

INSTALL GUIDE OEM-AL(RS)-CH8-[ADS-ALCA]-EN

DOCUMENT NUMBER 77776

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FIRMWARE OEM-AL(RS)-CH8-[ADS-ALCA]

HARDWARE ADS-ALCA

ACCESSORIES ADS-USB (REQUIRED)



TERMS OF USE: Automotive Data Solutions Inc. ("ADS") products are strictly intended for installation by Certified Technicians who are employed by a registered business specialized in the installation of automotive aftermarket electronics products. Prior to beginning installation of an ADS product in a vehicle, it is the Certified Technician's responsibility to review the most current Product Guide, Install Guide and vehicle-specific notes available in Weblink®. ADS is not responsible for any damages whatsoever, including but not limited to any consequential damages, incidental damages, damages for loss of time, loss of earnings, loss of profit, commercial loss, loss of economic opportunity and the like that may or may not have resulted from the use, misuse, improper installation or operation of its products. ADS reserves itself the right to suspend any Weblink® account without notice and decline to offer technical support to non-Certified Technicians, non-compliant Certified Technicians or end users.



BEFORE INSTALLATION

- 1- Connect module to computer
- 2- Login to Weblink account
- 3- Flash firmware to module (module is not preloaded with firmware)
- 4- Use accessories accordingly (accessories are sold separately)



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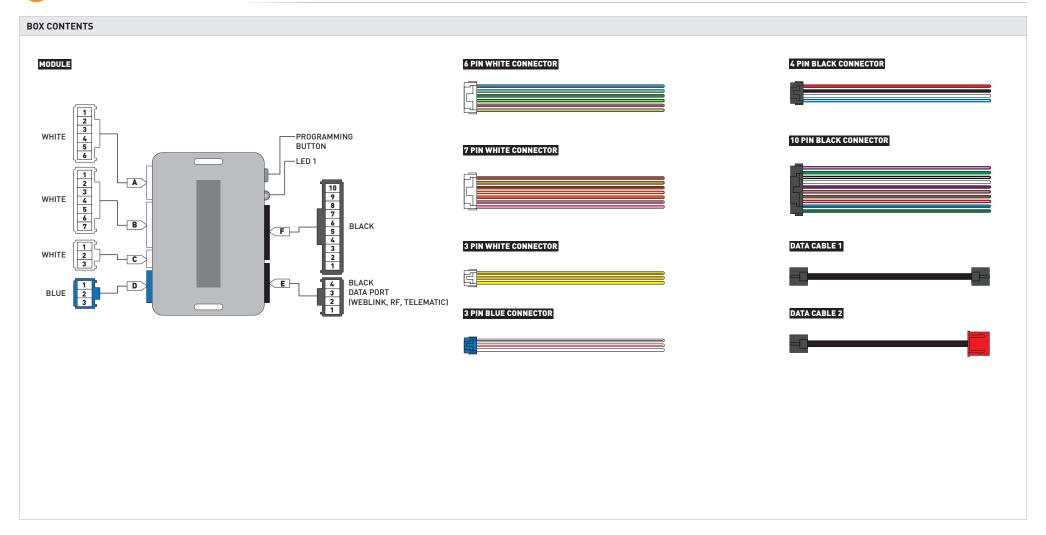
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FEATURES NOTE 3X LOCK START/STANDALONE MOD. I WARNING: All vehicle doors must be **BRAKE PEDAL STATUS OUTPUT** closed and locked prior to remote start DATA IMMOBILIZER BYPASS sequence. TRUNK/HATCH RELEASE TRUNK STATUS OUTPUT **DOOR STATUS OUTPUT** TACHOMETER OUTPUT RAP SHUTDOWN CTRL **GLOW PLUGS STATUS** DISARM OEM ALARM SECURE TAKEOVER ARM OEM ALARM DOOR UNLOCK INSTALL TYPE DOOR LOCK MODEL MAKE 13-17 2 1500 / 2500 / 3500 STD key (Tip-Start) AT 1500 / 2500 / 3500 STD key (Tip-Start) AT 18 1500 Classic STD key (Tip-Start) AT 19-21 3 1500 / 2500 / 3500 Diesel STD key (Tip-Start) AT 14-17 2 1500 / 2500 / 3500 Diesel STD key (Tip-Start) AT 18 3 • 19-21 3 1500 Classic Diesel STD key (Tip-Start) AT

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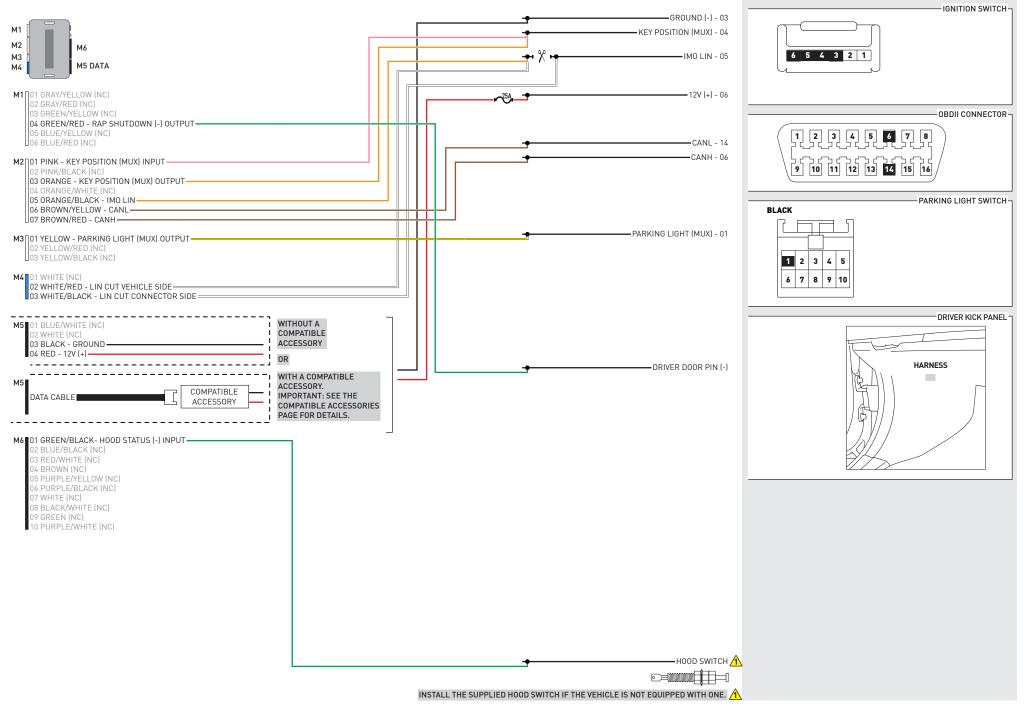




MAKE	MODEL	YEAR	DESCRIPTION	CONNECTOR	COUNECTOR	CONNECTOR	POSITION	COLOR	POLARITY	MODULE	COMPONENT LOCATOR
	1500 / 1500 Diesel STD key AT	13-17	12V	D2664A	Black	06 pin	06	Red	(+)	Ignition connector	F
			Ground	D2664A	Black	06 pin	03	Black	(-)	Ignition connector	F
			Key position	D2664A	Black	06 pin	04	Purple/Brown	(MUX)	Ignition connector	F
			Imo Lin	D2664A	Black	06 pin	05	White/Green	(DATA)	Ignition connector	F
			CanH	D7405A	Black	16 pin	06	Gray/White	(DATA)	OBDII connector	~
			CanL	D7405A	Black	16 pin	14	Yellow	(DATA)	OBDII connector	~
			Parking Light	D2242A	Black	10 pin	01	White/Brown	(MUX)	Parking light switch	Α
RAM			Driver door pin	~	~	~	~	Purple	(-)	Harness in driver kick panel	~
2	2500 / 2500 Diesel / 3500 / 3500 Diesel / STD key AT	13-17	12V	D2664A	Black	06 pin	06	Red	(+)	Ignition connector	F
			Ground	D2664A	Black	06 pin	03	Black	(-)	Ignition connector	F
			Key position	D2664A	Black	06 pin	04	Purple/Brown	(MUX)	Ignition connector	F
			Imo Lin	D2664A	Black	06 pin	05	White/Green	(DATA)	Ignition connector	F
			CanH	D7405A	Black	16 pin	06	Gray/White	(DATA)	OBDII connector	~
			CanL	D7405A	Black	16 pin	14	Yellow	(DATA)	OBDII connector	~
			Parking Light	D2242A	Black	10 pin	01	White/Brown	(MUX)	Parking light switch	Α
			Driver door pin	~	~	~	~	Purple	(-)	Harness in driver kick panel	~

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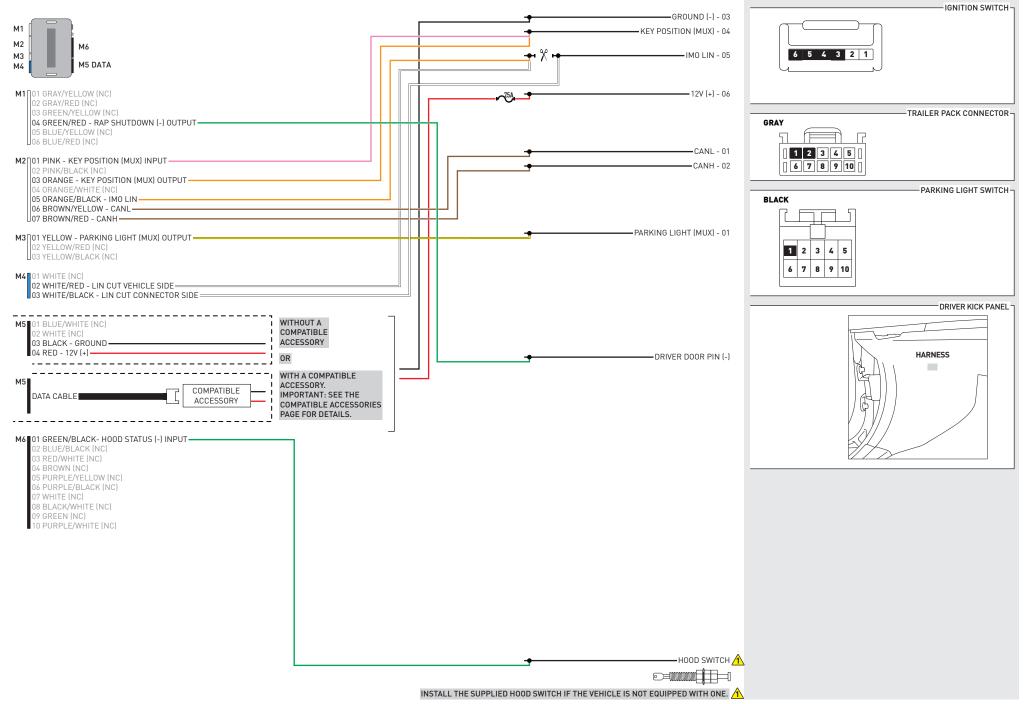




MAKE	MODEL	YEAR	DESCRIPTION	CONNECTOR	COUNECTOR	CONNECTOR TYPE	POSITION	COLOR	POLARITY	LOCATION	COMPONENT
	1500 / 2500 / 3500 STD key AT		12V	D2664A	Black	06 pin	06	Red	(+)	Ignition connector	~
			Ground	D2664A	Black	06 pin	03	Black	(-)	Ignition connector	~
			Key position	D2664A	Black	06 pin	04	Purple/Brown	(MUX)	Ignition connector	~
		18	Imo Lin	D2664A	Black	06 pin	05	White/Green	(DATA)	Ignition connector	~
		10	CanH	~	Gray	10 pin	02	Orange	(DATA)	Trailer module, right of steering column	~
			CanL	~	Gray	10 pin	01	Yellow	(DATA)	Trailer module, right of steering column	~
			Parking Light	D2242A	Black	10 pin	01	White/Brown	(MUX)	Parking light switch	~
			Driver door pin	~	~	~	~	Purple	(-)	Harness in driver kick panel	~
	1500 Classic STD key AT		12V	D2664A	Black	06 pin	06	Red	(+)	Ignition connector	~
			Ground	D2664A	Black	06 pin	03	Black	(-)	Ignition connector	~
			Key position	D2664A	Black	06 pin	04	Purple/Brown	(MUX)	Ignition connector	~
		19-21	Imo Lin	D2664A	Black	06 pin	05	White/Green	(DATA)	Ignition connector	~
			CanH	~	Gray	10 pin	02	Orange	(DATA)	Trailer module, right of steering column	~
			CanL	~	Gray	10 pin	01	Yellow	(DATA)	Trailer module, right of steering column	~
			Parking Light	D2242A	Black	10 pin	01	White/Brown	(MUX)	Parking light switch	~
Σ			Driver door pin	~	~	~	~	Purple	(-)	Harness in driver kick panel	~
RAM	1500 Diesel / 2500 Diesel / 3500 Diesel STD key AT	18	12V	D2664A	Black	06 pin	06	Red	(+)	Ignition connector	~
			Ground	D2664A	Black	06 pin	03	Black	(-)	Ignition connector	~
			Key position	D2664A	Black	06 pin	04	Purple/Brown	(MUX)	Ignition connector	~
			Imo Lin	D2664A	Black	06 pin	05	White/Green	(DATA)	Ignition connector	~
			CanH	~	Gray	10 pin	02	Orange	(DATA)	Trailer module, right of steering column	~
			CanL	~	Gray	10 pin	01	Yellow	(DATA)	Trailer module, right of steering column	~
			Parking Light	D2242A	Black	10 pin	01	White/Brown	(MUX)	Parking light switch	~
			Driver door pin	~	~	~	~	Purple	(-)	Harness in driver kick panel	~
	1500 Classic Diesel STD key AT	19-21	12V	D2664A	Black	06 pin	06	Red	(+)	Ignition connector	~
			Ground	D2664A	Black	06 pin	03	Black	(-)	Ignition connector	~
			Key position	D2664A	Black	06 pin	04	Purple/Brown	(MUX)	Ignition connector	~
			Imo Lin	D2664A	Black	06 pin	05	White/Green	(DATA)	Ignition connector	~
			CanH	~	Gray	10 pin	02	Orange	(DATA)	Trailer module, right of steering column	~
			CanL	~	Gray	10 pin	01	Yellow	(DATA)	Trailer module, right of steering column	~
			Parking Light	D2242A	Black	10 pin	01	White/Brown	(MUX)	Parking light switch	~
			Driver door pin	~	~	~	~	Purple	(-)	Harness in driver kick panel	~

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02



Close driver door. Re-open driver door to wake up data bus.



Press Unlock on OEM remote. If the vehicle is not equipped with an OEM remote, press the module programming button.



Wait, LED will flash GREEN once [1x]. If LED does not flash GREEN, press Unlock on OEM remote again.



Turn key to ON position.



Wait, LED will turn solid RED.



Turn key to OFF position.



07

09

12



Remove key.



Insert key into ignition.



Turn key to ON position.



Wait, LED will flash GREEN.



Turn key to OFF position.



WARNING: Disconnect power last. Disconnect module from vehicle.



Connect module to computer and proceed with extended programming.



WARNING: Do not press module programming button. Connect power first. Connect module to vehicle.



Turn key to ON position.



Wait, LED will turn solid GREEN for 2 seconds.



Turn key to OFF position.



Turn key to START position.

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19



Turn key to OFF position.

20



Module Programming Procedure completed.



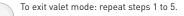






NOTE: In Valet Mode, the Remote starter is not functional. Keyless entry, Lock and Unlock will remain functional. See RF kit user manual for alternate valet mode programming.









Time restriction. Complete next step within 7 seconds.





Cycle ignition ON five times [5x OFF/ON] rapidly.





Wait, LED 1 will turn solid RED for 2 seconds.

04



Set ignition to OFF position.

05



Valet Mode Programming Procedure completed.









It is mandatory to exit the Module Navigation at the end of this procedure. Failure to exit the Module Navigation will drain vehicle battery. To exit the Module Navigation at any time: Follow STEP 13.



Module must be programmed to the vehicle.



Use the Module Navigation Chart on the next page.



Set ignition to OFF position.



TO ACCESS THE MENUS: Press and hold programming button until LED 1 turns solid GREEN.



IN THE MENUS: Press the programming button as many times as the menu number indicates. LED 1 will flash GREEN an equal amount of times continuously.



TO ACCESS THE OPTIONS: Press and hold programming button until LED 1 turns solid

05



IN THE OPTIONS: Press the programming button as many times as the option number indicates. LED 1 will flash RED an equal amount of times continuously.



TO ACCESS THE SETTINGS: Press and hold programming button until LED 1 turns solid GREEN.

07



LED 1 will flash GREEN as many times as the current (or default) setting number, continuously.

08



IN THE SETTINGS: Press the programming button as many times as necessary to access your setting. LÉD 1 will flash GREÉN an equal amount of times continuously.

09



To return to the MENUS: exit the Module Navigation and redo the Module Navigation Procedure.



To save and return to the OPTIONS: Press and hold programming button until LED 1 turns solid RED.



LED 1 will flash RED as many times as the current option number continuously.



Configure every other setting and proceed to step 13.



MANDATORY: EXIT MODULE NAVIGATION. Press and hold programming button for 7 seconds. LED 1 will flash RED rapidly. Release programming button. LED 1 will turn OFF.



Module navigation completed.

>>



Failure to exit the Module Navigation will drain vehicle battery.



SETTINGS [Y] OPTIONS [X] MENUS **MODULE NAVIGATION CHART:** NOTES [Z]Default settings are listed in bold. 01 0FF 01 DISARM/UNLOCK BEFORE START II Make sure the option is covered on the vehicle before 02 ON attempting to change the setting. 0FF 01 02 **RELOCK AFTER START** 02 ON 01 **OFF** 03 **RELOCK AFTER SHUTDOWN** 02 ON 01 OFF 04 FORCE UNLOCK ALL ON FIRST PRESS 02 ON 01 **ENABLE** 05 **TAKEOVER** 02 DISABLE* 01 **45 SEC** 02 90 SEC 06 SECURE TAKEOVER DELAY 03 03 MIN 04 04 MIN 07 N/A 01 N/A 01 03 MIN CONFIGURATION 02 05 MIN 03 10 MIN 15 MIN 08 MODULE RUN TIME 05 25 MIN 06 **30 MIN** 07 **35 MIN 15 MIN** 80 01 02 SEC 02 05 SEC 03 08 SEC 04 10 SEC WAIT TO START DELAY 09 05 15 SEC 06 20 SEC 07 25 SEC 08 30 SEC 10-12 N/A N/A 01

01

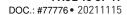
N/A

01

N/A

02-07 Technical Support only

^{*}Vehicle will shutdown when a door is opened.





REMOTE STARTER ERROR CODES: NOTES	[X] NUMBER OF PARKING LIGHT FLASHES	DIAGNOSTIC
I WARNING: The following applies only when the parking	03	Foot brake is ON.
lights are connected and supported by the system.	04	Hood is open.
II After a remote starter failure, the parking lights will flash	05	Engine tach signal is lost.
[X] number times to indicate an error code. See table.	06	System is in Valet Mode.
	07	Vehicle is moving (VSS).
	08	Glow plug timeout error.



	TEST MODULE	LED 1 STATUS	DIAGNOSTIC
		Flashing RED	Missing/wrong information from firmware or vehicle.
	DURING PROGRAMMING	Solid RED	Module waiting for more vehicle information.
1		Flashing GREEN	Additional steps required to complete module programming.
		Solid GREEN then OFF	Module correctly programmed.
		OFF	No activity or module already programmed.
	DURING REMOTE START	Flashing RED	Module incorrectly programmed.
		Solid RED	Module incorrectly programmed.
П		Flashing GREEN	Module correctly programmed and operational.
		Solid GREEN then OFF	Reset in progress.
		OFF	Invalid ground when running status from remote starter.
		Flashing RED	Module incorrectly programmed or connected.
		Solid RED	Module not programmed. Waiting for more vehicle information.
Ш	WITH IGNITION OFF	Flashing GREEN	False ground when running status from remote starter.
		Solid GREEN then OFF	Reset in progress.
		OFF	Module at rest and ready for a remote start sequence.

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Disconnect all connectors from module except the BLACK 4-PIN connector.



Disconnect the BLACK 4-PIN connector.





PRESS AND HOLD programming button while connecting the BLACK 4-PIN connector.





Wait, LED 1 will flash RED. RELEASE programming button.





LED 1 will turn RED for 2 seconds.

06



Module RESET completed.

07



Reconnect all connectors.

08



Repeat programming procedure.

>>



Failure to follow procedure may result with a DTC or a CHECK ENGINE error message.

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All vehicle doors must be closed and locked prior to remote start sequence.



Time restriction. Complete steps 2 to 6 within 45 seconds.

02



Press unlock on OEM or aftermarket remote.



Open driver door and enter vehicle.



Close driver door.



Turn key to ON position.



Press and release BRAKE pedal.

07



Take over procedure completed.

>>



Failure to follow procedure will result in vehicle engine shutdown.



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CHECKLIST 1 WARNING: Vehicle engine will start many times. Test in a well ventilated area. 2 Close all vehicle doors, hood and trunk. Press LOCK button three times [3x] rapidly on the OEM keyfob to remote start vehicle. 3 Question 1: Does the vehicle remote start? YES: Go to next step. П NO: The module doesn't detect OEM remote lock button from the vehicle communication network. Check all connections, repeat the test and call technical support, if the problem persists. 4 Press LOCK button three times [3x] rapidly on the OEM keyfob to shut down vehicle. Question 2: Does the vehicle shut down? YES: Go to next step. NO: Repeat step. If the problem persists, press on the brake pedal once [1x] to shut down the vehicle and call technical support. 5 RAP Shutdown test Question 3: Did the radio, interior controls, and headlights turn off within 60 seconds after remote start shutdown? П YES: Go to next step. NO: Verify the RAP SHUTDOWN connections as illustrated in the wiring diagram. Repeat the test and call technical support, if the problem persists. Open hood. 7 If not already installed, affix the mandatory orange warning sticker under the hood and proceed to next step. Press LOCK button three times [3x] rapidly on the OEM keyfob to remote start vehicle. Question 4: Does the vehicle remote start? YES: The vehicle is not equipped with a factory hood pin. Install a mandatory aftermarket hood switch, then repeat the test. NO: Go to next step. 9 Close hood. 10 Enter vehicle and close the doors. Press LOCK button three times [3x] rapidly on the OEM keyfob to remote start vehicle. 11 Wait for the vehicle to start. 12 13 Press brake pedal. Question 5: Does the vehicle shut down? YES: Go to next step. П П NO: The module does NOT detect the brake pedal signal. Press LOCK button three times [3x] rapidly on the OEM keyfob to shut down, check the brake connection as illustrated in the wiring diagram, if applicable, and call technical support. 14 Exit vehicle. 15 Installation checklist completed.