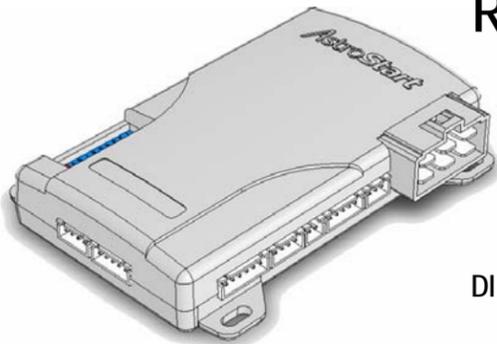


2-WAY
REMOTE CONTROL ENGINE STARTER



INSTALLATION MANUAL

MODELS RS-623
RS-711XR



DESIGNED
FOR ALL
HYBRID,
GAS- AND
DIESEL-POWERED
AUTOMOBILES

 THIS PRODUCT MUST BE INSTALLED BY QUALIFIED PERSONNEL. WHEN THIS PRODUCT IS INSTALLED ON A VEHICLE WITH MANUAL TRANSMISSION, THE INSTALLATION MUST INCLUDE A MANUAL INTERFACE (SOLD SEPARATELY - No. RS-MI).

NOTICE TO INSTALLERS!

The control module in this kit must be installed according to the type of vehicle on which it is to be used. It is delivered in "Manual" mode, with factory programming: see programming level 16.



Please read the following warnings before proceeding with installation!



WARNING!
INSTALLATION ON VEHICLE WITH AUTOMATIC TRANSMISSION:

When set to "Automatic" mode, the control module does not take gearshift lever position into account when remote starting, as this function is factory-installed on most new vehicles.

 To ensure safe installation of this product, check the following:

1. Ensure that vehicle cannot be remote started while in gear.
2. Also ensure that gearshift lever cannot be moved out of "Park" position without depressing brake pedal.

If engine can be started while transmission is in gear or gearshift lever can be moved out of "Park" position without depressing brake pedal, call our Technical Support Department at 1-800-461-8223.

A TECHNICAL ADVISOR WILL GIVE YOU AN APPROPRIATE, SAFE SOLUTION FOR THE MAKE AND MODEL OF VEHICLE YOU ARE WORKING ON.

WARNING!
INSTALLATION ON VEHICLE WITH MANUAL TRANSMISSION:



When set to "Manual" mode, the control module does not take gearshift lever position into account when remote starting. It is designed to require the user to ensure the gearshift lever is in "neutral" position to enable reception of a start command.

 To ensure safe installation of this product, check the following:

3. Ensure that **all** vehicle door pinswitches are operational and parking brake is functional (i.e. capable of immobilizing vehicle).
4. When installation is complete, check the doors and the hatchback (by opening each one individually) to ensure that opening any of them interrupts the safety sequence which allows the system to perform a remote start.
5. Ensure that it is **impossible** to access the vehicle gearshift lever without opening a door or the hatchback.

For convertible vehicles, it is strongly recommended to add a (microwave) motion detector to prevent remote start if activity is detected near the gearshift lever.

6. Be sure to give user manual to customer.
7. Be sure to affix the two warning stickers in the appropriate locations:
 - the smaller one must be visible on the driver's side window;
 - the other must be affixed near the hood latch.
8. Be sure to hang the "For your safety" card from rear-view mirror.

If gearshift lever can be accessed without opening any door, or if any door (no matter which one) can be opened without interrupting the safety sequence, call our Technical Support Department toll-free at 1-800-461-8223.

A TECHNICAL ADVISOR WILL GIVE YOU AN APPROPRIATE, SAFE SOLUTION FOR THE MAKE AND MODEL OF VEHICLE YOU ARE WORKING ON.

DIAGNOSTIC CODES

Code	Reason for interruption
1	Engine stop signal sent by remote control / pulse input.
2	Engine stop signal sent by depressing brake pedal.
4	No tach reading (RPM). Note: If the engine is not running during a start cycle, it is normal for no tach signal to be generated. This situation may arise if the vehicle is equipped with an immobilization system (anti-theft); ensure that any such system is suitably interfaced.
5	Hood open.
6	Engine stop signal sent by manual interface (invalid sequence).
7	Ignition key already in "ON" position.
8	Main switch "OFF".
9	Runtime elapsed.
10	Failure to start after three attempts. Note: If the engine starts and then suddenly stops during a start cycle, the vehicle may be equipped with an immobilization system (anti-theft); ensure that any such system is suitable interfaced.
11	Tach signal already detected during start attempt.
12	RPM above 3400. Note: May be due to number of cylinders incorrectly set.
13	RPM below idle speed. Note: May be due to number of cylinders incorrectly set.
14	Safety sequence interrupted by parking brake.
15	Safety sequence interrupted by door being opened.
16	Internal failure.
17	Module programmed via receiver connector (MultiTest II).
18	Power supply below 8VDC or above 15VDC or system improperly grounded.
19	Manual interface incorrectly connected to remote start module.
20	Set to "Manual Transmission" mode by system.
21	System reset.

SAFETY SEQUENCE NOT ACCEPTED

If the control module refuses to validate the safety sequence, note that the code must be read **before** the brakes are applied or a start command is emitted, as these actions will replace the existing code by a code "6" and you will have no indication of the reason for the failure to start.

If no code is generated, the manual interface may be the cause for one of the following reasons:

- A door was open.
- The parking brake had not been applied.
- The engine was not running at the time of the sequence (no power to ignition or no tachometer signal detected).



188 ST-FRANÇOIS XAVIER
DELSON, QUEBEC J5B 1X9

MORE DETAILED INFORMATION CAN BE FOUND IN THE "DEALER" SECTION OF OUR WEBSITE
WWW.ASTROFLEX.COM/DEALER
AND IN THE ASTROCHART PROGRAM

PROGRAMMING CHARTS

TRANSMITTER CODE LEARNING									
LEVEL 1									
INITIAL PROGRAMMING (RESET)	↓	↓	↑	↓	↓	↓	↓	↓	↓
TRANSMITTER CODE LEARNING	↓	↓	↓	↑	↓	↓	↓	↓	↓
NORMAL OPERATION	↓	↓	↓	↓	↓	↓	↓	↓	↓
TACHOMETER SIGNAL									
LEVEL 2									
NUMBER OF CYLINDERS PER TACHOMETER CIRCUIT	↓	↓	↓	↓	↓	↓	↓	↓	↓
1 CYLINDER	↓	↓	↓	↓	↓	↓	↓	↓	↓
2 CYLINDERS	↑	↓	↓	↓	↓	↓	↓	↓	↓
3-4 CYLINDERS	↓	↑	↓	↓	↓	↓	↓	↓	↓
5-6 CYLINDERS	↑	↑	↓	↓	↓	↓	↓	↓	↓
8 CYLINDERS	↓	↓	↑	↓	↓	↓	↓	↓	↓
10 CYLINDERS	↑	↓	↑	↓	↓	↓	↓	↓	↓
12 CYLINDERS	↓	↓	↑	↑	↓	↓	↓	↓	↓
NO-SIGNAL (TACHLESS) MODE	↑	↑	↑	↓	↓	↓	↓	↓	↓
STARTER DISENGAGE									
800 RPM (TACHLESS TYPE 1)	↓	↓	↓	↓	↓	↓	↓	↓	↓
500 RPM (TACHLESS TYPE 2)	↓	↓	↓	↓	↓	↓	↓	↓	↓
500 RPM (TACHLESS TYPE 3)	↓	↓	↓	↓	↓	↓	↓	↓	↓
800 RPM (TACHLESS HYBRID)	↑	↑	↑	↓	↓	↓	↓	↓	↓
ENGINE CONFIGURATION									
LEVEL 3									
ENGINE TYPE	↓	↓	↓	↓	↓	↓	↓	↓	↓
GASOLINE	↓	↓	↓	↓	↓	↓	↓	↓	↓
DIESEL	↑	↓	↓	↓	↓	↓	↓	↓	↓
GLOW PLUGS DELAY (DIESEL ONLY)									
15 SEC.	↓	↓	↓	↓	↓	↓	↓	↓	↓
30 SEC.	↑	↓	↓	↓	↓	↓	↓	↓	↓
GLOW PLUG POLARITY									
POSITIVE CIRCUIT	↓	↓	↓	↓	↓	↓	↓	↓	↓
NEGATIVE CIRCUIT	↑	↓	↓	↓	↓	↓	↓	↓	↓
RUNTIME									
GASOLINE ↓ DIESEL ↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
2 MIN. 4 MIN.	↓	↓	↓	↓	↓	↓	↓	↓	↓
4 MIN. 8 MIN.	↓	↓	↓	↓	↓	↓	↓	↓	↓
8 MIN. 16 MIN.	↓	↓	↓	↓	↓	↓	↓	↓	↓
18 MIN. 36 MIN.	↑	↓	↓	↓	↓	↓	↓	↓	↓
ORIGINAL ALARM - DOME LIGHT - ANTITHEFT									
LEVEL 4									
OEM SECURITY SYSTEM REARMING									
DISABLED	↓	↓	↓	↓	↓	↓	↓	↓	↓
TYPE 1	↑	↓	↓	↓	↓	↓	↓	↓	↓
TYPE 2	↑	↑	↓	↓	↓	↓	↓	↓	↓
DOME LIGHT									
DISABLED	↓	↓	↓	↓	↓	↓	↓	↓	↓
ENABLED	↓	↓	↓	↓	↓	↓	↓	↓	↓
ANTITHEFT SYSTEM									
DISABLED	↓	↓	↓	↓	↓	↓	↓	↓	↓
PASSIVE	↓	↓	↓	↓	↓	↓	↓	↓	↓
ACTIVE	↑	↑	↓	↓	↓	↓	↓	↓	↓

PROGRAMMABLE OUTPUT #1 H3-4 - BROWN									
LEVEL 5									
PROGRAMMABLE OUTPUT #2 H3-3 - WHITE/BLUE									
LEVEL 6									
PROGRAMMABLE OUTPUT #3 H3-2 - WHITE									
LEVEL 7									
PROGRAMMABLE OUTPUT #4 H3-1 - VIOLET									
LEVEL 8									
PROGRAMMABLE FUNCTION RELAY H11									
LEVEL 9									
ACCESSORY CIRCUIT RELAY H1 - YELLOW WIRE									
LEVEL 10									
PARKING LIGHT CIRCUIT RELAY H1 - GREEN WIRE									
LEVEL 11									
DEFAULT OPTION LEVEL	↓	↓	↓	↓	↓	↓	↓	↓	↓
PARKING LIGHTS	11	↓	↓	↓	↓	↓	↓	↓	↓
MANUAL SEQUENCE VALID STATUS (LEVELS 5, 6, 7 AND 8)	↓	↑	↑	↑	↑	↓	↓	↓	↓
ACTIVATED WHILE RUNNING	9	↓	↓	↑	↓	↓	↓	↓	↓
IGNITION	↓	↓	↓	↓	↑	↑	↑	↓	↓
PULSE BEFORE START / UNLOCK	5	↓	↓	↓	↓	↓	↓	↓	↓
START	↓	↓	↓	↓	↓	↓	↓	↓	↑
ACTIVATED 5 SEC. WHILE RUNNING	↓	↑	↑	↑	↓	↓	↓	↓	↓
ACCESSORIES	10	↓	↑	↑	↑	↓	↓	↓	↓
PULSE AFTER STOP / LOCK	6	↓	↑	↑	↓	↓	↓	↓	↓
UNLOCK 1ST TX	↑	↓	↓	↓	↓	↓	↓	↓	↓
UNLOCK 2ND TX	↑	↑	↑	↓	↓	↓	↓	↓	↓
2ND UNLOCK	↓	↑	↑	↓	↓	↓	↓	↓	↓
TRUNK RELEASE	7	↓	↑	↓	↓	↓	↓	↓	↑
HORN	↓	↓	↓	↓	↑	↑	↑	↑	↑
DOME LIGHT	8	↓	↑	↑	↑	↓	↓	↓	↓
PANIC STATUS	↑	↓	↑	↑	↓	↓	↓	↓	↓
REAR WINDOW DEFOGGER	↑	↑	↑	↑	↓	↓	↓	↓	↓
UTILITY 1	↓	↑	↑	↑	↑	↓	↓	↓	↓
UTILITY 2	↓	↓	↓	↓	↑	↑	↑	↑	↑
UTILITY 3	↑	↓	↓	↓	↓	↓	↓	↓	↓
UTILITY 4	↑	↑	↓	↓	↓	↓	↓	↓	↓

DOOR LOCK OPTIONS									
LEVEL 12									
PULSE BEFORE START ON UNLOCK OUTPUT									
DISABLED	↓	↓	↓	↓	↓	↓	↓	↓	↓
ENABLED	↑	↓	↓	↓	↓	↓	↓	↓	↓
PULSE AFTER START ON LOCK OUTPUT									
DISABLED	↓	↓	↓	↓	↓	↓	↓	↓	↓
ENABLED	↑	↓	↓	↓	↓	↓	↓	↓	↓
DOOR UN/LOCK PULSE DURATION									
0.7 SECOND	↓	↓	↓	↓	↓	↓	↓	↓	↓
2.8 SECONDS	↓	↓	↓	↓	↓	↓	↓	↓	↑
AUTOMATIC DOOR UN/LOCKING									
DISABLED	↓	↓	↓	↓	↓	↓	↓	↓	↓
ENABLED	↓	↓	↓	↓	↓	↓	↓	↓	↑
UNLOCK PULSE TYPE									
SINGLE	↓	↓	↓	↓	↓	↓	↓	↓	↓
DOUBLE	↓	↓	↓	↓	↓	↓	↓	↓	↑
DURATION OF UTILITY OUTPUTS 1 & 2									
LEVEL 13									
UTILITY 1									
0.7 SECOND	↓	↓	↓	↓	↓	↓	↓	↓	↓
15 SECONDS	↓	↓	↓	↓	↓	↓	↓	↓	↓
1 MINUTE	↓	↓	↓	↓	↓	↓	↓	↓	↑
8 MINUTES	↓	↓	↓	↓	↓	↓	↓	↓	↑
UTILITY 2									
0.7 SECOND	↓	↓	↓	↓	↓	↓	↓	↓	↓
15 SECONDS	↓	↓	↓	↓	↓	↓	↓	↓	↓
1 MINUTE	↓	↓	↓	↓	↓	↓	↓	↓	↑
8 MINUTES	↓	↓	↓	↓	↓	↓	↓	↓	↑
REAR WINDOW DEFOGGER									
0.7 SECOND	↓	↓	↓	↓	↓	↓	↓	↓	↓
8 MINUTES	↓	↓	↓	↓	↓	↓	↓	↓	↑
MISCELLANEOUS									
LEVEL 14									
ENGINE OVER-REV DETECTION									
DISABLED	↓	↓	↓	↓	↓	↓	↓	↓	↓
ENABLED	↑	↓	↓	↓	↓	↓	↓	↓	↓
HOOD SWITCH TYPE									
NORMALLY CLOSED	↓	↓	↓	↓	↓	↓	↓	↓	↓
NORMALLY OPEN	↓	↓	↓	↓	↓	↓	↓	↓	↑
PULSE BEFORE ON TRUNK RELEASE COMMAND									
DISABLED	↓	↓	↓	↓	↓	↓	↓	↓	↓
ENABLED	↓	↓	↓	↓	↓	↓	↓	↓	↑
COMMUNICATION PROTOCOL - ASTROLINK PORT									
DISABLED	↓	↓	↓	↓	↓	↓	↓	↓	↓
DATA TO DATA	↓	↓	↓	↓	↓	↓	↓	↓	↑

SENTINEL - HORN CONFIRMATIONS									
LEVEL 15									
HORN CONFIRMATION PULSE									
DISABLED	↓	↓	↓	↓	↓	↓	↓	↓	↓
LONG (73 MS)	↑	↑	↓	↓	↓	↓	↓	↓	↓
MEDIUM (35 MS)	↑	↑	↓	↓	↓	↓	↓	↓	↓
SHORT (20 MS)	↓	↑	↓	↓	↓	↓	↓	↓	↓
CONFIRMATION ON 2ND COMMAND									
DISABLED	↓	↓	↓	↓	↓	↓	↓	↓	↓
ENABLED	↓	↓	↓	↓	↓	↓	↓	↓	↑
SENTINEL MODE THRESHOLD TEMPERATURE									
-5°C (23°F)	↓	↓	↓	↓	↓	↓	↓	↓	↑
-15°C (5°F)	↓	↓	↓	↓	↓	↓	↓	↓	↑
-20°C (-4°F)	↓	↓	↓	↓	↓	↓	↓	↓	↓
-30°C (-22°F)	↓	↓	↓	↓	↓	↓	↓	↓	↑

VEHICLE TYPE - SAFETY SEQUENCE									
LEVEL 16									
TURBO MODE									
DISABLED	↓	↓	↓	↓	↓	↓	↓	↓	↓
1 MINUTE	↑	↓	↓	↓	↓	↓	↓	↓	↓
2 MINUTES	↑	↑	↓	↓	↓	↓	↓	↓	↓
VEHICLE TYPE									
MANUAL TRANSMISSION	↓	↓	↓	↓	↓	↓	↓	↓	↓
AUTOMATIC TRANSMISSION	↓	↓	↓	↓	↓	↓	↓	↓	↑
SAFETY SEQUENCE ACTIVATION									
2 PARKING BRAKE ACTIVATION	↓	↓	↓	↓	↓	↓	↓	↓	↓
1 PARKING BRAKE ACTIVATION	↓	↓	↓	↓	↓	↓	↓	↓	↑
INITIALIZED BY TX - END BY TX	↓	↓	↓	↓	↓	↓	↓	↓	↑
INITIALIZED BY TX - END BY CLOSING DOOR	↓	↓	↓	↓	↓	↓	↓	↓	↑

