



Model: AECM103FBSL

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### 3 Attempt Automatic Engine Control Module designed for:

**HONDA eu70is**

#### DESCRIPTION

The Model AECM103FBSL is an Automatic Engine Control Module designed to automatically or manually start and stop the HONDA eu70is engine. It will indicate the operational status and fault conditions, automatically shut down the engine and indicate the start engine failure by a flashing "START FAIL" LED on the front panel.

Operation of the module is via 2 position rocker switch mounted on the front panel with STOP/AUTO and RUN positions. Remote wired control of the module is via terminal 1 (or from the wireless key fob supplied optionally).

#### START.

**Conditions:** *Rocker switch is in "RUN" position (local start) or remote start is active (terminal 1 connected to batt. Negative) while rocker switch is in "STOP/AUTO" position.*

Start sequence: the internal run relay will energize, connecting terminal 7 to terminal 5, then start relay will energize connecting terminal 8 to terminal 2). If the engine has not fired by the end of 1st attempt, the starter is turned off for 10 sec resting period. The sequence will then repeat up to a maximum number of start attempts. Following a successful start, the start relay is de-energized and latched out to prevent reengagement of the starter with the engine running.

#### STOP.

**Conditions:** *move the rocker switch to STOP/AUTO position (LOCAL STOP) or break the link between terminal 1 (remote start input) and battery negative (GND).*

Stop sequence: The run relay will de-energize, disconnecting terminal 7 from terminal 5 making generator to stop.

#### WIRELESS CONTROL (optional)

**Conditions:** *Terminal 1 disconnected (i.e.wired remote start is unused).*

Make sure there are no metal doors/walls/other metal shields between you and controlled generator. Any metal obstacle can significantly reduce the working distance between the transmitter (key fob) and controlled generator.

Press "A" button on a key fob for 1 sec and release it. The generator should try to start within a few seconds.

To stop it-press "B" button. If your generator doesn't respond - try to come closer to controlled generator.

#### IMPORTANT NOTES

The start relay can only energize for 2<sup>nd</sup> and 3<sup>rd</sup> crank cycle if no pilot light signal is sensed, to confirm that the engine is stationary.

Should the engine still fail to start after the maximum number of attempts, "START FAIL" is displayed and the starter is latched out until reset via "STOP/AUTO" position of rocker switch or remotely via terminal 1 if the engine start was initially made with remote start signal.

#### Relay outputs are provided for:

- Run relay output
- Start relay output

#### Inputs/outputs are available for:

Remote Start (terminal 1).  
Start output (terminals 2 and 8)  
Run output (terminals 7 and 5)  
Pilot light output sensing (terminal 3)  
Battery positive (terminal 7)  
Battery negative (terminal 8)

#### Panel fitment

The AECM103FBSL lite series modules have been designed for front panel mounting.  
The module is fitted into the 68X68mm cut-out with the fixing clips removed.  
These are then fitted from the rear.  
2x fixing clips are supplied.

#### SPECIFICATION

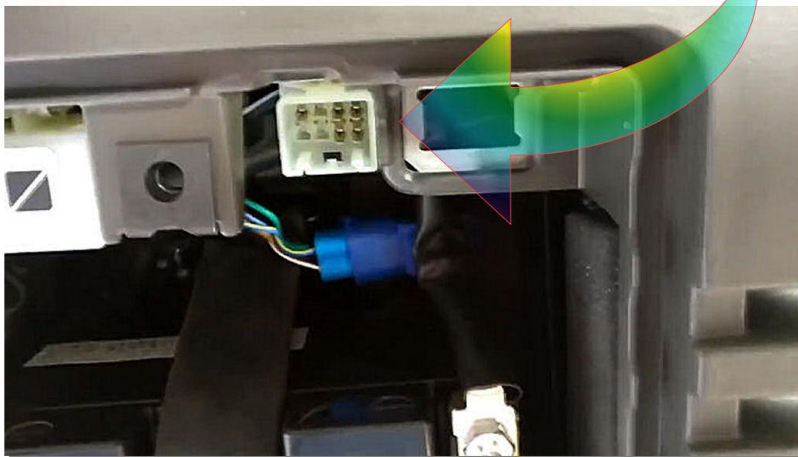
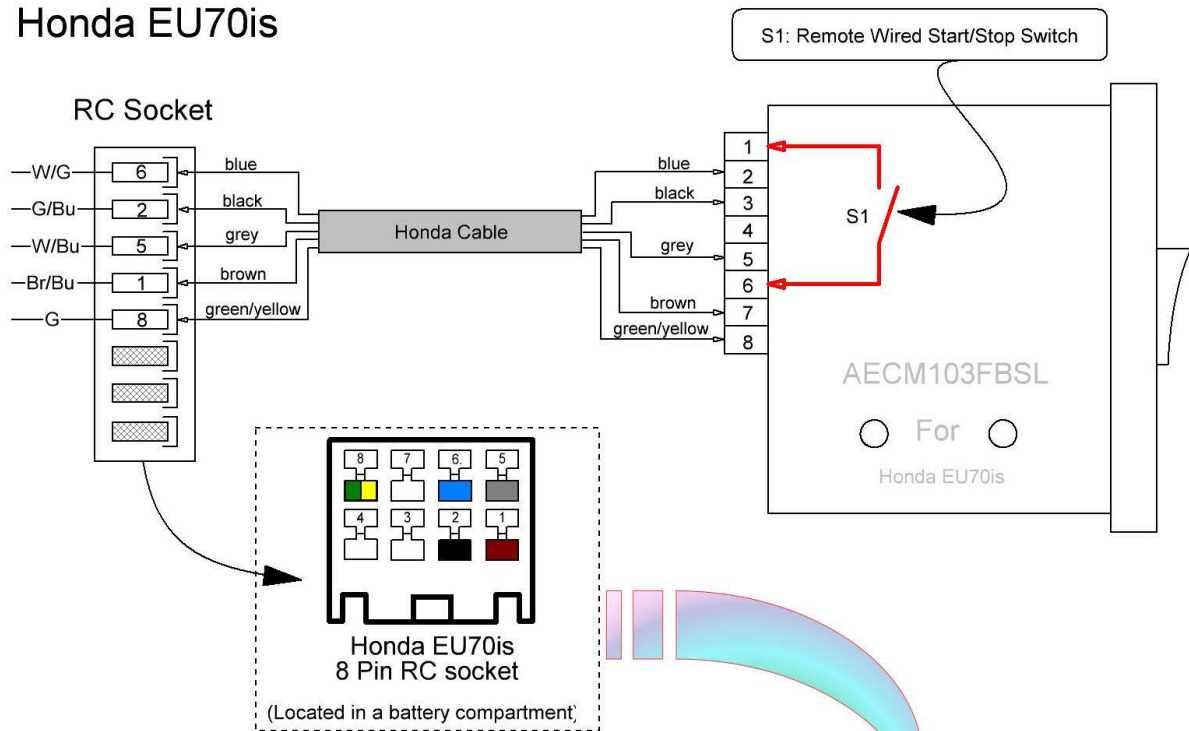
DC Supply: 12Vdc (engine starting battery)  
Max. Standby Current: 9.8 mA @ 12 V  
Number of attempts: 3  
Crank durations: 5 sec with 10 sec pause between each crank  
Hold-off timer set for: 7 sec  
Start relay output: 3.0A max  
Run relay output 3.0A max  
Dimensions: 72 X 72 X 60mm  
Operating Temperature Range: -30 to +70°C

#### Wireless transmitter/receiver specification (optional)

Receiver: internally fitted into AECM module  
Transmitter/Receiver working frequency: 315/433Mhz  
Number of channels: 1Ch  
Encoding type: fixed code  
Receiver sensitivity:>-105dB

# Wiring Diagram

## Honda EU70is



The Honda EU70IS cable can be ordered from our website (see Table A):

<https://www.gencontrol.co.uk/honda-eu70is-auto-start.html>