



CHRYSLER PACIFICA MINIVAN SECONDARY CONTROLS INSTALLATION GUIDE

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REV: 03



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TO OUR VALUED CUSTOMER

It is our intention to provide our valued customers with the best documentation possible to ensure successful use of our products. We will continue to improve our publications to better suit your needs. Our publications will be refined and enhanced, as new volumes and updates introduced. If you have any questions or comments regarding this publication, please contact us.

We welcome your feedback.

CUSTOMER CARE CENTER

For additional application assistance, we urge you to consult with our experienced staff in our Customer Care Center. Our Technical and Engineering staff has extensive test, research and development capabilities, and have assisted many customers in solving unique design and application problems with standard or customized products.

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ABSTRACT

This guide explains how to install the modules in the vehicle.

- ✓ The information provided in the wiring diagrams is vehicle specific. It should be applied only to the vehicle indicated. Depending on the system you are installing, you may not install every harness.
- ✓ Read modules placement first, it is very important to understand where to connect and fit the CAN-Bus based components to avoid future problems.
- ✓ This manual becomes an integral part of the vehicle the system-installed in. You should therefore always keep it in the vehicle and pass on to the new owner, to safely use the systems.
- ✓ R.A.SH Tronics Ltd reserve the right to make changes in product specifications at any time and without prior notice. The information in this manual, believed to be accurate and reliable. However, R.A.SH Tronics Ltd assume no responsibility for its use.

USEFUL HINTS

- ✓ The electronic control board is an electrostatic sensitive device. Connect to a proper ground.
- ✓ Use care when making electrical connections. Disconnect battery power prior to servicing.
- ✓ When installing, check for any obstructions such as Gas tank, Gas lines, Wires, etc. before drilling or routing power cable.
- ✓ For continued protection against fire hazard, replace only with the same type and rating of fuse.
- ✓ Only allow R.A.SH Tronics factory trained technicians to install or service your system. If wear is observed on any part in the system, contact our US support.

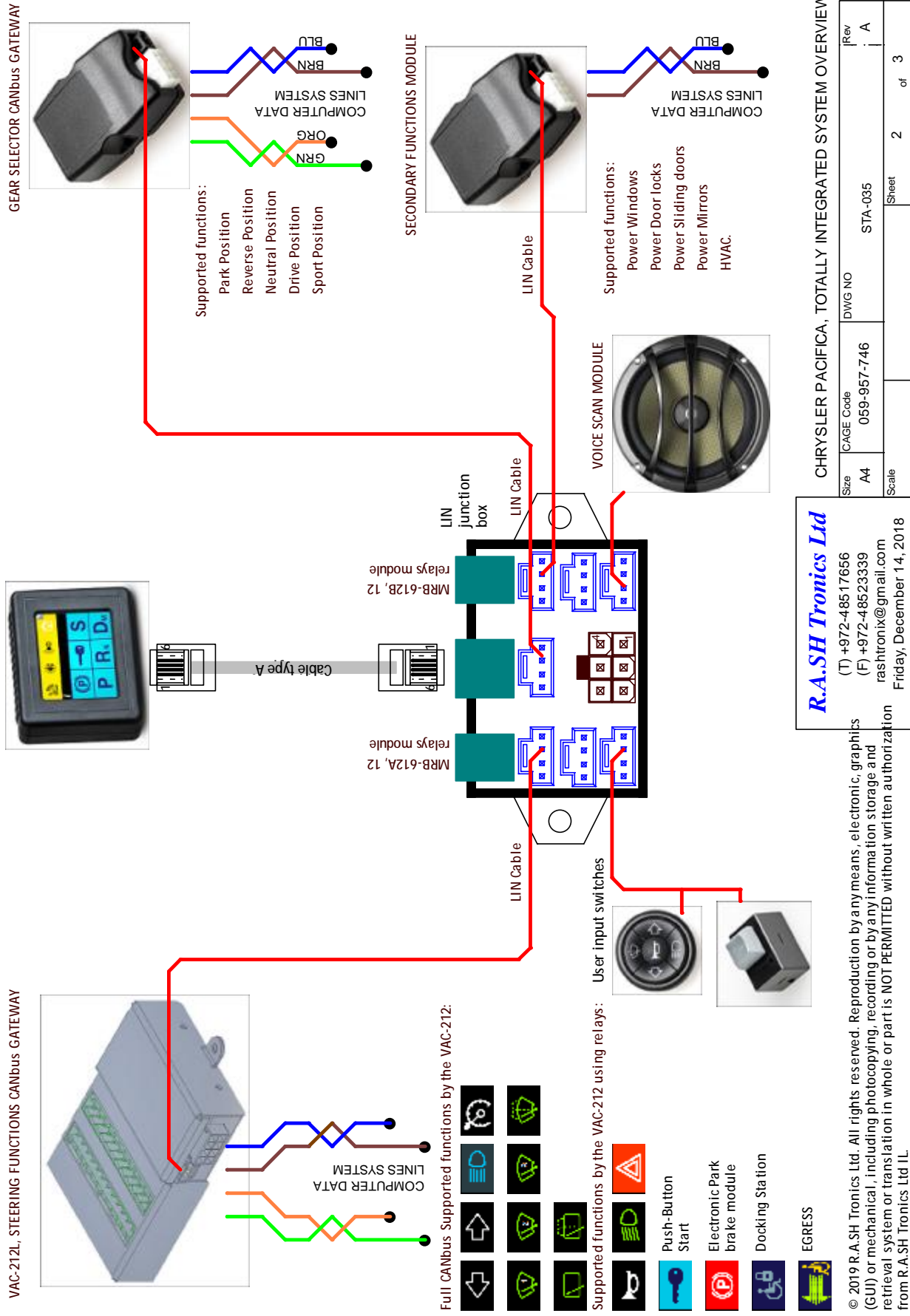
SECONDARY CONTROLS DEFENITIONS

Secondary controls are any devices that accept a control input from a driver for the purpose of operating the sub systems of the motor vehicle, other than those associated with the primaries.

Secondary Control list of functions:

1. Secondary control panels
 - a. LCD touch panels
 - b. Momentary/ Toggle switches
 - c. Voice scan systems
2. Transmission
 - a. Powered gear selector (Vehicles using power cable for direct control of the gear box)
 - b. CANbus gear selector (Vehicles using electronic control unit for shifting)
3. Ignition and Engine start
4. Parking Brake
5. Turn signals with automatic cancelling function
 - a. Canceling systems using CANbus steering position
 - b. Timers controlled by the stop light switch
 - c. Magnets under the steering for position detection
6. Hazard Warning Signals
7. Windshield Wiper/Washer
8. Lights
9. Horn
10. Seat Adjustment
11. Power Windows
12. Power Mirrors Adjust
13. Door Locks
14. Cruise Control
15. Heating, Ventilation and Air Conditioning Control (HVAC)

SYSTEM OVERVIEW







CHRYSLER PACIFICA, TOTALLY INTEGRATED SYSTEM OVERVIEW

Size	CAGE Code	DWG NO	Rev
A4	059-957-746	STA-035	A
Scale	Sheet 2 of 3		





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 Friday, December 14, 2018

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DESCRIPTION OF MAIN COMPONENTS

<p>DRIVEIN STA-35-xxx DISPLAY</p> <p>Through this 3.5" resistive touch screen displays you can control all operation and programming functions for the DRIVEIN system.</p> <p>All secondary functions are also controlled and programmed Through the display. It's location in the vehicle will vary, depending on the system set-up and mounting options for the driver. Most secondary functions can be remotely operated from other devices (In motion voice scan, five buttons Round Touchpad, five ways joystick and do it yourself switches), depending on the customer needs. Refer to the Drivein Operation and Programing Manual for further details.</p>	 <p>A 3.5-inch resistive touch screen display with a black bezel. The screen shows a yellow header bar with icons for a microphone, sun, lightbulb, and home. Below the header is a grid of six blue buttons: a 'P' in a circle, a key icon, an 'S', another 'P', 'R_N', and 'D_M'.</p>
<p>VEHICLE INTERFACE MODULE (VAC-212)</p> <p>Through this dual CANbus gateway module, which is connected to the steering module communication network, it is possible to control almost all of the steering functions like turn signals, horn, wipers, lights, cruise and many more. It is also used to collect real time information and update the LCD display.</p>	 <p>A grey rectangular electronic module with a green terminal block on the top edge and a connector on the side.</p>
<p>CANbus GEAR SELECTOR & ENGINE START/STOP MODULE</p> <p>This module is used to override the OEM start stop system; it is designed to be directly attached to the OEM high current harness using the quick-fit terminals of the OEM harness. No need to solder just remove the OEM wires from the connector and plug them as per wiring diagram provided in this manual for your specific vehicle.</p>	 <p>A small, black, rectangular electronic module with a white connector on one end.</p>
<p>UNIVESAL 12 RELAYS MODULE</p> <p>Can do many functions:</p> <ol style="list-style-type: none"> 1. Motor control 2. Docking station 3. EGRESS 4. Lift's and hoists 5. Hazard warning lights 	 <p>A grey printed circuit board (PCB) with green terminal blocks on the top and bottom edges. It features a black integrated circuit (IC) in the center and various electronic components. Labels include 'Tank Pad connector', 'Output', and 'FRB-12L'.</p>

DESCRIPTION OF THE MAIN COMPONENTS CONTINUED

<p>INPUT DEVICES: RID-1L round input device.</p> <p>It has five buttons blue lighted with universal automotive symbols. It should be mounted within reach of the driver.</p> <p>It is designed to access the in-motion functions like turn signals and horn.</p> <p>Five big buttons easy to use, small size.</p>	
<p>INPUT DEVICES: JID-1L joystick input device.</p> <p>It is a five ways mini-joystick, very small size, easy to use can be mounted within easy reach of the driver.</p> <p>It is designed to access the in-motion functions like turn signals and horn.</p>	
<p>INPUT DEVICES: DIY-1L twelve momentary switches input device.</p> <p>This module is used to access up to twelve functions in the vehicle using low effort switches. Can be mounted under the steering and hardwired to different switches located within easy reach of the driver.</p>	
<p>INPUT DEVICES: GID-1L round input device.</p> <p>It has five buttons blue lighted with universal automotive symbols. It should be mounted within reach of the driver.</p> <p>It is designed to control the start stop function and gear control.</p> <p>Five big buttons easy to use, small size.</p>	

CAN-BUS GATEWAY MODULE

The R.A.SH Tronics CANbus gateway is a very powerful device, it allows access for many of the vehicle functions without the need to remove plastic parts or additional external relays. The CANbus gateway interface with the OEM CAN system in order to operate most of the secondary functions.

The CAN Gateway Module connects to the Drivein LCD touch screen on the LIN junction port and to the vehicle's CAN system to operate the secondary functions, listed below in the table. It is also responsible to wake up the touch screen and put to sleep after locking the vehicle.

THESE SECONDARY FUNCTIONS WILL REQUIRE NO FURTHER PHYSICAL WIRING, which will *greatly reduce the amount of installation time and increase reliability*. There are, however, a few secondary functions that will require physical wiring. These functions are not listed in the table below but in the pages to follow. The CAN Gateway module is connected to the vehicle's OBD connector located on the lower left dash panel in the driver's area and to the low speed CAN simultaneously. The Gateway module itself is typically installed behind the center console area and secured to vehicle using the mounting tabs on the module. The CAN Gateway Module is responsible to wake up and put to sleep of all system components, so be sure to connect the wires utilizing proper soldering practices according to SAE J1292.

FUNCTIONS CONTROLLED THROUGH CANbus (NO PHYSICAL WIRING REQUIRED)		
Windows Up & Down <ol style="list-style-type: none"> 1. Driver 2. Passenger 	HVAC (Heating ventilation and air conditioning) <ul style="list-style-type: none"> • Fan speed, 7 steps. <ul style="list-style-type: none"> ○ Fast ○ Slow ○ Off • Air flow five positions <ul style="list-style-type: none"> ○ Front ○ Floor ○ Front & Floor ○ Floor & Defrost ○ Defrost • A/C <ul style="list-style-type: none"> ○ On/ Off ○ Auto • SYNC • Temp (full range) <ul style="list-style-type: none"> ○ Hot ○ Cold 	
Door lock/Unlock The system knows the current door status and behaves accordingly.		
Exterior mirrors Up/ Down, Left/ Right <ol style="list-style-type: none"> 1. Driver 2. Passenger 		
Sliding Doors Open/ Close <ol style="list-style-type: none"> 1. Driver 2. Passenger 		
Steering Functions		
Horn (<i>This function uses relay inside the CAN module</i>)		
Turn signals. Automatic cancelation implemented using the CANbus steering position information.		
Front wipers Important: Our system does not cancel the Auto wipers function.	Important notes: <ul style="list-style-type: none"> • Optional to control the Rear HVAC • The system does not cancel any OEM function. • HVAC functions are usable from OEM and our system in parallel. 	
<ol style="list-style-type: none"> 1. Intermittent wipe 2. Normal wipe 3. Rapid wipe 4. Front wash 		
Rear Wipers <ol style="list-style-type: none"> 1. Intermittent wipe 2. Normal wipe 3. Rear Wash 	Cruise control <ol style="list-style-type: none"> 1. Automatically turned On 2. Set/ Decelerate 3. Resume/ Accelerate 4. Cancels by foot brake 	
Voice Recognition & volume Up/ Down	Automatic Lane Assist & Engine start canceling	

SHIFT BY WIRE CANbus MODULE

This new R.A.SH Electronics powered gear selector uses the CAN-Bus network information to function, it makes it easy to fit inside any modern vehicle. Since the CAN-Bus information is very reliable, shifting do not rely on Potentiometer position or the voltage measured out of it and do not rely on untrained programmer. Check wiring diagrams below.

The Chrysler Pacifica new concept of powered gear selector, brings the vehicle safety to a higher level, due to the fact that the system collects the vehicle speed combined with the foot brake information, makes it easy to operate the system by pressing the gear buttons shortly, not using the Long/ Short press mode, once Reverse button is pressed while the vehicle is driving in a high speed, even if the foot brake is slightly pressed, no shifting is possible. Another important feature is that this vehicle has no gear cable going to the gear box, it is purely based on CANbus (Picture A/ B), our gear selector module is a CANbus gateway that is integrated into the Pacifica communication network as any OEM module so the manufacturer diagnostic tools cannot recognize it and cannot recognize the OEM CANbus wires are cut, Picture C/ D.



Picture A



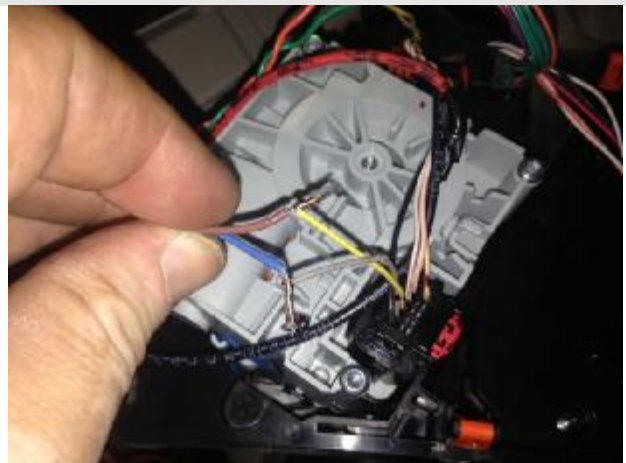
Picture B



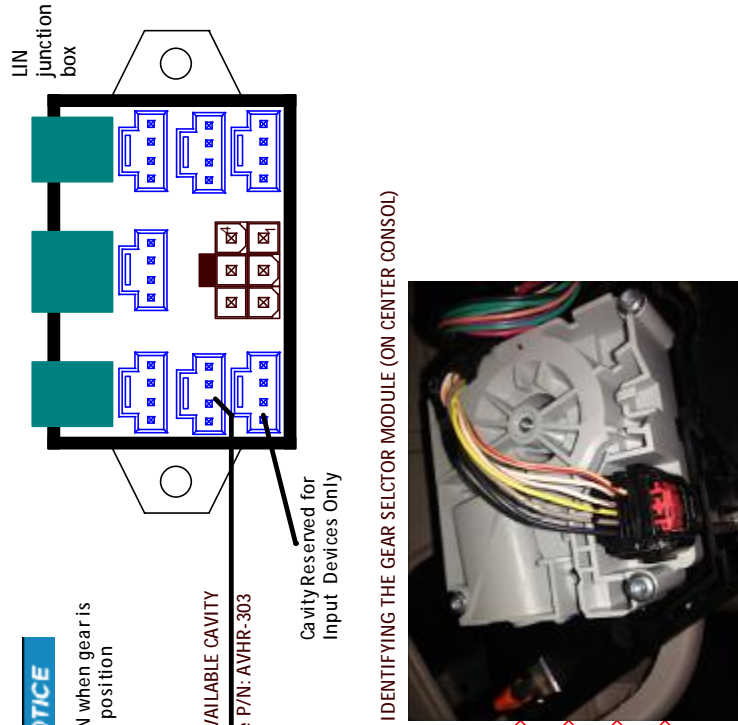
Picture C



Picture D



SHIFT BY WIRE CANbus WIRING



NOTICE

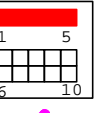
Relays is ON when gear is out of Park position

USE ANY AVAILABLE CAVITY
Com. Cable P/N: AVHR-303

Cavity Reserved for Input Devices Only

IDENTIFYING THE GEAR SELECTOR MODULE (ON CENTER CONSOLE)

IDENTIFYING THE GEAR SELECTOR SWITCH



Information

Cut location is about 2" from OEM connector.
Do not shorten any wire supplied with the kit, use as is.



Control board bottom side

MDL: shorted

ECU: open

COMPUTER DATA LINES SYSTEM

- GRY (CAN_H)
- YEL (CAN_L)
- BLK (GND)
- YEL/RED (BAT)

Additional Automatic Functions



AUTOMATIC START/STOP CANCELLING



AUTOMATIC LAIN ASSIST CANCELLING

Applicable Vehicles:

Chrysler Pacifica, Chrysler Voyager 2021

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 Tuesday, April 13, 2021

CHRYSLER PACIFICA, CAN-bus Gear Selector

Size	CAGE Code	DWG NO	Rev
A4	059-957-746	RSM-50X CFCF	A
Scale	Sheet		of
	SW: RSM-50X 04 CFCF.hex		2 of 3

PUSHBUTTON START MODULE

The SS-1L-CPCF start stop system is linked to the LCD touch system and it is part of the CANbus gear selector, it is constantly updated with the vehicle status through the CANbus network through powered gear selector module. This module should be mounted in an easy to reach under the steering area.

The systems supplied with 600mm (24") harness, it is designed to maximize the box mounting in-between the foot brake position switch and the engine start stop switch under the steering. So, it is not recommended to extend the wire harness of the OEM modules and the start stop system. Only one OEM cable should be cut and wired to the system harness, all the rest are tapped into the OEM, all wires **MUST** be soldered, do not use any other way to tap into.



Using the start stop function

Depending on your input device whether it is a GID-1L or LCD touch, the start stop function behave exactly the same, the description below describe using the LCD input device for starting and stopping. The system supports two way starting options, the first is to shortly press to activate the ignition and then press and hold to start; the second is to press and hold until engine started.

1. When the vehicle is stationary and the ignition is Off:
 - a. Shortly press the animation key Figure A to turn on the ignition.
 - b. Shortly press a second time to turn off the ignition.
2. When the vehicle is stationary and the ignition is On:
 - a. Press and hold the key until the engine started, the symbol changes Figure B indicating engine running.
3. When the vehicle is stationary and the ignition is Off:
 - a. Press and hold the animation key Figure A until the engine started and indicated by Figure B.



Press and hold anytime to start the engine, there is no need to press the foot brake to start the engine.

The system supports two way starting, using the short way, press and hold the key animation until the engine started and running.

Start/Stop Modification Procedure

There are only two wires to solder on the factory board as can be seen in the pictures below. **We accept no responsibility for any damage you cause to the OEM board.** Disconnect the module from power and then commence the modification, double check everything before you drill/ solder or remove plastic parts. The manufacturer used two similar wire colors in the foot brake connector (Dark Green with Brown strip), one of them when measured using a digital volt meeter, must show voltage level below 0.5V, this is the wire that should be cut as can be see in the wiring, the second wire should show voltage level above 2.0V, this do not cut. **The two pins of the switch inside the start stop module are positive 12V, if shorted to ground, you will damage the module, it is highly recommended to double check yourself before connecting the battery after all wired and plugged in place.**

Example of soldering two wires on the internal switch

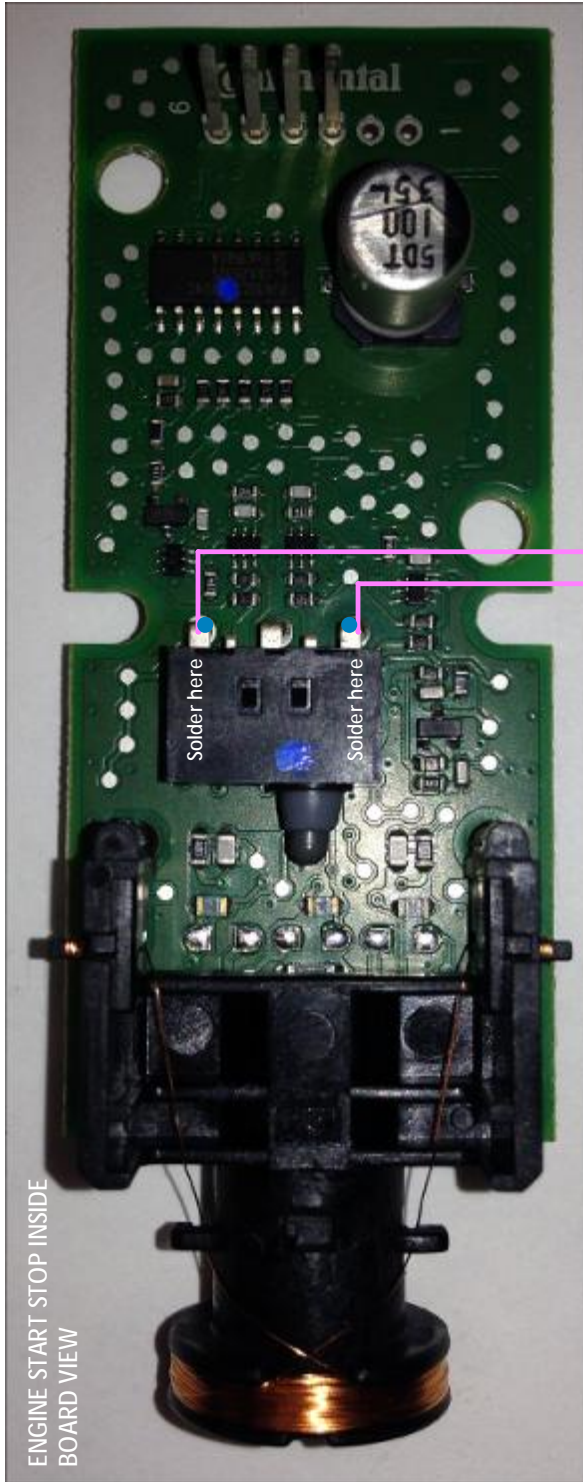


Identifying the start stop micro-switch



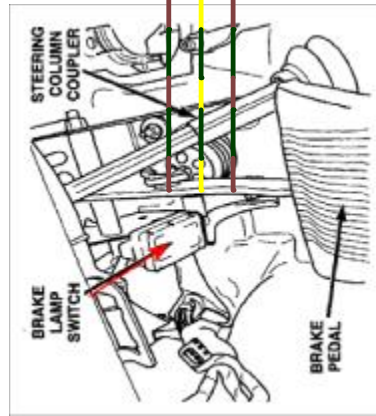
ENGINE START STOP WIRING

IDENTIFYING THE ENGIN START STOP SWITCH (ON RIGHT SIDE OF STEERING)



ENGINE START STOP INSIDE BOARD VIEW

IDENTIFYING THE BRAKE LAMP SWITCH (TOP OF BRAKE PEDAL ASSEMBLY)



CAUTION

Use maximum care when modifying this module, these two wires are positive 12V, if shortened, you will damage the OEM module.

IDENTIFYING THE VAC-212 PACIFICA MODULE



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CHRYSLER PACIFICA, PUSHBUTTON START WIRING

Size	CAGE Code	DWG NO	Rev
A4	059-957-746	VAC-212X CPMF	A
Scale	Sheet 2 of 3		

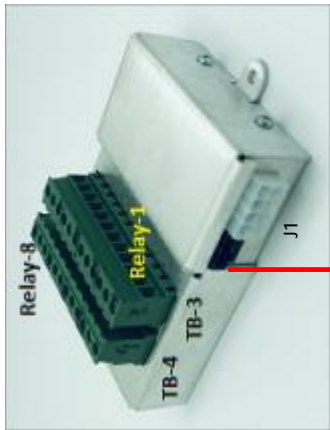
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MULTI-FUNCTION MODULE

IDENTIFYING THE STEERING CONTROL MODULE (TOP OF STEERING COLUMN)



CAUTION
Don't even think to shorten the CAN wires supplied with the kit, use as is.

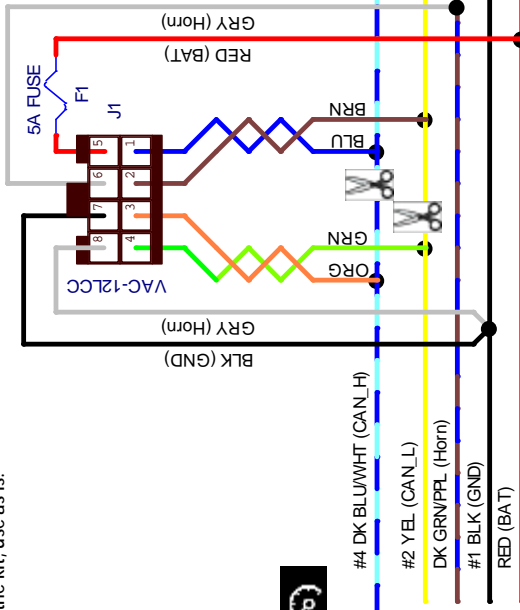


IDENTIFYING THE VAC-212 CPWF MODULE

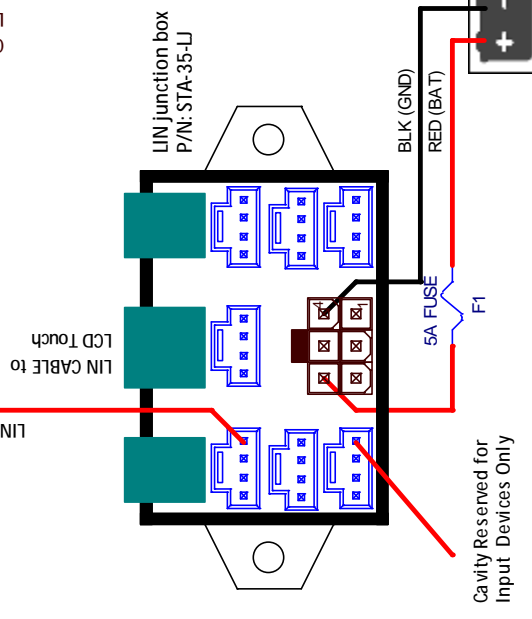
SUPPORTED FUNCTIONS (Relays)



SUPPORTED FUNCTIONS (CANbus)



Cut location is about 3" from OEM connector.



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Sunday, January 10, 2021

CHRYSLER PACIFICA MULTI-FUNCTION

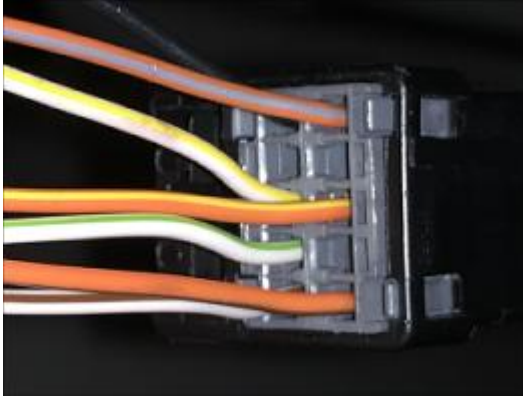
Size	CAGE Code	DWG NO	Rev
A4	059-957-746	VAC-212 CRWF_1	A
Scale	Sheet 2 of 3		

HEADLIGHTS WIRING

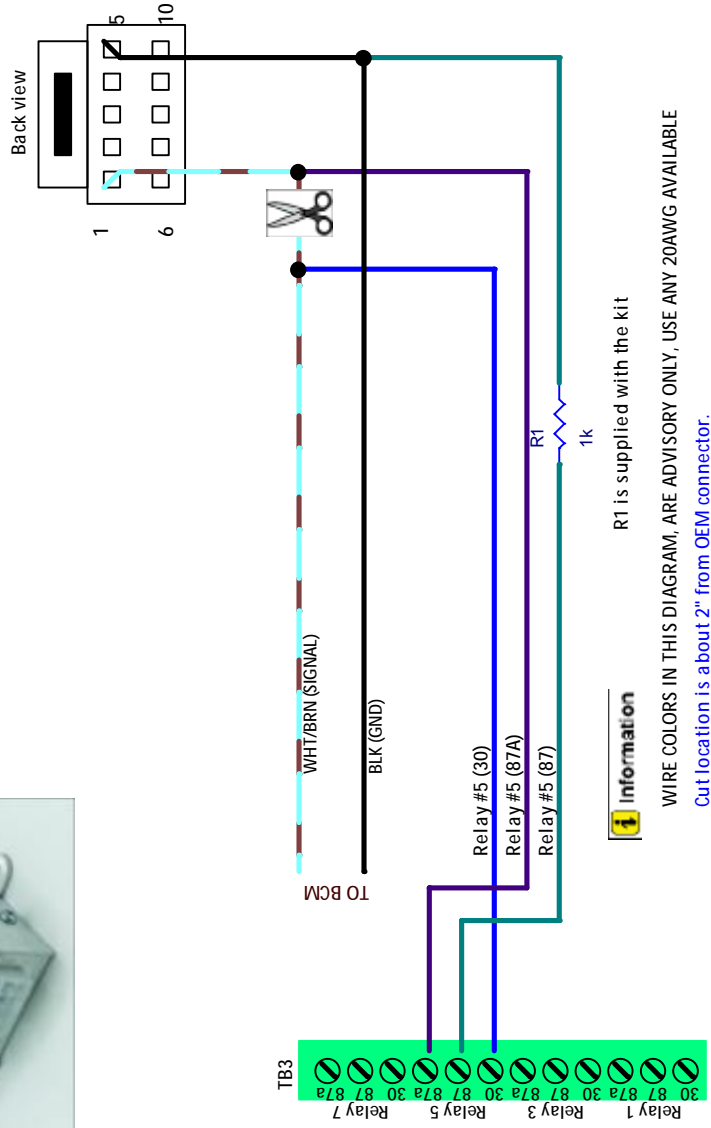
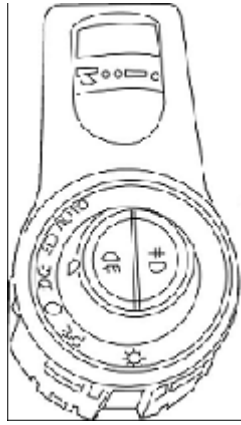
IDENTIFYING THE VAC-212 CPMF MODULE



IDENTIFYING THE LIGHTS SWITCH CONNECTOR



IDENTIFYING THE LIGHTS SWITCH (LEFT SIDE OF DASH)



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CHRYSLER PACIFICA MULTI-FUNCTION (HEADLIGHTS WIRING)

Size	C-AGE Code	DWG NO	IRRev
A4	059-957-746	VAC-212 CPMF_2	A
Scale	Sheet 2 of 3		

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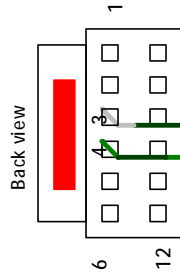
ELECTRONIC PARK BRAKE WIRING



IDENTIFYING THE ELECTRONIC PARK SWITCH

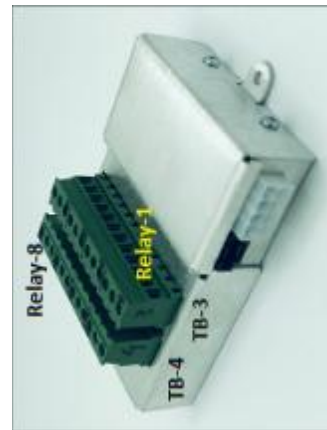
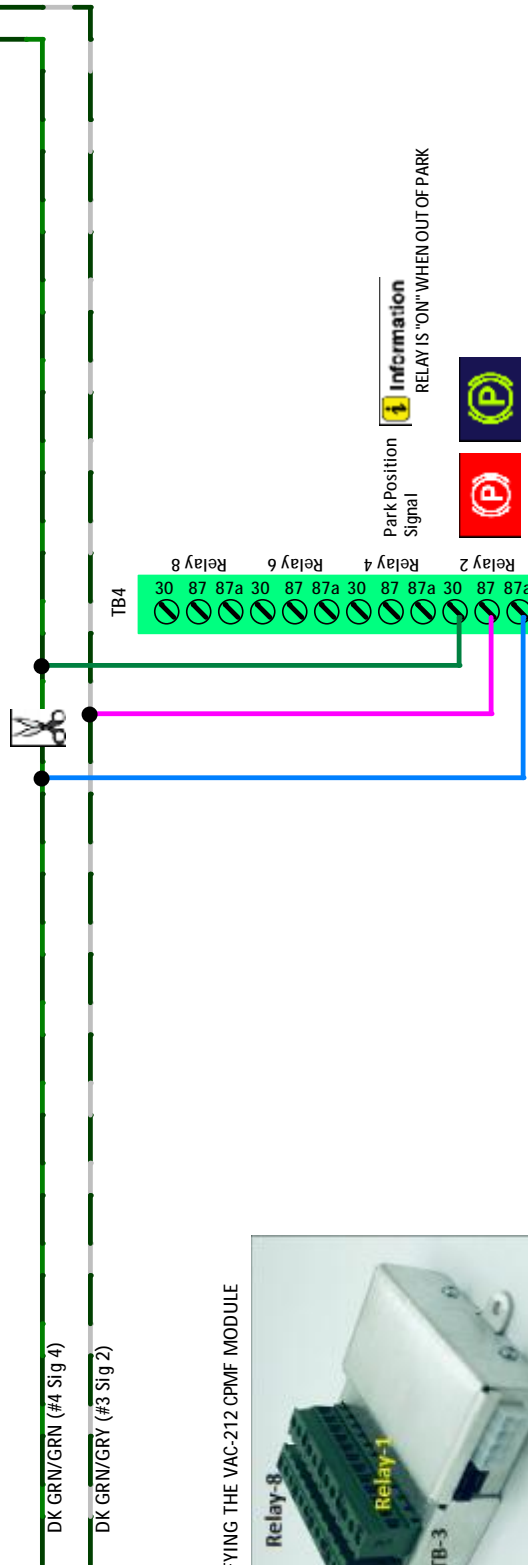


IDENTIFYING THE ELECTRONIC PARK SWITCH CONNECTOR



Information

WIRE COLORS IN THIS DIAGRAM, ARE ADVISORY ONLY. USE ANY 20AWG AVAILABLE
 Cut location is about 2" from OEM connector.



IDENTIFYING THE VAC-212 CPMF MODULE

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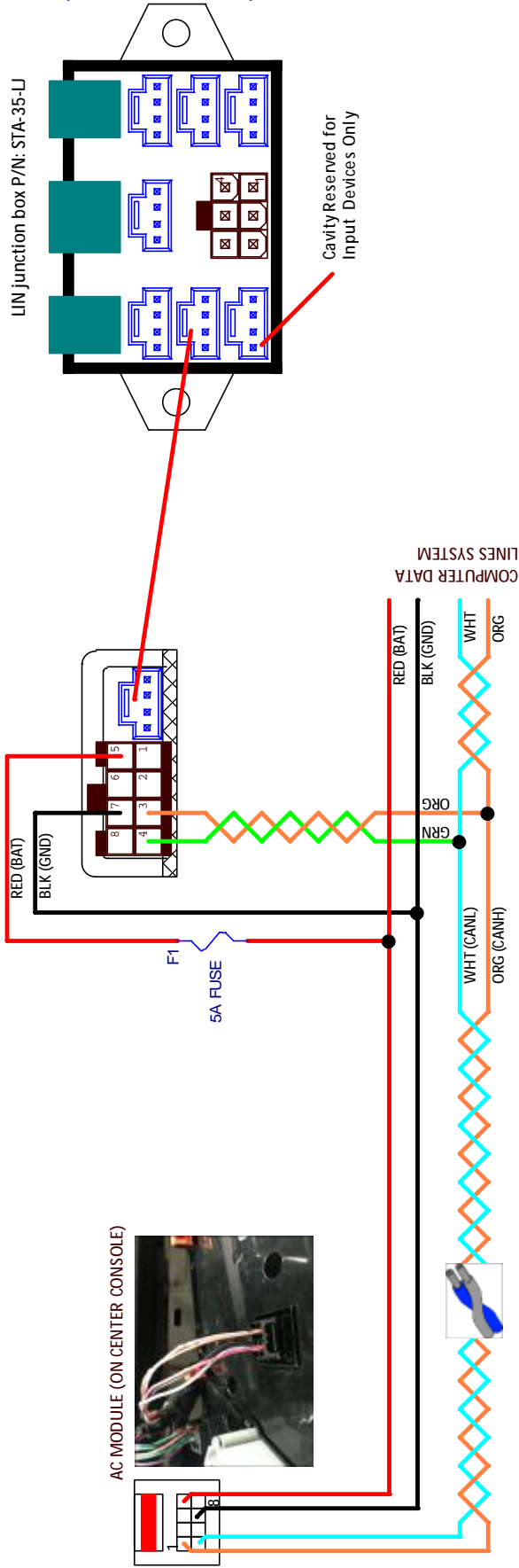
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CHRYSLER PACIFICA, ELECTRONIC PARK BRAKE WIRING

Size	CAGE Code	DWG NO	Rev
A4	059-957-746	VAC-212 CPMF	A
Scale	Sheet 2 of 3		

HVAC, WINDOWS, MIRRORS MODULE



LIN junction box P/N: STA-35-LJ

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Information

SUPPORTED FUNCTIONS

- HVAC
- Driver & Passenger windows
- Driver and Passenger power mirrors
- Driver & Passenger sliding doors
- Central locking
- Voice Command Switch
- Volume Up & Down

NOTICE

AUTOMATIC LAIN ASSIST CANCELLING



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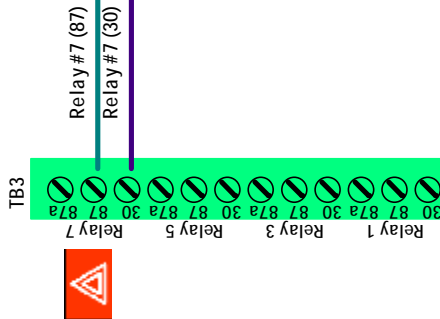
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CHRYSLER PACIFICA, SECONDARY FUNCTIONS MODULE

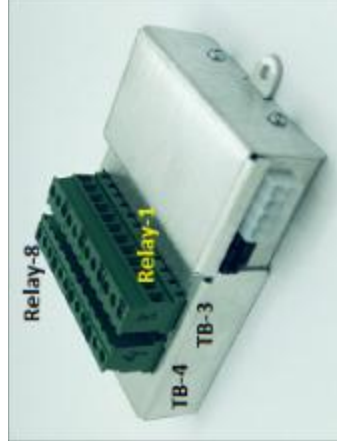
Size	CAGE Code	DWG NO	Rev
A4	059-957-746	VAC-12LCC-CFSEC	A
Scale	SW: VAC-12LCC-CFSEC.hex		Sheet 2 of 3

HAZARD WARNING LIGHTS

IDENTIFYING THE HAZARD SWITCH LOCATION, AC MODULE (ON CENTER CONSOLE)



IDENTIFYING THE VAC-212 CPMF MODULE



Information

WIRE COLORS IN THIS DIAGRAM, ARE ADVISORY ONLY, USE ANY 20AWG AVAILABLE
Cut location is about 2" from OEM connector.

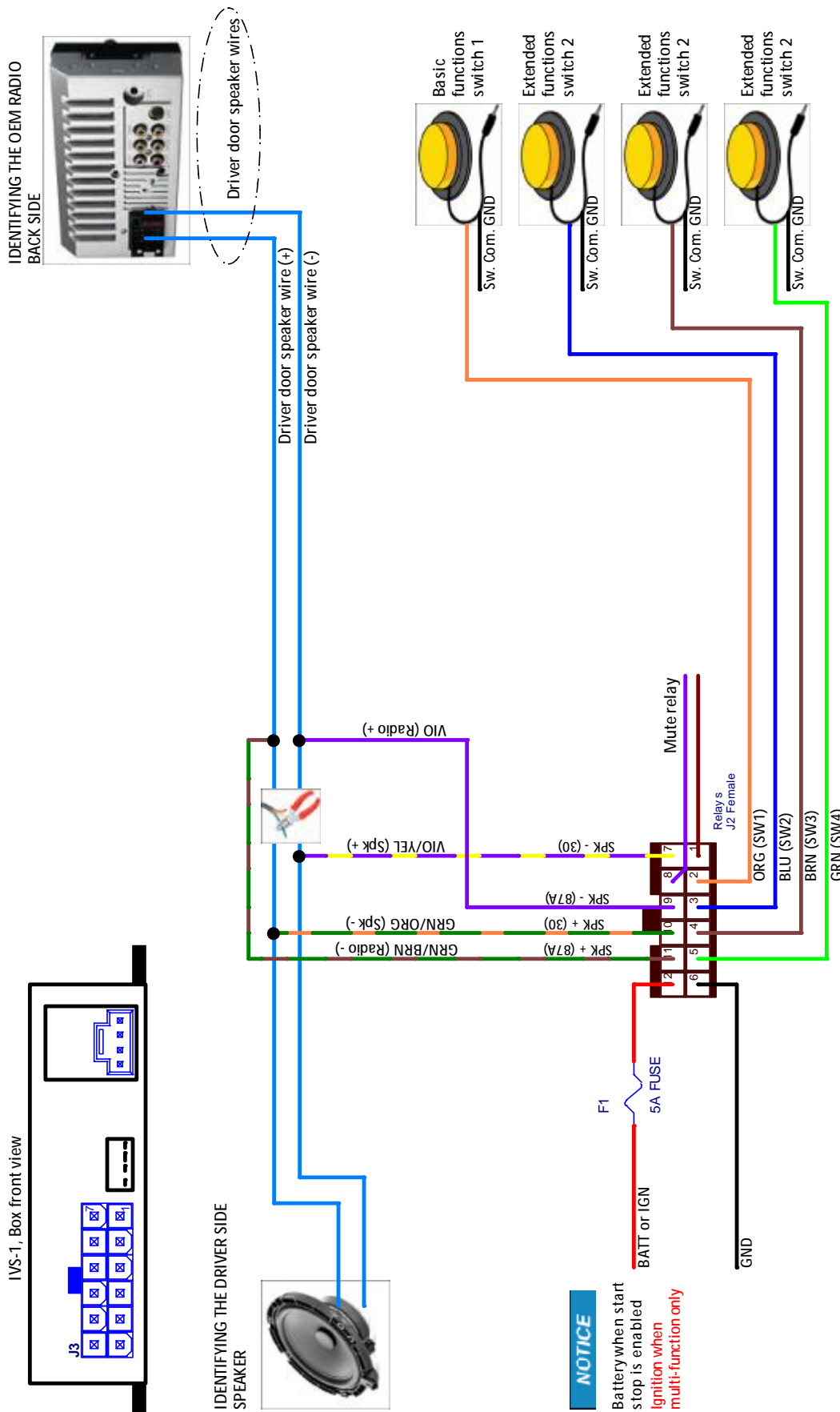
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CHRYSLER PACIFICA MULTI-FUNCTION (HAZARDS WIRING)

Size	CAGE Code	DWG NO	Rev
A4	059-957-746	VAC-212 CPMF_2	A
Scale	Sheet 2 of 3		

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VOICE SCAN WIRING



NOTICE
 Battery when start stop is enabled
 Ignition when multi-function only

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 Sunday, October 18, 2020


Intelligent Voice Scan Wiring Concept

Size	CAGE Code	DWG NO	Rev
A4	059-957-746	IVS-1X	A
Scale	Sheet 1 of 1		


USING THE HVAC

The HVAC module is very smart, it can control almost all functions of the driver side only. Some touch buttons can do two or more functions, please read the instructions and practice yourself before driving.



This is the multifunction control touch button:  repeatedly to toggle through the settings and manually choose one of the following air distribution modes (Panel, Floor, Panel and Floor, Floor and Defrost).



 to select the SYNC mode, this mode is used to select single or dual zone.

This touch button can do three functions:

Shortly press to decrease the fan speed one step.


Press and hold to constantly decrease the fan speed until button released. If the button continue to be depressed for more than 2 seconds, the HVAC will be turned off.




Shortly press this touch button to turn on the HVAC and increase the fan speed one step.

Press and hold to constantly increase the fan speed until the button released of the maximum speed reached.



 touch to activate/deactivate airconditioning

 to engage full automatic operation



Shortly press this touch button increase (Hot) the temperature one step.

Press and hold to constantly increase the temperature until the button released or the maximum temperature reached.



Shortly press this touch button decrease (Cold) the temperature one step.
Press and hold to constantly decrease the temperature until the button released or the maximum temperature reached.



USING THE CRUISE CONTROL

Stand-Alone Functions

APPENDIX

SPECIFICATIONS

The following chart lists the standard wire colors and their corresponding abbreviations that will be used for the installation of all R.A.SH Tronics Ltd products.

WIRE COLOR	COLOR ABBREVIATION	WIRE GAUGES		CURRENT RATING
BLACK	BLK	0.3mm	AWG22	5A
BROWN	BRN	0.5mm	AWG20	7A- 13A
RED	RED	0.85 mm	AWG18	9A-17A
ORANGE	ORG	1.28 mm	AWG16	12A-22A
YELLOW	YEL	2 mm	AWG14	16A-30A
VIOLET	VLT	3 mm	AWG12	21A-40A
GRAY	GRY			
WHITE	WHT			
TAN	TAN			
PINK	PNK			
PURPLE	PPL			
BLUE	BLU			
LIGHT BLUE	LT BLU			
DARK BLUE	DK BLU			
GREEN	GRN			
LIGHT GREEN	LT GRN			
DARG GREEN	DK GRN			

Soldering Method- The soldering method shown at right is offered for general information. Depending on the connection desired, other methods may be used.

Notes

