



WIRELESS REMOTE CONTROL BOX

165 WRC-9



USER MANUAL

V1.0 2026

INSTALLATION

PLEASE NOTE: Installation should be done by a qualified person.

It is imperative that the pump/engine assembly is fitted to any vehicle with consideration to dust and moisture ingress. Engine maintenance standards should be followed from the MEGAJET owner's manual.

The WRC control box should be mounted at the appropriate distance from the engine so that the throttle control cable is as straight as possible or with large arc bends to the speed control lever on the engine. Do not attach the end of the throttle control cable in the final position until the mounting and electrical wiring of the WRC is complete. Mount the WRC box in a position that can easily be seen and is also free from vibration, with the controller face in a vertical position. Isolation mounts are available on request or already supplied. The standard engine ignition/start key should be in the OFF position. The aerial on the WRC box is set internally and should not require any re-positioning if the transmitter batteries are kept in a good state. Range is generally from 30 to 100 metres, depending on the situation and line of sight. The key at the WRC box should be turned off by rotating to the left position. Remove key while installing.

PETROL ENGINES ONLY:

Honda, positive activated coil: (Current model Honda engines.) A N/O relay must be fitted close to the ignition switch to connect red and black wires, to simulate 'ignition on'. This relay is activated by the **YELLOW** wire from the WRC when button number A is pressed firmly ONCE. This relay can also be used with a standard earthed coil engine by using the N/C terminal to disconnect the earth from the coil to simulate ignition. Twin cylinder Honda engines require 2 relays. Wiring diagrams are available in this case, if required. RELAY KITS ARE AVAILABLE ON REQUEST.

DIESEL ENGINES AND OTHER BRAND PETROL ENGINES.

Connect the **YELLOW** wire from the WRC to the accessories terminal on the standard key switch on a standard petrol or diesel engine. On the current Honda petrol engine, connect this **YELLOW** wire to the relay as above. On a diesel engine, ensure that the fuel solenoid, and or fuel pump +ve terminal is now receiving power from the accessories' terminal. The **GREEN** wire should be attached to the starter solenoid energising terminal, usually using a piggy-back, female spade terminal, if suitable.

The **RED** wire is attached to battery +ve. (Usually at the starter motor +ve battery post.) Fit a 15A fuse.

The **BLACK** wire is connected to battery -ve or a common earth. (Check proper continuity). (It is preferred that this earth wire is connected directly to the battery and not through a chassis earth, as the circuit board is sensitive to any resistance.)

INSTALLATION (CONTINUED)

The **BLUE** wire is connected to the engine flywheel charge coil, immediately after the charge coil and before the rectifier/regulator.

The **WHITE** wire must be connected to an electric choke solenoid if fitted to a petrol engine.

The **BROWN** wire is a spare 12v output, activated by the B button when an additional signal is required for a flow solenoid, for example. The signal is normally toggled.

THROTTLE CABLE FITTING AND ADJUSTMENT:

Turn WRC key ON...clockwise.

By pressing and holding button C on the remote control, the maximum engine speed can be set and the cable adjusted and then locked appropriately in that position.

Fit an additional return spring if necessary to the 'return to idle position' so that the cable is under return tension.

Press button D to ensure sufficient movement to the engine low speed position.

The actuator has 30 or 50mm of movement and the throttle control must be modified to ensure that full movement is obtained without any obstruction or undue load. Please inform us of the engine model so that we can recommend the 30mm or 50mm cable movement for that model and brand of engine.

Fit a custom-made lever if necessary to the throttle control so that 30 or 50mm of movement is achieved. Full incremental adjustment (usually 6-8 increments) can then be achieved through the full speed range. The throttle can also be controlled locally at the WRC by manually using the +ve and -ve speed control.

OPERATION

STARTING THE ENGINE:

Leave the engine key ignition switch in the OFF position.

Turn the WRC ON at the key, by rotating clockwise.

(When fist turned on, the controller will be in AUTO mode by default.)

If test starting the engine is required, the green RUN button can be used on the control panel.

FIRST,... the STOP button must be pressed to remove the AUTO mode light.

Now the red toggle switch can be moved to MANUAL or test mode. Press the green button once to begin a start cycle and stop engine by pressing the red STOP button.

To return to AUTO mode, move the red toggle switch back to auto mode, THEN press the AUTO button to use the remote controls to start the engine or remotely operate the throttle.

When using the remote controls: - ENSURE THAT THE CONTROLLER IS INDICATING AUTO MODE.

The engine should be in the low-speed throttle position when the engine is turned off.

To slightly increase potential engine speed for starting, press the C button momentarily.

The number A button is pressed firmly but momentarily, (0.5sec) to put the system into START mode.

Do NOT re-press the A button a second time, as this will disable the start sequence.

The start cycle will begin with 5 seconds of crank time. If the engine does not start, there will be a 5 second rest.

Again, do not re-press the A button.

The controller will attempt 3 start cycles, after which a 'Fail to Start' fault will occur.

If engine does not start, find the fault.... e.g., No fuel.

Note that the 4-button waterproof hand control requires buttons to be pressed firmly for about a half second to make proper contact. 'Stabbing' the button will often not send a signal.

To stop the engine, press the A button firmly, once.

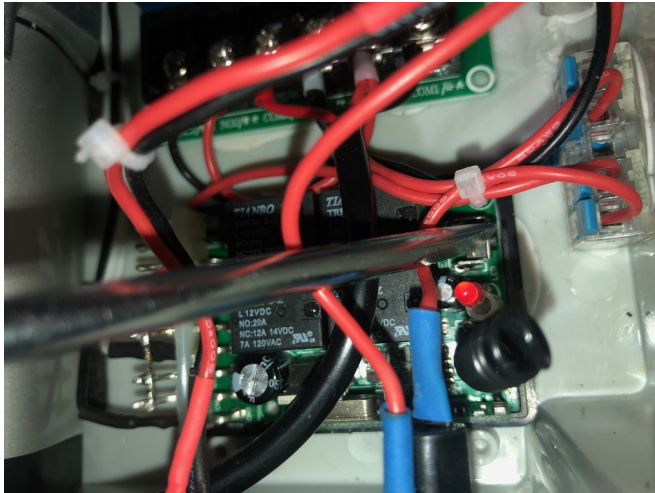
GENERAL INFORMATION:

The engine can be started and run normally by the standard engine key switch when the WRC key switch is OFF.

The hour meter will only record run hours. It will do this even if the engine key or the green RUN button on the controller is used to start the engine. If the key switch is ON during non-use, there may be some drain on the battery system.

PROGRAMMING REMOTES

1. First open the main control box and identify the receiver board. It is the small circuit board with the aerial wire on it.
2. Make sure the power switch for the WRC is ON.
3. The LEARN button is the small button on the receiver board furthest from the aerial. On the far side of the red led. (see pic)



4. First press the LEARN button 5 times succession and wait for the red led to illuminate, then press and hold button "A" on the remote until you hear a click on the relay. (This has armed the ignition, it is best if you now press "A" again to turn off the ignition!)
5. Then press the LEARN button 2 times in succession and wait for the red led to illuminate, then press and hold button "B" until you hear a click on the relay.
6. Then press the LEARN button 3 times in succession and wait for the red led to illuminate, then press and hold button "C" until you hear a click on the relay.
7. Then press the LEARN button 4 times in succession and wait for the red led to illuminate, then press and hold button "D" until you hear a click on the relay.
8. Turn the power off at the switch, then turn on and test the function of the remote. If you have problems please call BAR Group on (02) 4577 2144

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