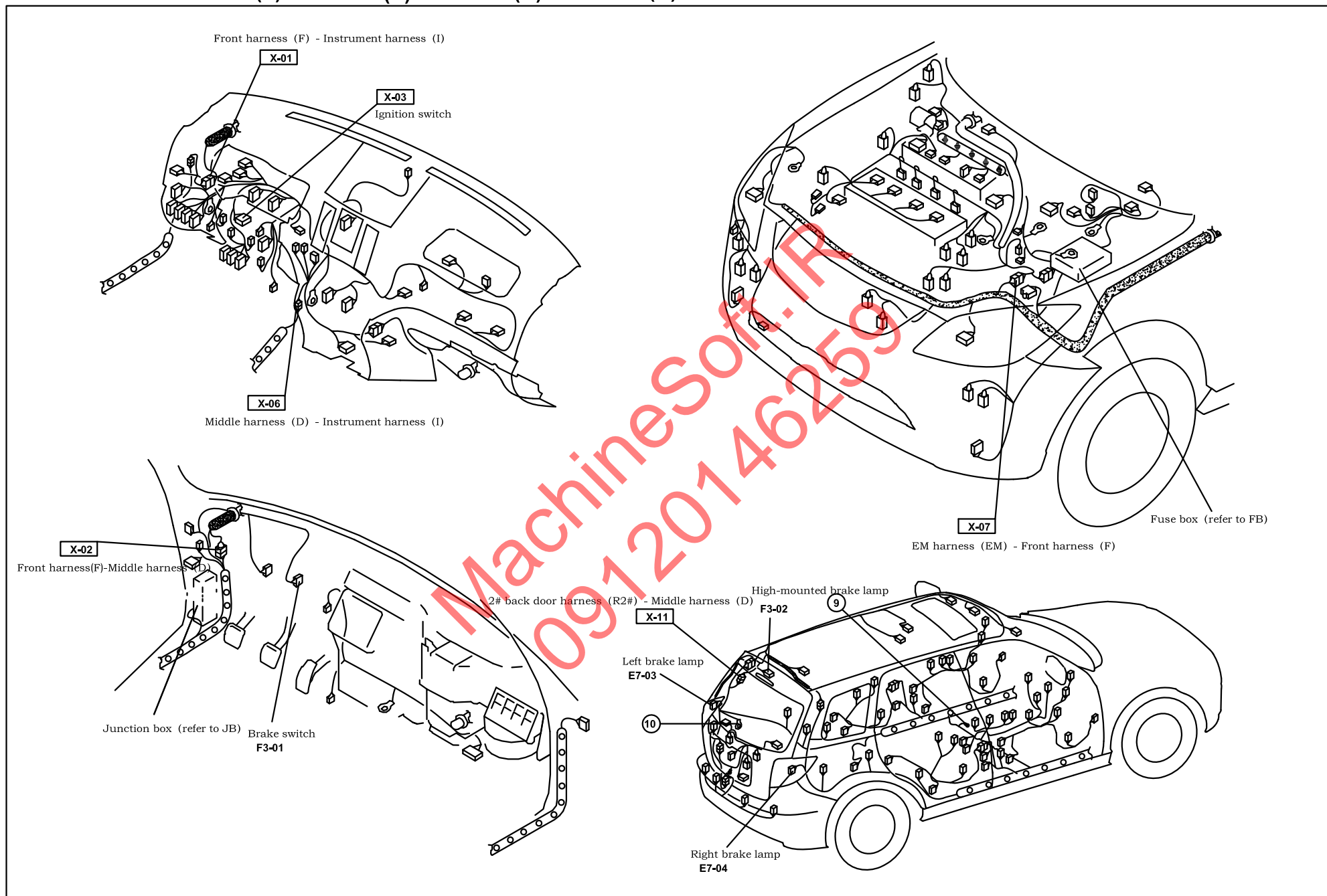
E7-03 Left brake lamp(D)



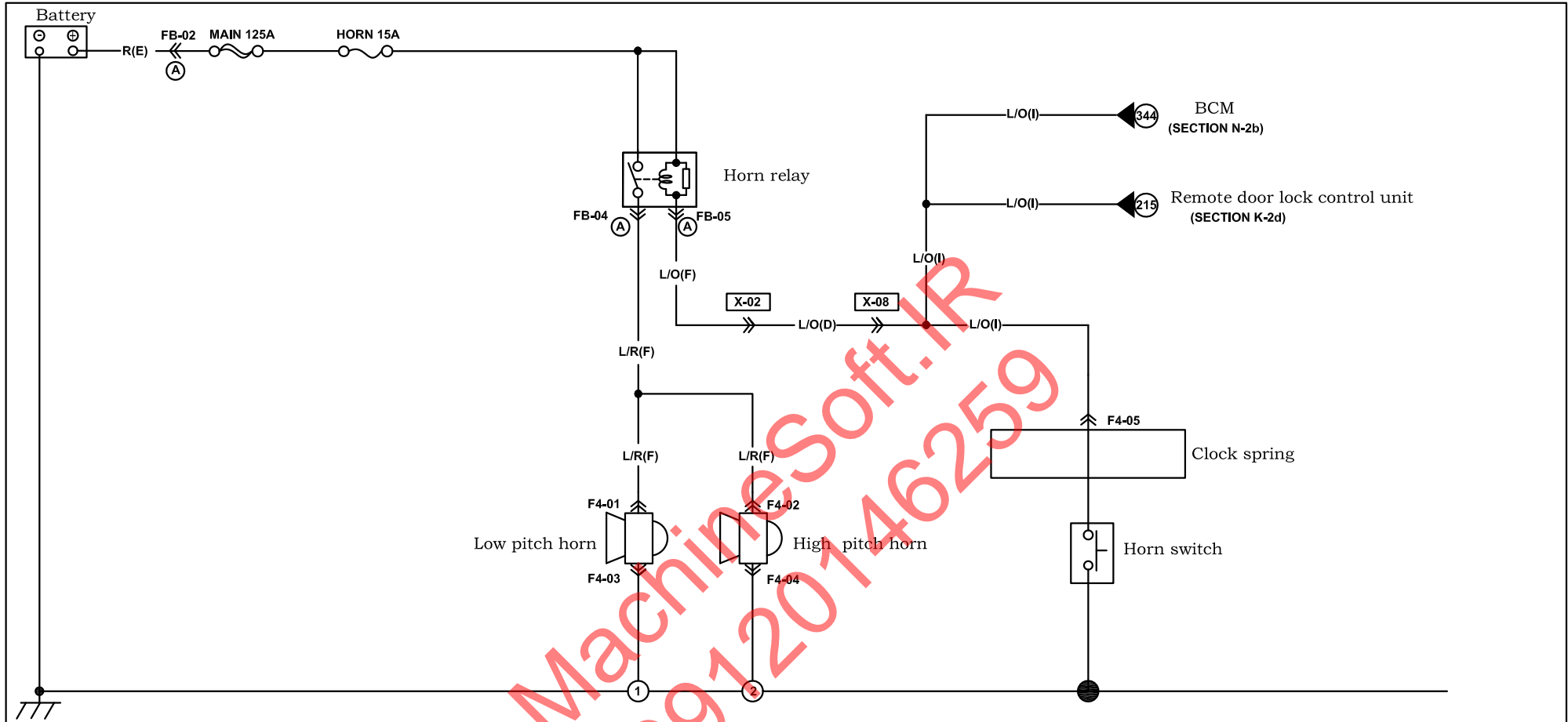
E7-04 Right brake lamp(D)



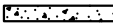

Harness mark:  (F)  (E)  (D)  (R)

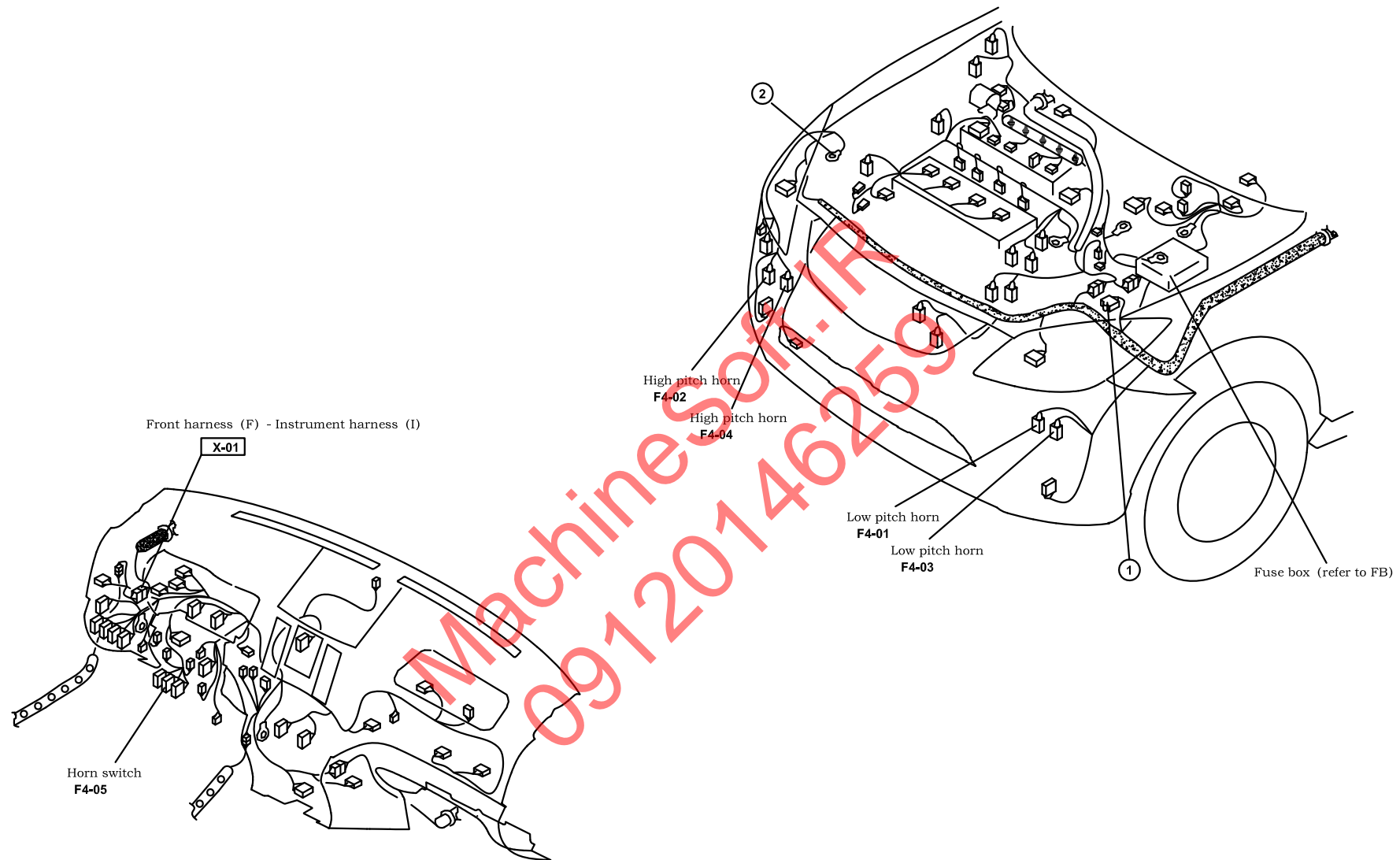


Horn



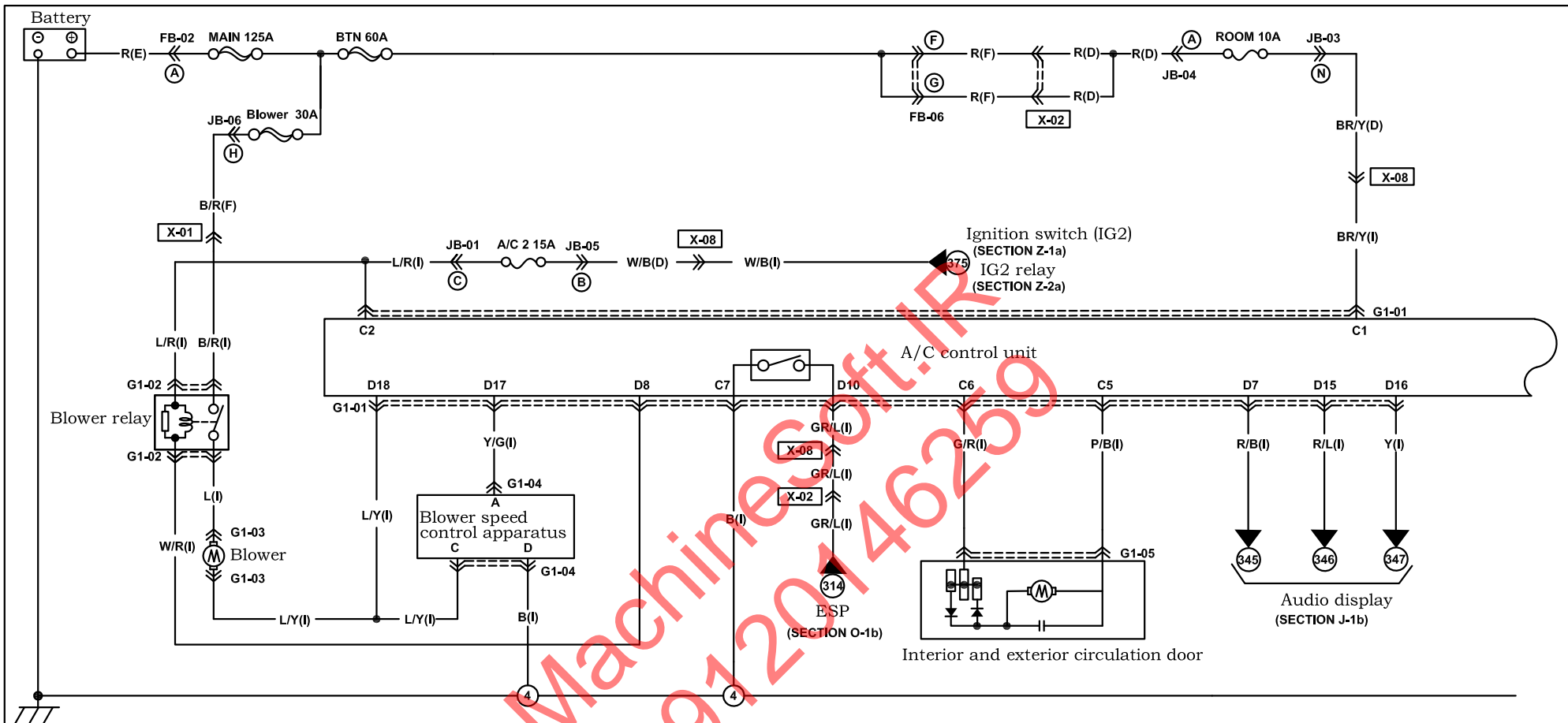
F4-01 Low pitch horn (F) <div>L/R</div>	F4-02 High pitch horn(F) <div>L/R</div>	F4-05 Clock spring (I) [] With cruise 		
F4-03 Low pitch horn (F) <div>B</div>	F4-04 High pitch horn(F) <div>B</div>			

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



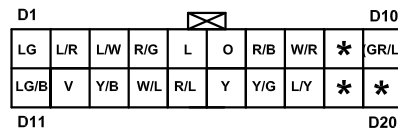
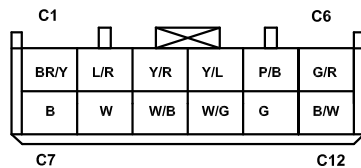
Air conditioning system

G-1a

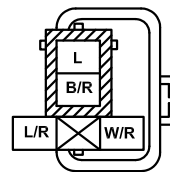


G1-01 A/C control unit (I)

() with ESP



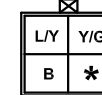
G1-02 Blower relay (I)



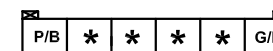
G1-03 Blower (I)




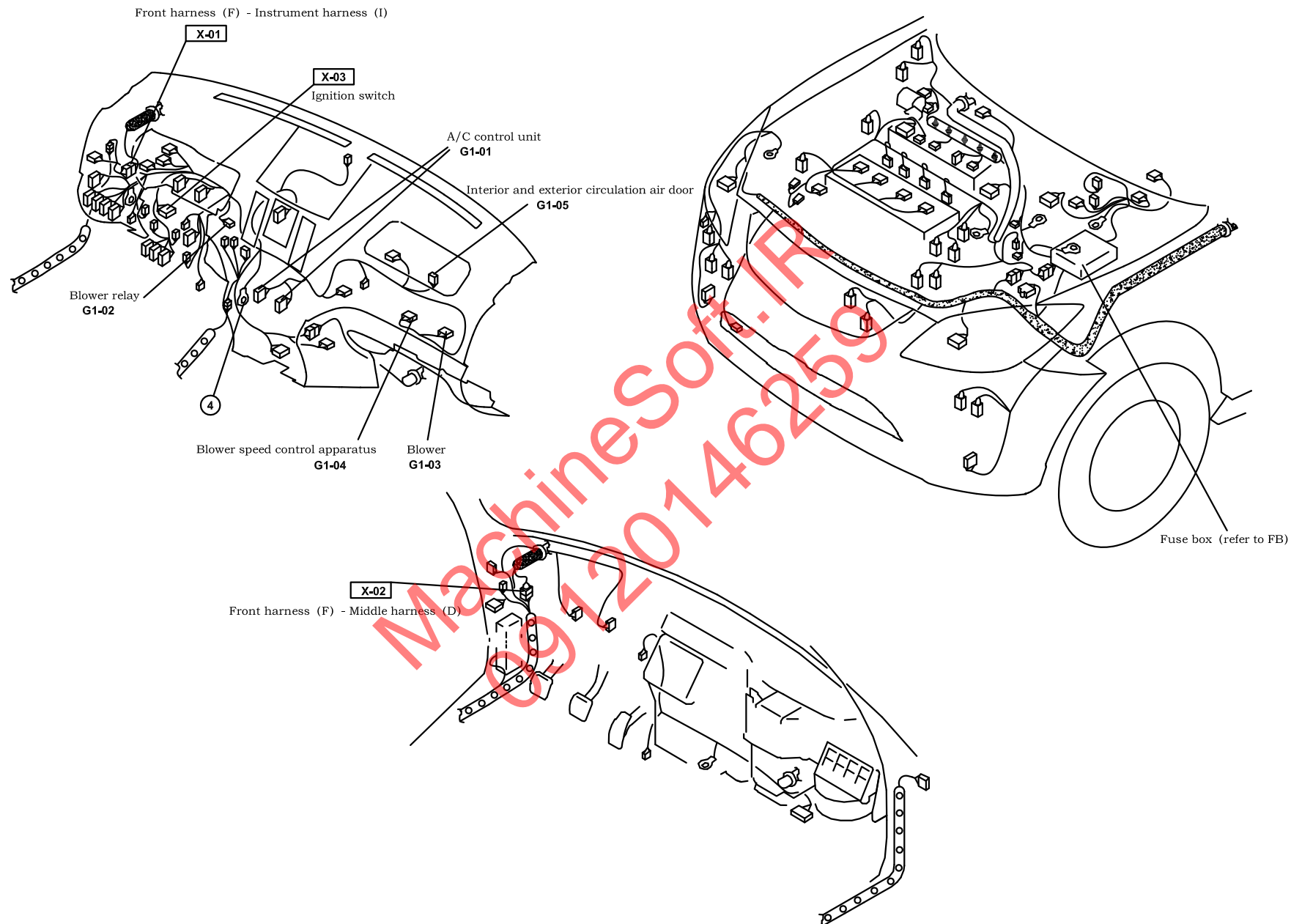
G1-04 Blower speed control apparatus (I)



G1-05 Interior and exterior circulation door (I)

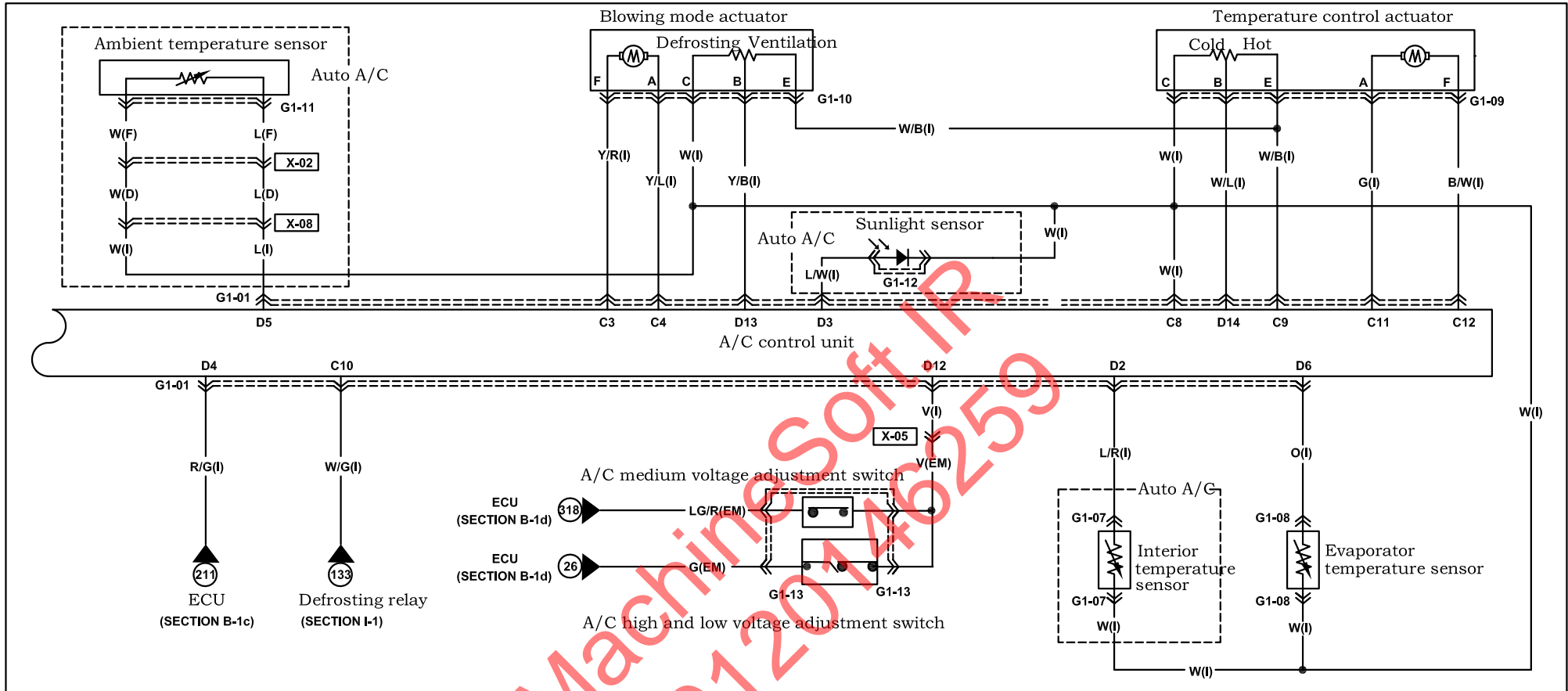


Harness mark:  (F)  (E)  (D)  (R)






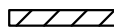
Air conditioning system

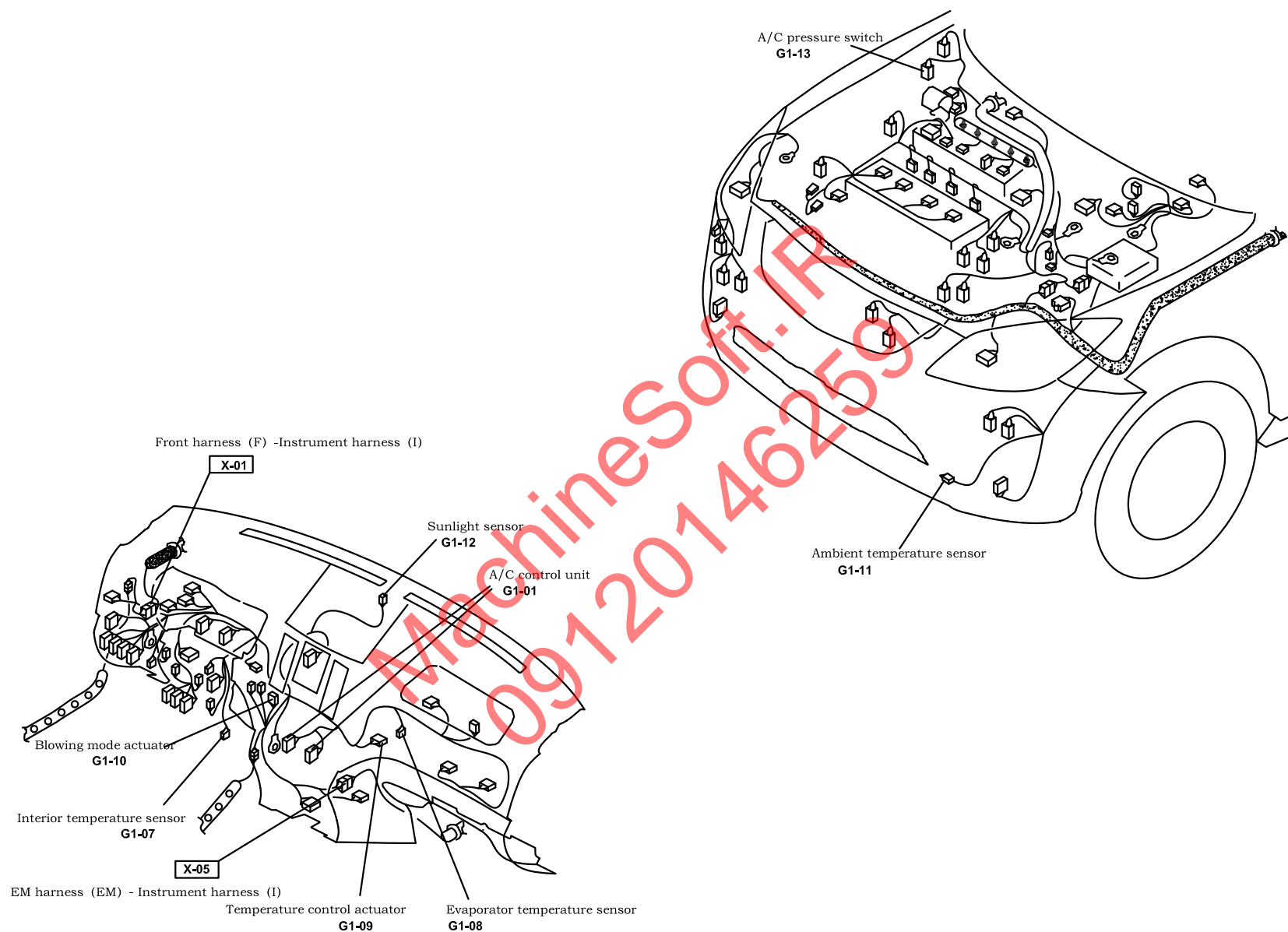
G-1b



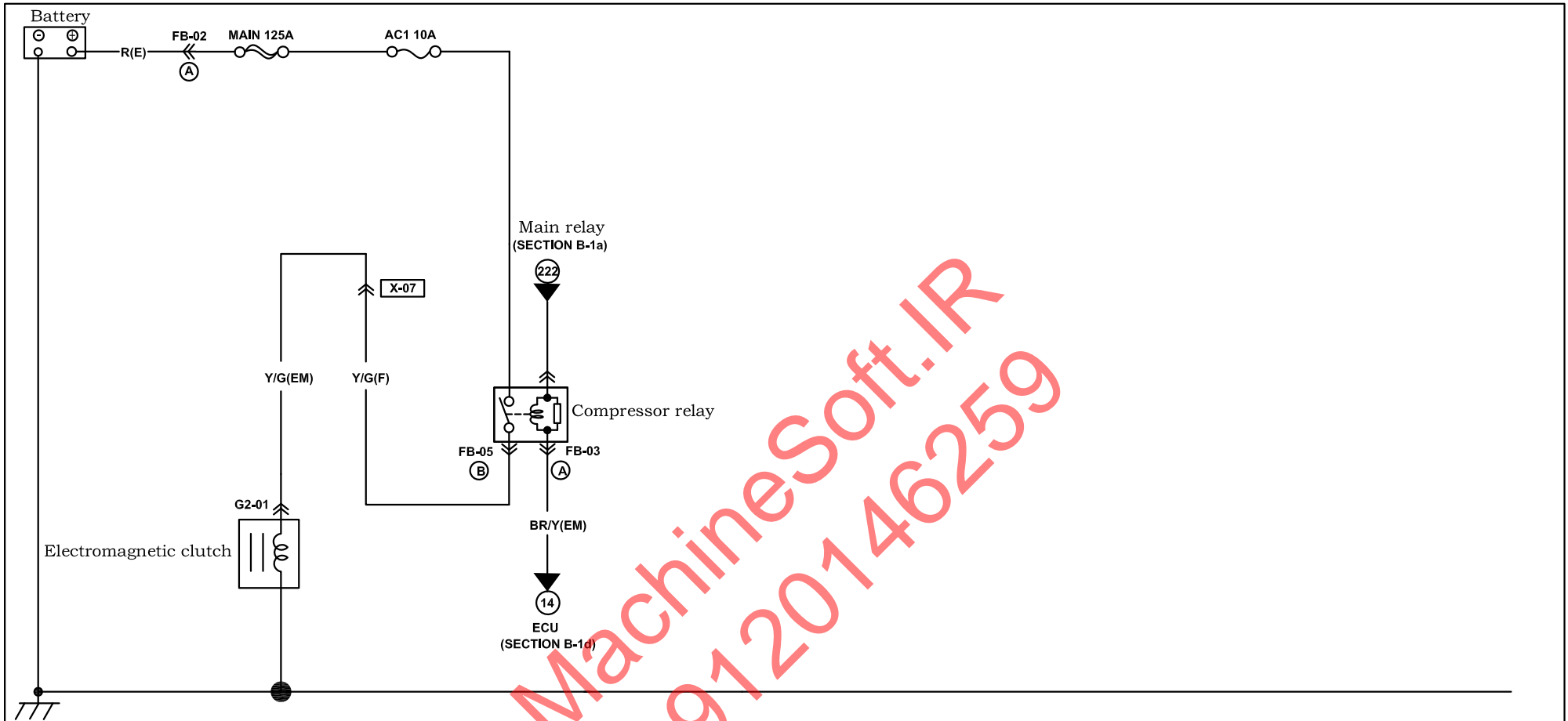
<p>G1-01 A/C control unit (I)</p> <p>() with ESP</p> <div> <div> C1 BR/Y B </div> <div> L/R W </div> <div> Y/R W/B </div> <div> Y/L W/G </div> <div> P/B G </div> <div> G/R B/W </div> </div> <div> D1 LG LG/B </div> <div> L/R L/R </div> <div> L/W V </div> <div> R/G Y/B </div> <div> L W/L </div> <div> O R/L </div> <div> R/B Y </div> <div> W/R Y/G </div> <div> * L/Y </div> <div> GR/L * </div>


D10
D20

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

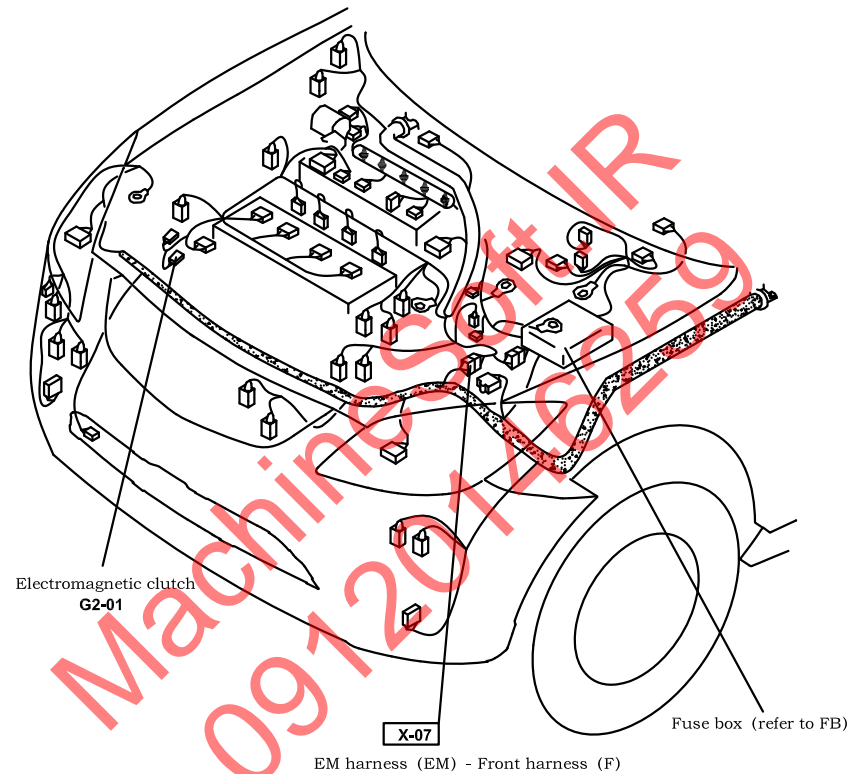


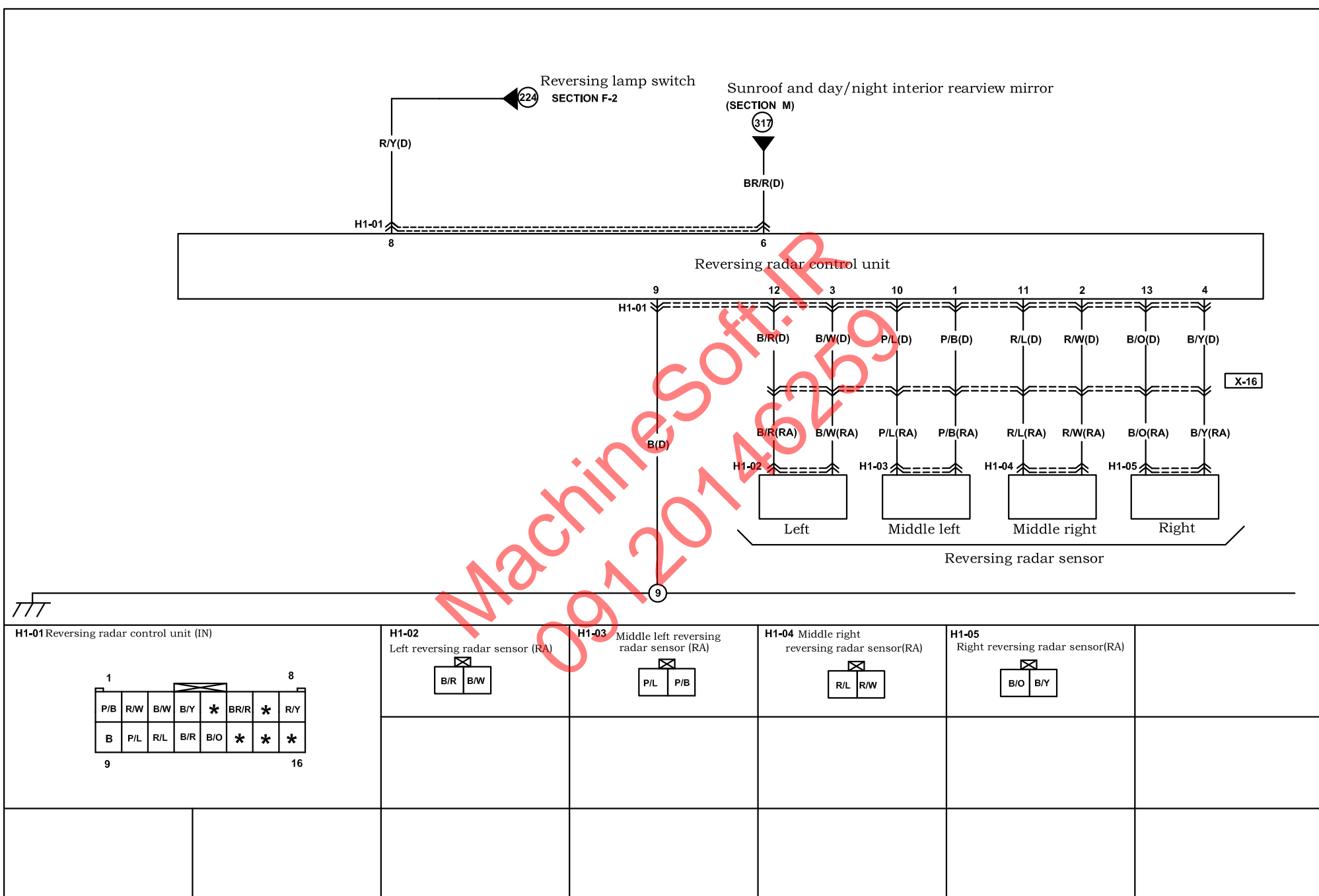
Compressor control system

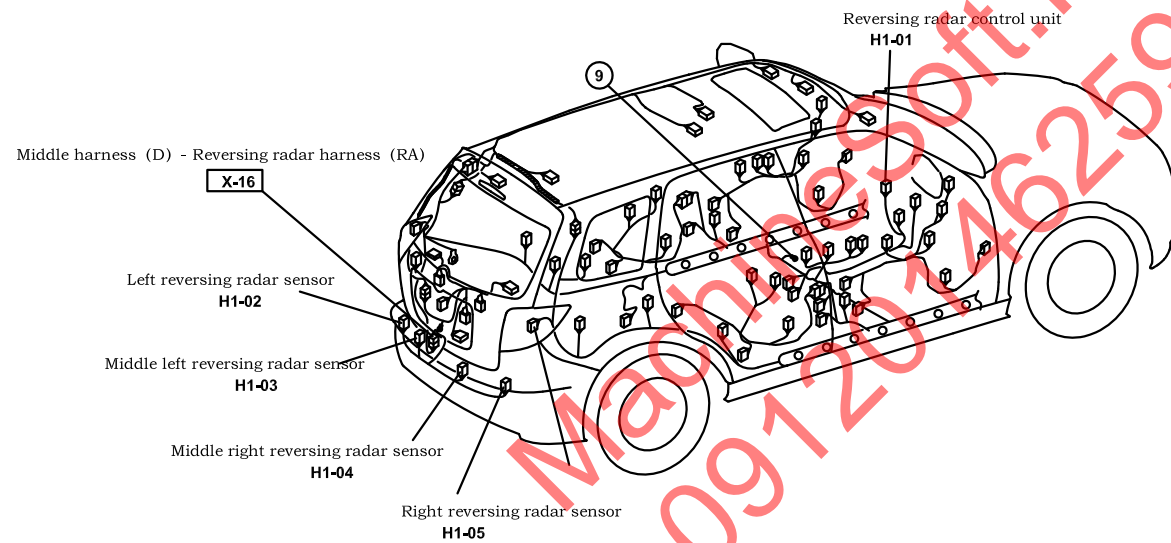


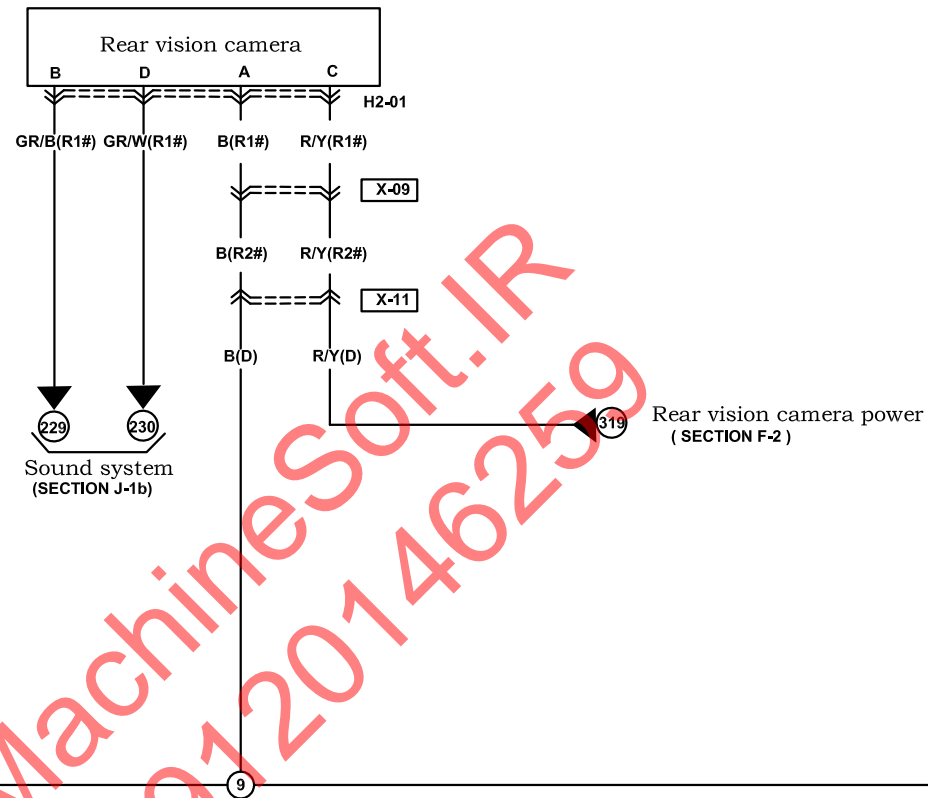
G2-01 Electromagnetic clutch (EM)					
					

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





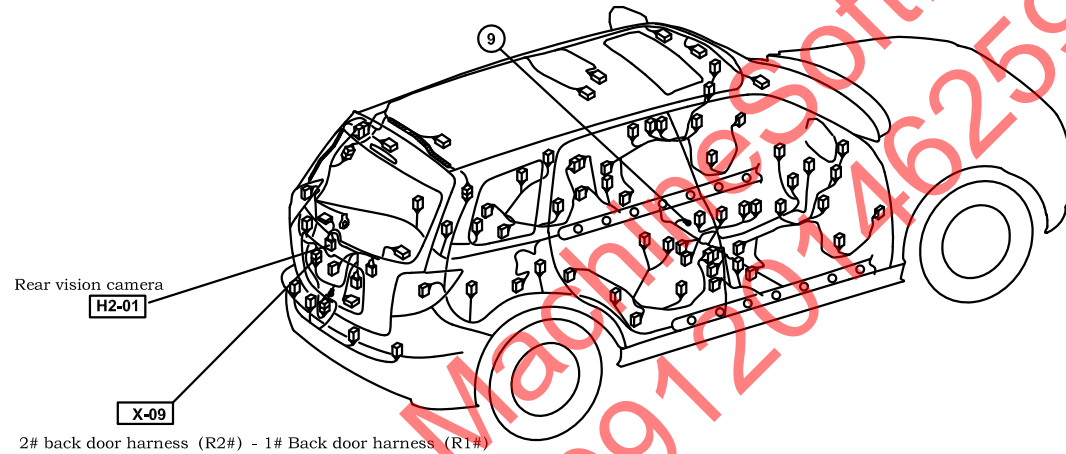




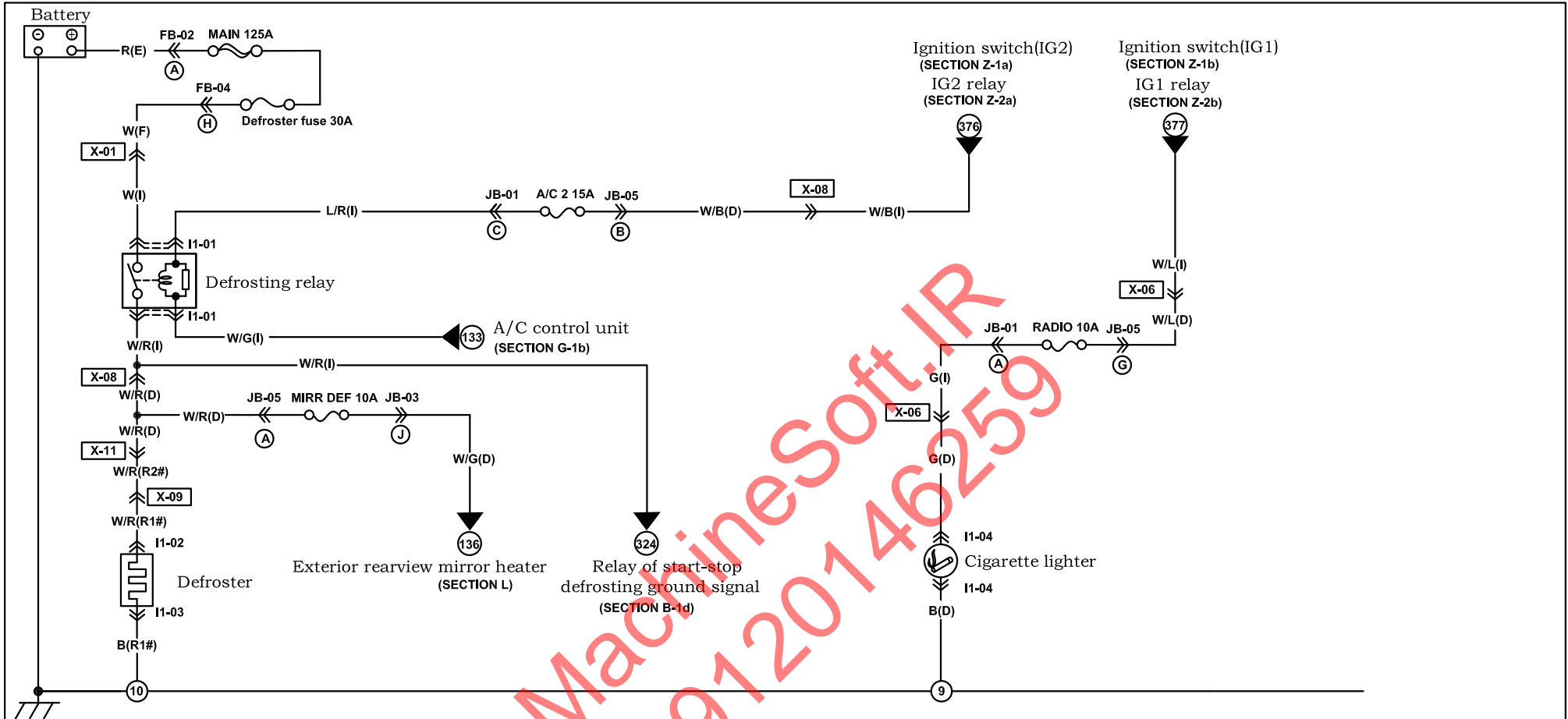
H2-01 Rear vision camera (R1#)

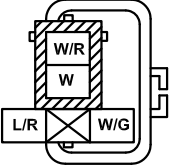

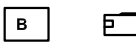
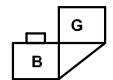
C	<input checked="" type="checkbox"/>	A
R/Y		B
GR/W		GR/B
D		B





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

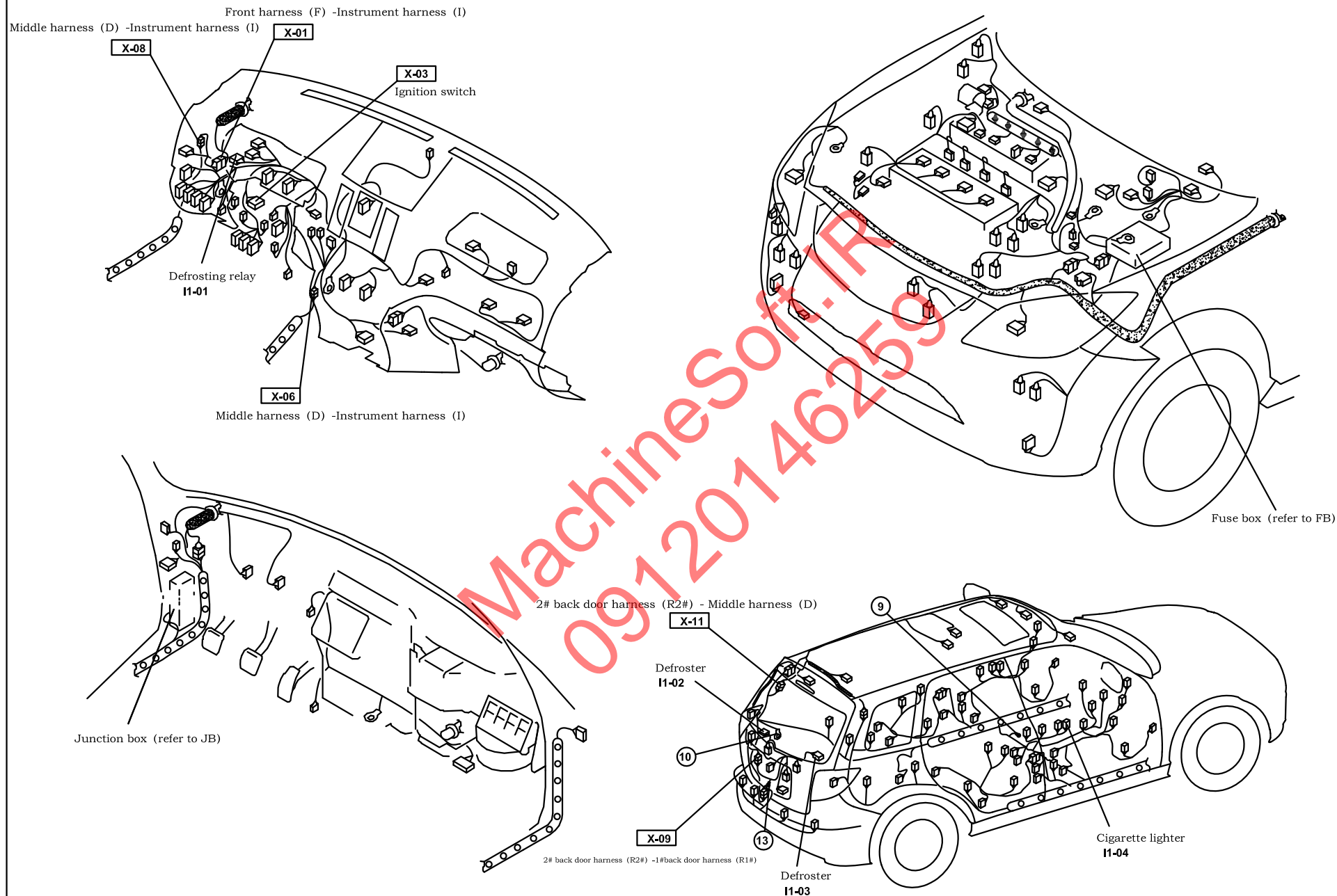


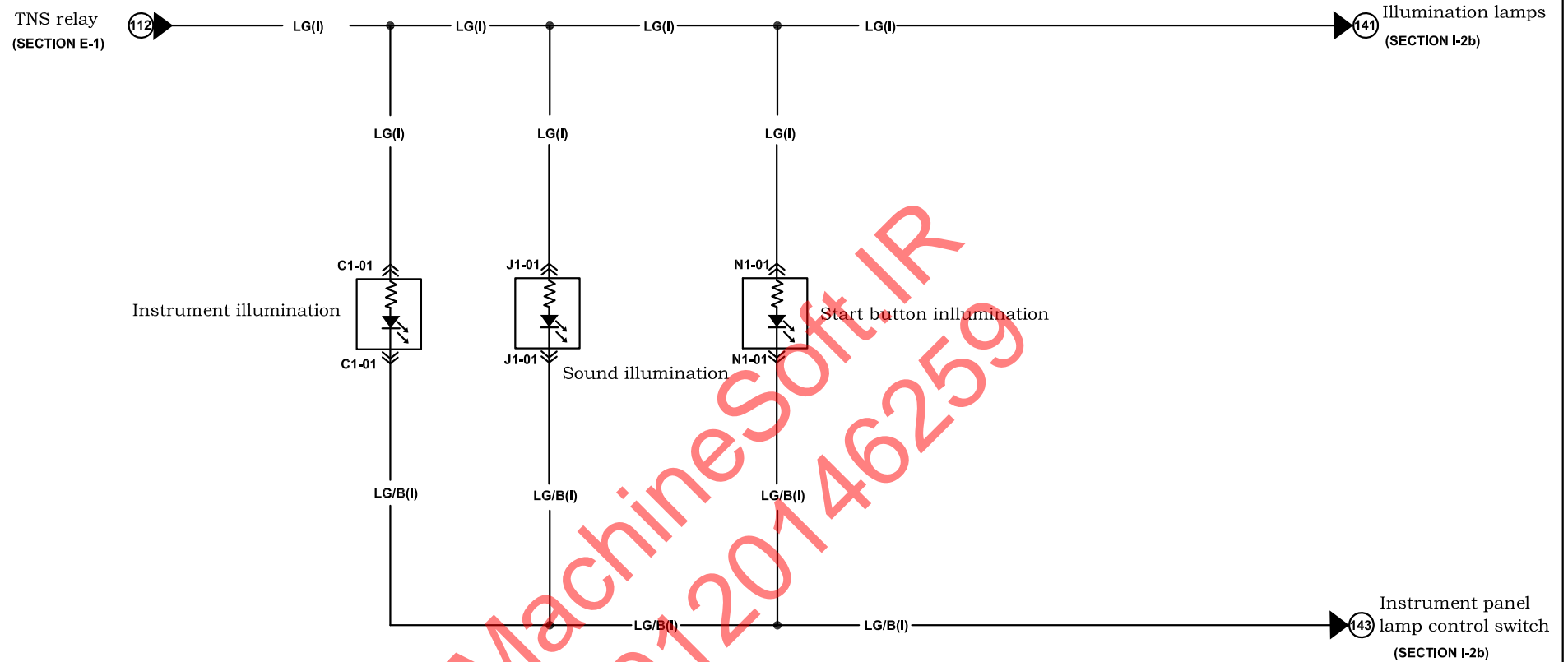
Cigarette lighter/Rear defroster system



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

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





C1-01 Combined instrument (I)

() with ESP

J1-01 Sound unit (I)

N1-01 Start button (I)

A1

A16

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

A17

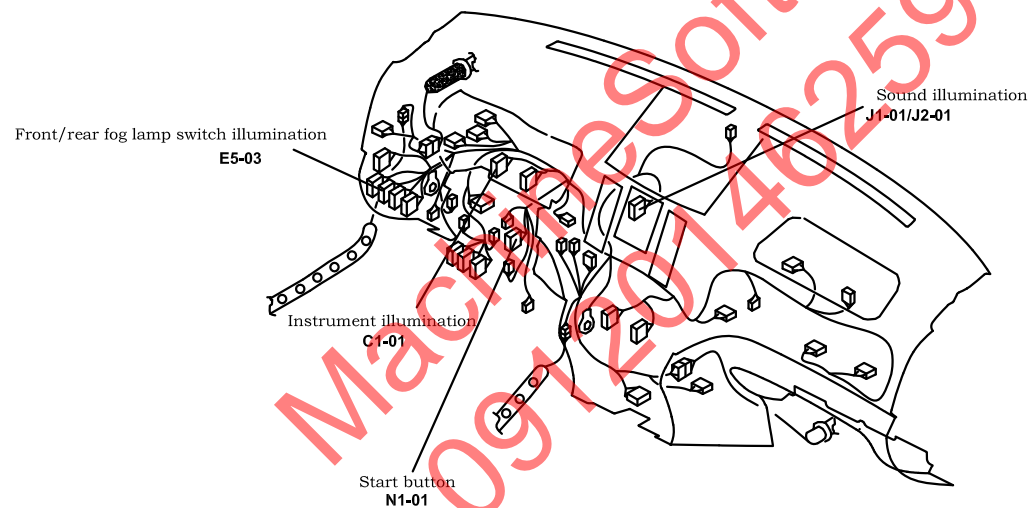
A32

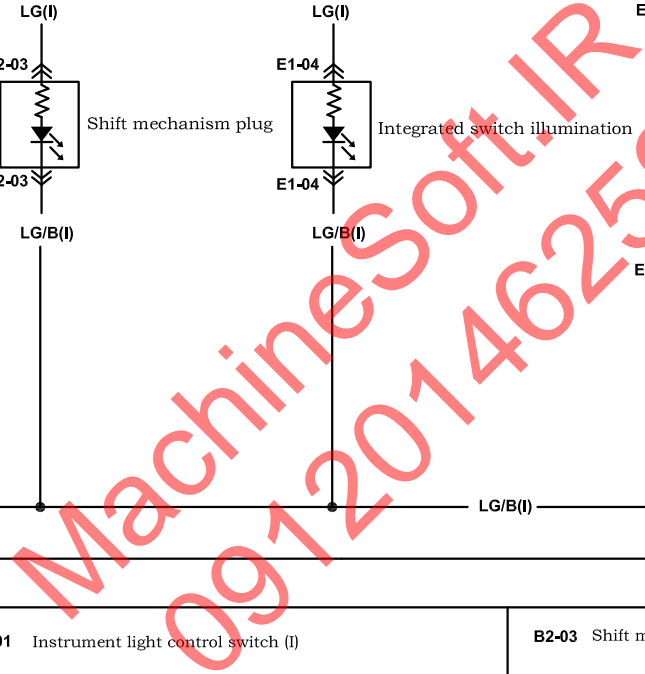
Yellow C1				Green C2				Blue C3			
R/B	G	4	7	B/G	GR/B	10		*	*	*	
3	*	R/Y	5	GR/W	Y	12		*	*	*	
2	R/L	G/Y	8	L/O	*	11		*	*	*	

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


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

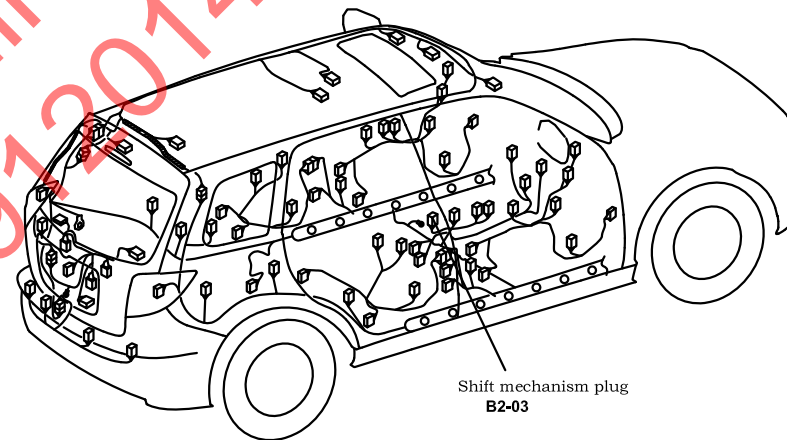
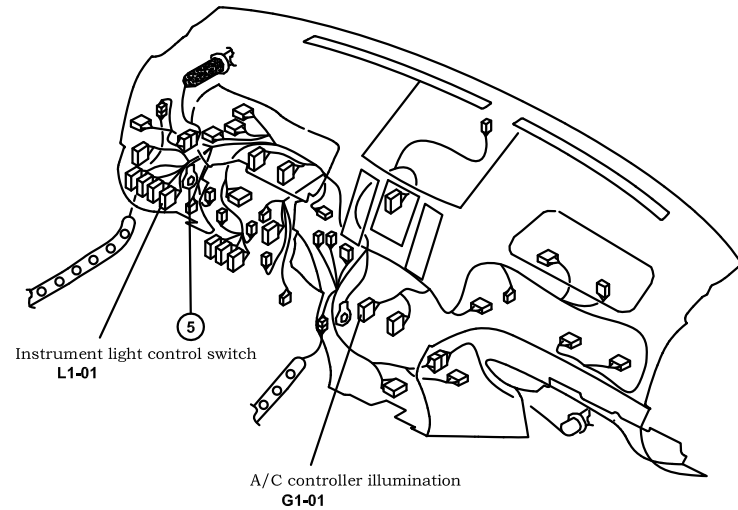
Harness mark:  (F)  (E)  (D)  (R)





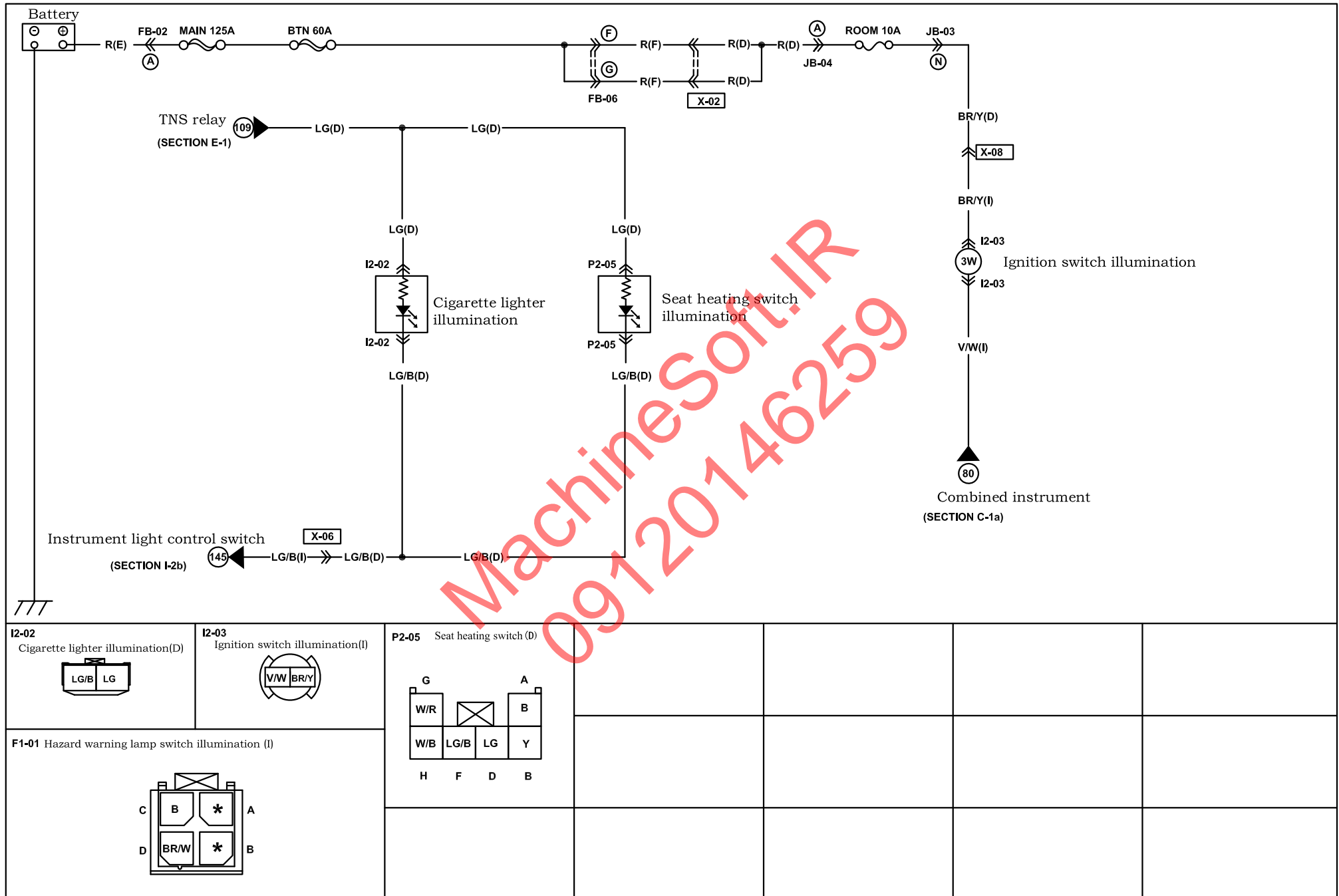
G	LG			Y	B/Y
H	LG/B	*	G/R	*	O/B





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

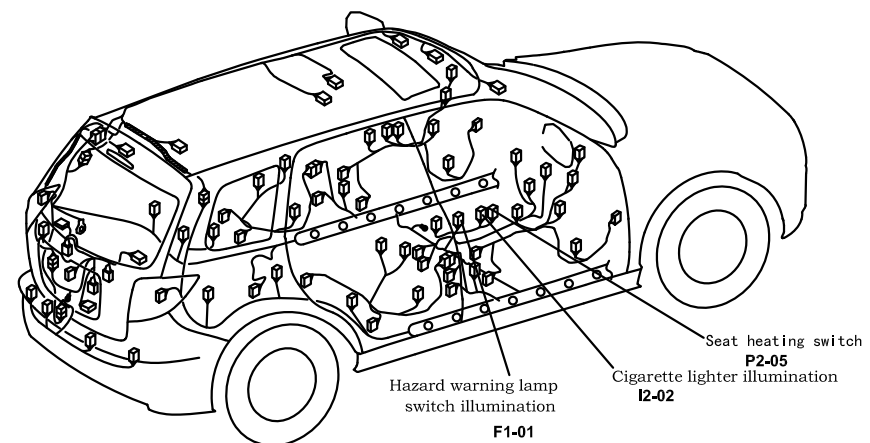
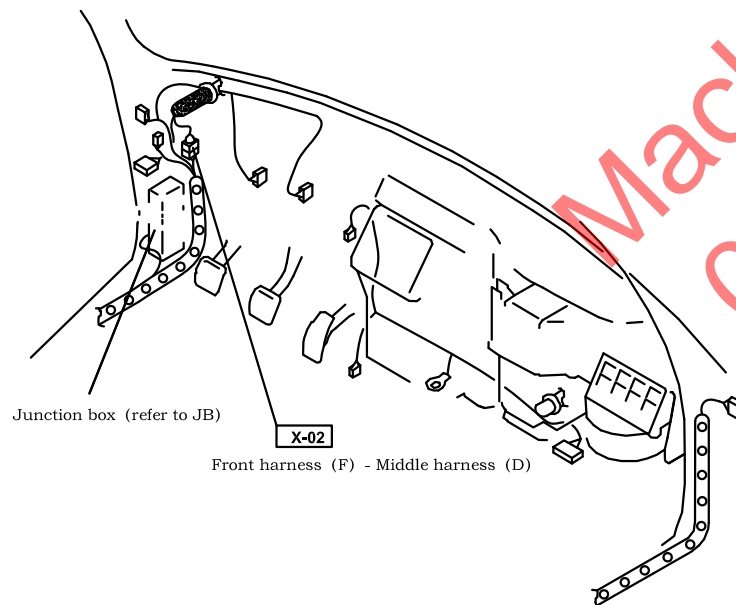
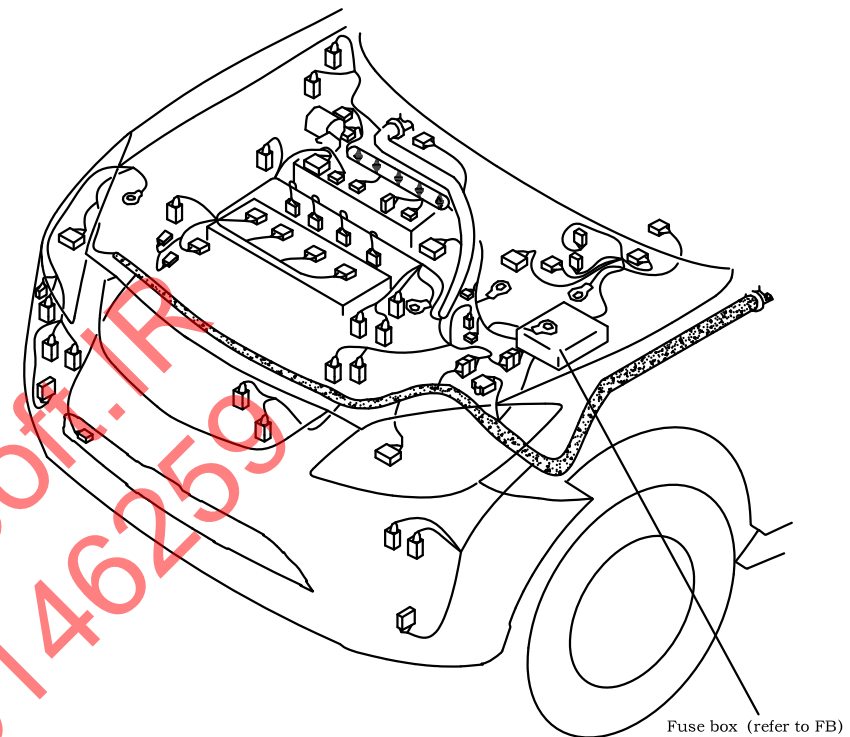
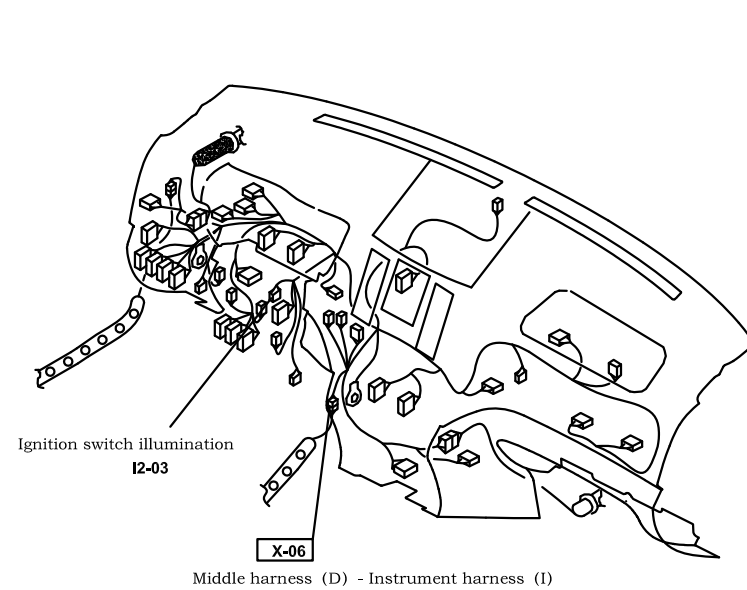


Illumination lamp

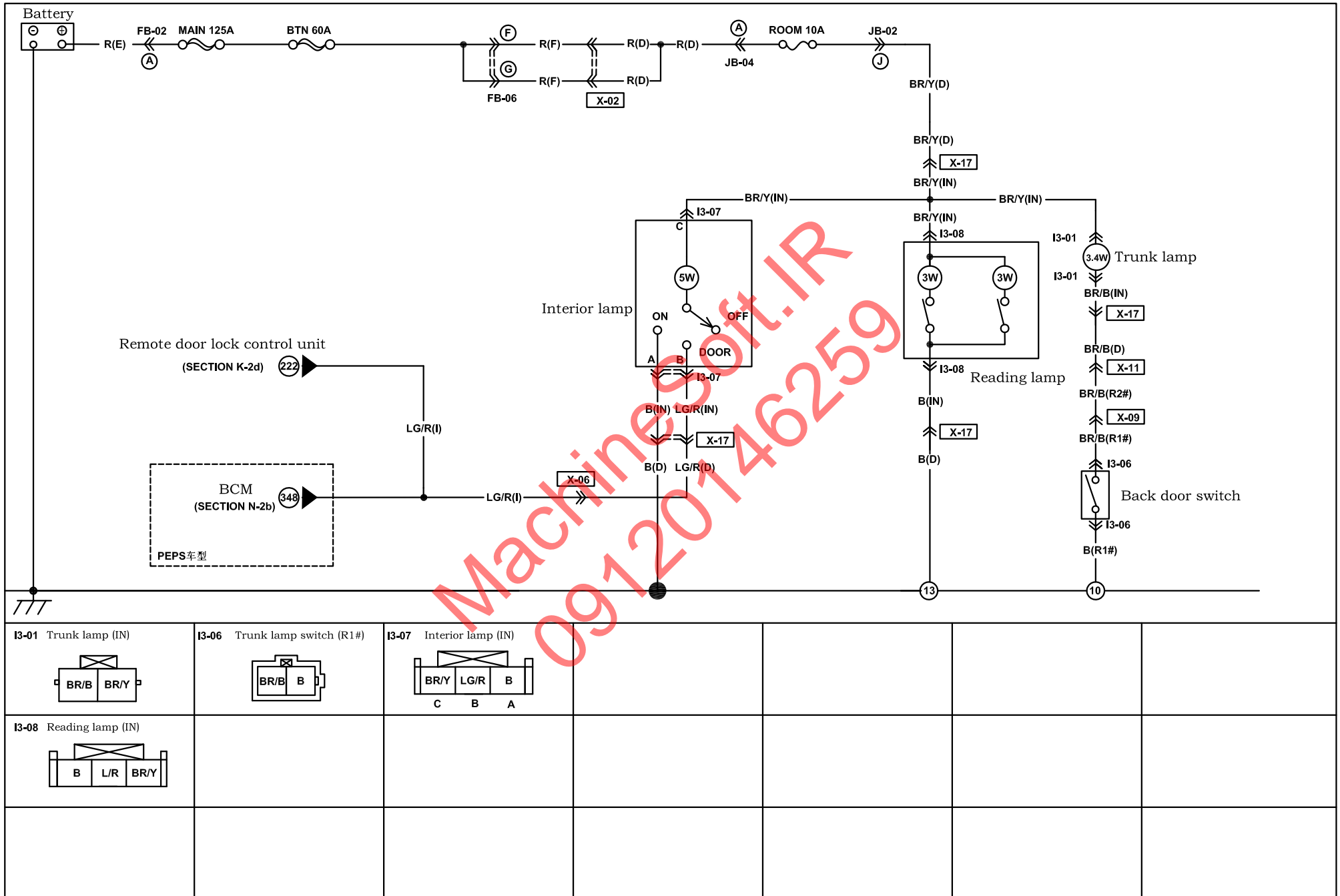
I-2c



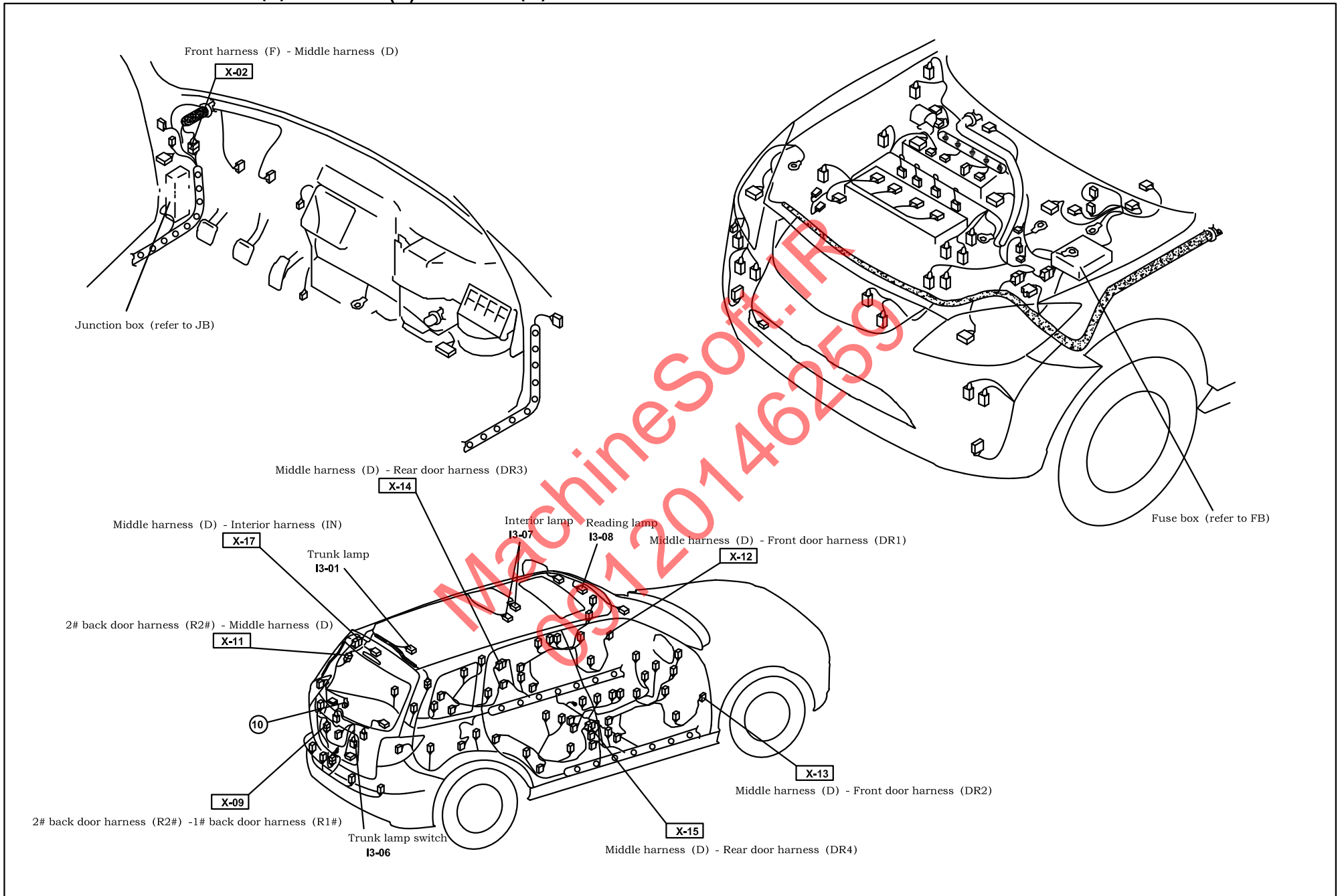
Harness mark:  (F)  (E)  (D)  (R)



Interior lamp/reading lamp/trunk lamp

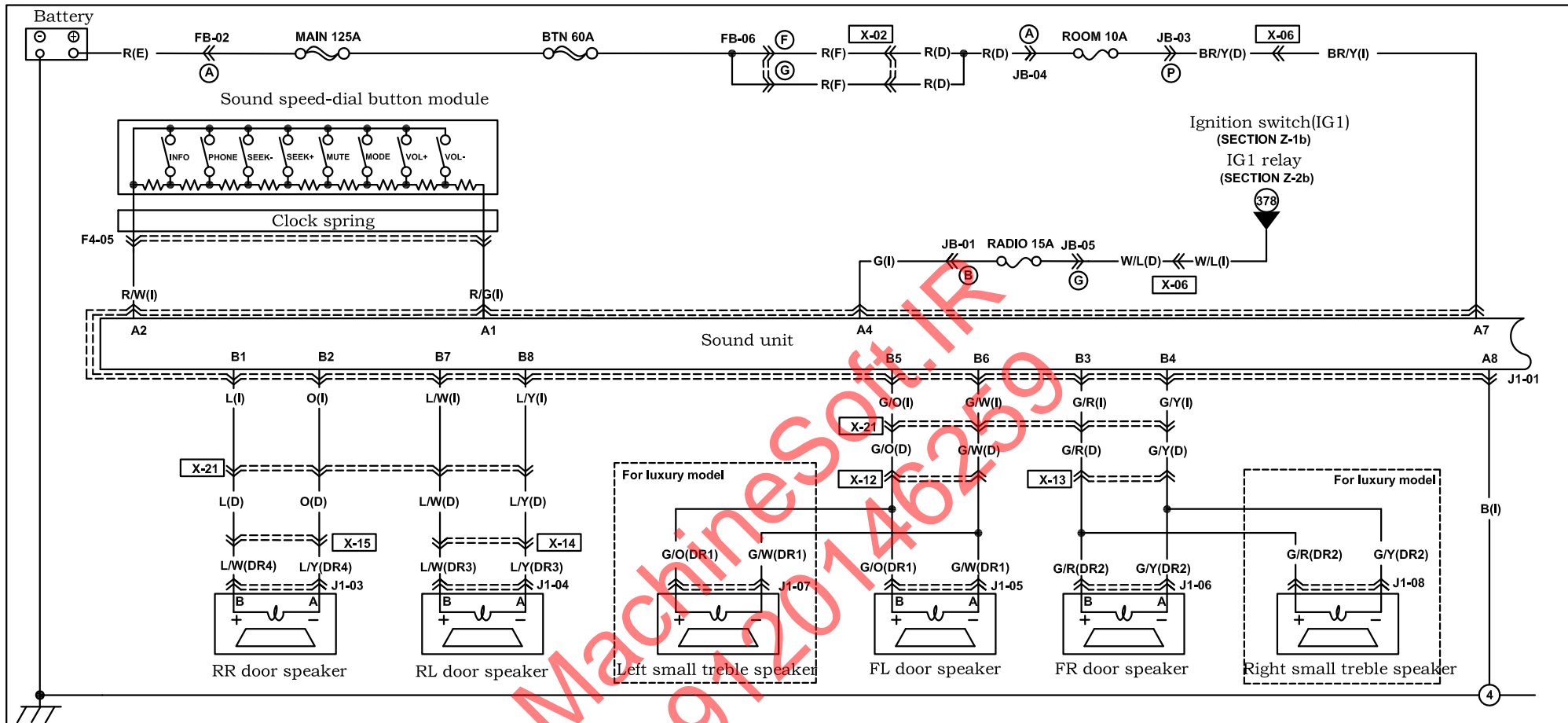


Harness mark:  (F)  (E)  (D)  (R)



Sound system

J-1a



J1-01 Sound unit (I)

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

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	

J1-03 RL door speaker(DR3)



J1-04 RR door speaker(DR4)



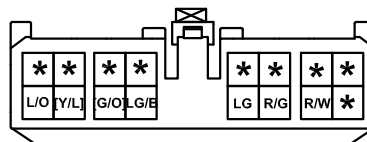
J1-05 FL door speaker(DR1)



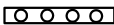



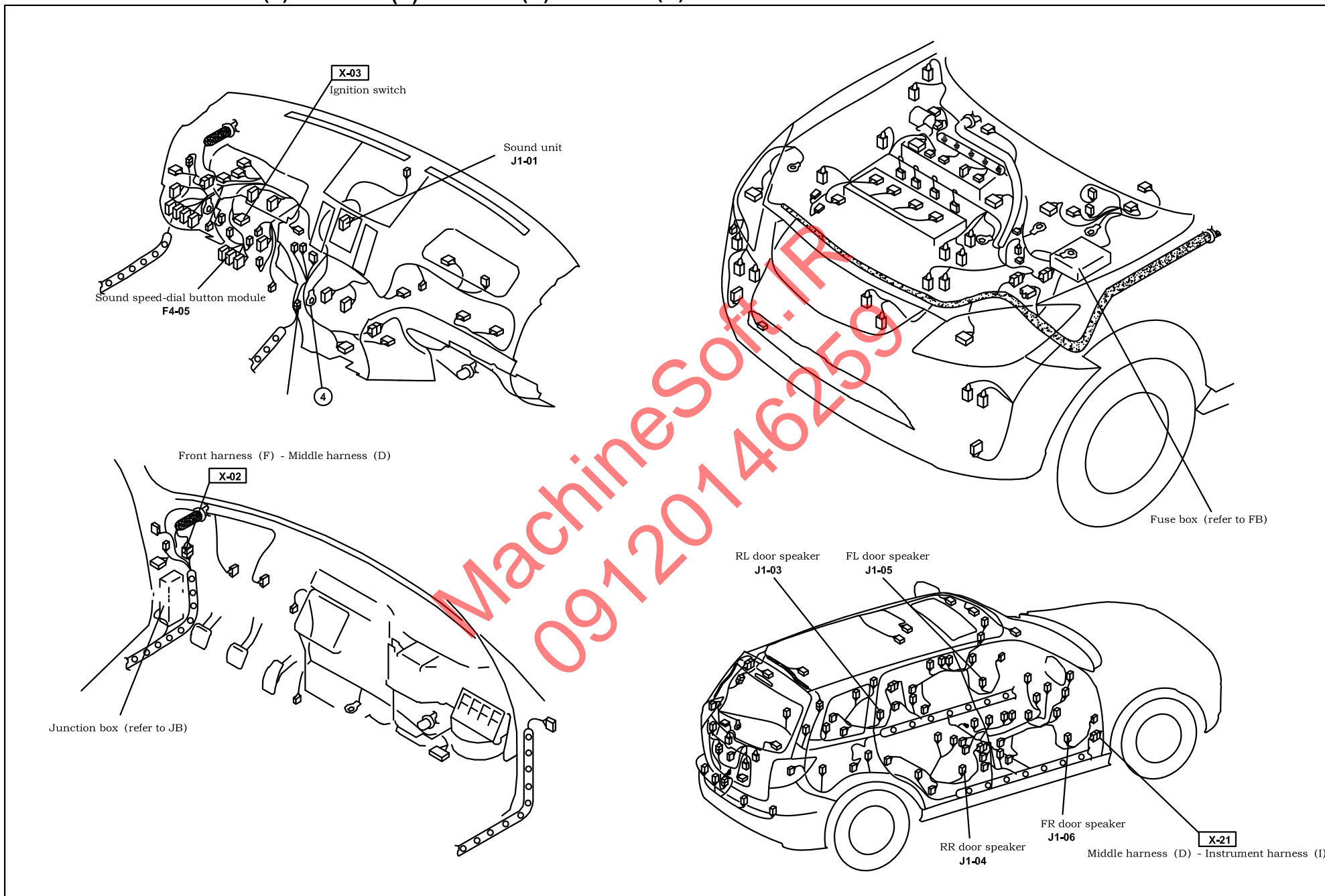
J1-06 FR door speaker (DR2)

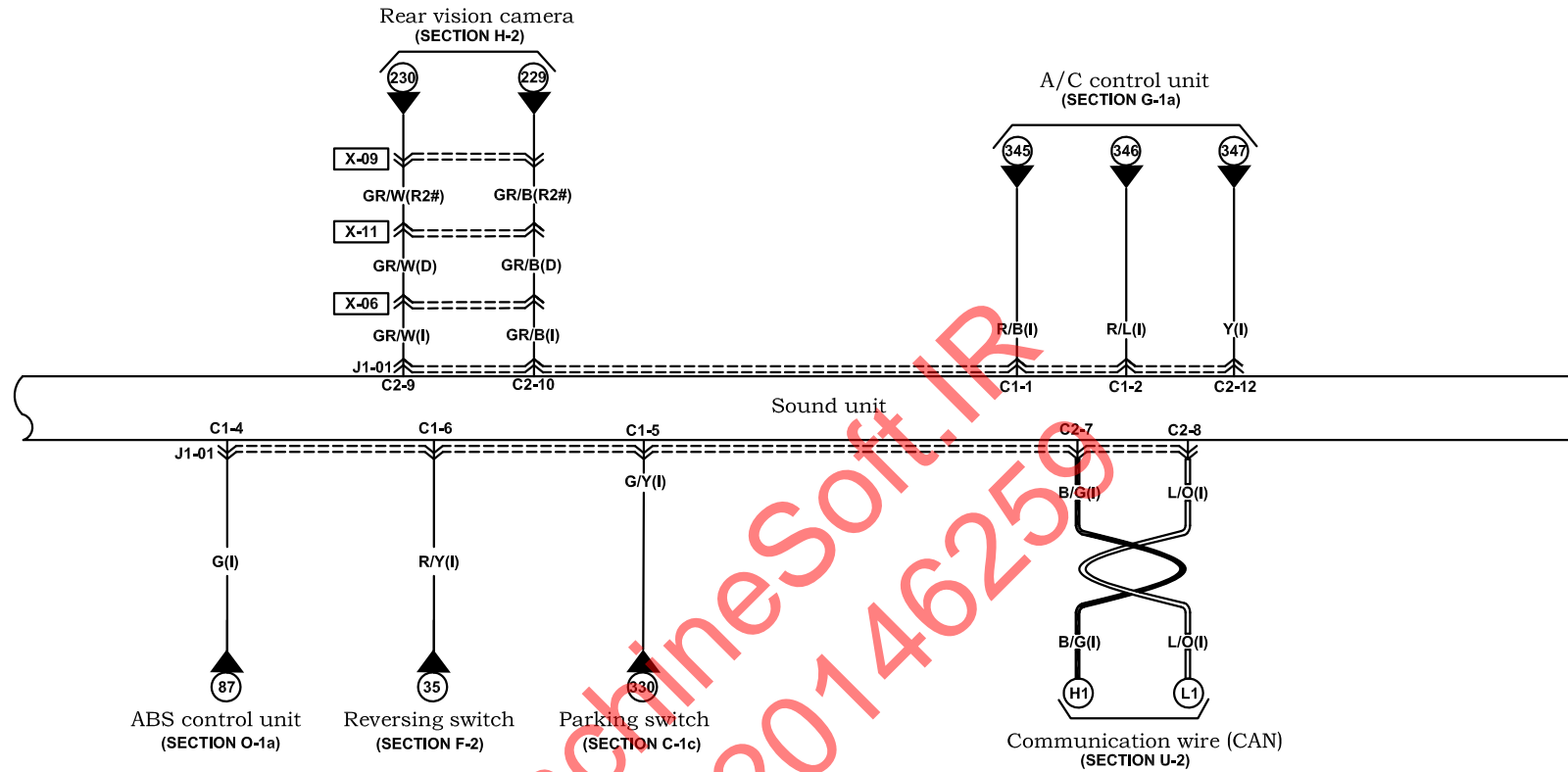


F4-05 Sound speed-dial button module (I) [] with cruise



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



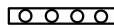
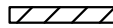


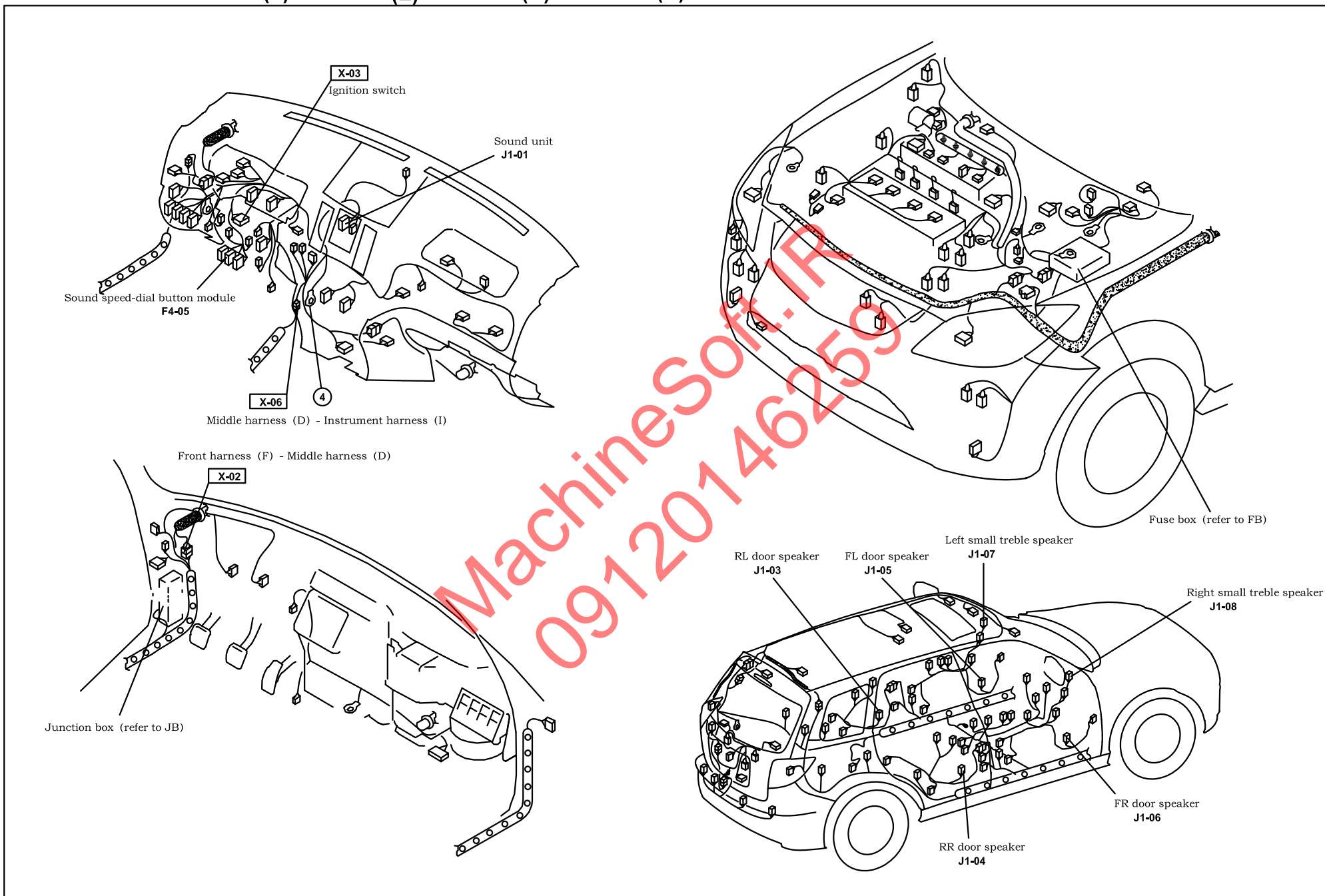


J1-01 Sound unit (I)

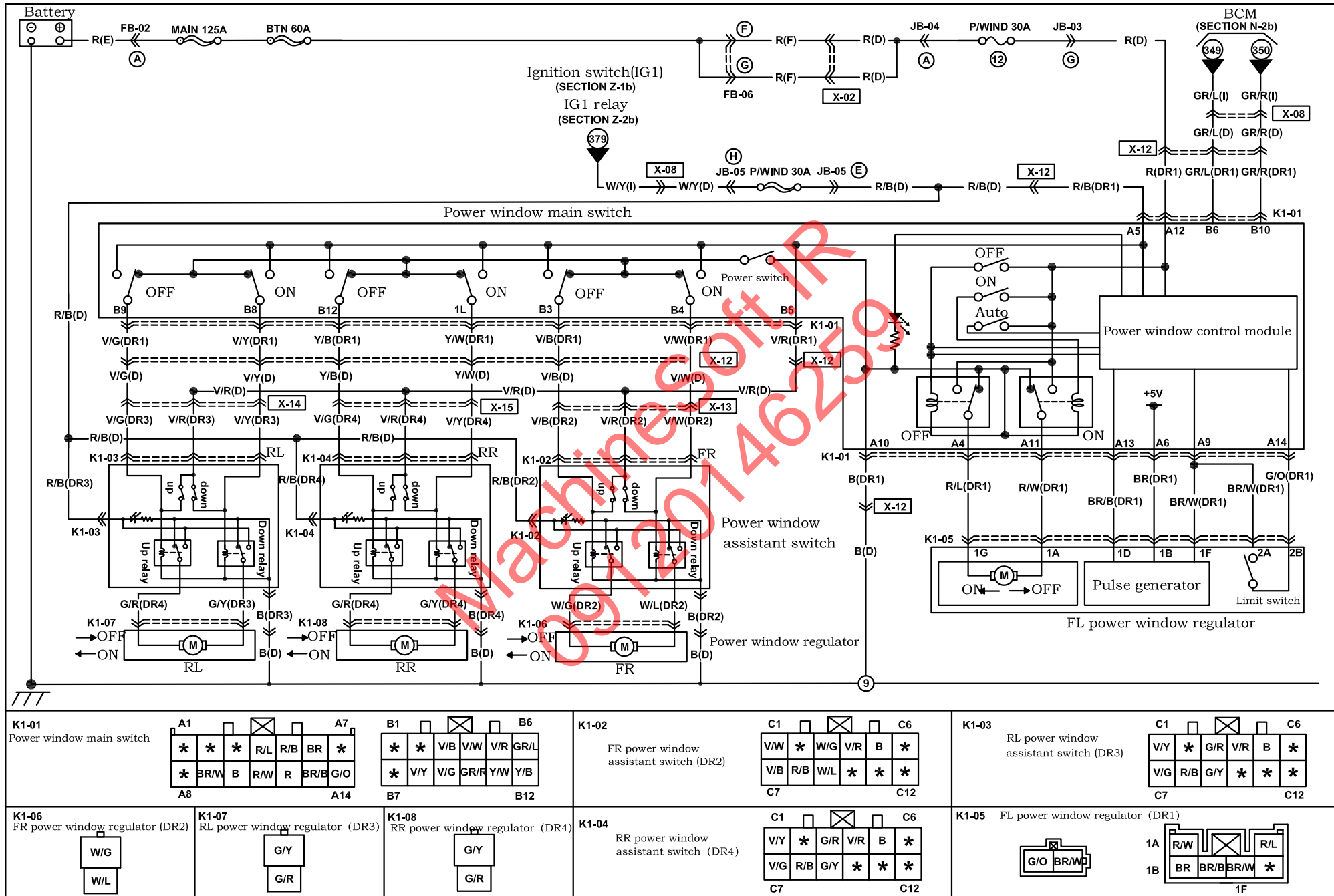
Yellow C1				Green C2				Blue C3			
1	R/B	G	7	1	B/G	GR/B	10	*	*	*	
3	*	R/Y	9	2	GR/W	Y	12	*	*		
5	R/L	G/Y	8	4	L/O	*	11	*	*	*	

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

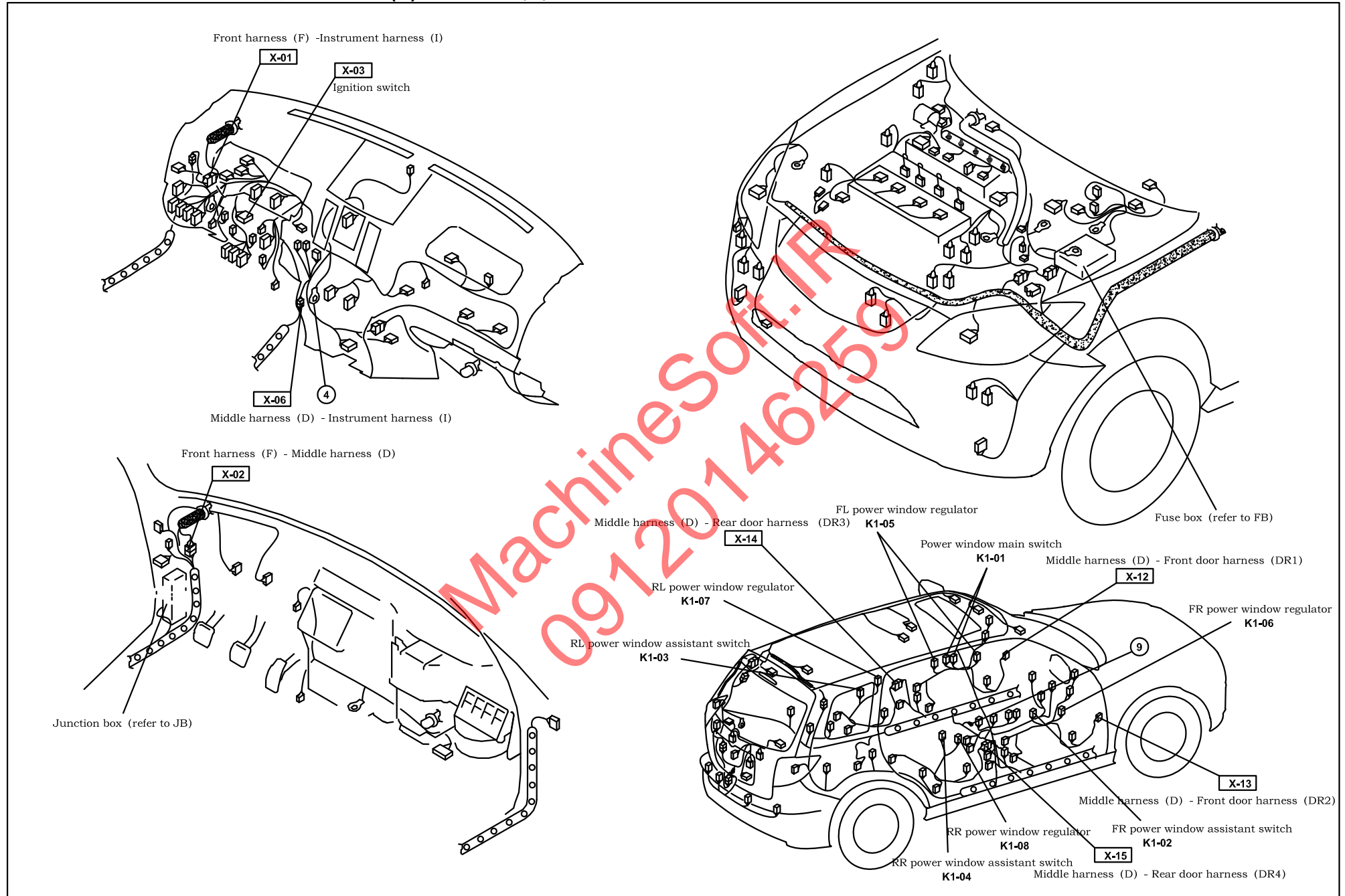
Harness mark:  (F)  (E)  (D)  (R)



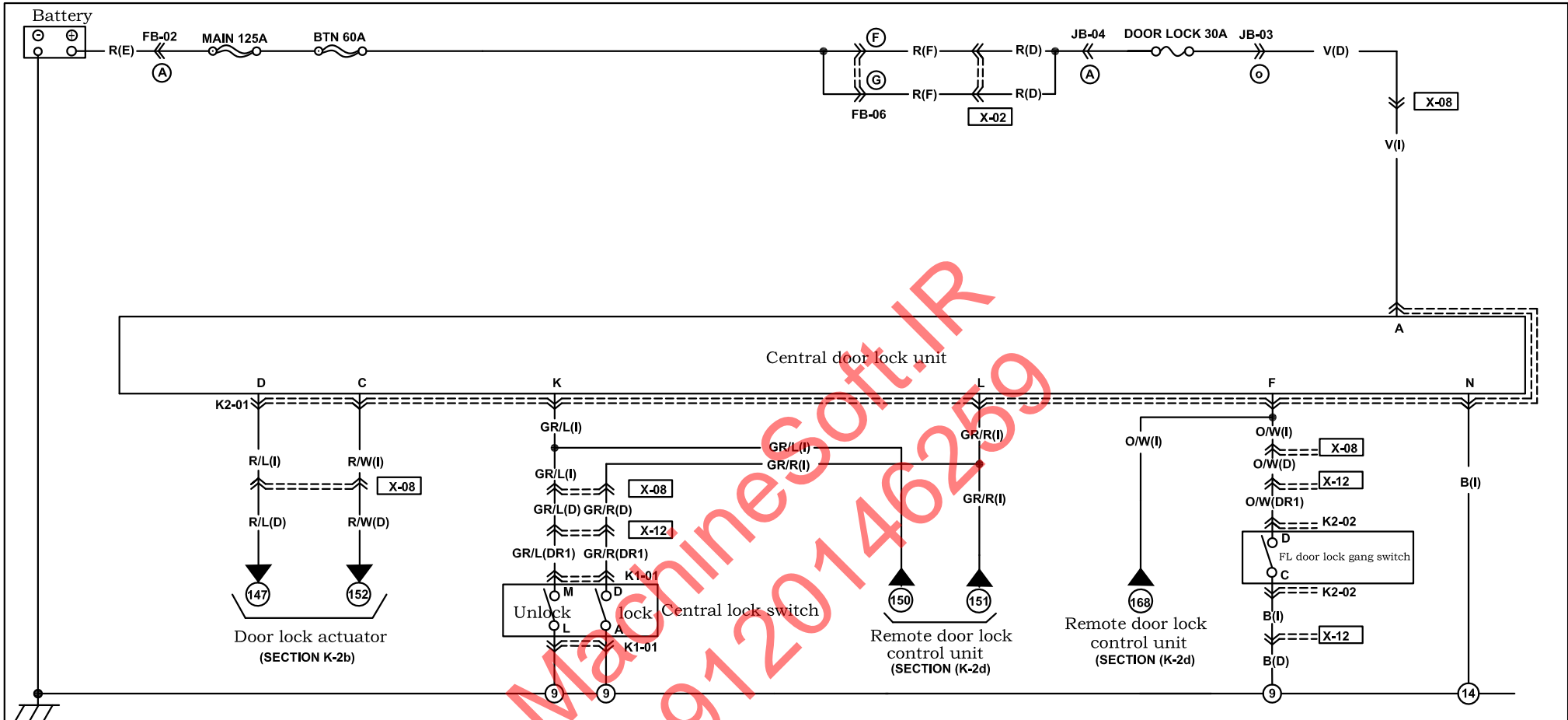
Power window system



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



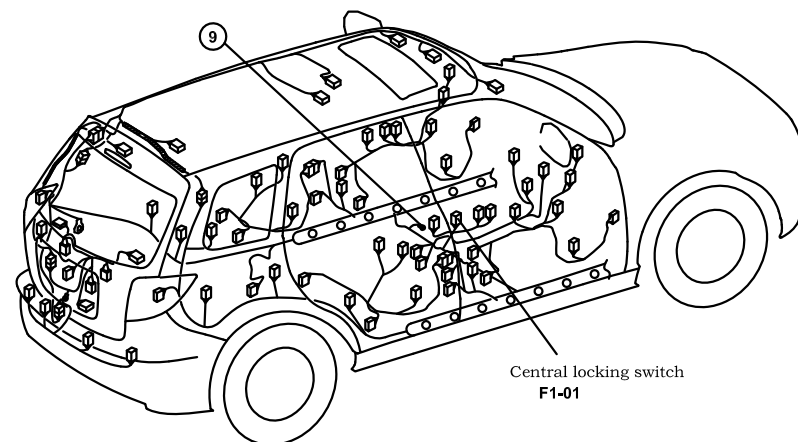
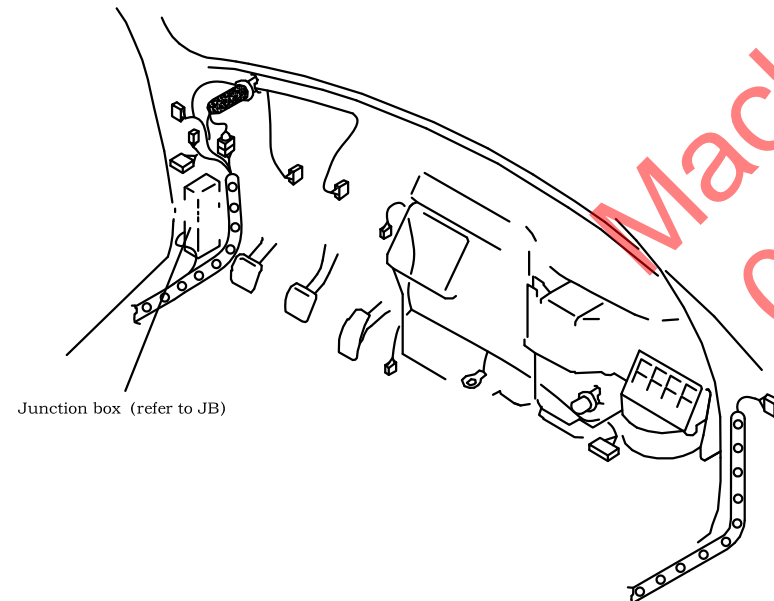
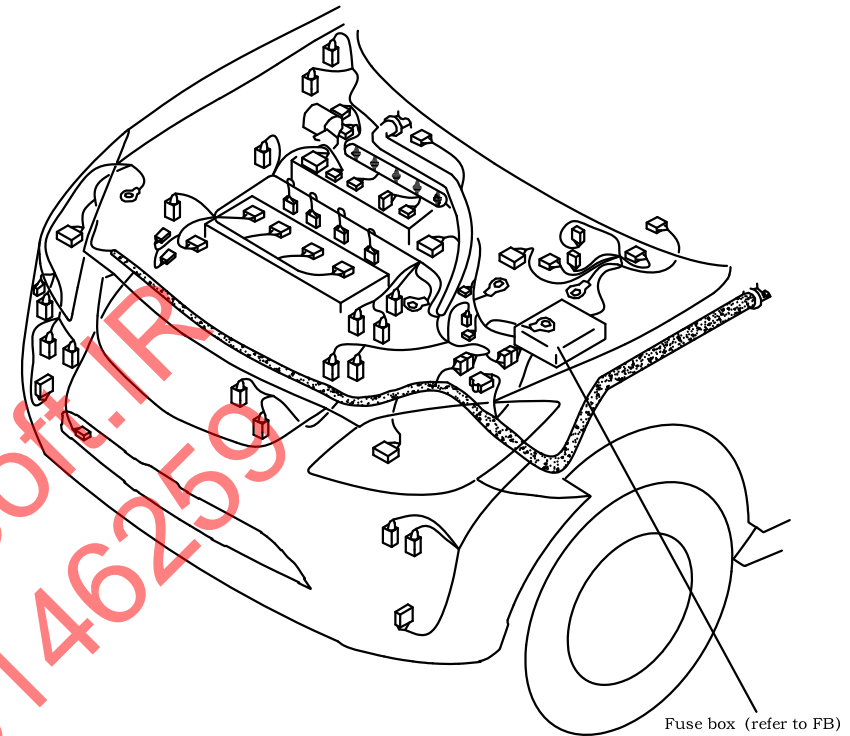
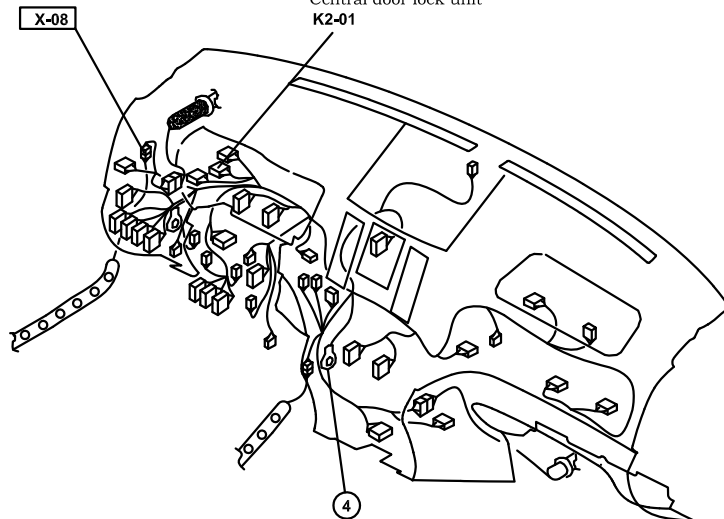
Remote and central door lock system



<p>K2-01 Central door lock unit (D)</p>	<p>K1-01 Power window main switch (DR1)</p>	<p>K2-02 FL door lock actuator (DR1)</p>

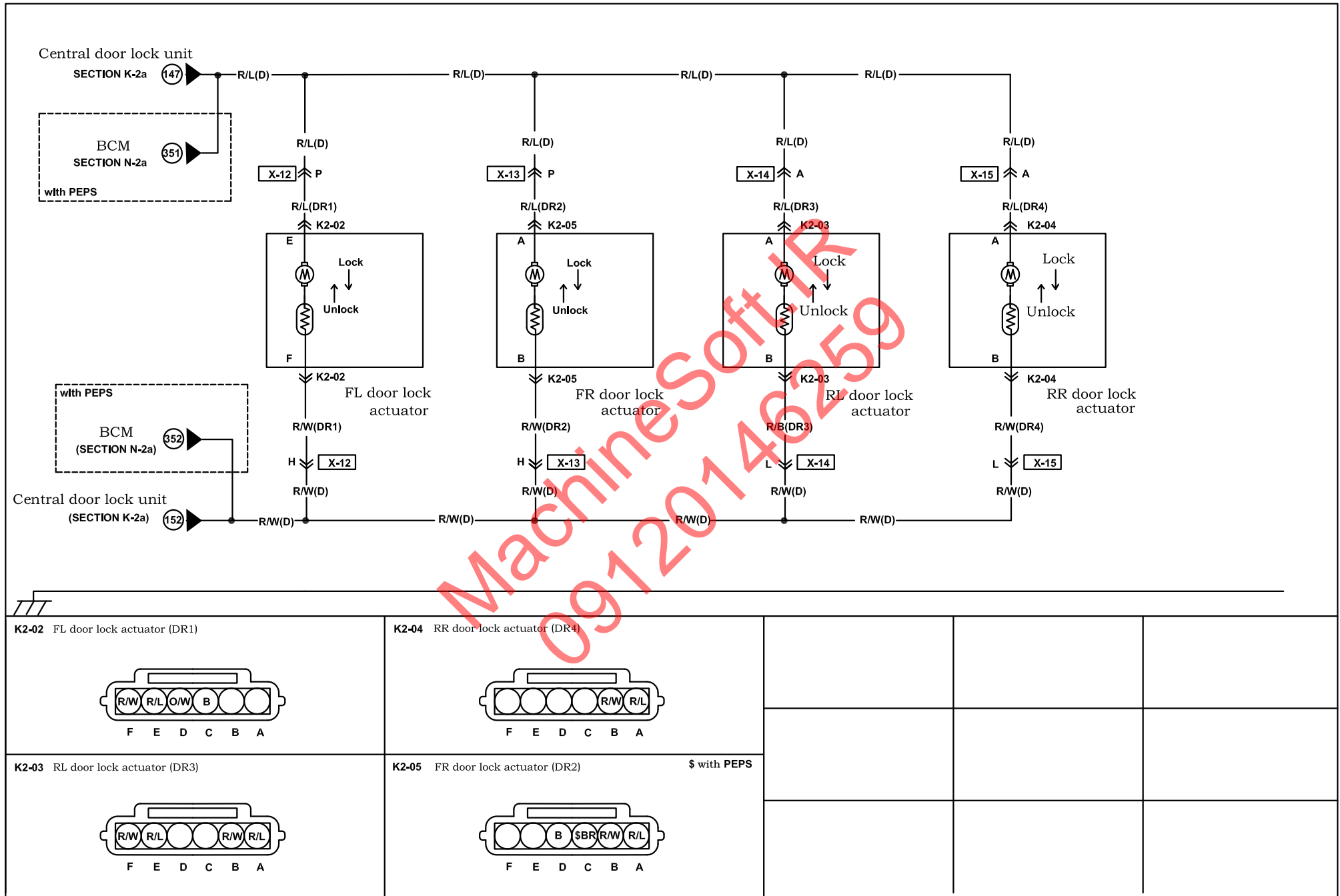
Harness mark:  (F)  (E)  (D)  (R)



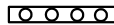
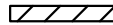
Middle harness (D) - Instrument harness (I)

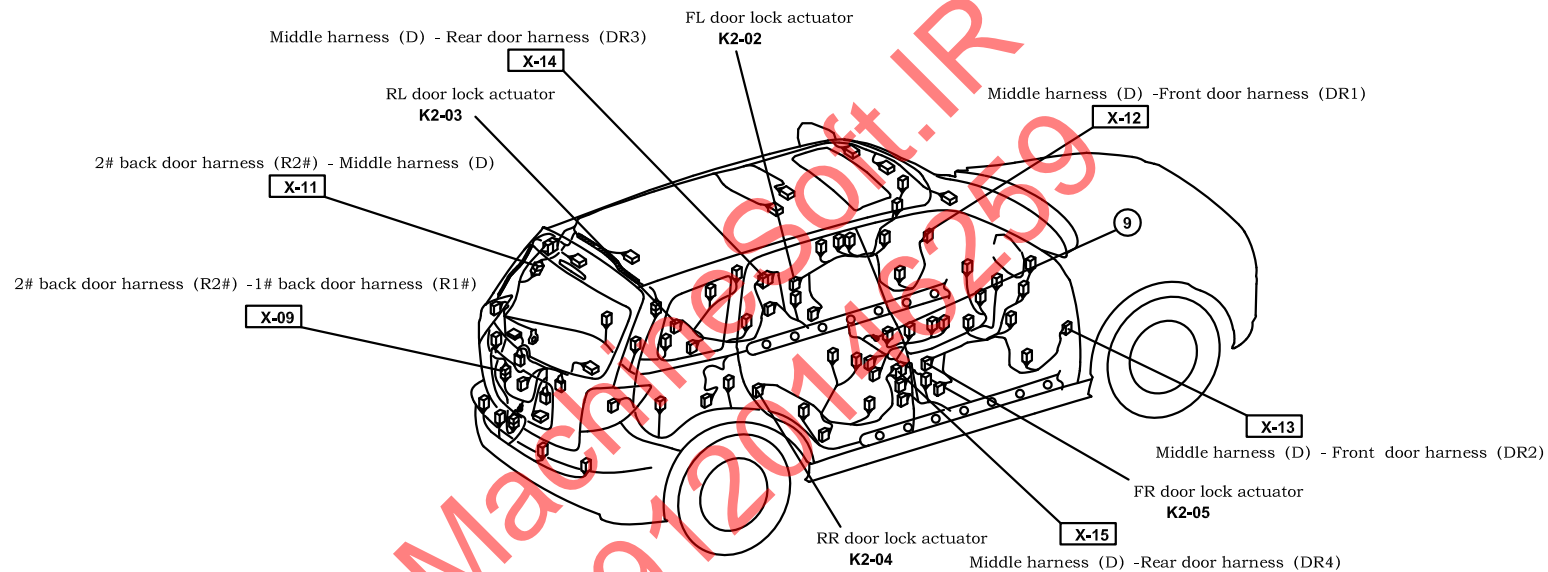


Remote and central door lock system

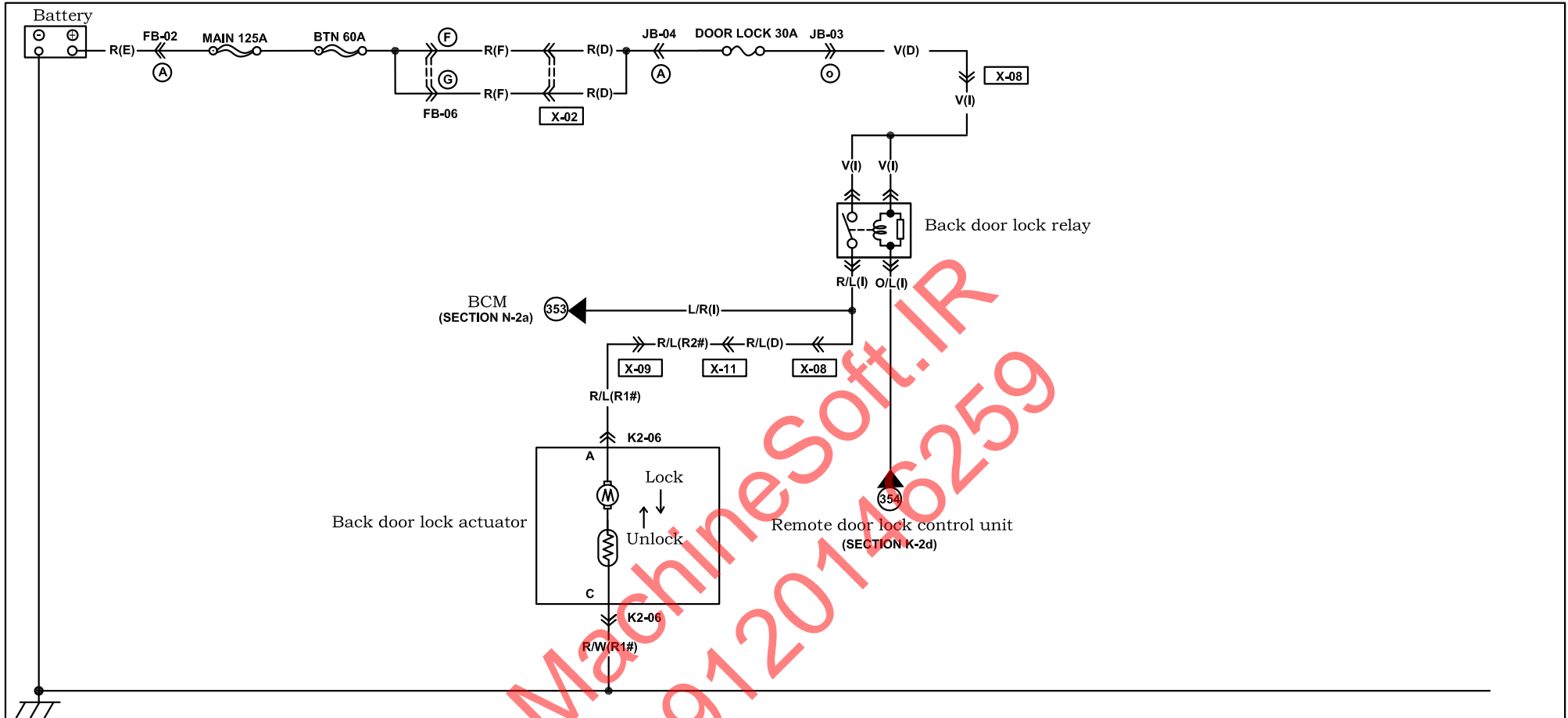
K-2b



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



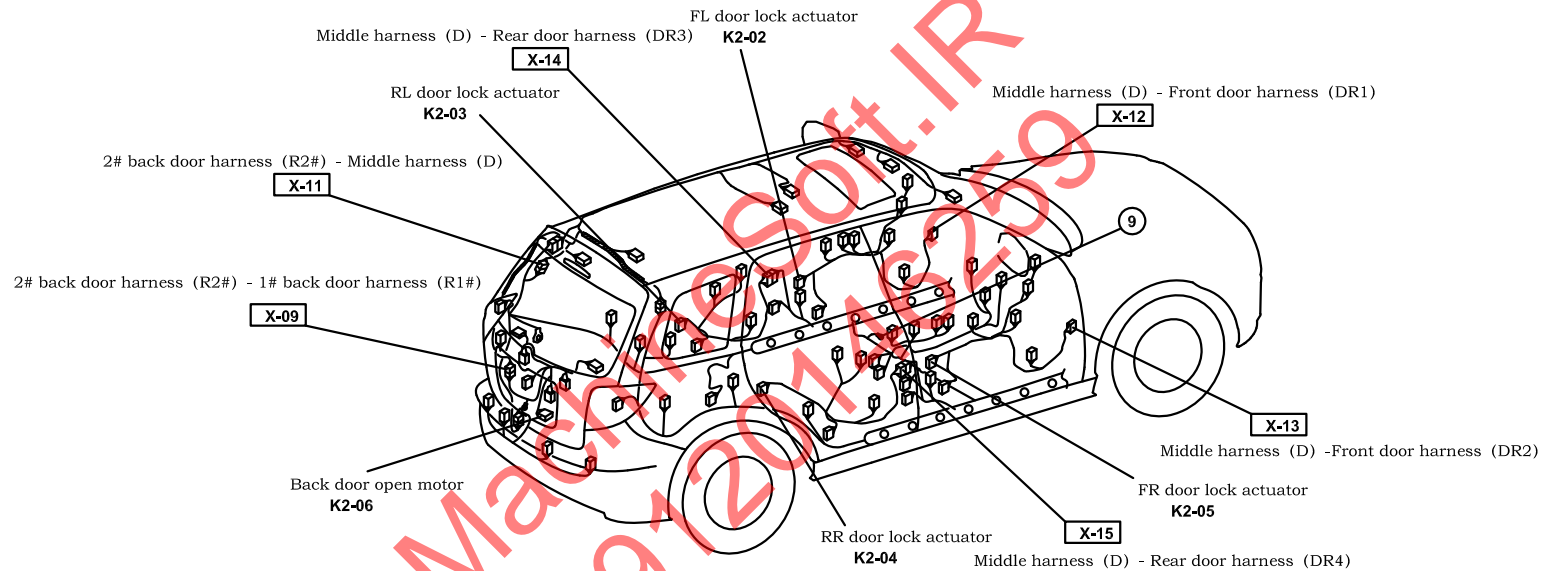
Remote and central door lock system



K2-06 Back door open motor (R1 #)

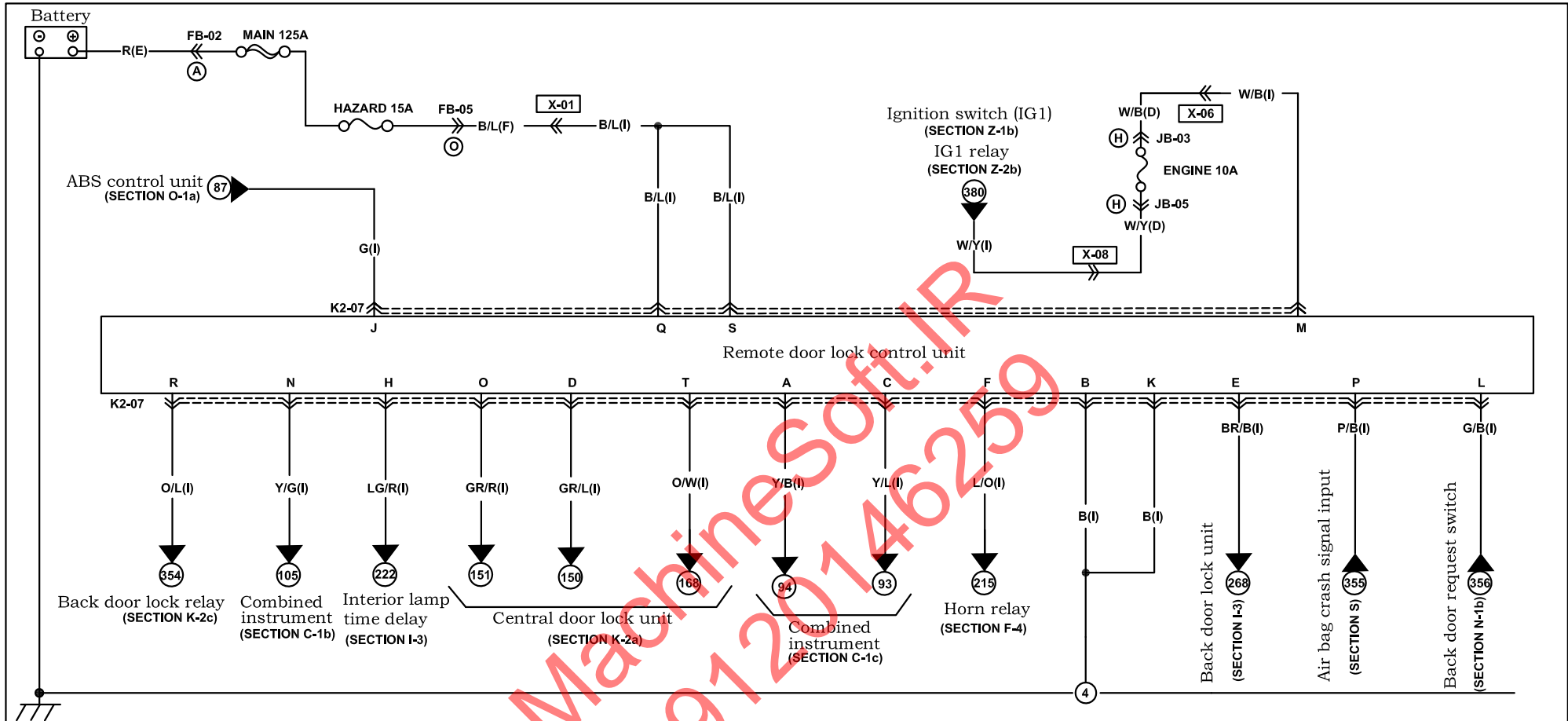
E	D	C	B	A
*	*	L/R	*	B

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





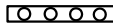

Remote and central door lock system

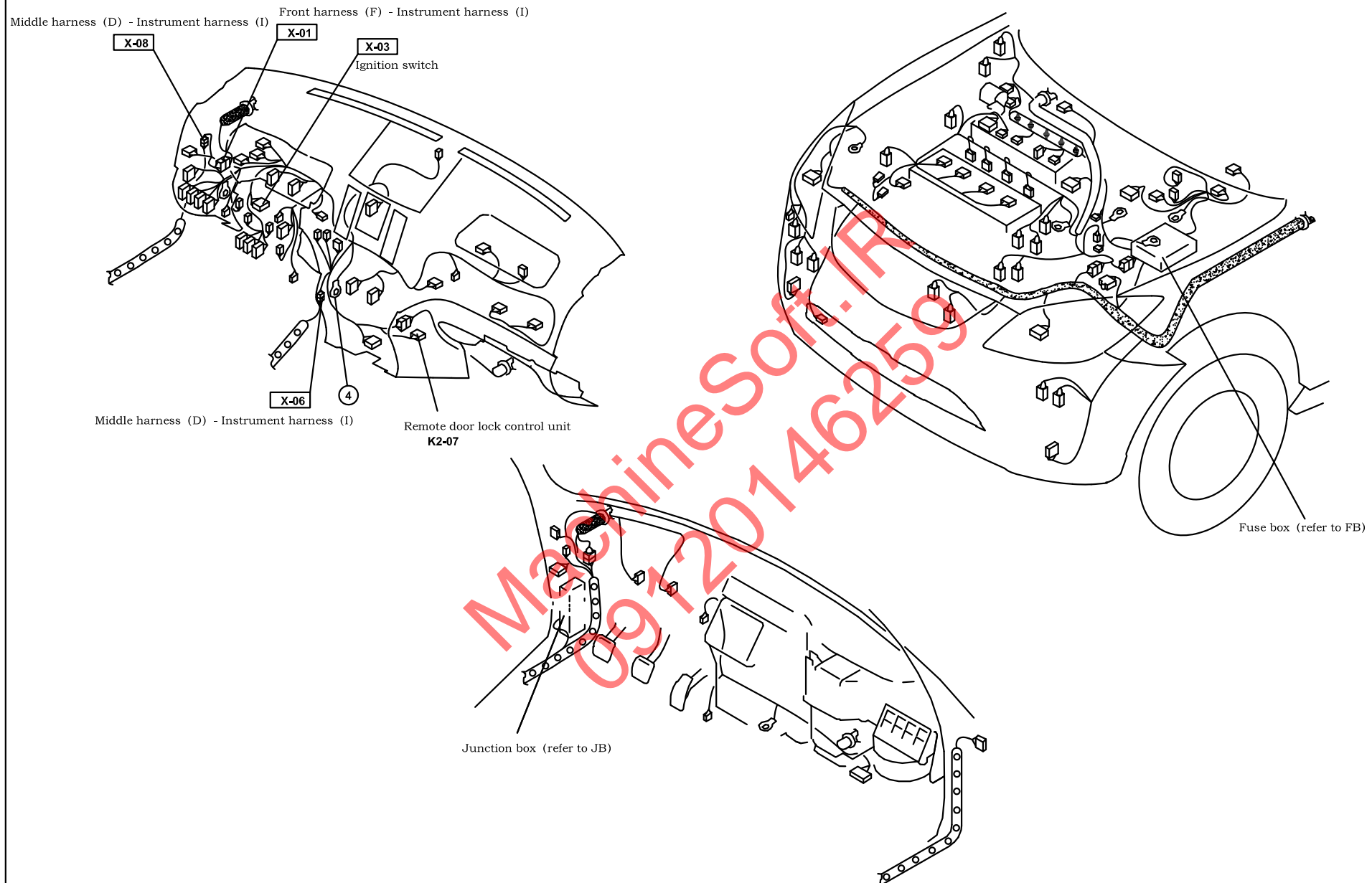
K-2d



K2-07 Remote door lock control unit (I)

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

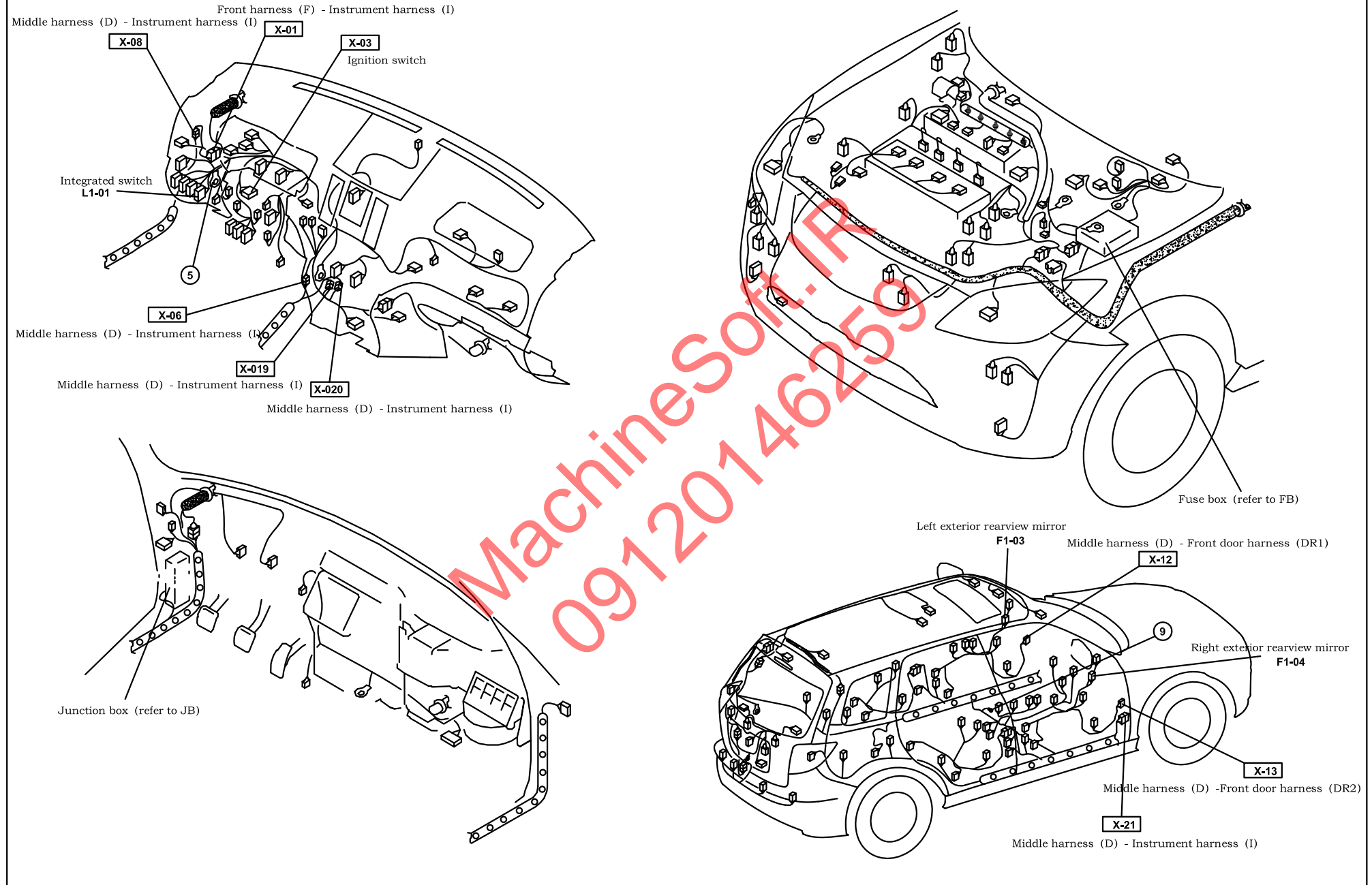
Harness mark:  (F)  (E)  (D)  (R)



L



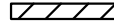


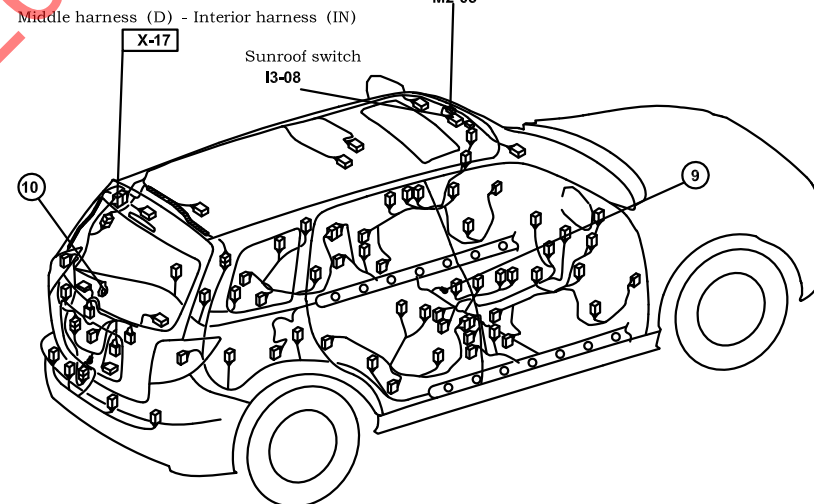
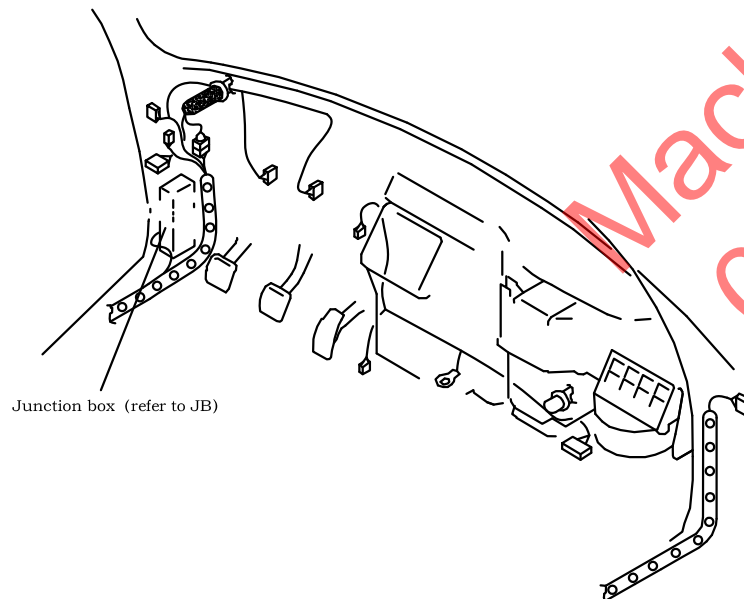
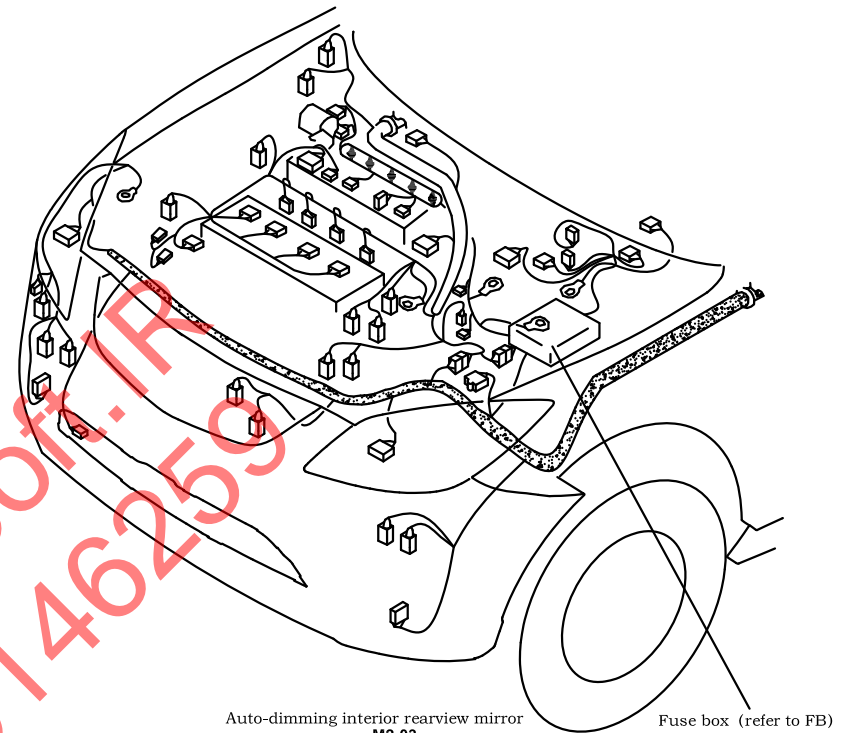
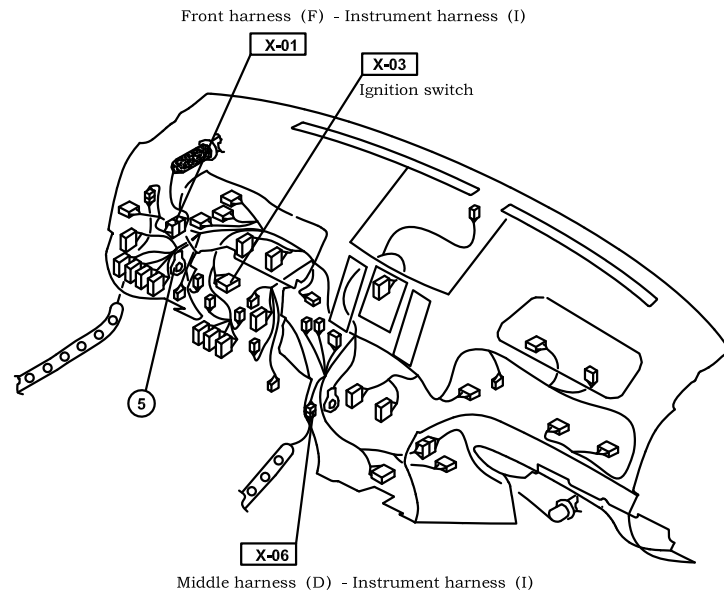
Harness mark:  (F)  (E)  (D)  (R)



M

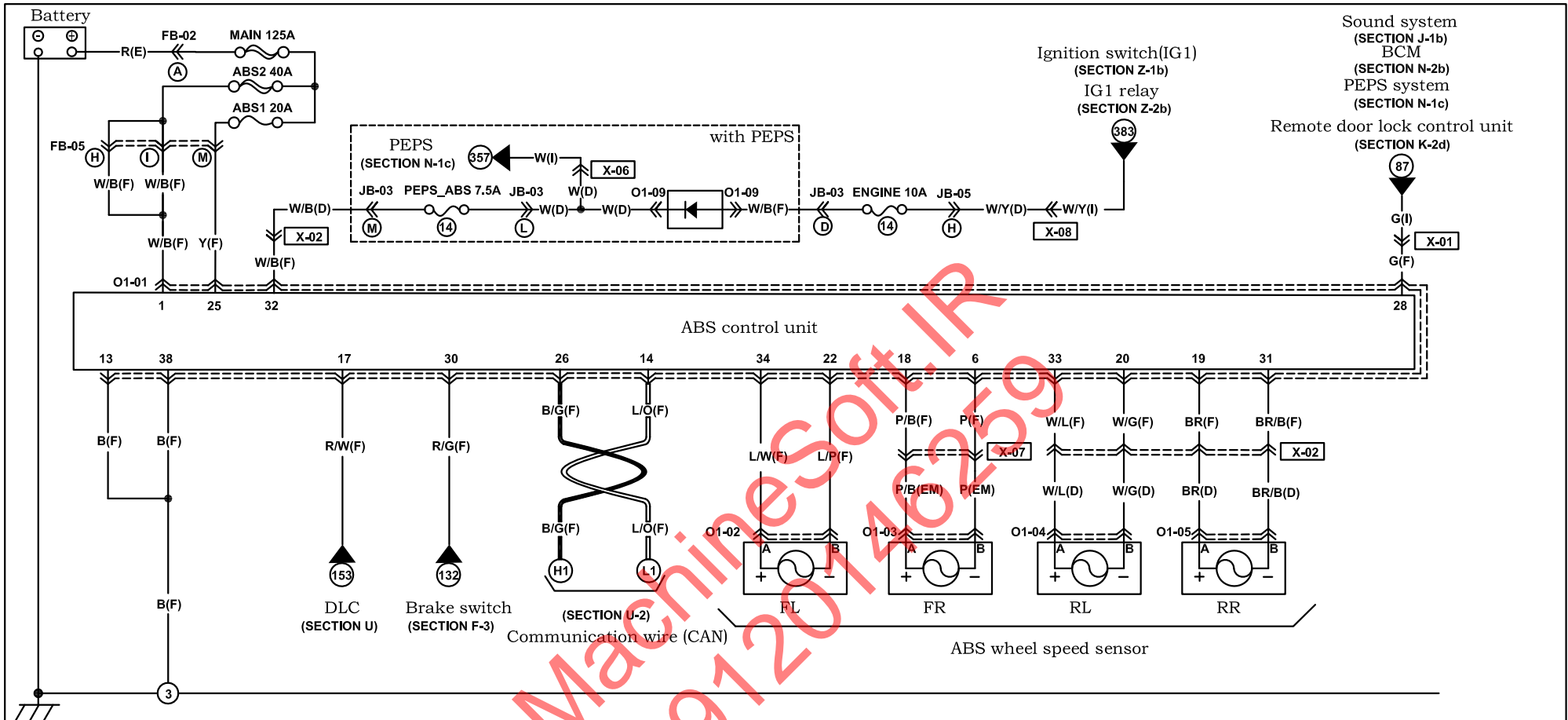


Harness mark:  (F)  (E)  (D)  (R)

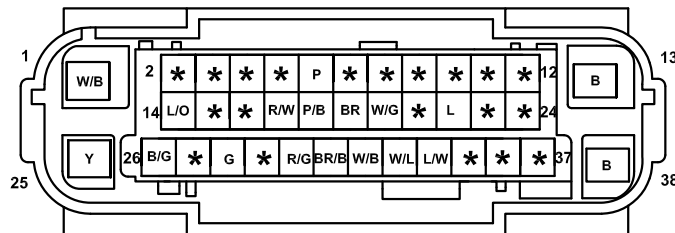


Anti-lock braking system

O-1a



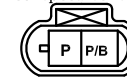
O1-01 ABS control unit (F)



O1-02 ABS wheel speed sensor FL (EM)



O1-03 ABS wheel speed sensor FR (EM)



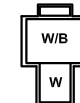
O1-04 ABS wheel speed sensor RL (D)

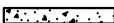





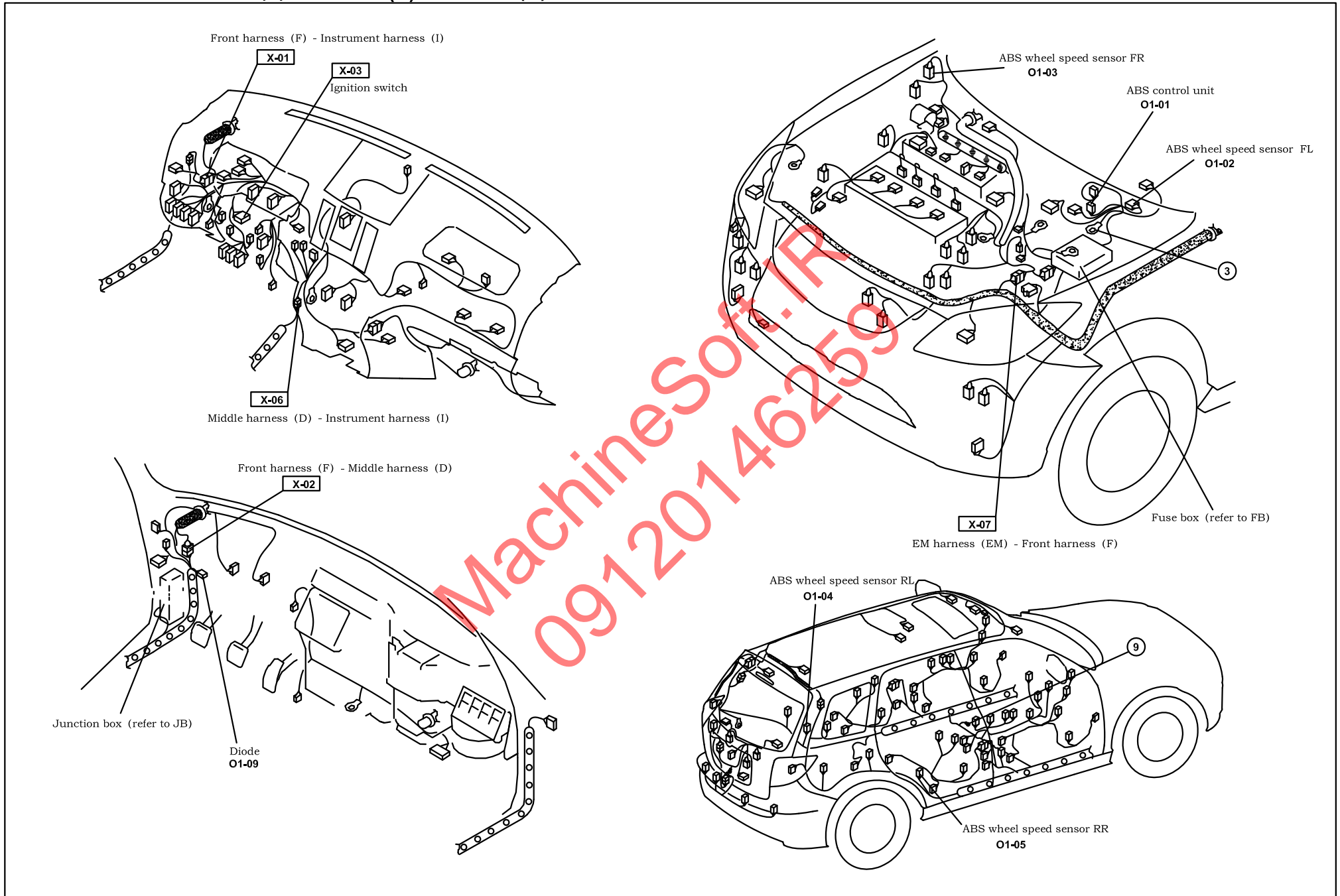
O1-05 ABS wheel speed sensor RR (D)

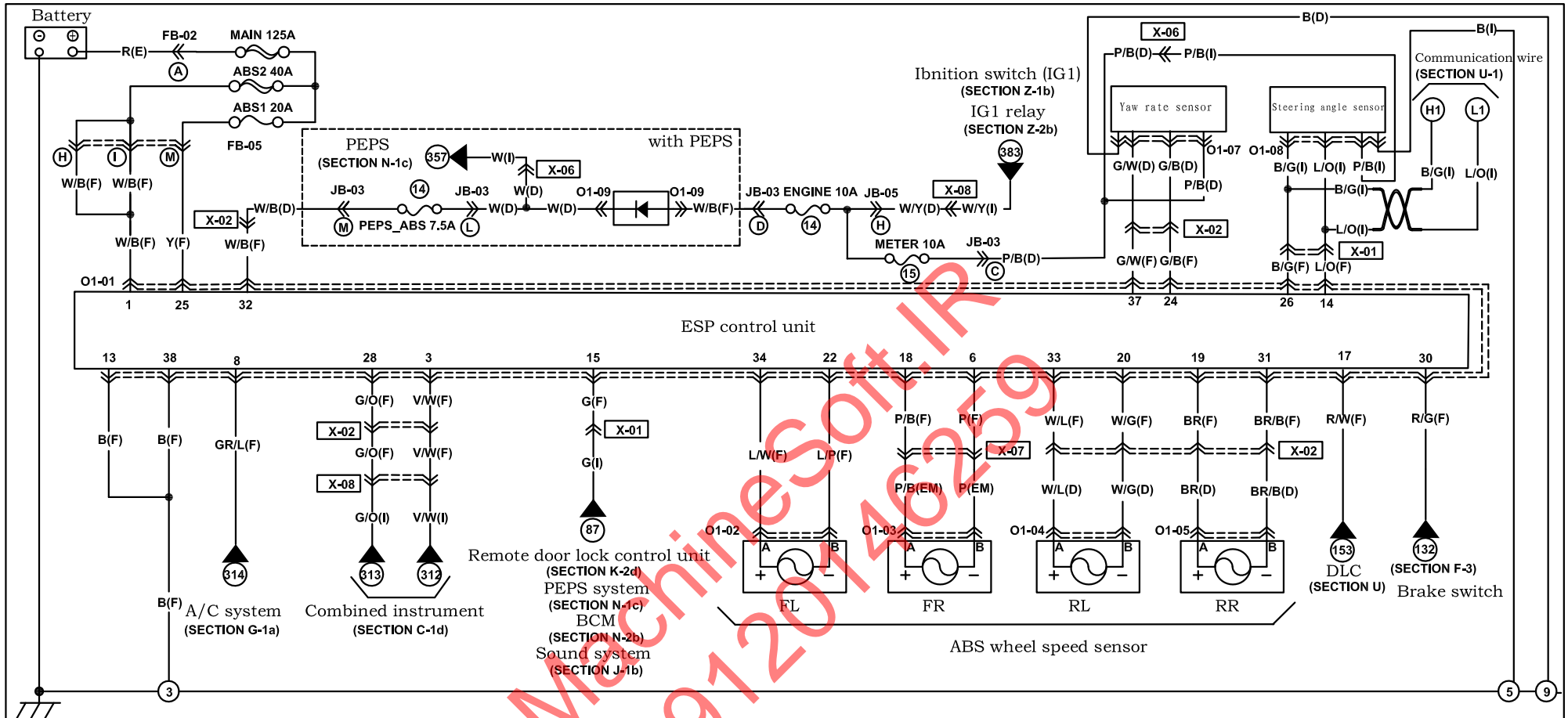


O1-09 Diode (D)

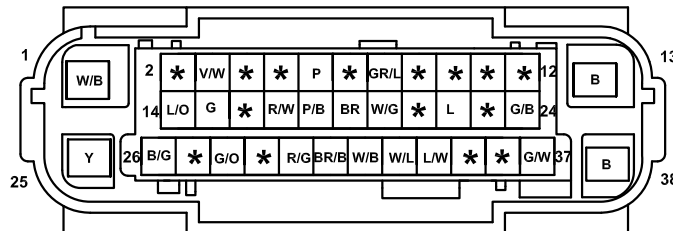


Harness mark:  (F)  (E)  (D)  (R)





O1-06 ESP control unit (F)



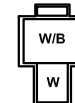
O1-02 ABS wheel speed sensor FL (EM)



O1-04 ABS wheel speed sensor RL (D)



O1-09 Diode (D)



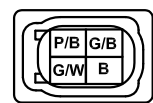
O1-03 ABS wheel speed sensor FR (EM)



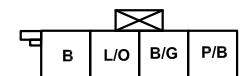
O1-05 ABS wheel speed sensor RR (D)



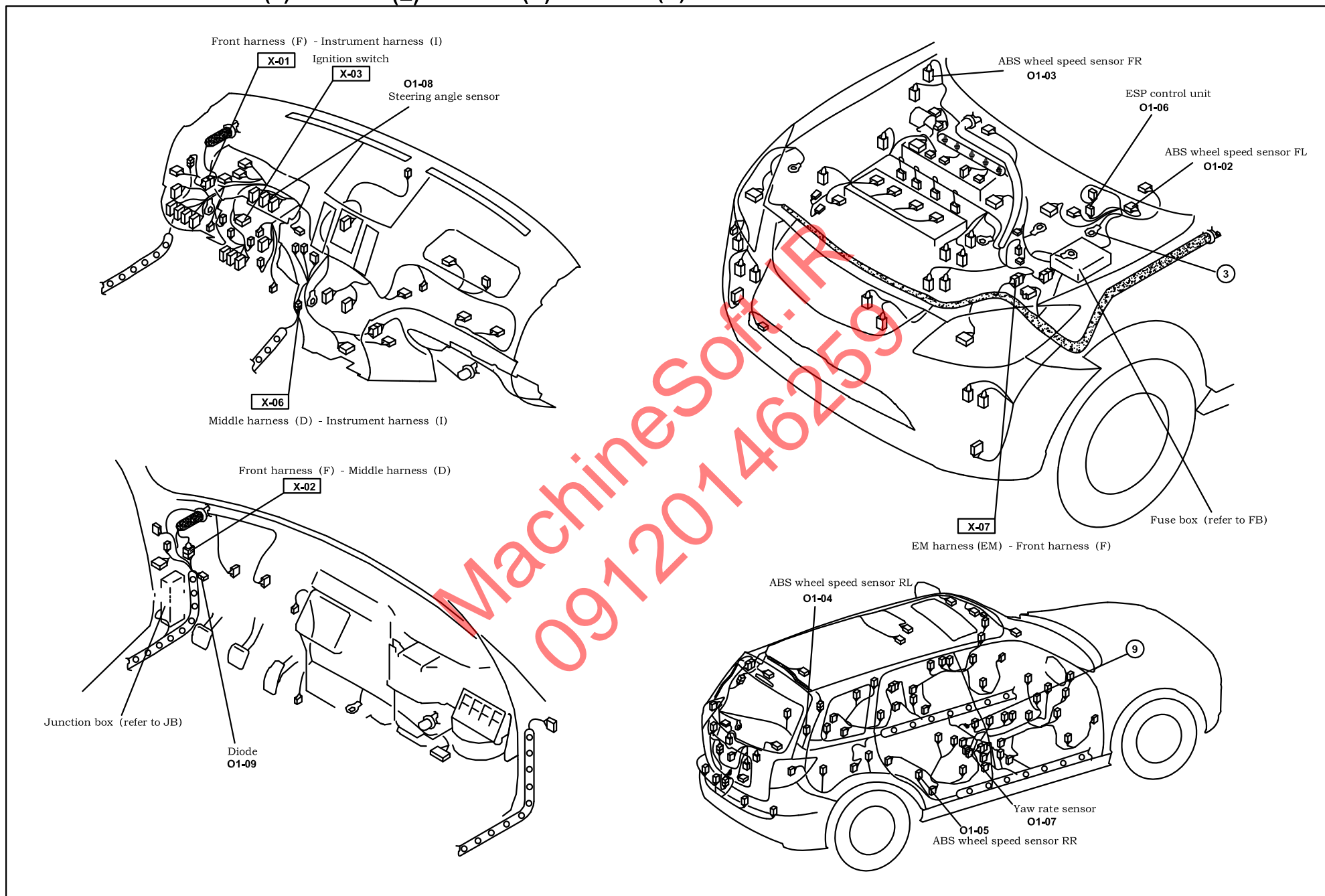
O1-07 Yaw rate sensor (D)



O1-08 Steering angle sensor (I)

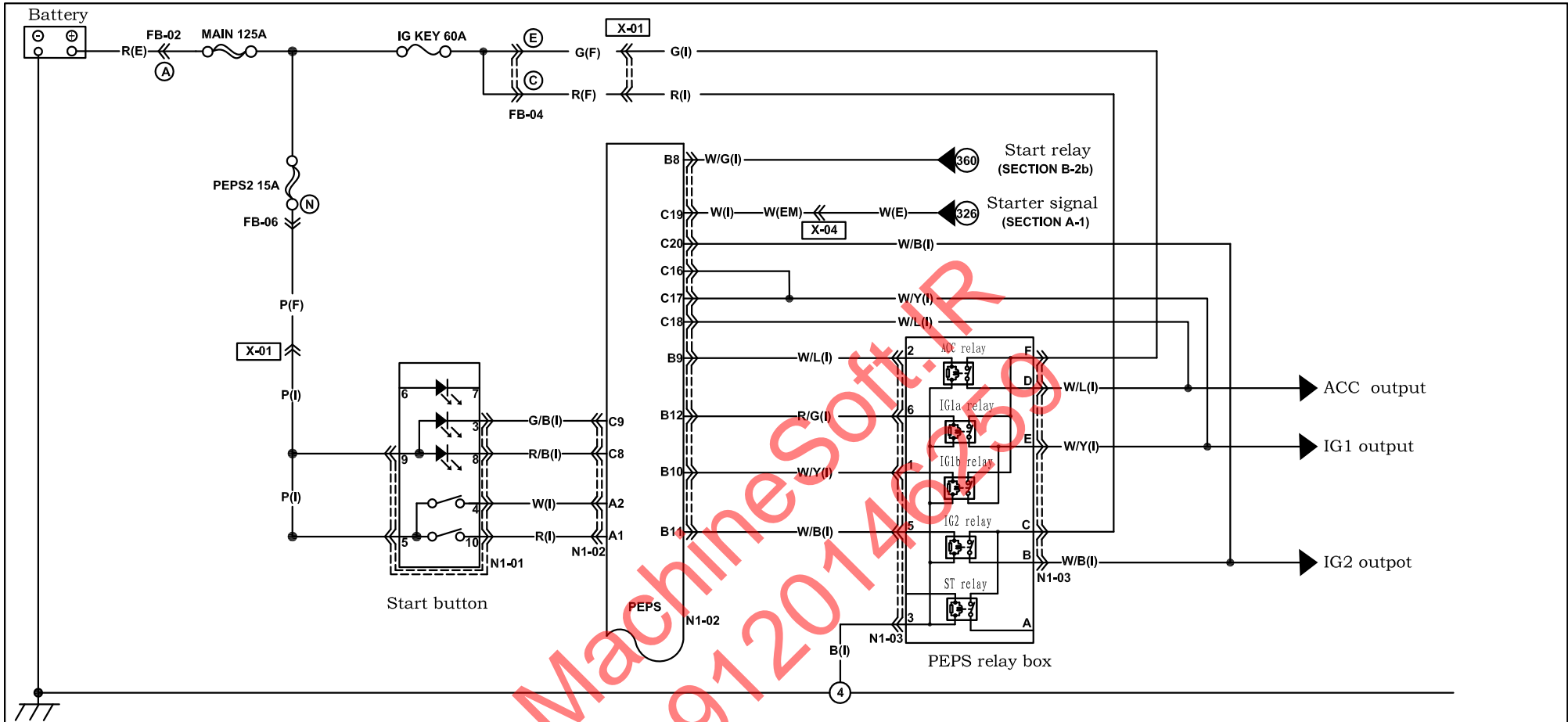


Harness mark:  (F)  (E)  (D)  (R)

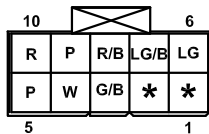


Smart key system (PEPS)

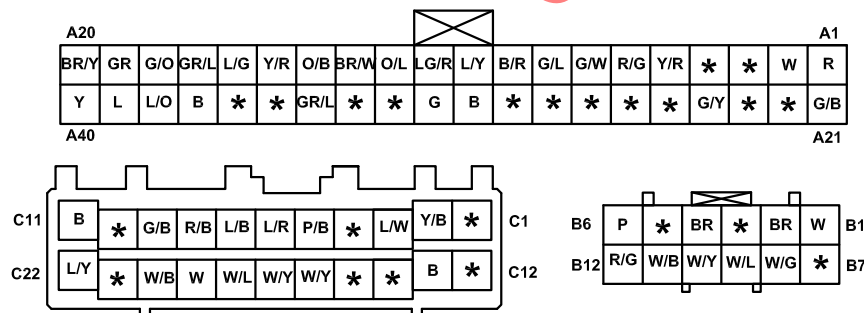
N-1a



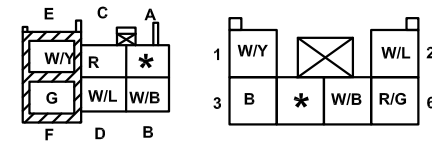
N1-01 Start button (I)



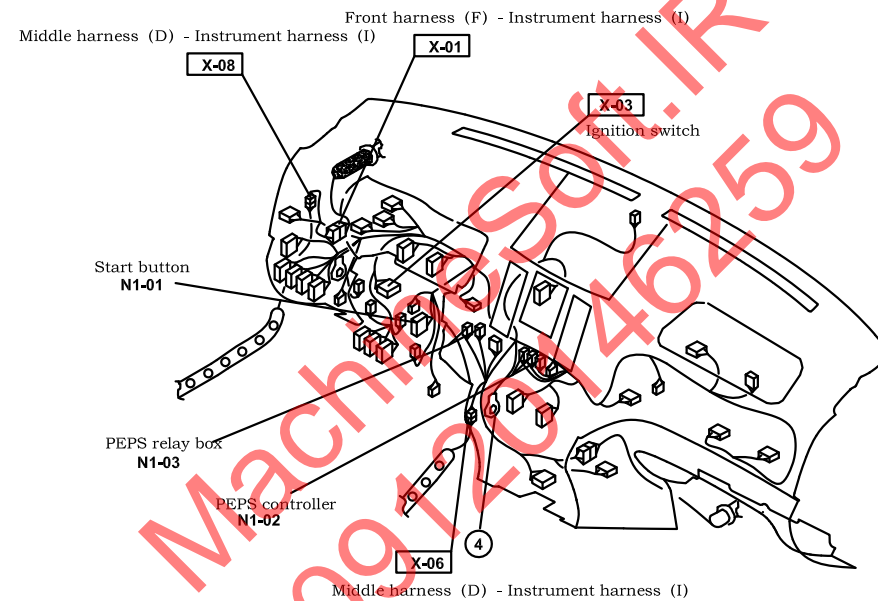
N1-02 PEPS controller (I)







N1-03 PEPS relay box (I)

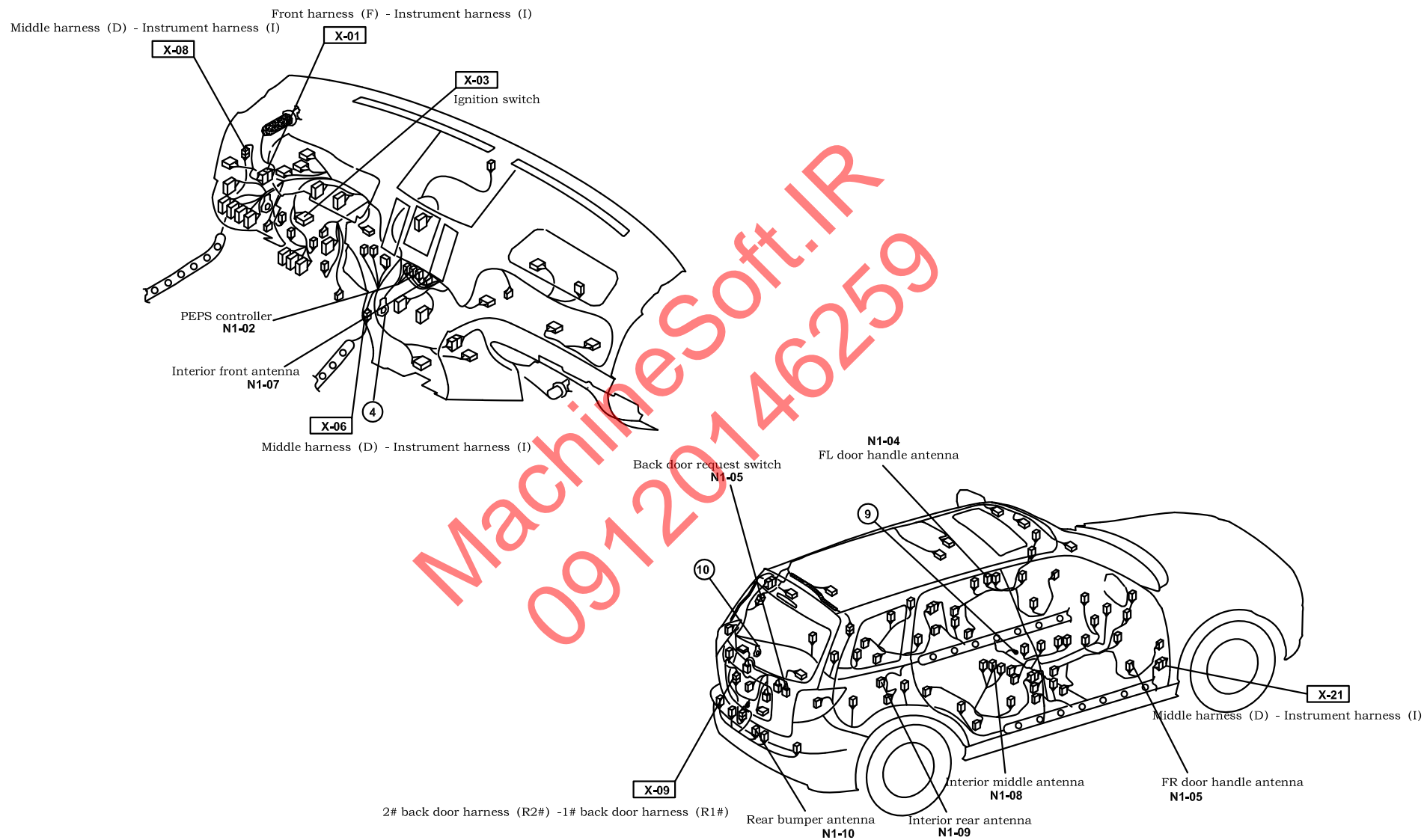


Harness mark:  (F)  (E)  (D)  (R)

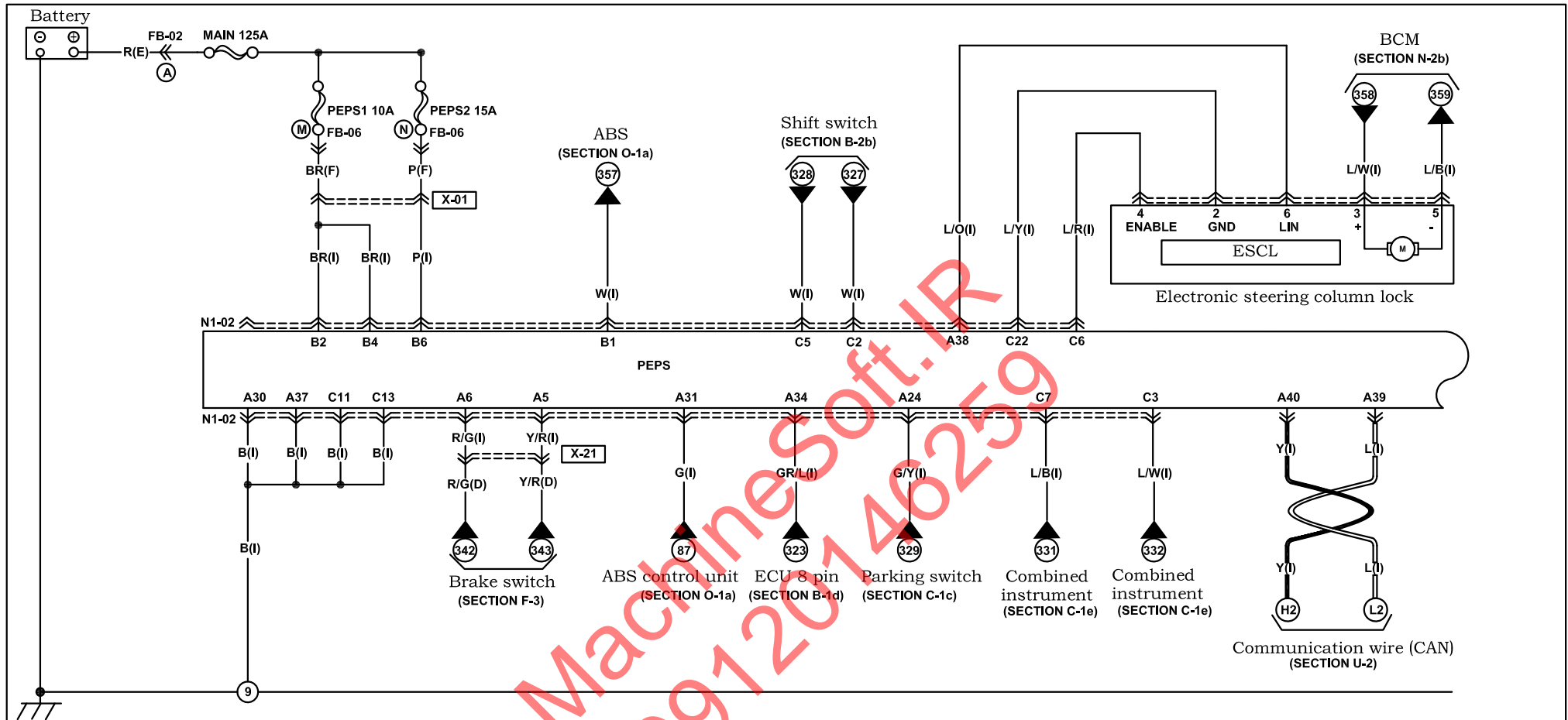




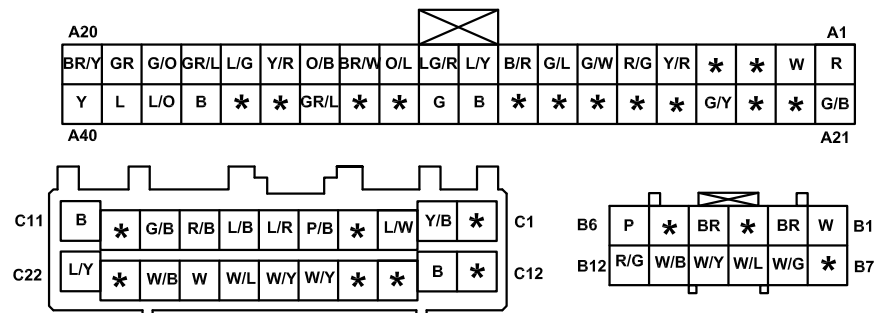
Harness mark:  (F)  (E)  (D)  (R)



Smart key system (PEPS)

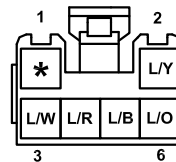


N1-02 PEPS controller (I)



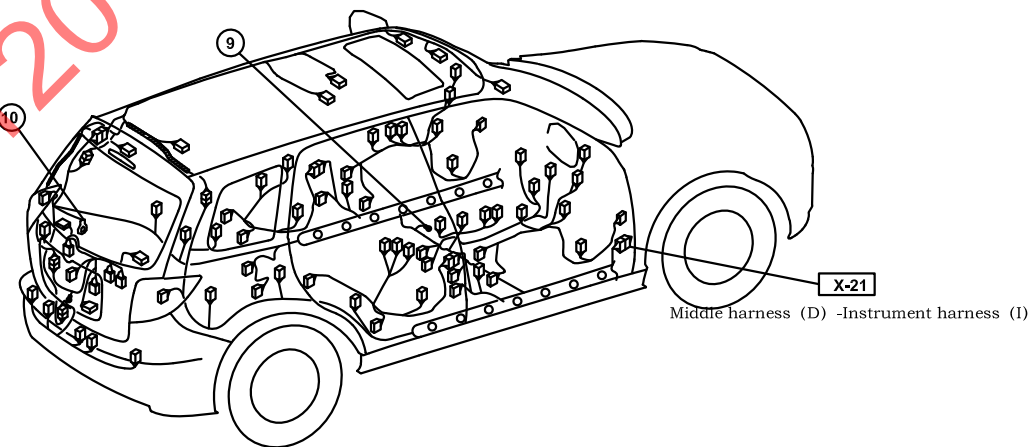
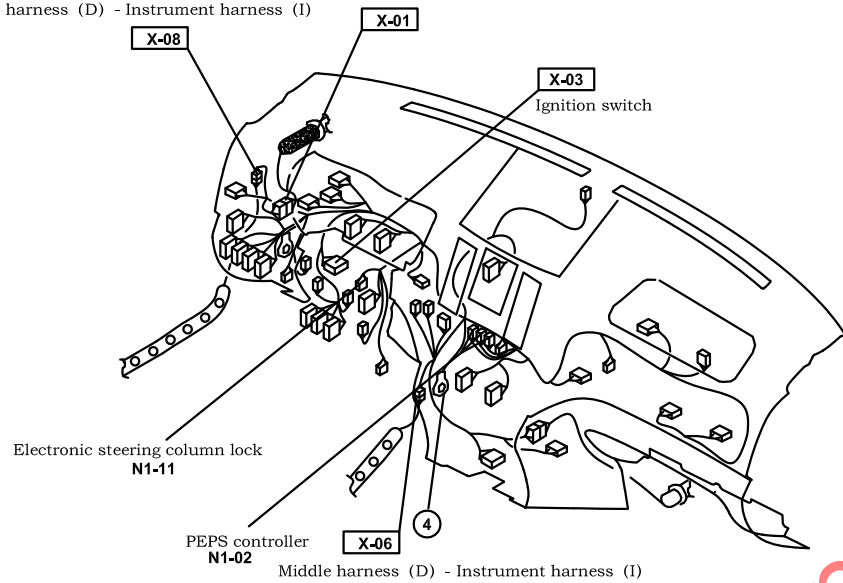
N1-11

Electronic steering column lock (I)

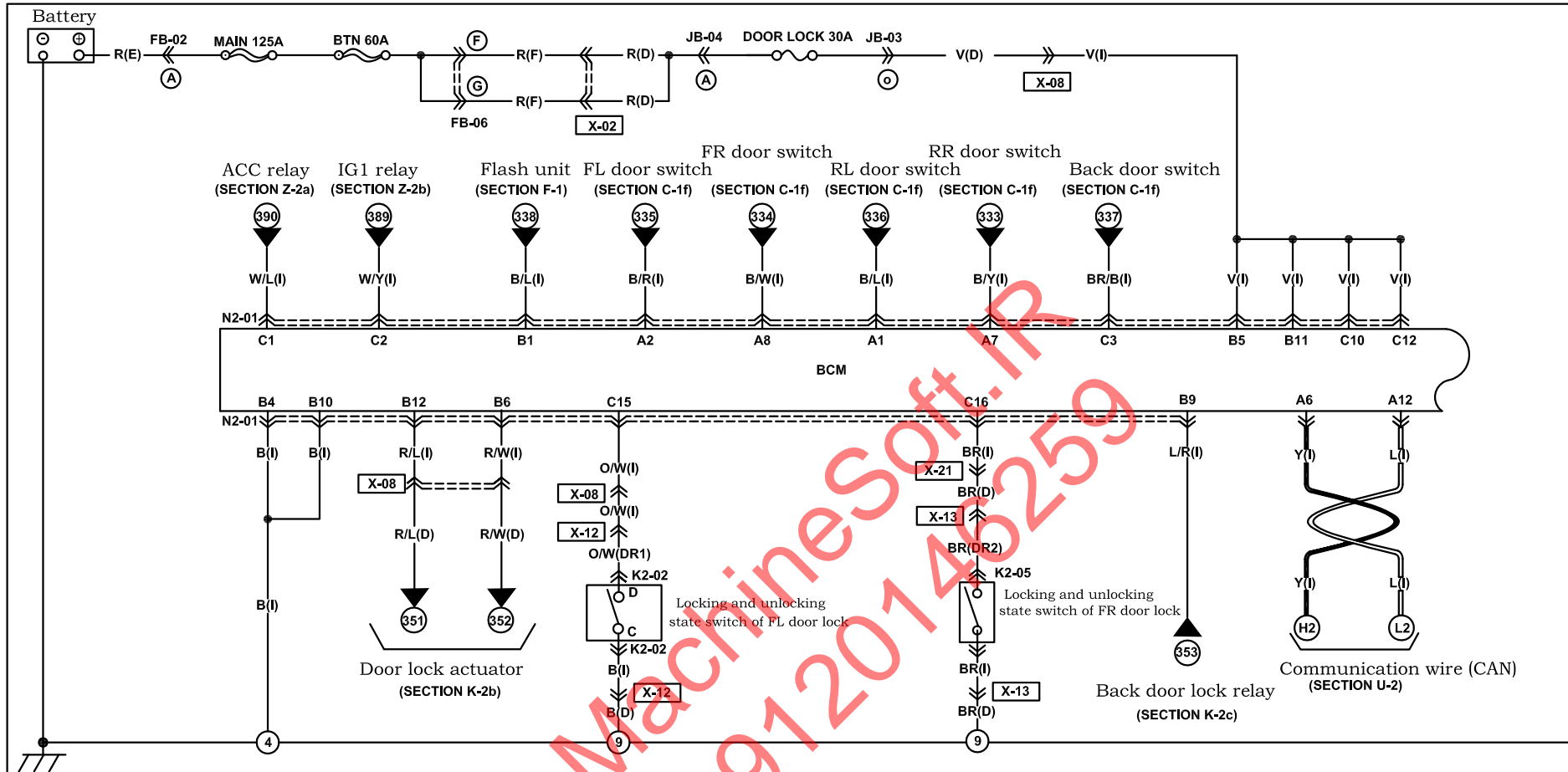


Harness mark:  (F)  (E)  (D)  (R)

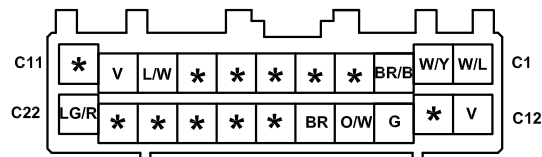
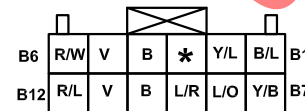
Front harness (F) - Instrument harness (I)
Middle harness (D) - Instrument harness (I)



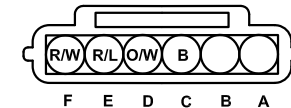
Body control system (BCM)



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

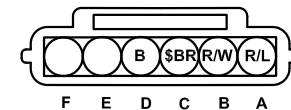


K2-02 FL door lock actuator (DR1)

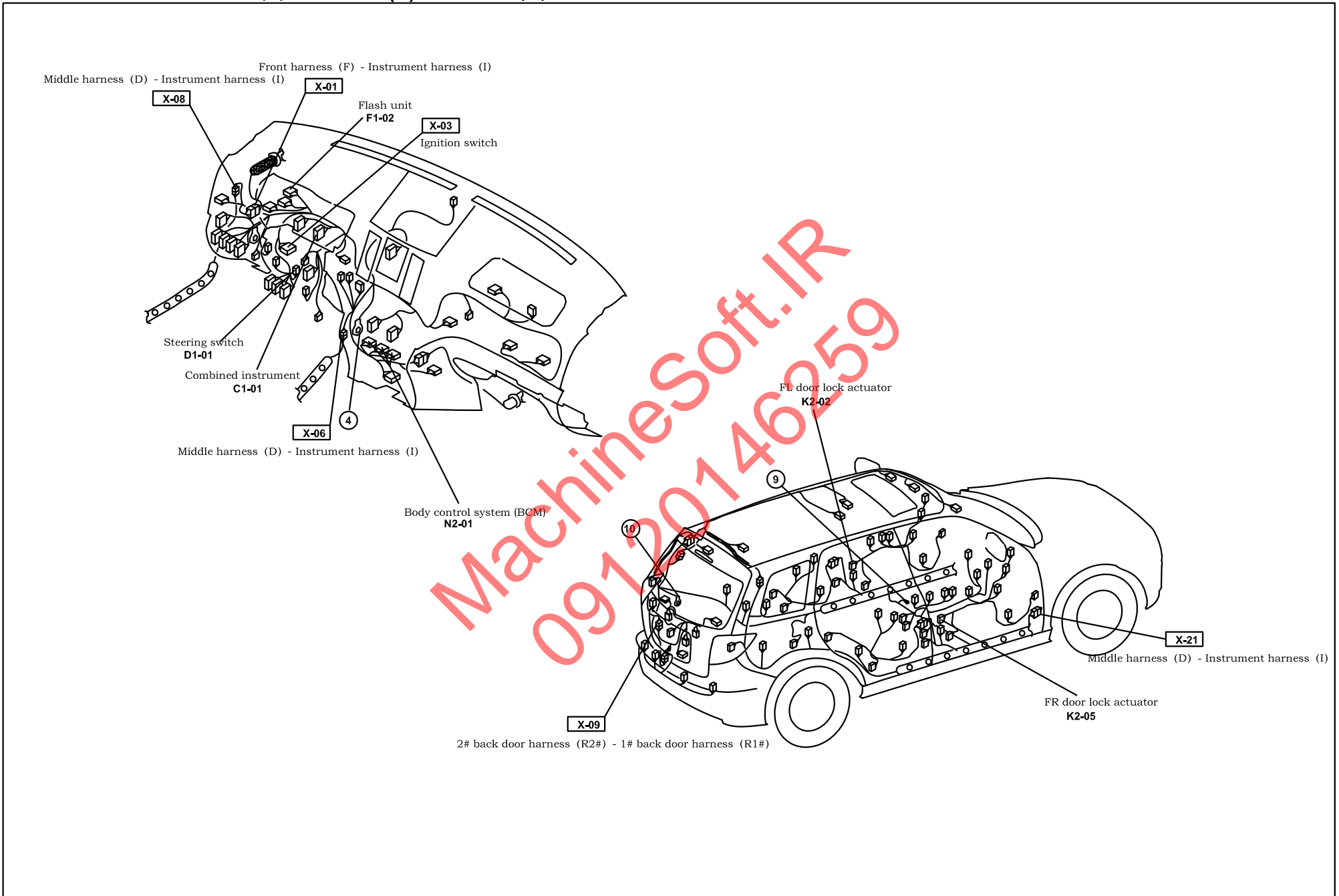


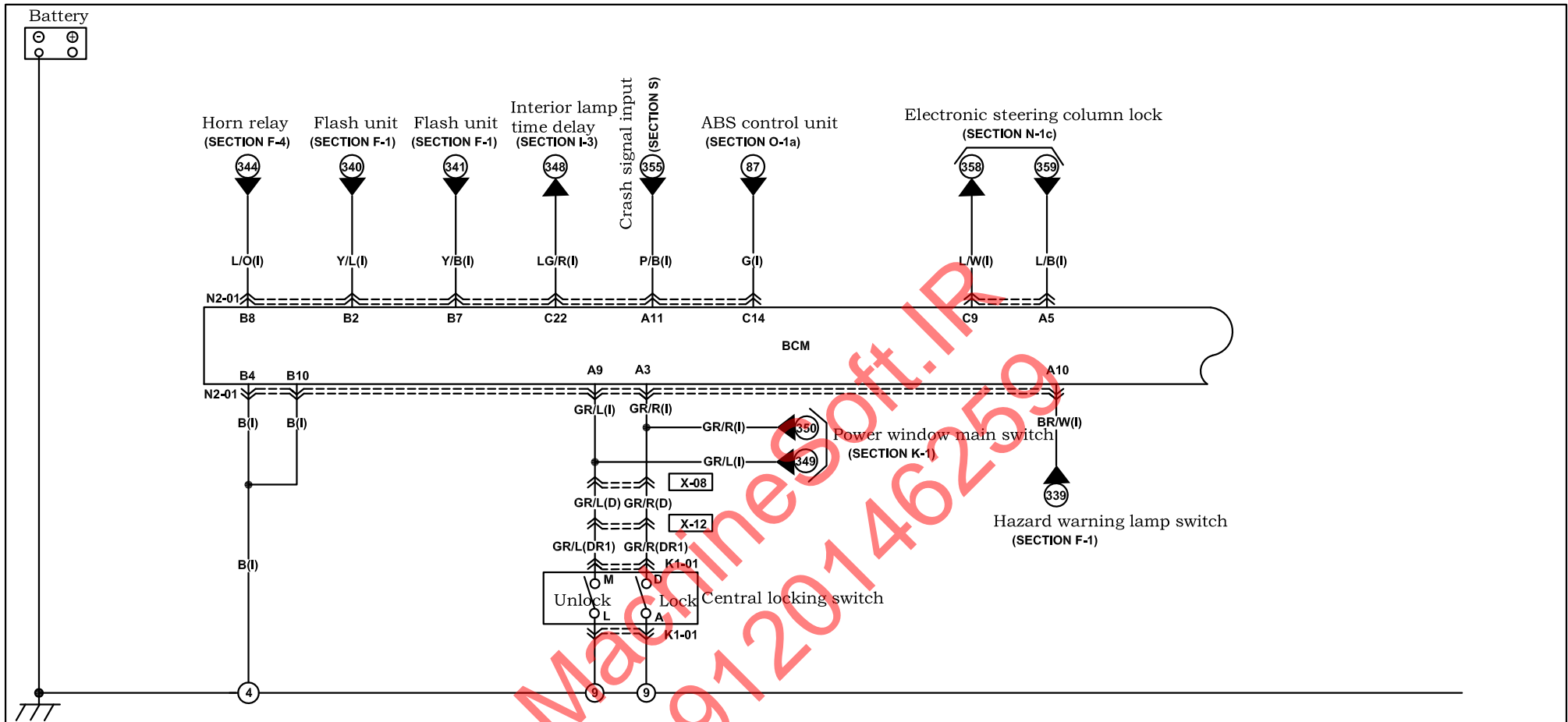
K2-05 FR door lock actuator (DR2)

\$ with PEPS

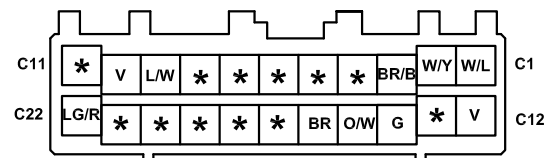
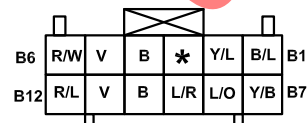


Harness mark:  (F)  (E)  (D)  (R)

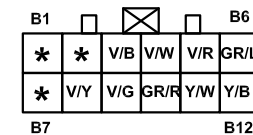




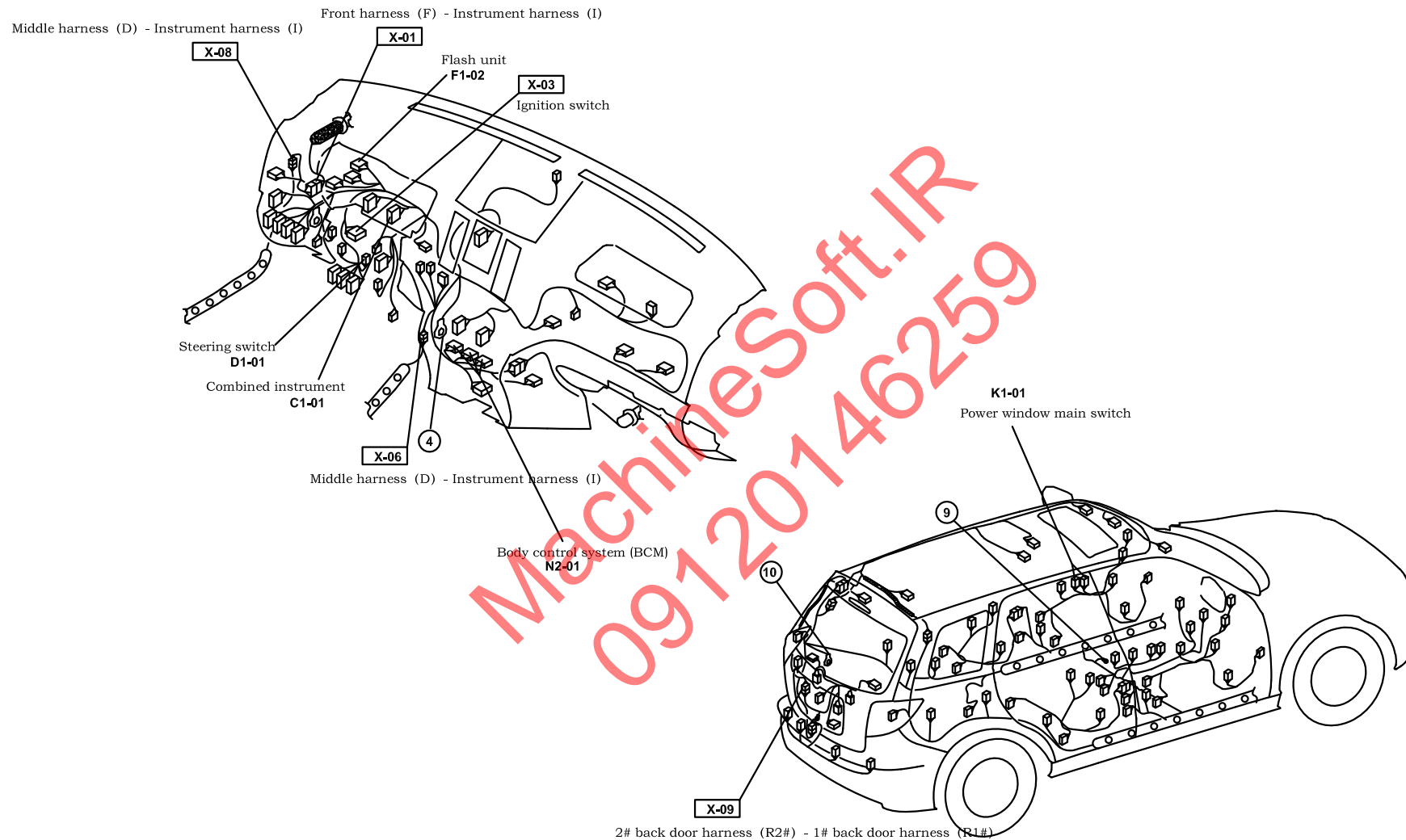
N2-01 Body control module (BCM)(I)



K1-01 Power window main switch (DR1)

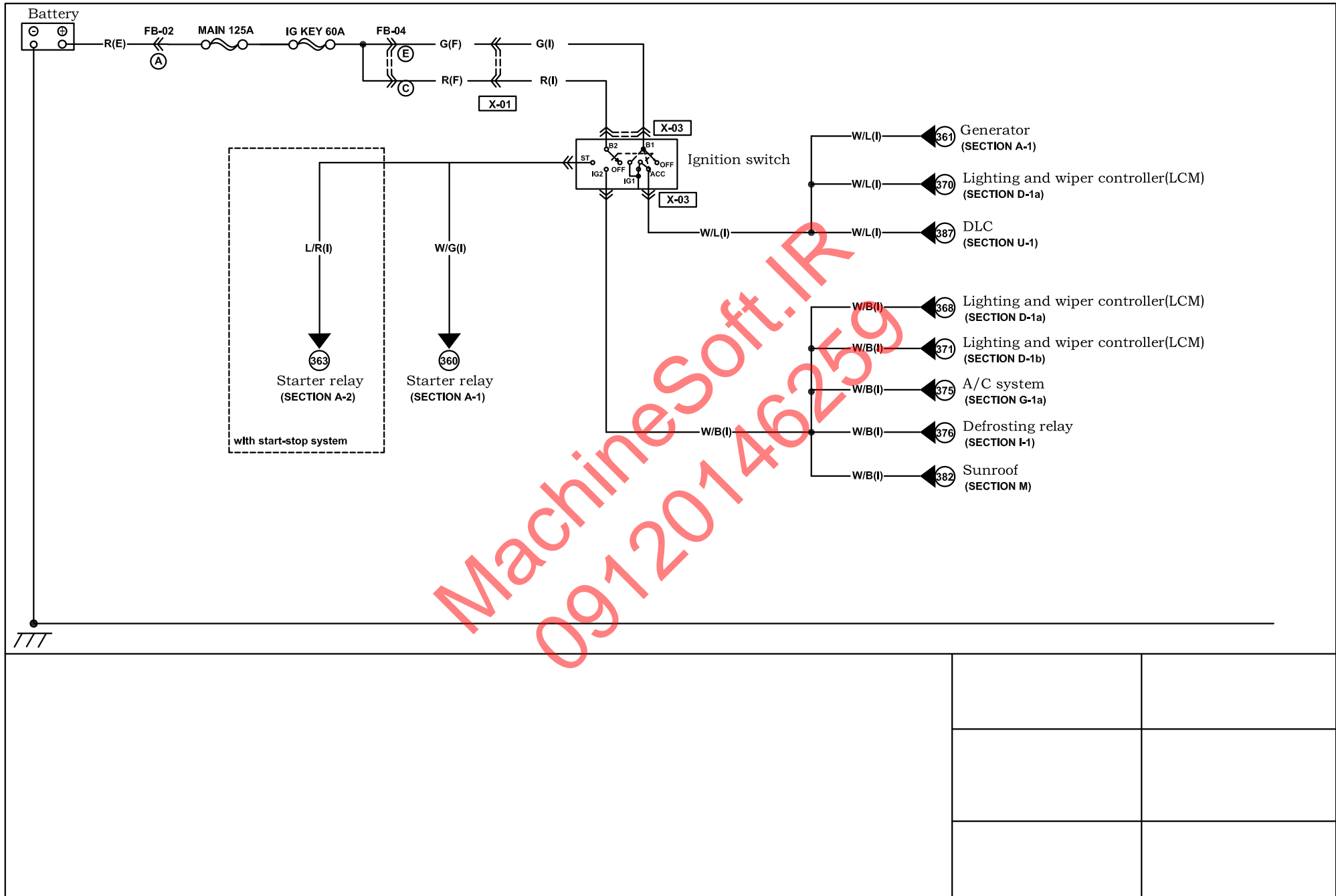


Harness mark:  (F)  (E)  (D)  (R)

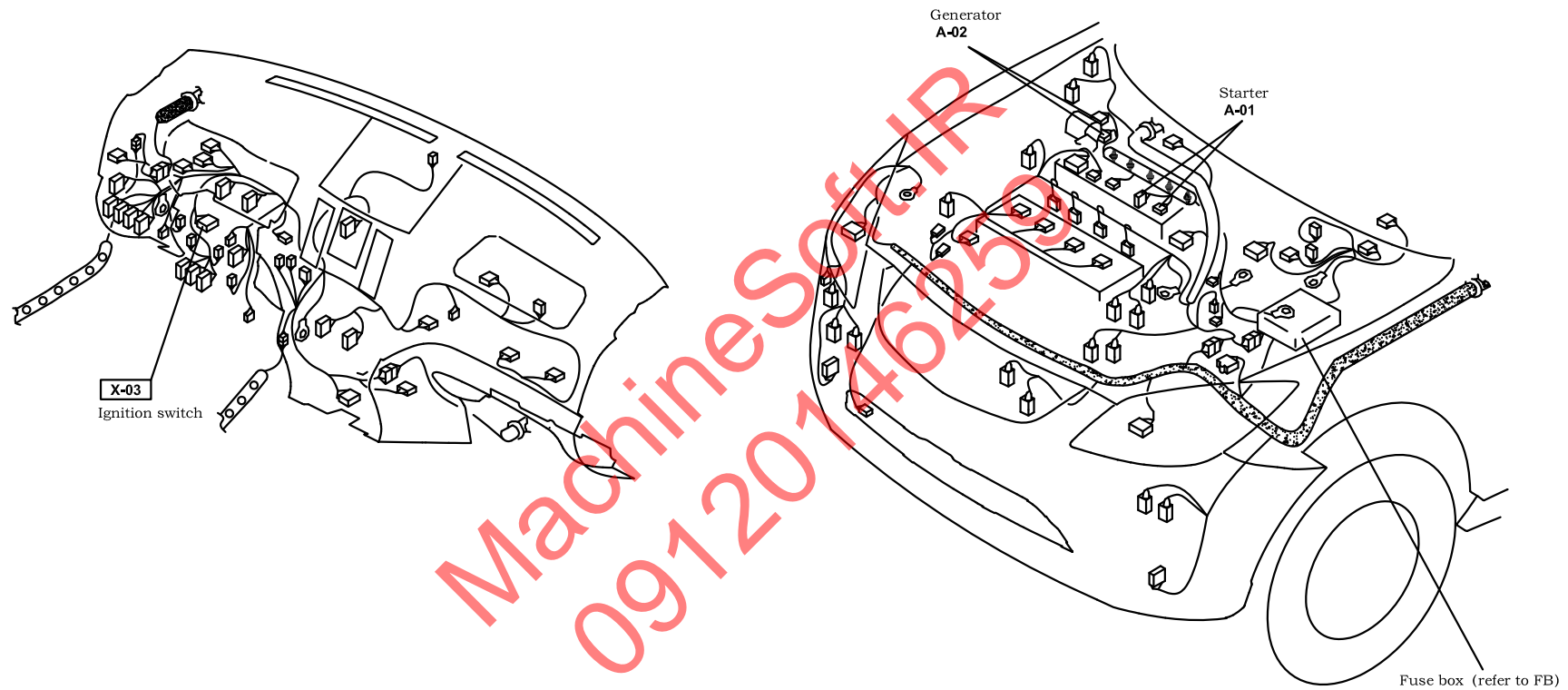


Power supply system (without smart key)

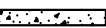
Z-1a

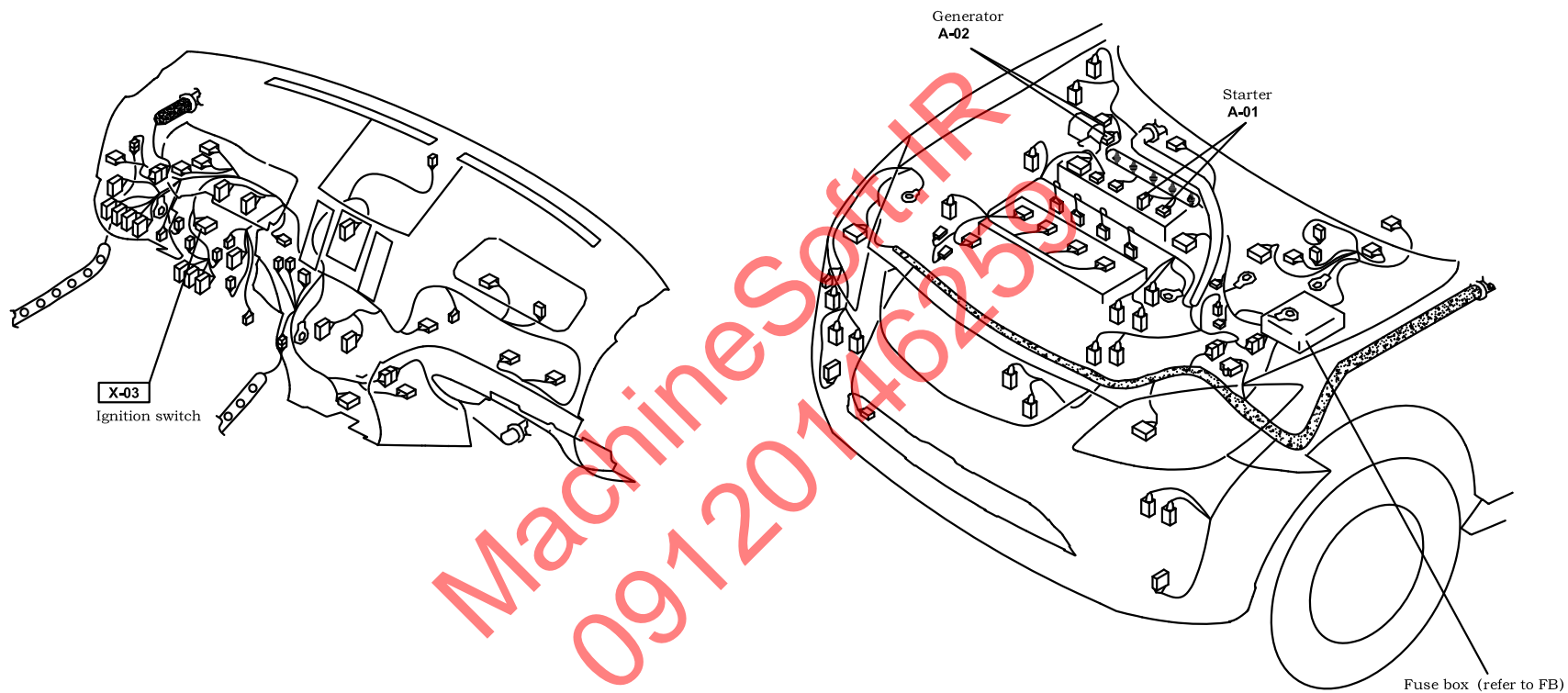


Harness mark:  (F)  (E)  (D)  (R)



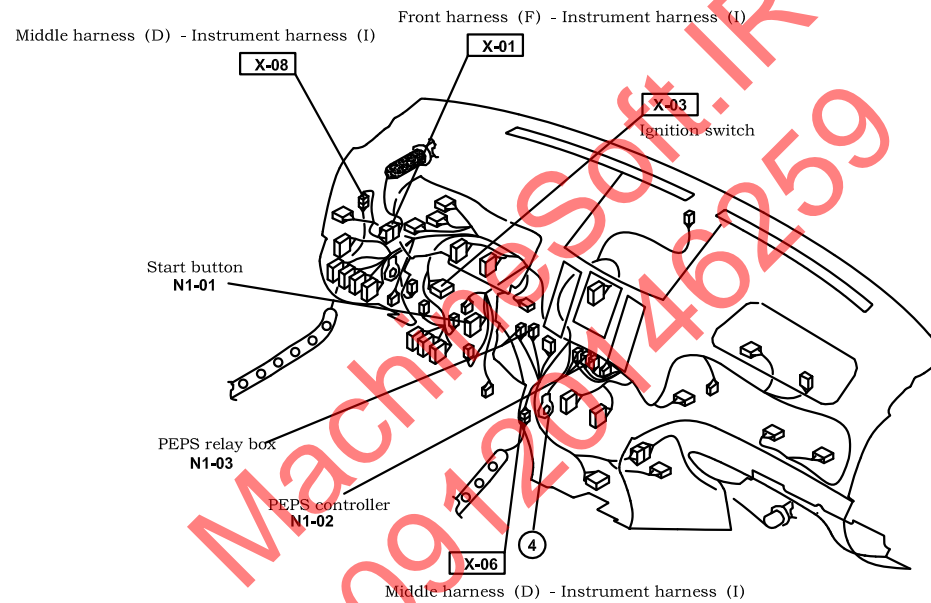


Harness mark:  (F)  (E)  (D)  (R)

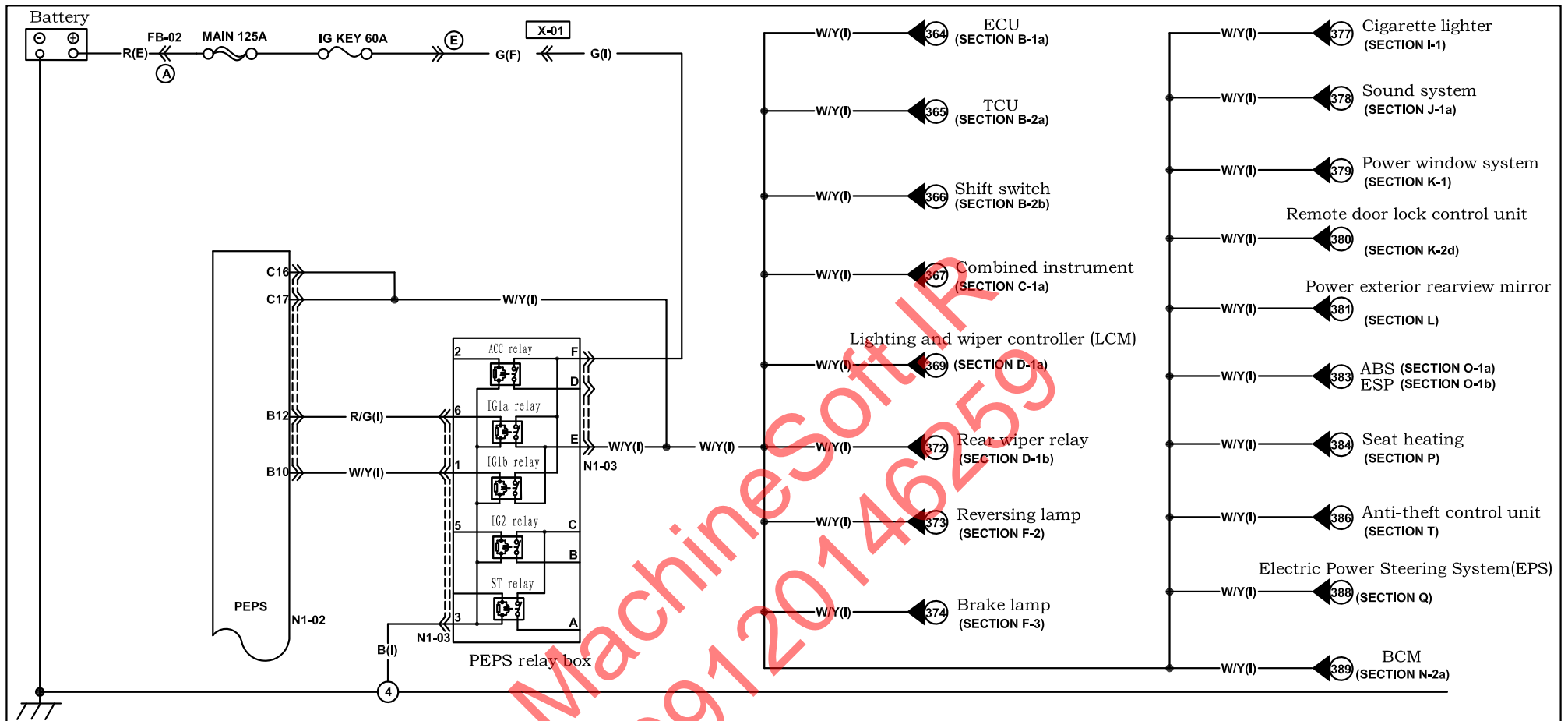




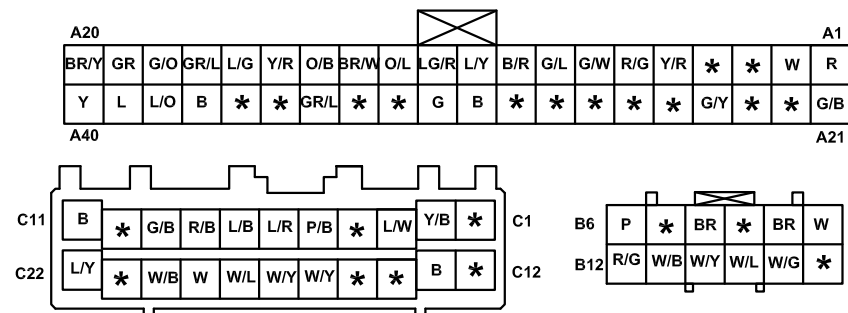
Harness mark:  (F)  (E)  (D)  (R)



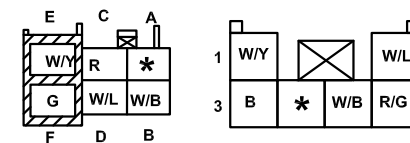
Power supply system (with smart key)



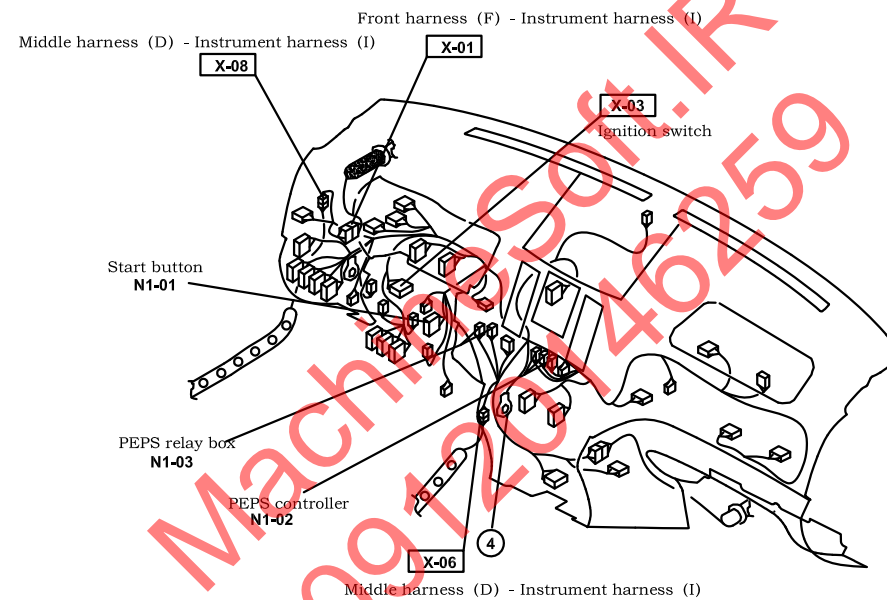
N1-02 PEPS controller (I)



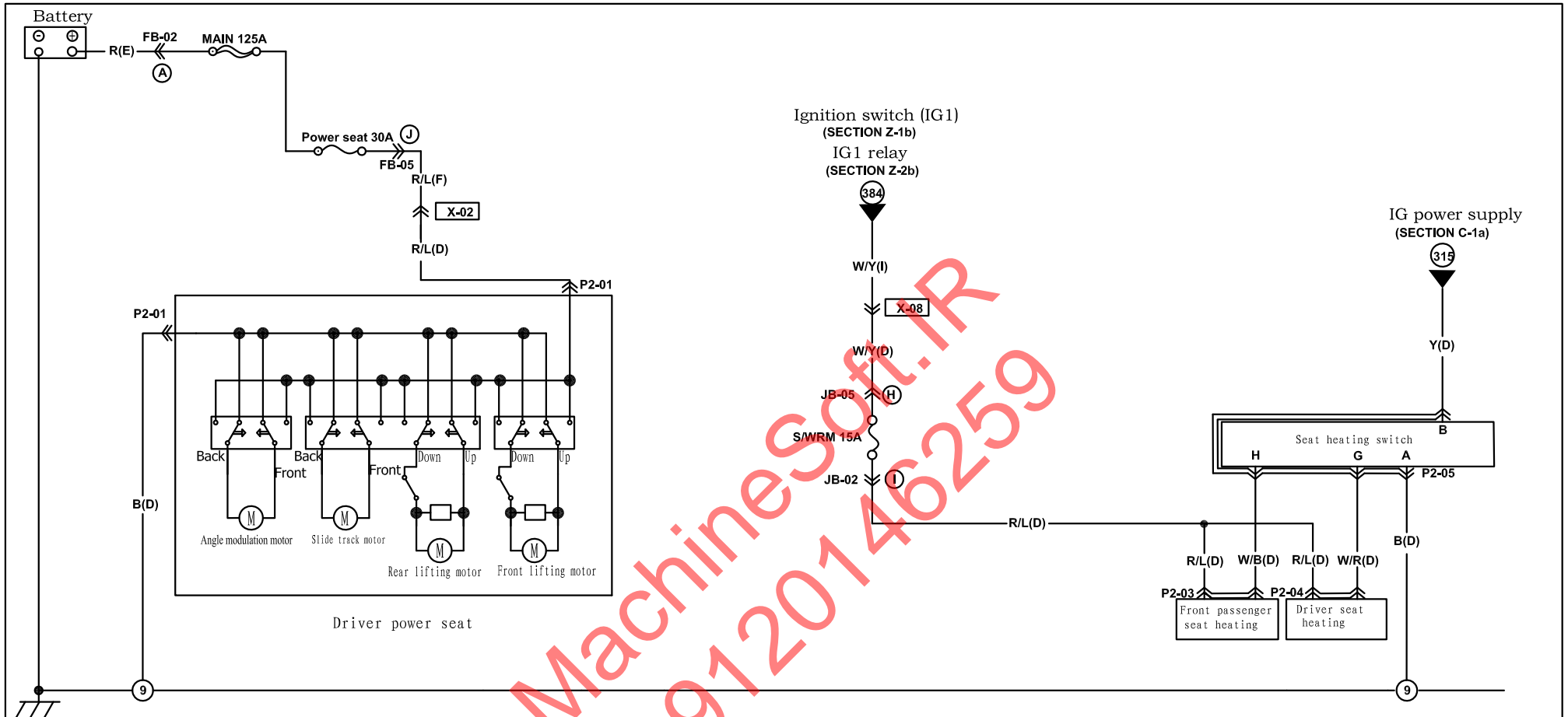
N1-03 PEPS relay box (I)






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

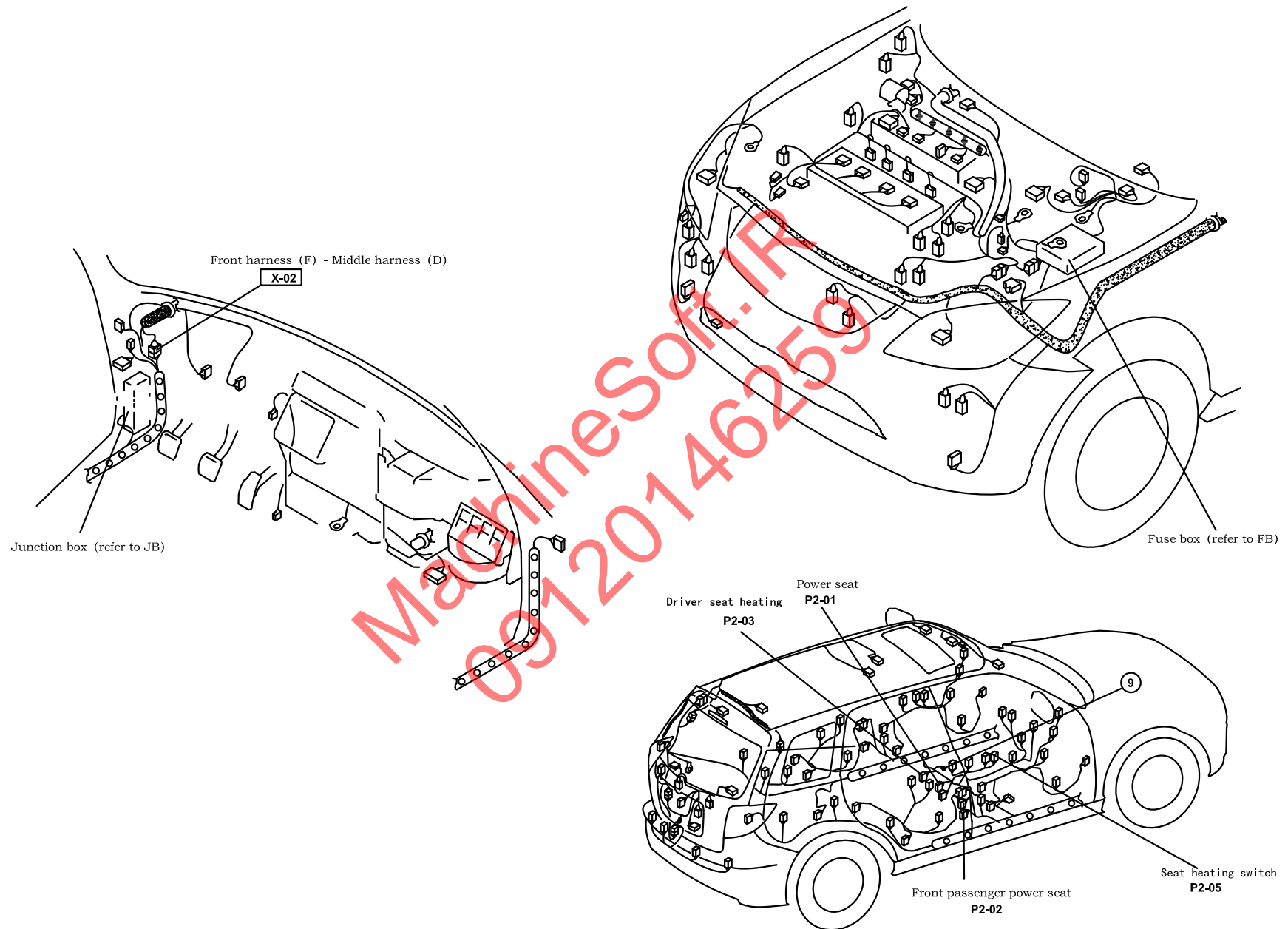


Power seat and seat heating

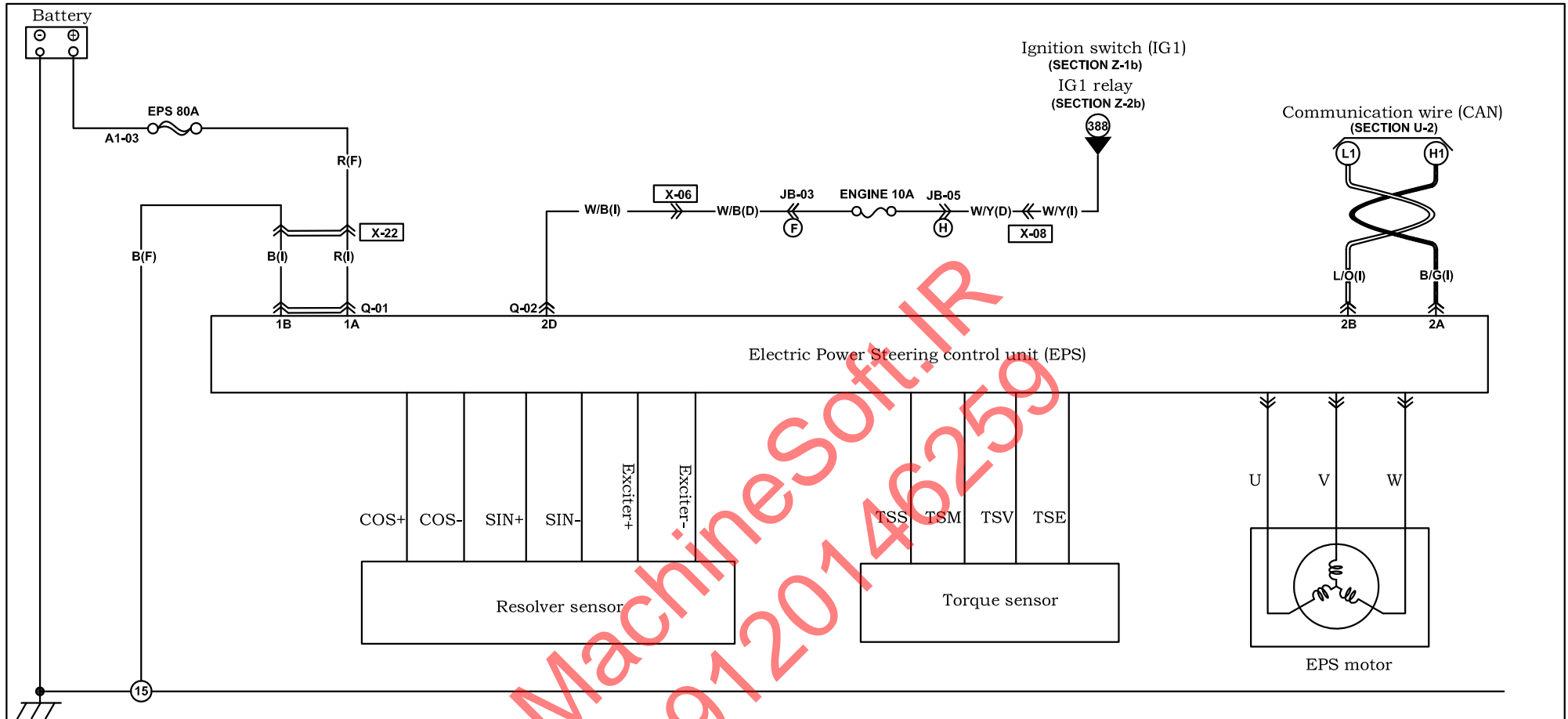


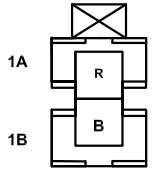
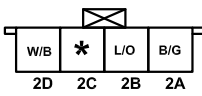
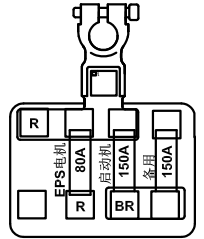
P2-01 Driver power seat (D) <div> </div>		P2-05 Seat heating switch (D) <div> </div>				
P2-03 Driver seat heating (D) <div> </div>	P2-04 Front passenger seat heating (D) <div> </div>					

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



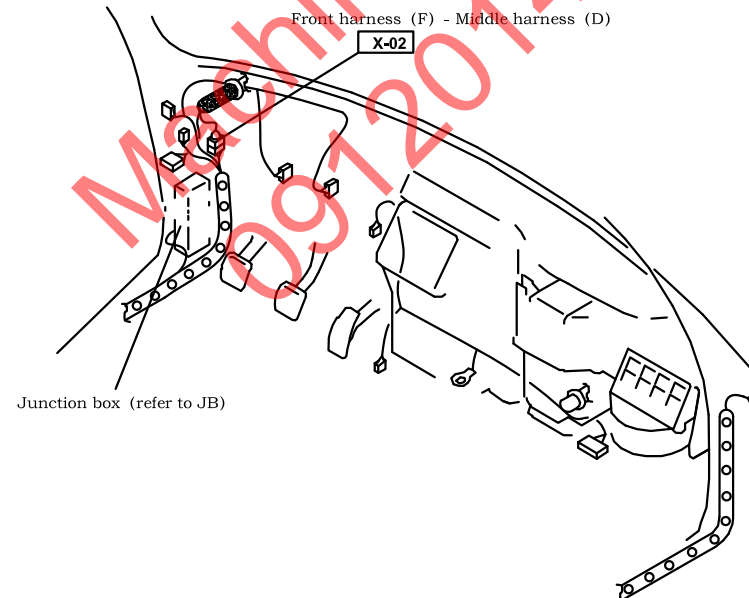
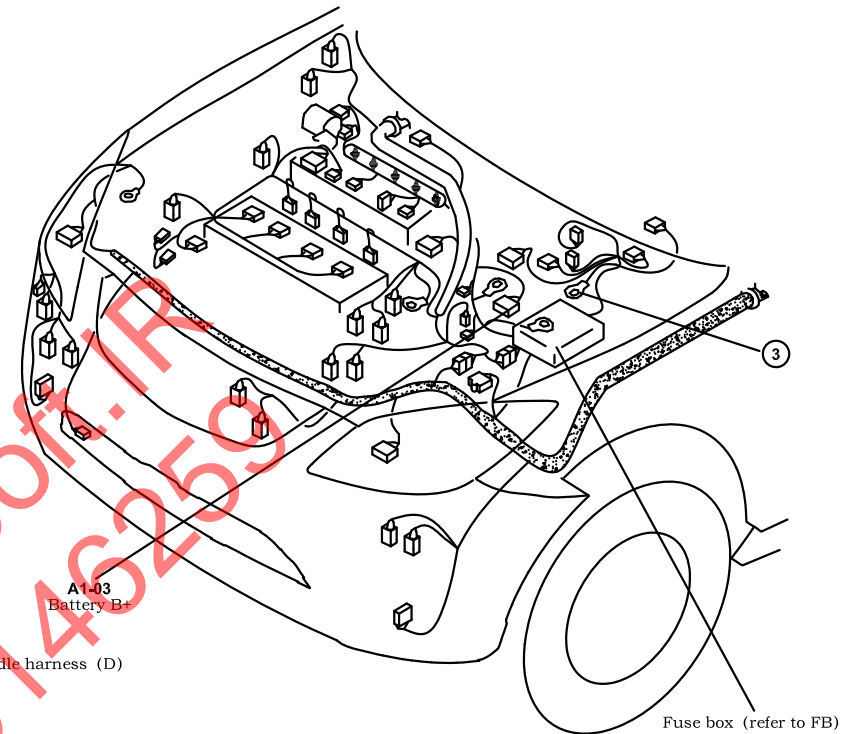
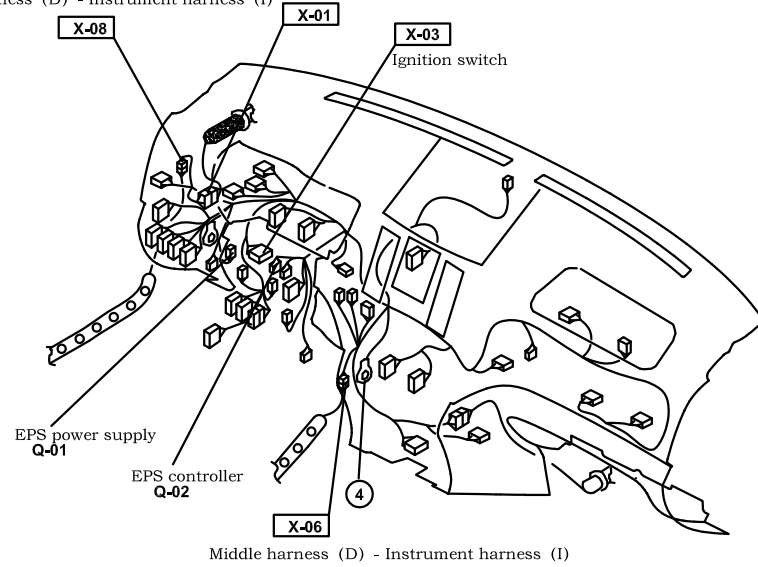
Electric Power Steering System (EPS)



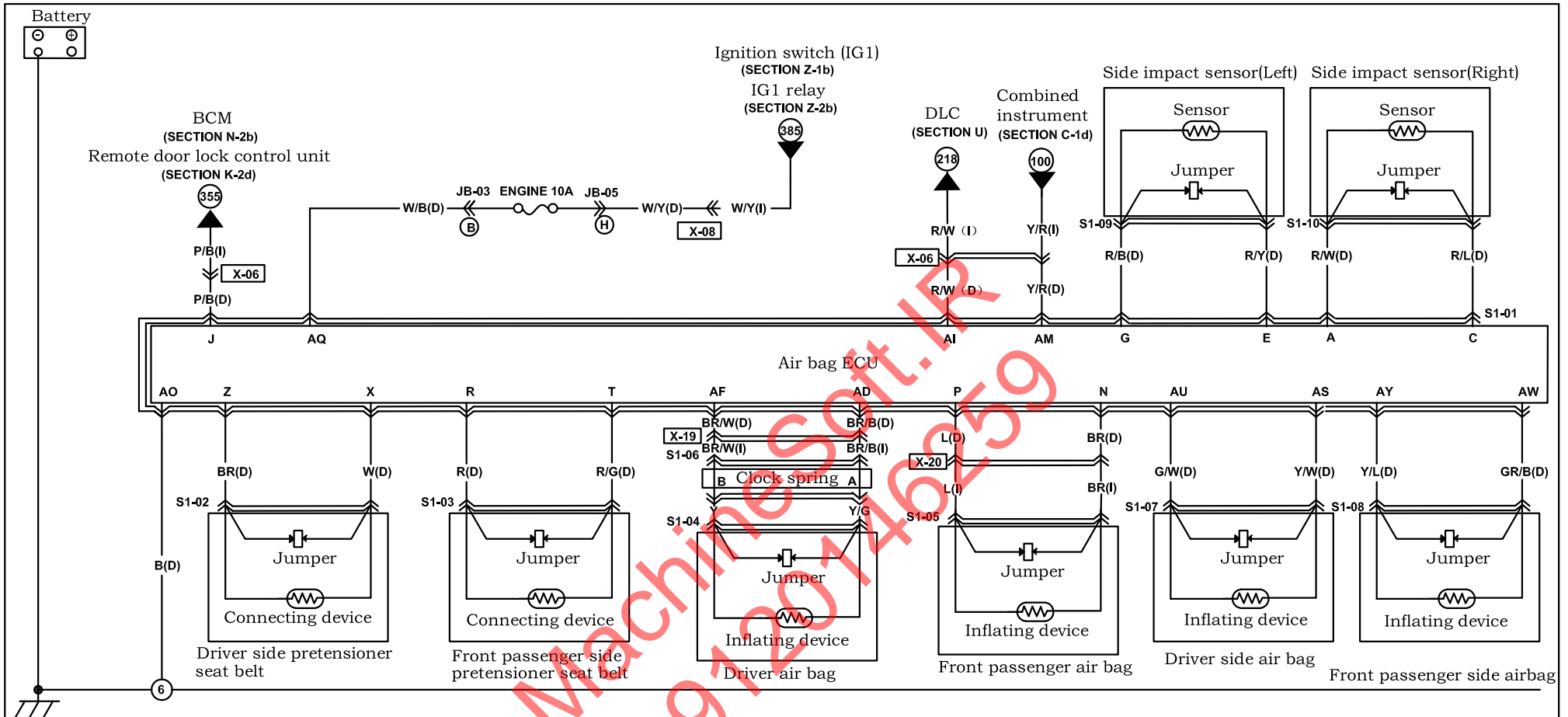
Q-01 EPS power supply (I) 	Q-02 EPS controller (I) 	A1-03 Battery B+ (E) 				
---	---	--	--	--	--	--

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

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



Air bag/seat belt pretensioner system



S1-01 Air bag ECU (D)

{ } With side air bag

AV																A	
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	{R/B}	{R/Y}
{Y/L}	{GR/B}	{G/W}	{Y/W}	W/B	B	Y/R	*	R/W	BR/W	BR/B	*	BR	W	*	R/G	R	L
AY																B	

S1-02 Driver side pretensioner seat belt (D)



S1-03 Front passenger pretensioner seat belt (D)



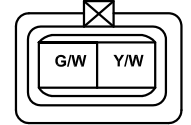
S1-04 Driver air bag (I)



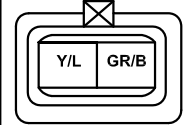
S1-05 Front passenger air bag (I)



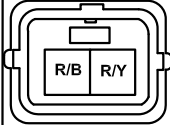
S1-07 Driver side air bag (D)



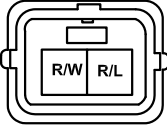
S1-08 Front passenger side air bag (D)



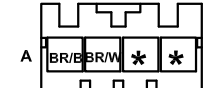
S1-09 Side impact sensor (Left) (D)




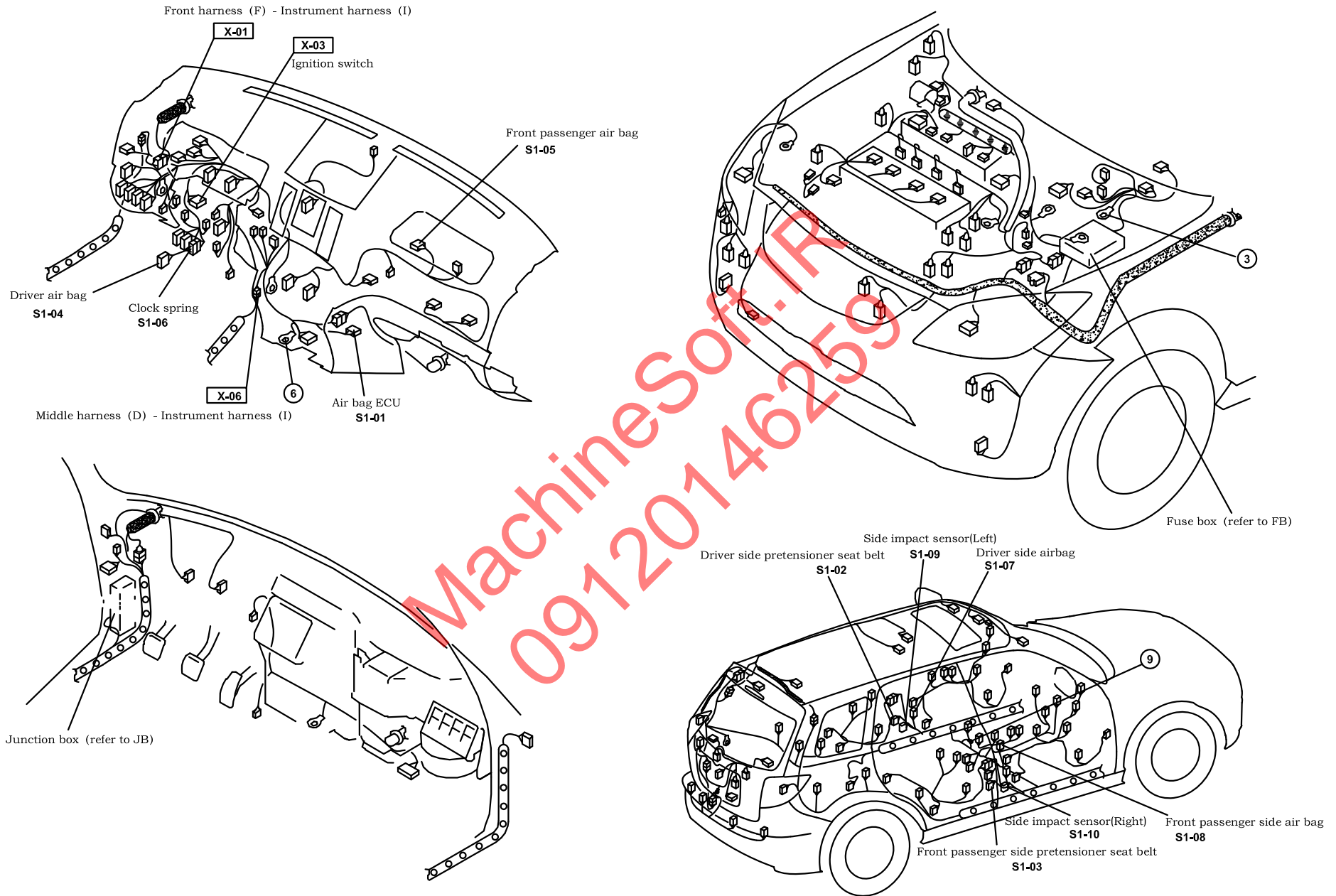
S1-10 Side impact sensor (Right) (D)



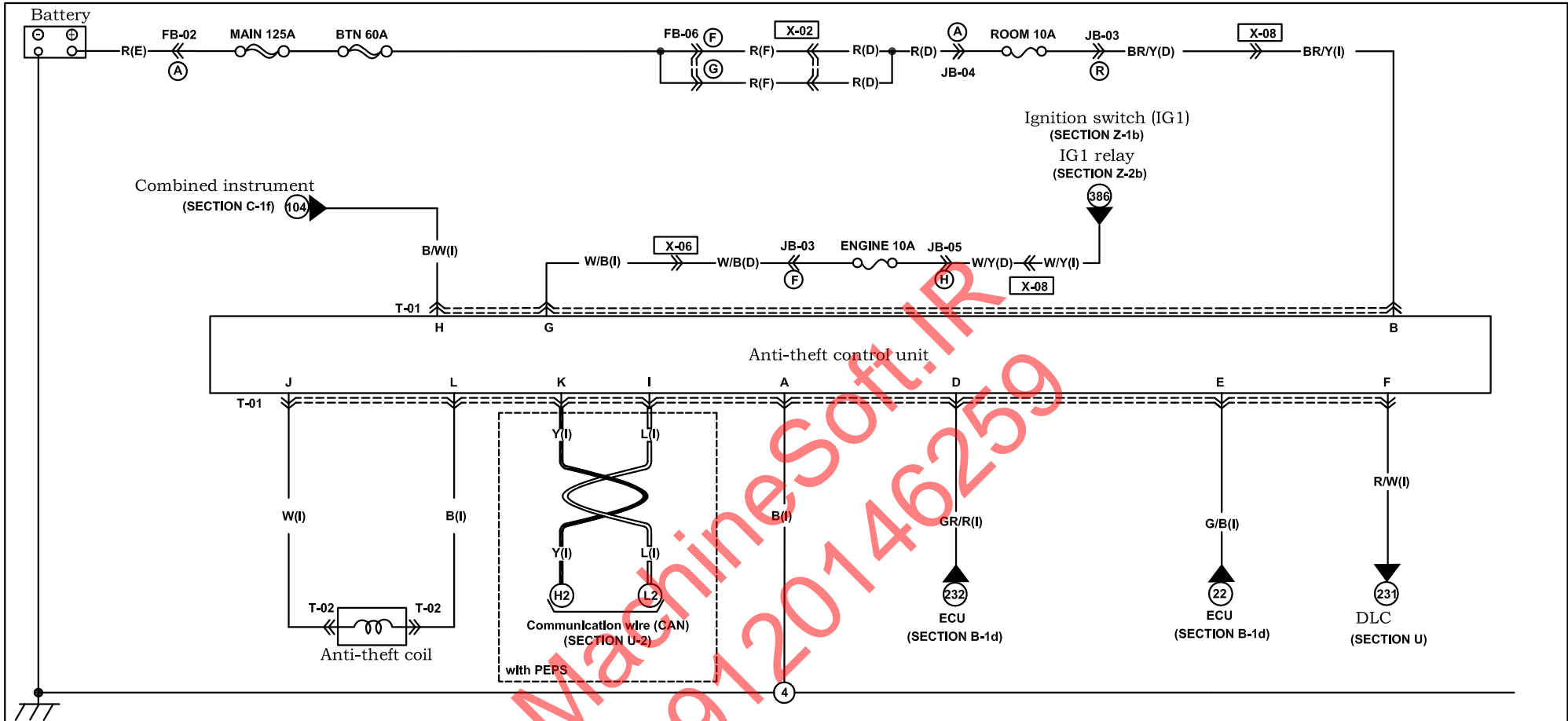
S1-06 Clock spring (I)



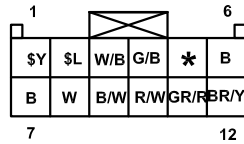
Harness mark:  (F)  (E)  (D)  (R)



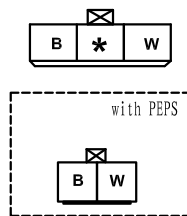
Anti-theft system

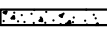
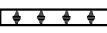
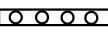
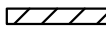


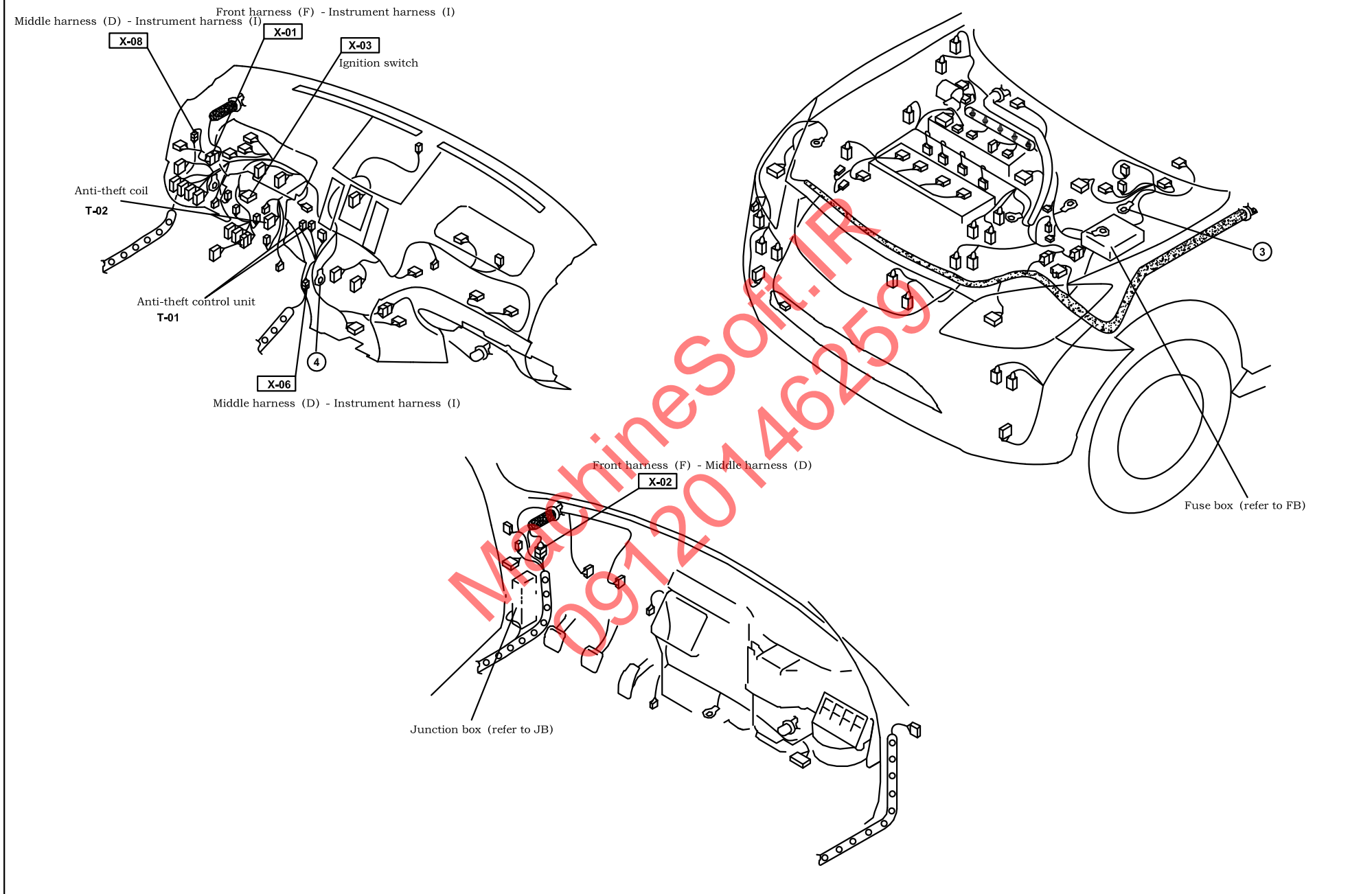
T-01 Anti-theft control unit (I)

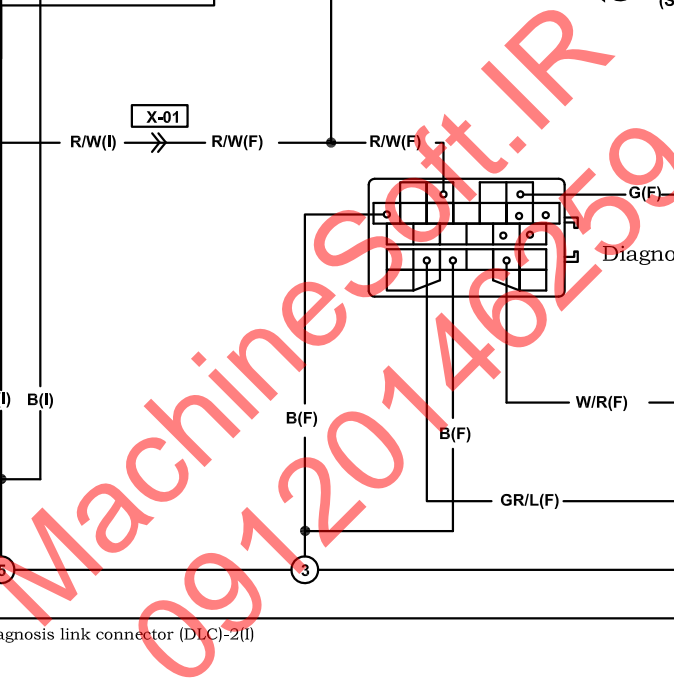


T-02 Anti-theft coil (I)

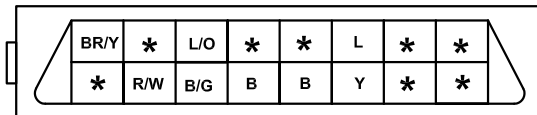


Harness mark:  (F)  (E)  (D)  (R)


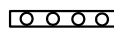
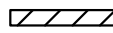


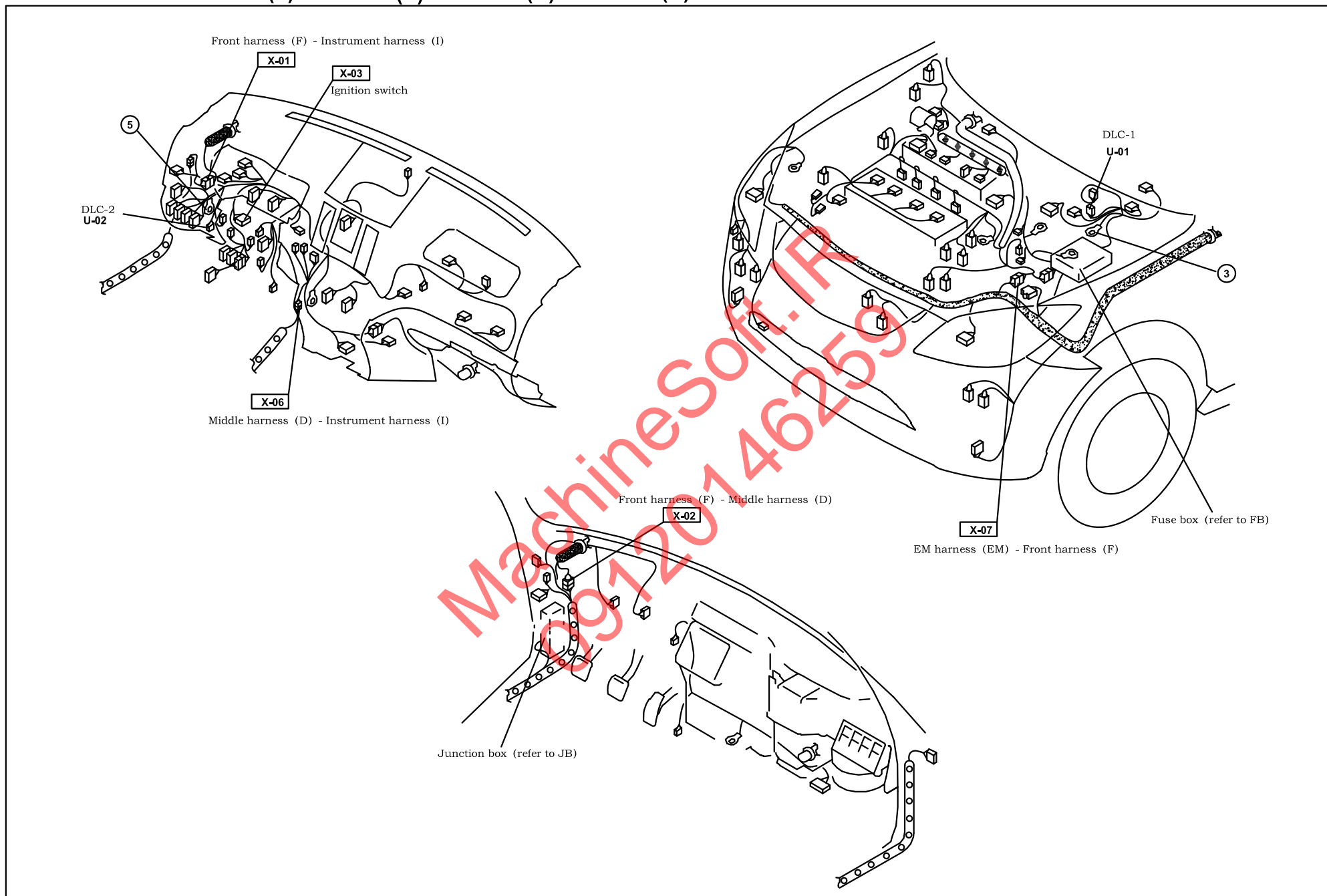


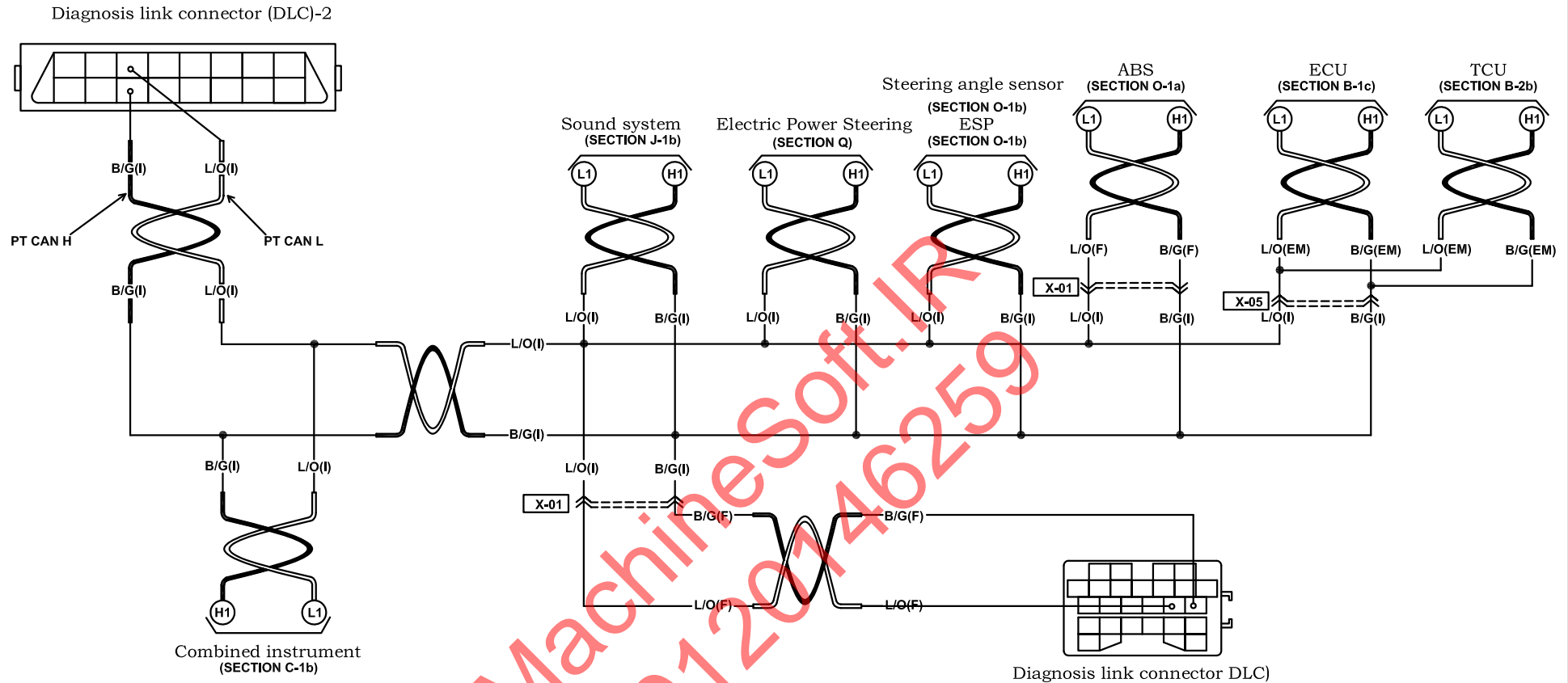
U-02 Diagnosis link connector (DLC)-2(I)



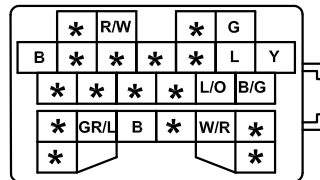
Note: view from the harness terminal

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



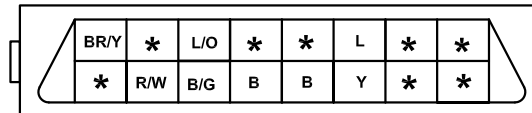


U-01 Diagnosis link connector (DLC)(EM)







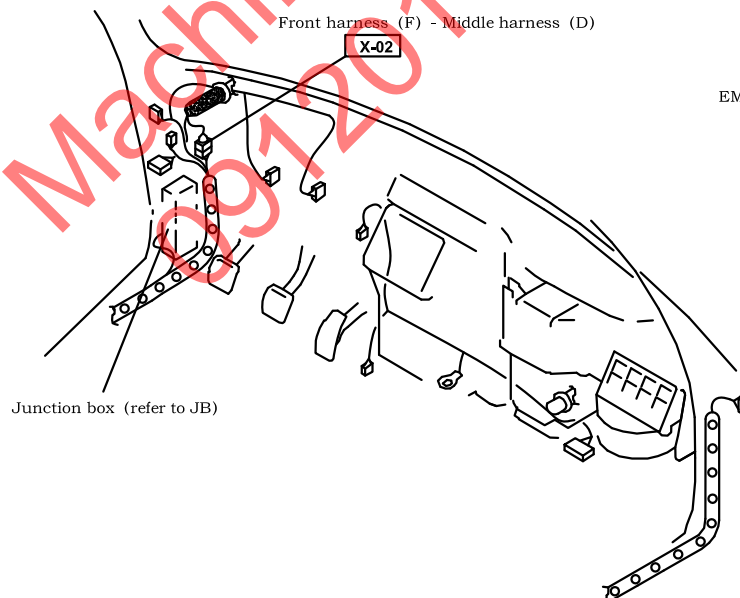
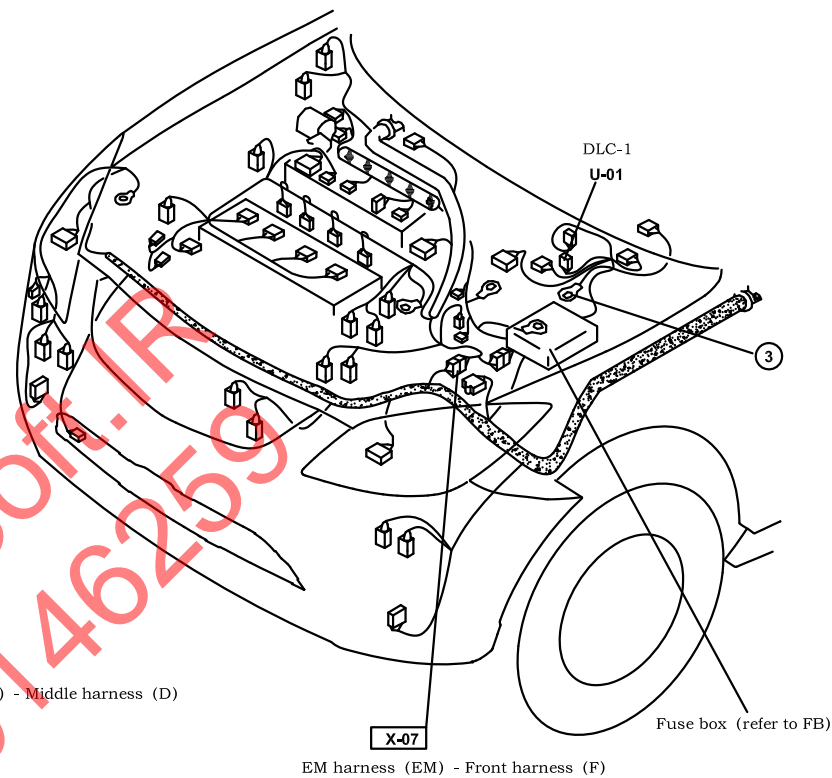
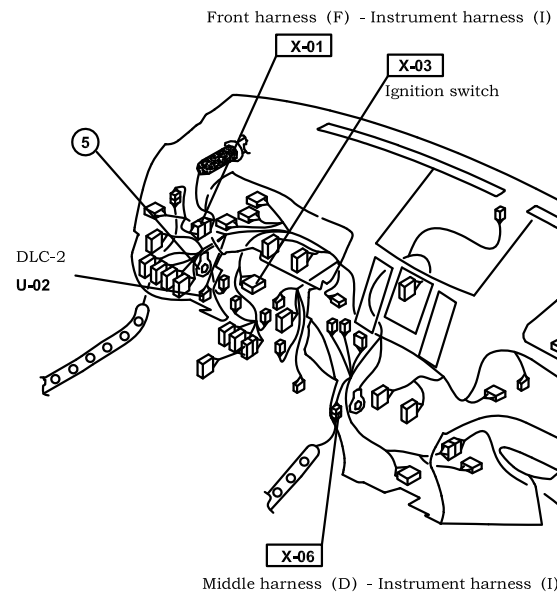
Note: view from the harness terminal

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



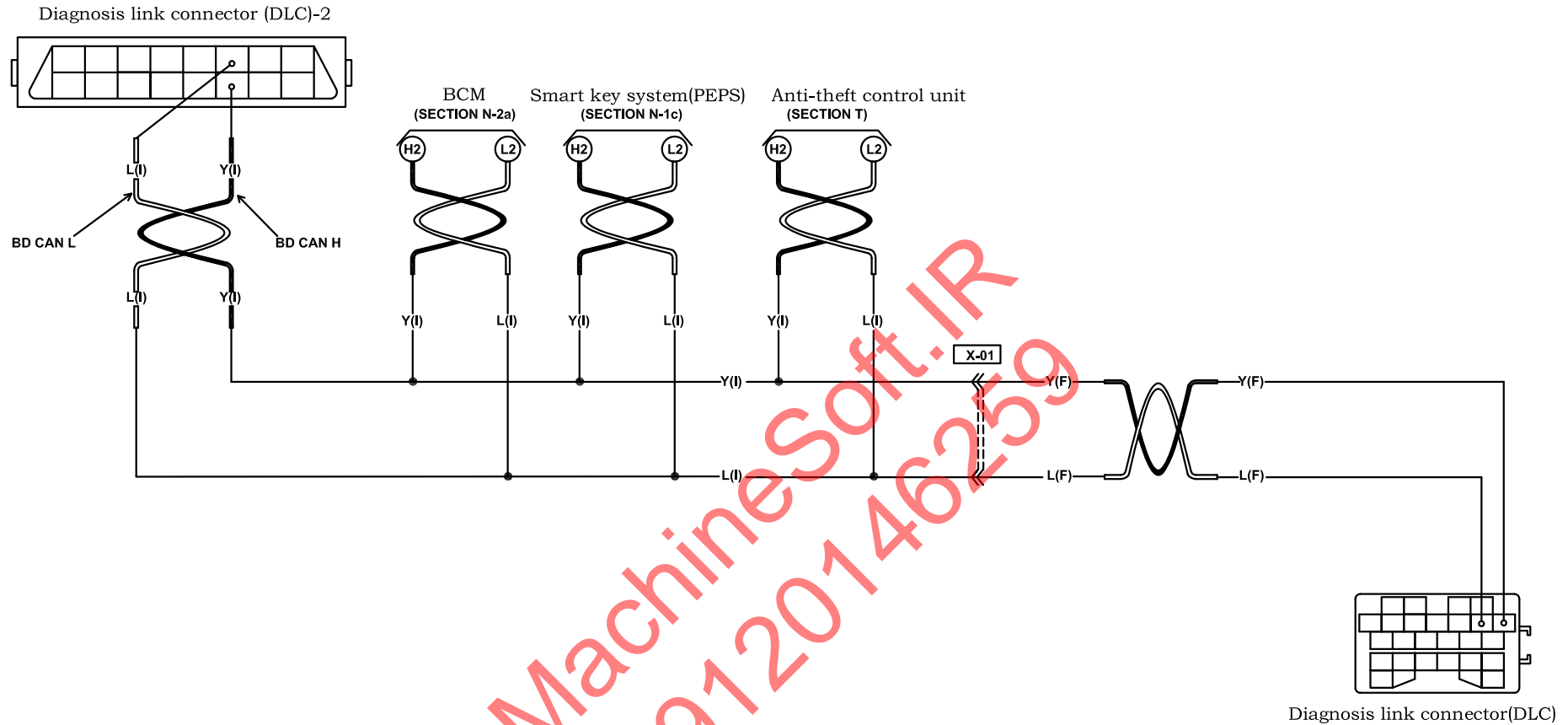
Note: view from the harness terminal

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

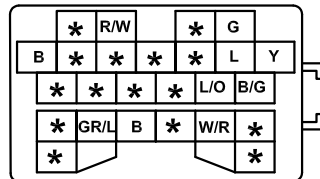


Communication wire (CAN)

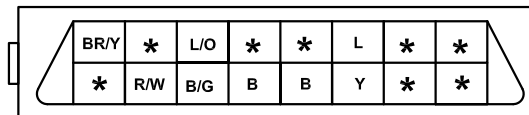
U-2b

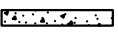

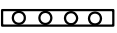
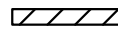


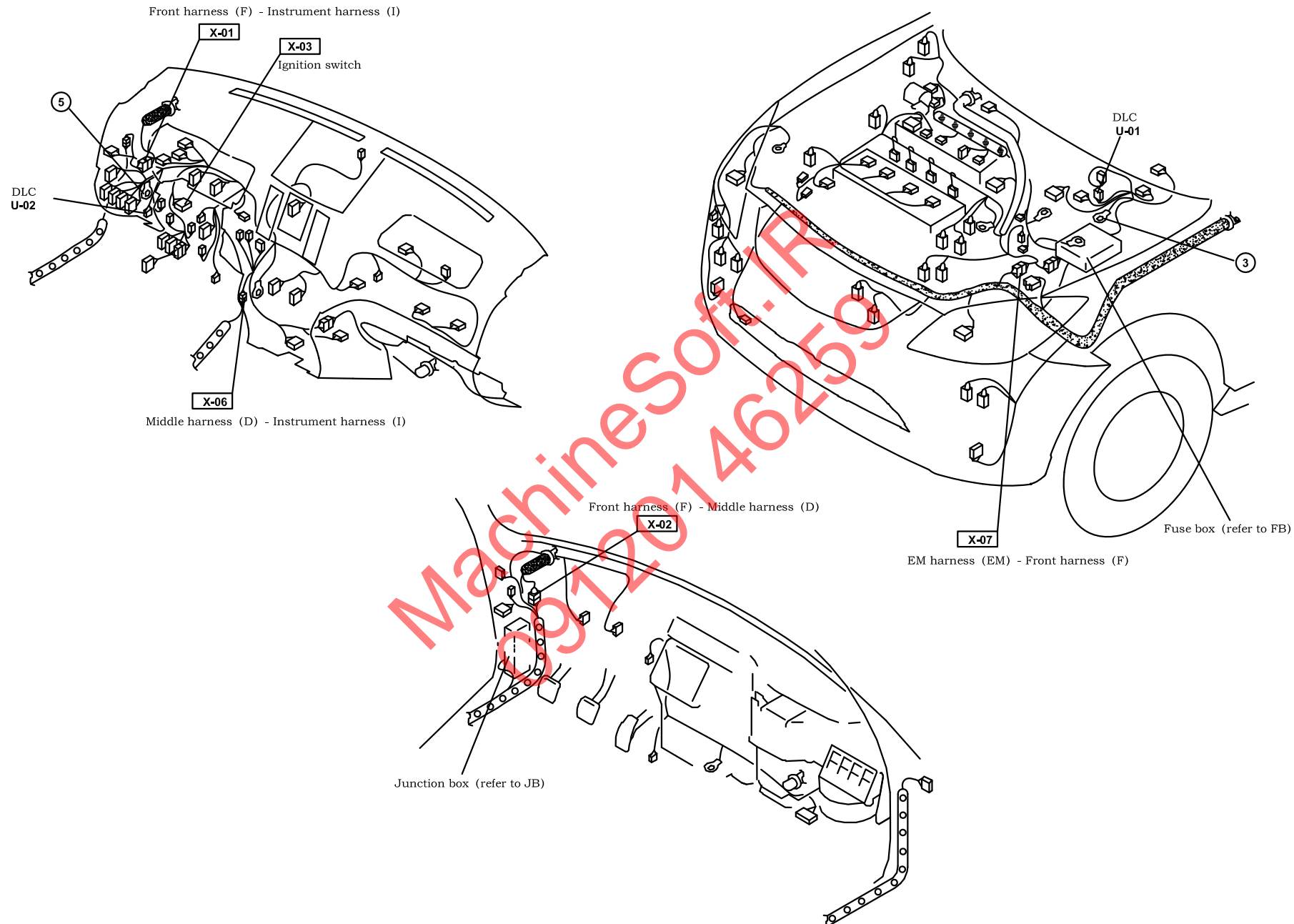
U-01 Diagnosis link connector (DLC)(EM)



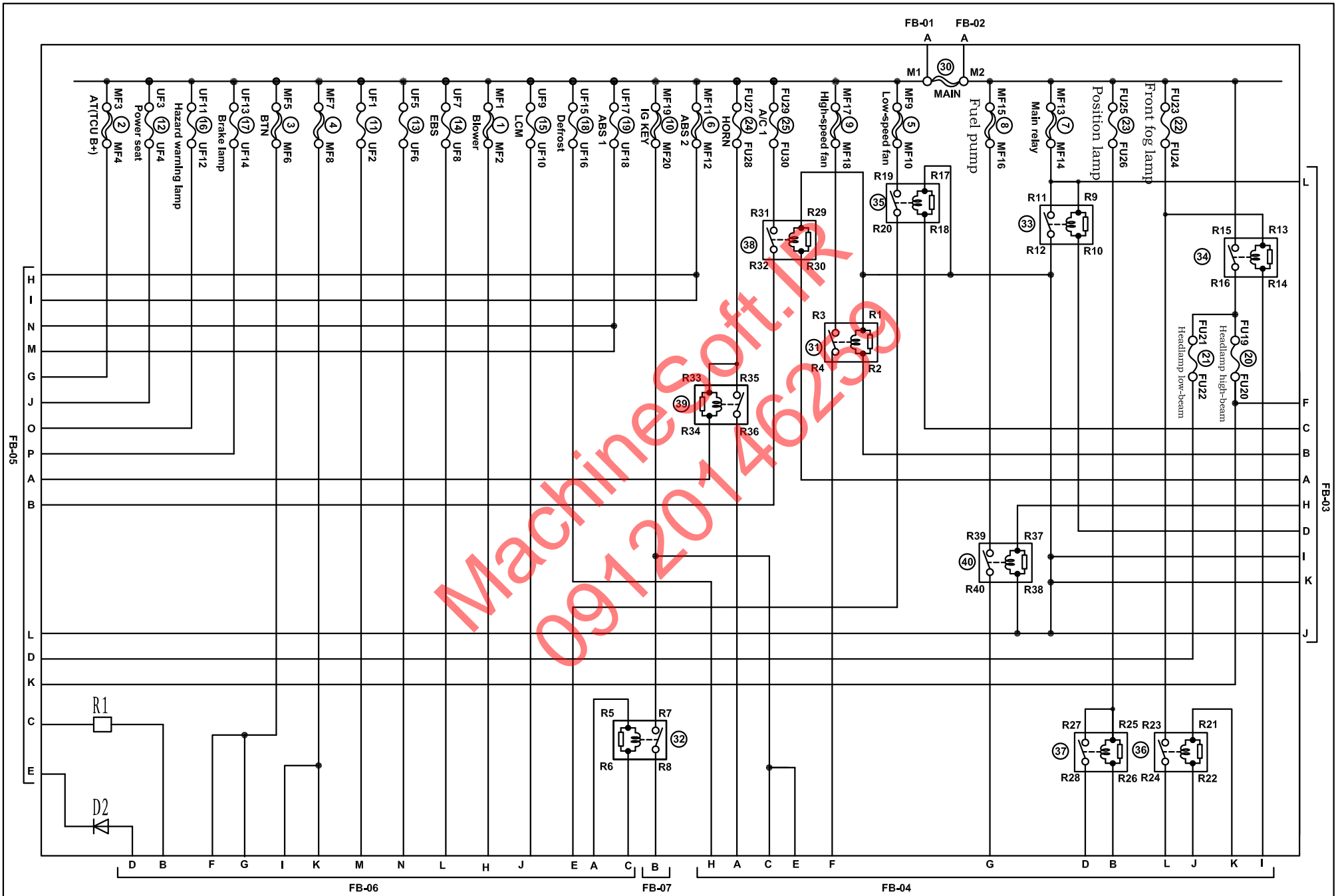
U-02 Diagnosis link connector (DLC)-2(I)



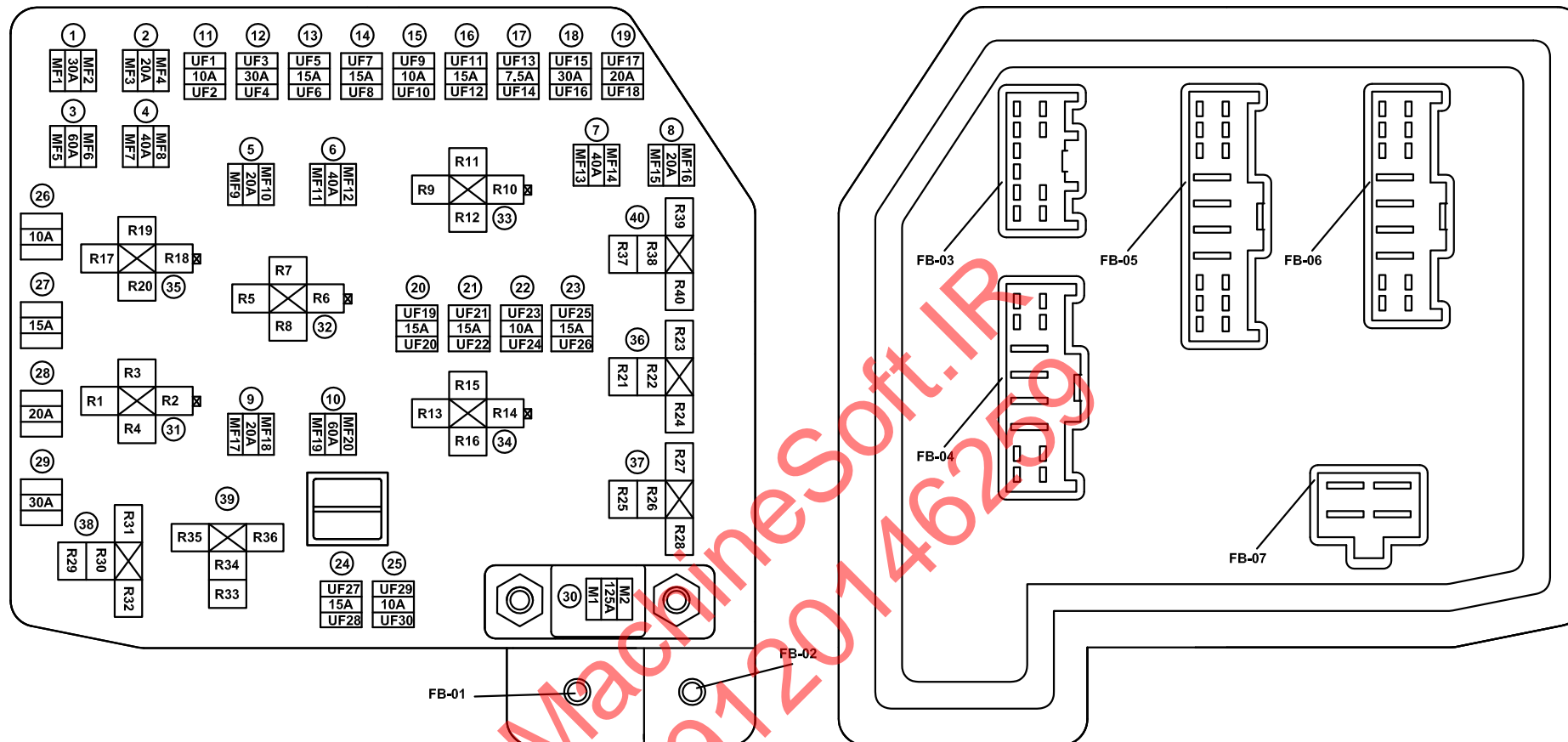
Harness mark:  (F)  (E)  (D)  (R)



Fuse box wiring diagram



Fuse box



No.	Fuse name	No.	Fuse name	No.	Fuse name	No.	Relay name
①	Blower	⑪	PEPS 1	⑲	Headlamp low-beam	⑳	High-speed fan
②	AT(TCU B+)	⑫	Power seat (driver)	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	Low-speed fan	⑮	LCM	㉔	A/C 1	㉔	Low-speed fan
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	Defrosting	㉗	*	㉗	Compressor
⑨	High speed fan	㉑	ABS 1	㉘	*	㉘	Horn
⑩	IG KEY	㉒	Headlamp high-beam	㉙	Main fuse	㉙	Fuel pump

Fuse box

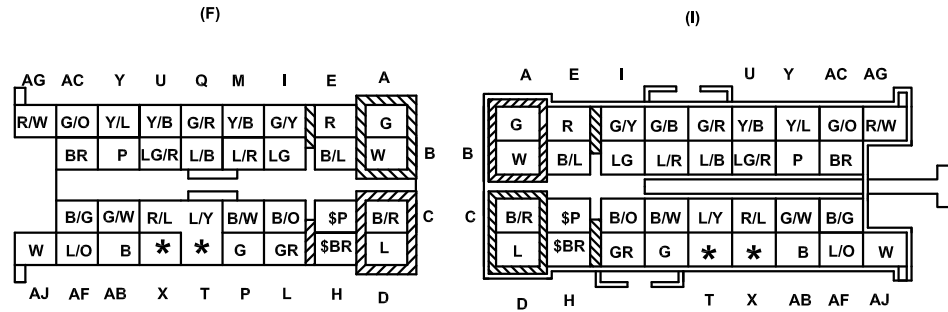
<div>FB-01 Engine harness (E)</div> <div><div>A</div><div>B/W</div></div>	<div>FB-02 Engine harness (E)</div> <div><div>A</div><div>R</div></div>	<div>FB-04 Front harness (F)</div> <div><div>K I C A</div><div><div><div>LG/R</div><div>G/O</div><div>W</div><div>L/B</div><div>R/B</div><div>G</div><div>R</div><div>L/R</div></div><div><div>L/R</div><div>B</div><div></div><div></div><div></div><div></div><div>LG</div><div>BR</div></div></div><div>L J H G F E D B</div></div>	<div>FB-07 Engine harness (E)</div> <div><div><div><div></div></div><div><div>*</div><div>*</div></div><div><div>*</div><div>W</div></div></div><div>D B</div></div>
<div>FB-03 EM harness (EM)</div> <div><div>K I C A</div><div><div><div><div>FY</div><div>W</div></div><div><div></div><div></div></div><div><div>L/R</div><div>BR/Y</div></div></div><div><div>G/W</div><div>W</div><div>W/R</div><div>*</div><div>W/G</div><div>LG</div></div></div><div>L J H F D B</div></div>		<div>FB-06 Front harness (F)</div> <div><div>M K I C A</div><div><div><div><div>\$BR</div><div>*</div><div>*</div></div><div><div>B/R</div><div>R</div><div>R</div><div>L/B</div><div>B</div><div>W/G</div></div></div><div><div>\$P</div><div>&Y</div><div>L</div><div></div><div></div><div>*</div><div>*</div></div></div><div>N L J H G F E D B</div></div> <div><div>\$ with PEPS</div><div>& with start-stop system</div></div>	
<div>FB-05 Front harness (F)</div> <div><div>O M K E C A</div><div><div><div><div>B/L</div><div>Y</div><div>G/R</div></div><div><div>R/L</div><div>W/B</div><div>W/B</div><div>R</div><div>*</div><div>*</div><div>L/O</div></div></div><div><div>Y/R</div><div>*</div><div>W</div><div></div><div></div><div></div><div>*</div><div>G/B</div><div>Y/G</div></div></div><div>P N L J I H G F D B</div></div>			

MachineSoft.IR
09120146259

Common connector list

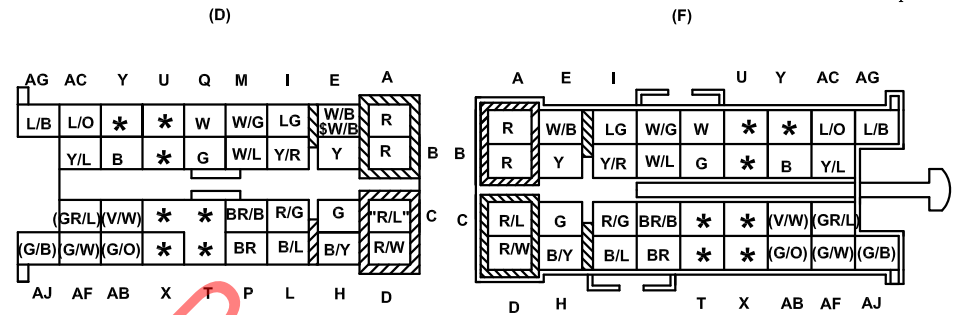
X-01 Front harness (F) - Instrument harness (I)

\$ with PEPS



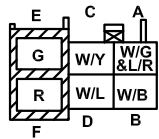
X-02 Front harness (F) - Middle harness (D)

() with ESP
" " with power seat



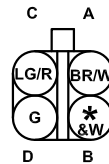
X-03 Ignition switch (I) & with start-stop

(I)

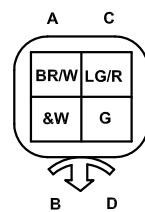


X-04 Engine harness (E) - EM harness (EM) & with start-stop

(EM)



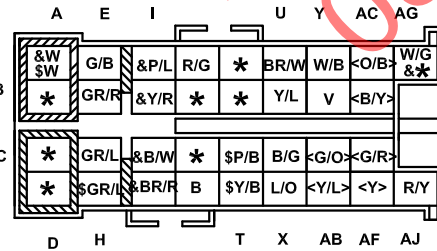
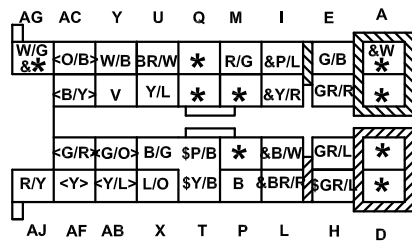
(E)



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

() with ESP
< > with AT
\$ with PEPS
& with start-stop

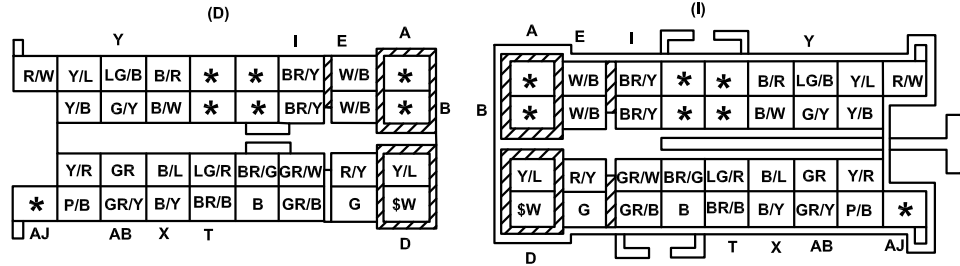
(EM)



Common connector list

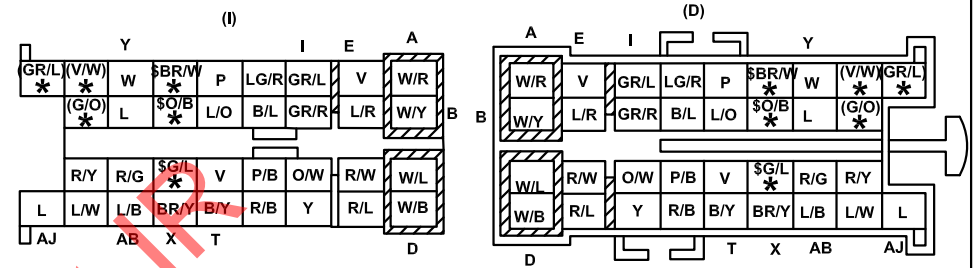
X-06 Instrument harness (I) -Middle harness (D)

\$ with PEPS



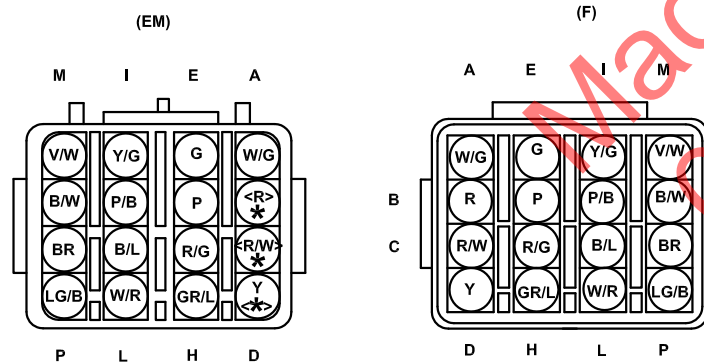
X-08 Middle harness (D) -Instrument harness (I)

() with ESP
\$ with PEPS

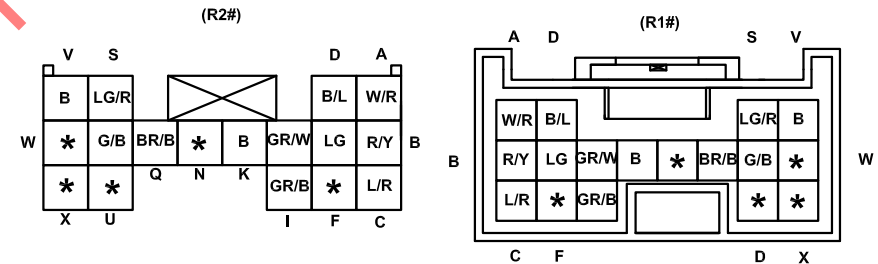


X-07 EM harness (EM) - Front harness (F)

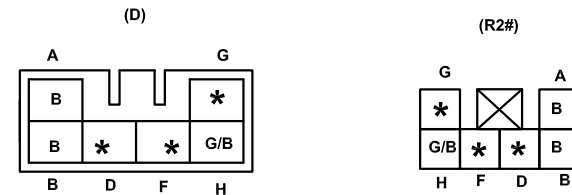
< > with AT



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



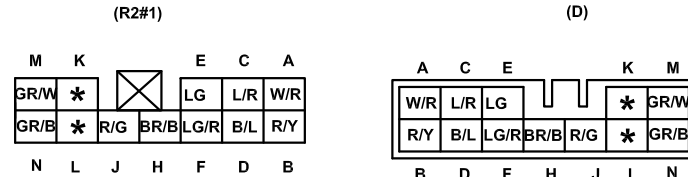
X-10 Middle harness (D) - 2# back door harness (R2#)



Common connector list

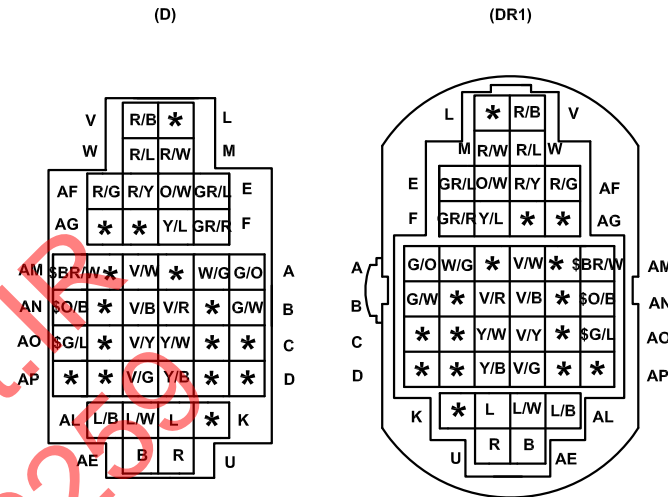
X-3

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



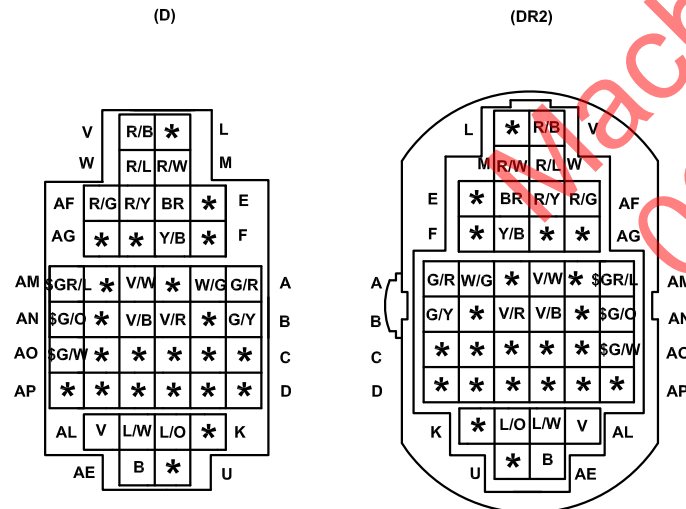
X-12 Middle harness (D) -Front door harness (DR1)

\$ with PEPS

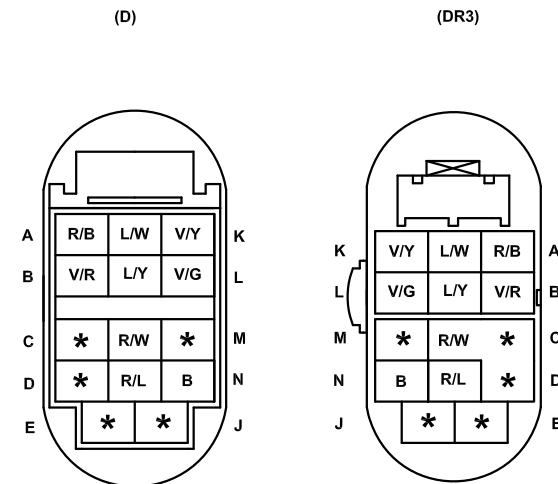


X-13 Middle harness (D) - Front door harness (DR2)

\$ with PEPS

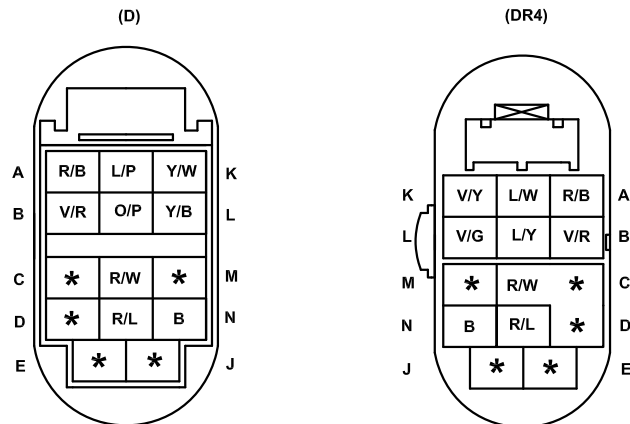


X-14 Middle harness (D) -Rear left door harness (DR3)

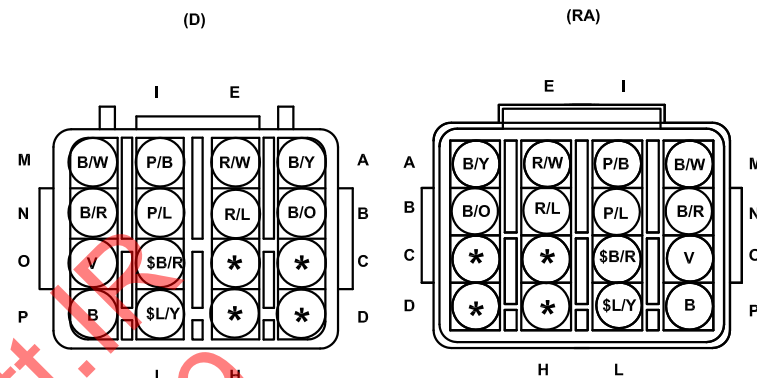


Common connector list

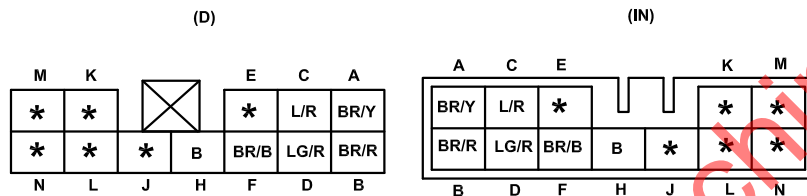
X-15 Middle harness (D) -Rear right door harness (DR4)



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)

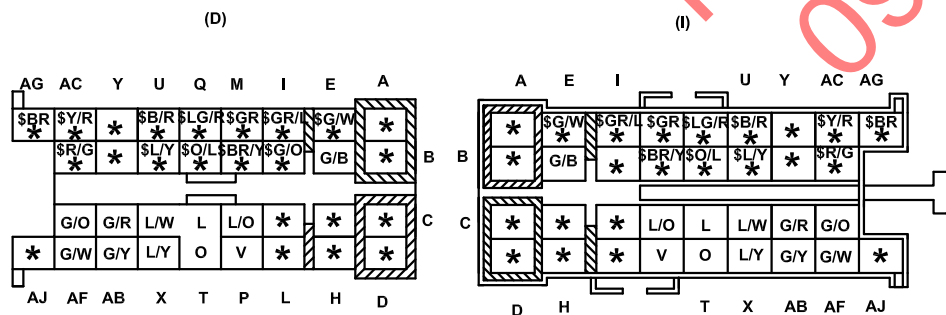


X-20 Middle harness (D) -Instrument harness (I)

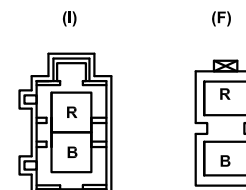


X-21 Middle harness (D) -Instrument harness (I)

\$ with PEPS



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



Junction box wiring diagram

JB

