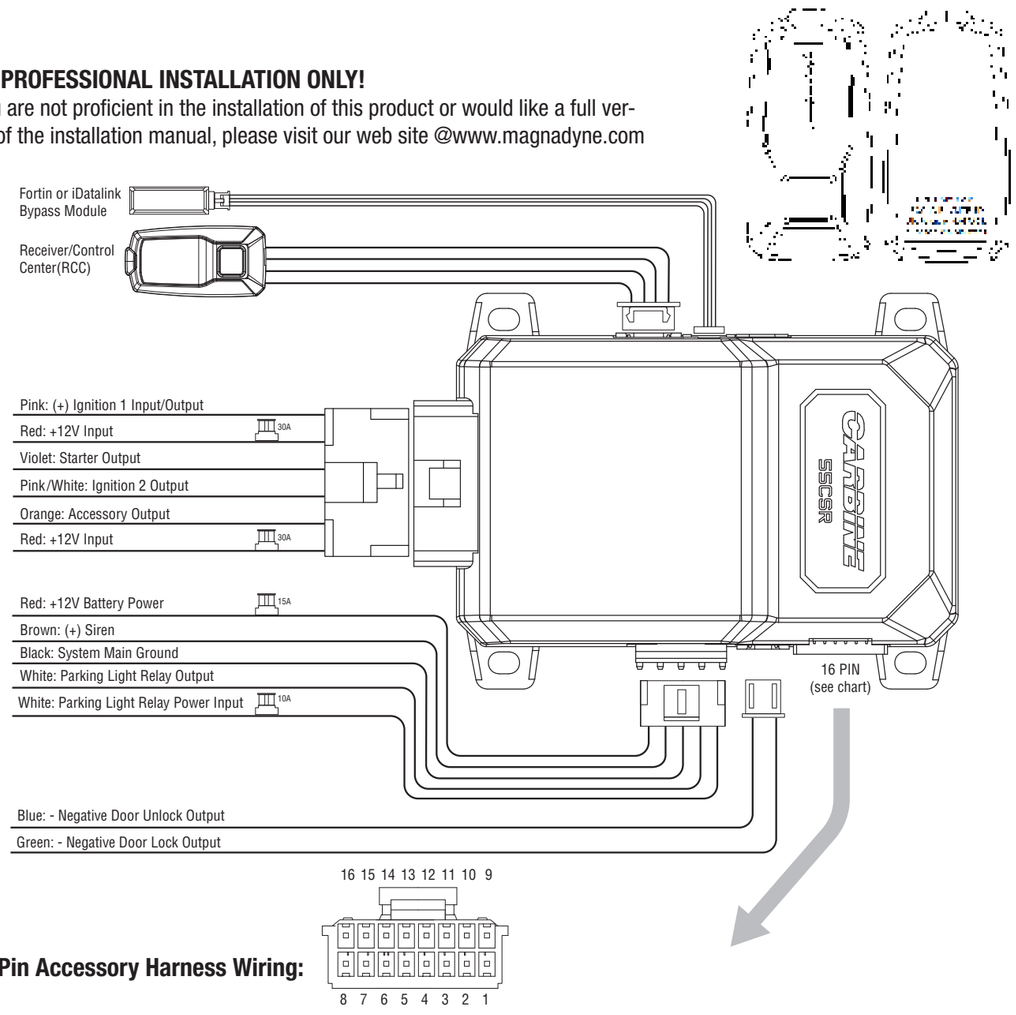
CARBINE® 55CSR

REMOTE START with SECURITY & KEYLESS ENTRY SYSTEM

Quick Reference Install Guide

FOR PROFESSIONAL INSTALLATION ONLY!
If you are not proficient in the installation of this product or would like a full version of the installation manual, please visit our web site @www.magnadyne.com



16 Pin Accessory Harness Wiring:

Pin	Color	Function	Pin	Color	Function
1	Green/White	(-) Factory Alarm Re-Arm Output	9	Orange	(-) GND When Armed/Lock
2	Gray	(-) Hood Pin Safety Input	10	Red/White	(-) Channel 3 Output (Trunk)
3	Black/White	(-) Parking Brake Input	11	Lt. Purple/Yellow	(-) Starter Output
4	Blue	(-) Trunk Trigger	12	Lt. Green/Black	(-) Factory Alarm Disarm Output
5	Brown	(+) Vehicle Brake Safety Input	13	Brown/Black	(-) Horn
6	Green	(-) Door	14	Dk. Blue	Ground While Running
7	Violet	(+) Door	15	Orange/White	(-) Accessory Output
8	Lt. Violet/White	Tach Input (AC)	16	Pink	(-) Ignition Output

Mounting the Receiver/Control Center (RCC):

1. Choose a location on the upper or sides of the vehicle windshield. A higher location is best.
2. Remove the backing liner from the mounting tape on the backside of the RCC and stick it to the windshield glass.
3. Route the RCC cable to the location of the control module.

Programming System Features:
All CARBINE remote start systems have a menu of features that can be programmed to suit the installation requirements of any vehicle. These features can be set by using the RCC button Feature Programming procedure or by Windows PC programming and the CARBINE web app.

Feature Programming by RCC Button

1. Open the driver's door.
2. Turn the ignition key ON then OFF.
3. Within 5 seconds, press and hold the RCC button to select the menu.

- A single chirp indicates Menu #1.
- Hold the button longer for two chirps. You are in menu #2.
- Continue holding the RCC button for three chirps. You are in menu #3.

4. When the desired menu is reached, release the RCC button.
5. Within 5 seconds, press and release the RCC button the number of times corresponding to the feature you want to change then press and hold the button once more to lock the feature. The siren / horn will chirp to match the feature selected. Release the RCC button.

Note: RCC switch pushes are sequential. For example, if you start at feature #1, then push and release the valet switch 2 more times, you will be at feature #3 and so on. Always remember to push and hold the valet switch one more time after each selection to lock the feature before using the transmitter to change the setting.

6. Use the 🔒 or 🔓 buttons on the CARBINE remote to adjust the feature.
7. For features with only two options, the 🔒 = 1 Chirp setting, while the 🔓 = 2 Chirp setting.
8. For features with more than two settings, the 🔓 button selects the settings in ascending order. Press and release the 🔓 button as many times necessary to adjust the feature.
9. The horn/siren will chirp indicating which setting is selected.
10. Turn the ignition key to ON to exit feature programming.

Menu #1 (Default in Bold)

Item	Feature	Chirps								
		1	2	3	4	5	6	7	8	9
1	Data Protocol	**ADS**	Fortin							
2	Confirmation Chirps	**On**	Off							
3	System Arming	**Active**	Passive							
4	Door Locking Mode	**Active**	Passive							
5	Forced Passive Arming	**On**	Off							
6	Ignition Key Controlled Locking	**Off**	On							
7	Ignition Key Controlled Unlocking	**Off**	On							
8	Panic with Ignition On	**Off**	On							
9	Armed While Driving	**Off**	On							
10	Door Lock Pulse	**0.8 sec**	3.5 sec	0.4 Sec						
11	Horn Output	**20 ms**	30 ms	40 ms	50 ms	Panic Only				
12	Comfort Closure	**Off**	CC1	CC2						
13	Tilt Sensor Adjust	**3***	1.5*	Off						

Menu #2 (Default in Bold)

Item	Feature	Chirps								
		1	2	3	4	5	6	7	8	9
1	Progressive Door Trigger	**On**	Off							
2	Nuisance Prevention Circuit	**On**	Off							
3	Valet Switch Pulse Count for Override	**1 Pulse**	2 Pulses	3 Pulses	4 Pulses	5 Pulses				
4	Door Trigger Error Chirp	**On**	Off							
5	Double Pulse Lock	**Off**	On							
6	Double Pulse Unlock	**Off**	On							
7	Siren Duration	**30 sec**	60 sec							
8	Factory Alarm Disarm with Trunk Release	**On**	Off							
9	Factory Alarm Disarm Pulse	**Single**	Double							
10	Factory Alarm Disarm	**With Unlock**	Before Unlock	Remote Start Only						

Menu #3 (Default in Bold)

Item	Feature	Chirps								
		1	2	3	4	5	6	7	8	9
1	Transmission Type	**Automatic**	Manual							
2	Engine Checking Mode	**Wireless Tach**	Voltage	Wired Tach	0ff					
3	Cranking Duration	**0.6 Sec**	0.8 sec	1.0 sec	1.2 sec	1.4 sec	1.6 sec	1.8 sec	2.0 sec	4.0 sec
4	Remote Start Run Time	**12 Minutes**	24 Minutes	60 Minutes						
5	Diesel Start Delay	**0ff**	Timer 15 sec	Timer 35 sec	Timer 45 sec					
6	ACC Output During Diesel Wait to Start	**Off**	On							
7	2nd Ignition Behavior	**Ignition 1**	Accessory							
8	Parking Light Behavior	**Constant**	Flashing							
9	Timer Mode Run Time	**12 Minutes**	3 Minutes	6 Minutes	9 Minutes					
10	Turbo Timer Run Time	**1 Minute**	3 Minutes	5 Minutes	10 Minutes					

Access another feature within the same menu

1. Press and release the RCC Button the number of times to advance from the last feature programmed to the next feature to be programmed.
2. Press the RCC button and hold it.
3. Use the CARBINE remote and follow steps 5 or 6 above to adjust the feature.

Access another menu

1. Press and hold the RCC Button
2. After 3 seconds, the system will advance to the next menu and conform with chirps and LED flashes.

Exiting the feature program mode

1. Set the ignition key to ON. A long confirmation chirp will be hear if a horn or siren is connected.
2. Automatic after 30 seconds with no input from the RCC button (long chirp).
3. The RCC button has been press too many times (long chirp).

Feature Programming by PC/App

1. A windows computer with internet support is required. The APP supports Windows 7 (sp1) thru Windows 10 (Apple/Mac computers are not supported)
2. The programming adaptor model #ALA-21P is required
3. Follow the instructions provided with the ALA-21P accessory.

Engine Checking Mode:

The engine checking mode on all CARBINE remote start systems is set at "Wireless Tach" by default. Once all the wiring is complete and correct, the engine can be remote started without any other changes.

Engine type, Extreme weather etc. may require a more defined type of engine checking for reliable operation. Use the information enclosed to setup alternate engine checking modes.

Wireless Tach Learning

1. After the installation is completed, use the CARBINE key fob and initiate the remote start sequence.
2. If the engine does not start on the first attempt, let the CARBINE module cycle and attempt to start the engine again. Up to (3) cranking attempts may be needed to start and run the engine.
3. When the engine starts and runs, let it run for at least 30 seconds.
4. Use the CARBINE key fob to shut down the engine. Wireless Tach is programmed.

Hardwire Tach or Data Tach

- Hardwire Tach requires the Lt.Violet/White wire to be connected to a fuel injector wire or a coil wire.
- Check the data bypass module spec to make sure it will provide a data tach signal. Additional pre-programming of the data module may be required. Refer to the data module instructions.

To learn the tach signal

1. Start the vehicle with the key.
2. Within 5 seconds, press and hold the valet button on the RCC.
3. Once the tach signal is learned, the blue LED on the RCC will light or flash.

- When tach learning from a hardwire connection, the parking lights will flash one time
- When tach learning via the data module, the parking lights will flash two times.

Note: Depending on the data bypass module used, you may have to put the bypass module into tach learning mode first before performing the above procedure. Review the instructions of the data bypass module before proceeding.

Pairing a Remote Controller:

Your CARBINE system remote controls are already paired to the control module. If you are replacing or adding remotes to your system, they must be programmed (paired) to the control module before they will operate the system. In order to perform remote control pairing, you must know where your "Valet Button is located as you will use the button and the LED indicator to perform the pairing function.

Remote Pairing Procedure

1. Open the driver's door.
2. Insert the ignition key into the key cylinder. Turn ON the ignition key.
3. Press and **release** the valet button then press and **hold** the valet button for 1.5 seconds. The LED flashes and the horn/siren chirps (if connected). Release the valet button. The system is now in pairing mode and will stay in Pairing mode for 60 seconds.
5. Press and **hold** the 🔒 button on the new remote control.
6. Press and **release** the ✱ button 5 times.

A. The LED on a 4 button transmitter will begin to flash slowly.

B. The word (PAir) will be displayed in the clock area of a 5 button LCD transmitter. The remote will remain in this state for 15 seconds.

7. Press and **release** the 🔒 button on the new transmitter. The horn/siren chirps 1 long chirp. The new remote is programmed.
8. Turn the ignition key to the Off position. A long chirp from the horn confirms that the pairing mode is off.

Note: Your CARBINE security system will accept codes from up to (4) transmitters.

Remote Start Shutdown Diagnostics

If the remote starter activates but the engine fails to remain running, a diagnostic procedure can be run to try and determine where the fault in the system is.

To Perform Shutdown Diagnostics

1. With the ignition key **Off**, press and hold the RCC button.
2. While holding the RCC button, turn the ignition key **On** then **Off**.
3. Release the RCC button.
4. Press and release the RCC button one time.

The RCC LED will report the last shutdown reason for 1 minute or until the ignition key is turned **On** again. Compare the LED flashes to the chart below.

Status LED Flashes	Reason for Shutdown
1	Over-Rev Shutdown
2	Runtime Expired
3	Shutdown by Transmitter (or Optional Push button)
4	Low or No RPM Detection
5	Hood Open Shutdown
6	(+) Brake Shutdown
7	(-) Parking Brake Shutdown
9	Low Vehicle Battery (Voltage Checking Mode Only)
10	Wait-to-Start
11	Alarm Trigger During Remote Start

Programming the Digital Shock Sensor:

Follow the enclosed procedure to set the sensitivity of the digital shock sensor.

Note: The pre-warning sensitivity adjusts in proportion to the shock sensitivity.

1. Set the system in disarmed mode.
2. Turn the ignition key ON/OFF 3 times (ending in off).
3. Within 5 seconds, press 🔒 + ✱ buttons together for 2 seconds. The horn/siren will emit (1) long chirp to indicate you are in Shock Sensor Sensitivity Adjustment Mode.
4. To increase sensitivity, press the 🔒 button. Each time you press the 🔒 button you will hear (1) chirp. When you reach the MAX level adjustment, you will hear 1 short + 1 long chirp.
5. To decrease sensitivity, press the 🔒 button. Each time you press the 🔒 button you will hear (2) chirps. When you reach the MIN level adjustment, you will hear 2 short + 1 long chirp.
6. The shock sensor has 20 steps available for adjustment. The default setting is 10.
7. To return the shock sensor back to it's default setting, press and release the ✱ button. You will hear 3 chirps.
8. During the process you can test by knocking: 1short chirp - prewarn; 1 Long chirp - TRIGGER

To exit the Shock Sensor Sensitivity Adjustment Mode, turn the ignition key on. You will hear 3 long chirps.

Reset and Deletion

If the programmable features need to be reset to default or the Wireless Tach feature needs to be reset for re-programming, follow the enclosed procedure.

1. Open the drivers door.
2. Turn the ignition key to the ON position
3. Within 5 seconds, press and release the RCC button the number of times required below to perform the task.

- Press and release the RCC button **two** times to delete all of the programmed remote controls.
- Press and release the RCC button **three** times to delete all features programming back to their default settings.

Note: This procedure does not erase Wireless Tach information.

- Press and release the RCC button **four** times to erase all pre-learned Wireless Tach information.

4. Once you have selected the function you want to perform, press and **hold** the RCC button. The RCC LED will flash and the horn will chirp (if connected) to confirm the functional step chosen. **Do Not** release the button.
5. Press and release the 🔒 button of a programmed remote. The horn will chirp to confirm the feature has been reset/deleted.
6. Release the RCC button and turn off the ignition key. The horn will chirp (if connected) to confirm exit.

Magnadyne Corporation

1111 W. Victoria Street Compton CA 90210 (310) 735-2000

For Warranty Information: Please Visit Our Website at www.magnadyne.com

IM_QS-55CSR