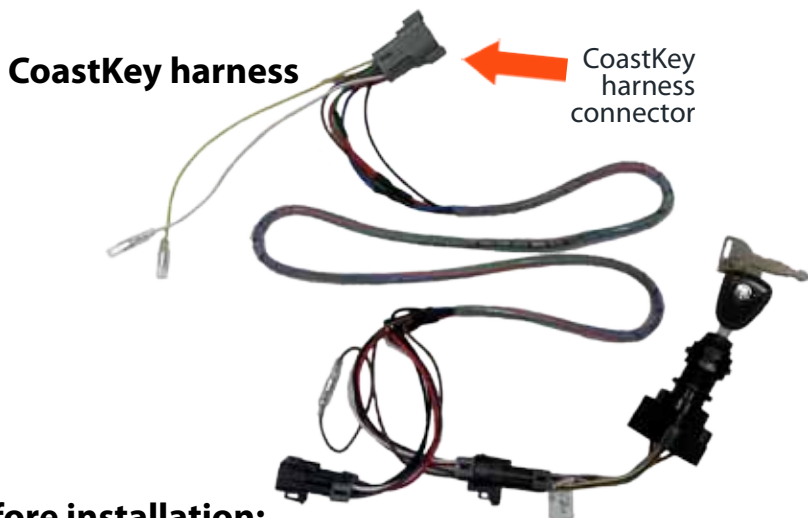




Mercury / MerCruiser SmartCraft - Plug & Play
INSTALLATION GUIDE
Revision 2.6 - English version



Checklist before installation:

- Read the installation guide and user manual before installing the CoastKey system.
- Check that the engine(s) functions and operates normally before installation.
- The CoastKey system shall not be installed in an explosive environment.
- The CoastKey system and design may not be changed or tampered with.
- The system should only be used for its original purpose and only installed as per the directions in this Installation Guide.
- Familiarise yourself with the national safety rules and regulations in your region to avoid a breach of these rules and help prevent accidents.
- The installation of the lock unit is permitted only in areas that are protected against water intrusion.
- The lock unit shall be installed on a fiberglass, wood, plastic, glass or other non-conductive surface. The lock unit must not be attached to carbon, cables, wire or other metal surfaces as this leads to loss of signal strength, which will affect the radio communication between the key and lock unit. Strong electromagnetic fields may also affect the system. Locating the lock unit in the immediate vicinity of conductive cables and any radio devices such as VHF, radar, etc. should also be avoided.
- To achieve optimal radio and signal conditions, it is recommended to install the lock unit as high as possible in the boat (at least 70 cm above the waterline).
- Ensure that the lock unit is secure and stable, so it is easy to operate the push button. Clean the attachment point with acetone or a similar cleaning fluid before the supplied Velcro strip is attached.
- Other wireless systems that use the same frequency (In Europe: 433 MHz), such as a remote controlled anchor winch or bow thruster, can affect the operational stability of the CoastKey system.
- The distance between the installation point of the lock unit and the pilot's usual position should be as short as possible and not exceed a radius of 1.5 meters.
- In a dual installation the lock units should be placed at least 30 cm apart.
- For security reasons, the power supply to the lock unit(s) is to be connected through a main power switch.
- Maximum system load is 10 amps. (Check current draw when connecting to external systems like anchor winch etc.)
- Remember to complete the Test and Safety Form in this guide.

Installation procedure:

1. General

Make sure the battery terminals, the main power switch and all common connection points are free of corrosion and that there are no loose connections. Check that the engine(s), tilt and any other devices that CoastKey will be connected to, are functioning normally before starting the installation. The main switch must be switched off during the installation.

2. Key switch and connections

There is no need to make changes to the existing ignition lock. The wiring from the ignition key switch (see Figure 1) ends in a 6-pin connector mating to the engine's main harness.

Figur 1:



The connectors are disconnected and the corresponding connectors on CoastKey's harness are connected between them to form a T-connection. (see Figure 2)

Figur 2:

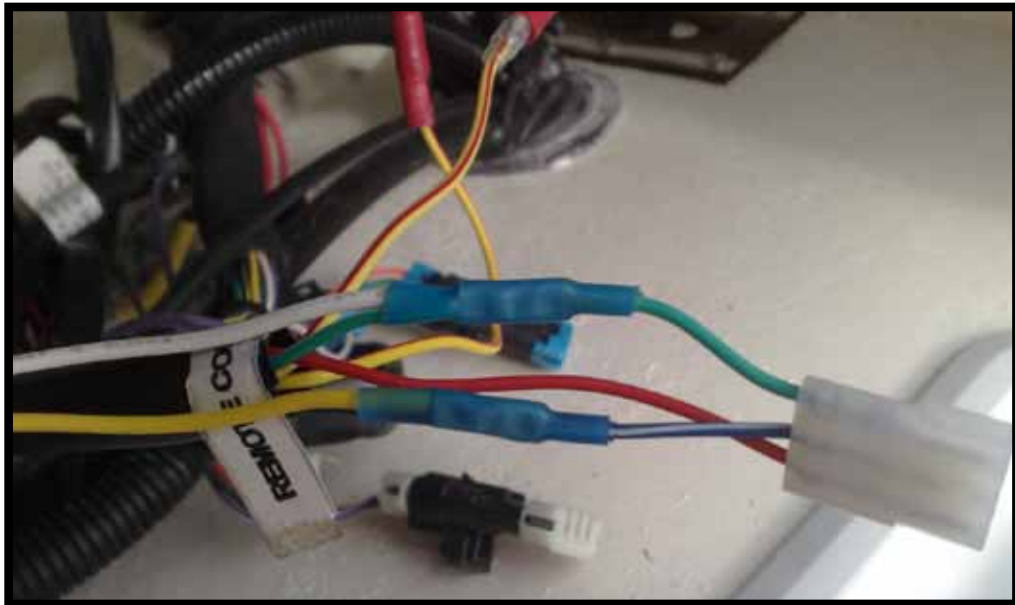


If you want to use the trim/tilt option, perform the following procedure:

Locate the blue wire with white stripe coming from the trim/tilt switch normally located in the remote control lever. Cut the wire and strip both ends. Splice the two ends to the yellow wire in the CoastKey's harness.

Locate the green wire with white stripe coming from the trim/tilt switch normally located in the remote control lever. Cut the wire and strip both ends. Splice the two ends to the white wire in the CoastKey's harness. (See Figure 3)

Re-connect the trim/tilt connector if it was disconnected during the work.

Figur 3:

3. The lock unit

Clean the surface where the lock unit is to be placed with acetone or similar, and place it according to the guideline in "Installation checklist" located on page 2. Plug the lock unit into CoastKey's harness.

4. Test and Safety

Secure CoastKey's harness and other loose wires with cable ties. Turn on the main switch and complete the "Test and Safety Form" on the next page before you use the boat for the first time.

Note:

If the boat is equipped with two engines, repeat the above installation procedure for engine No. 2

5. Electrical circuit color codes

Mercury Plug & Play			
Signal function of the lock unit	Color on the lock unit cable	Color on the ignition / control lever	Signal function engine
12VDC	Red	Red	12VDC
Ground	Blue	Black	Ground
Start	Brown	Yellow / red	Start signal
Ignition	Green	Lilac	Ignition signal
Engine Cut-off signal	Pink or black	Black / yellow	Engine Cut-off signal
Tilt up signal	Yellow	Blue / white	Tilt up signal
Tilt down signal	White	Green / white	Tilt down signal
Digital input	Gray	<i>Not in use</i>	Not in use

Checklist for Installation Test and Safety Form

Checklist for Installation Please refer to user manual for proper procedure for carrying out the points below.	OK	Error
Turn on the ignition and start the engine(s) with the key fob. Check that the start sequence works correctly and as specified.		
Check the radio range by moving the key device more than 20 meters away from the boat to make sure that the wireless lanyard cord is functioning properly and stops the engine(s). (The distance needed to stop the engine(s) on land can vary based on the radio reflection where the boat is located)		
Check that the key device vibrates and the signal beacon is activated when a "Man overboard" situation is simulated.		
The ignition is switched back on automatically 12 seconds after a man overboard situation has occurred. Check that the engine(s) can be started directly from the lock unit's push button after a simulated man overboard situation. Reset the system by taking control via the key fob by turning it off and then back on by switching the main switch off and back on before the next test.		
Enter the 4-digit PIN code provided with your CoastKey system by pressing the lock unit's button to unlock the system and check that the engine(s) starts after the confirmation tone.		
(Optional) Check that the aux. functions work from the key unit. If connected to trim in a dual installation, check that both engines tilt in parallel. If connected to an anchor winch, the anchor must be secured with a strap. Make sure the winch pulls in when you unlock the key-lock on the key fob.		
Check that the manual ignition switch works normally when the lock unit is disconnected. (The lock unit is disconnected by disconnecting the gray 8-pin connector located 15 cm down the lock unit's harness.) When the system is disconnected, there are some types of engines that can only be stopped using the manual lanyard switch.		

The User Manual must be read before the CoastKey system is used.

Drivers and passengers must be informed of the lock units position and how to restart the engine(s) in an emergency.

Take care of your owner's manual as a future reference.

Disclaimer:

CoastKey AS will not be held responsible for any damage to personnel or property arising from the incorrect use or installation of any CoastKey product.

It is mandatory to read the installation manual, user manual and complete the test and security form before attempting any CoastKey installation.



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