

# Thermo-Bob 3™ Installation Manual

## “CR4C” Kit

- Honda CRF450R, 2017-2020
- Honda CRF450RX, 2017-2020

Watt-man.com

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## Thermo-Bob 3™ Installation 'CR4C' Kit

You know the drill: drain your coolant into a suitable container, don't drain it when it's hot, keep the coolant away from pets because it's toxic, refill the system after all parts are installed, double-check that all clamps are tight, and verify that your radiators are full after the first heat cycle.

Before cutting the hose that connects the cylinder head to the right radiator's upper tank, study the photo at the right. First, note that the Thermo-Bob 3's cap screws face up, not down. If you study your Thermo-Bob, the two ends should be labeled "ENG" for engine and "RAD" for radiator. Second, note that the installed Thermo-Bob has a brass barb that aims to the left side of the bike and the bypass line goes under the coil and spark plug wire. This Thermo-Bob is installed a little high and would benefit from moving down  $\frac{1}{4}$  inch or more.

Therefore, cutting the hose fairly close to the cylinder head will keep the Thermo-Bob low and provide clearance between the bypass hose and the coil. Remove a 1.9 inch section of the factory hose and insert the Thermo-Bob 3 in that section as shown on the right.

The Thermo-Bob 3 housing has an additional threaded port for a KOSO or TRAIL TECH temperature sending unit (BSPP 1/8-28). Since either sensor uses two wires, an external ground is not required so it's best to use Teflon tape or a good Teflon sealant on the temperature sensor threads and snug the sensor down tight during installation to avoid leaks.

The next page will show where to install the Thermo-Bob's bypass tee so coolant bypasses your radiators when the thermostat is closed because coolant temperatures are too low.



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This photo is from the left side of the bike and shows the completed installation of the Thermo-Bob's bypass tee and bypass hose.

Remove a 5/8 inch section of the Honda hose that travels from the bottom of the left radiator to the coolant pump, then insert the supplied bypass tee into the Honda hose with the brass barb aiming towards the left side of the bike as shown.

Connect the supplied bypass hose between the brass barb on the Thermo-Bob, and the brass barb on the bypass tee. Shorten the bypass hose if required before sliding the bypass hose on to the bypass tee's barb,.

Double-Check all clamps are tight before refilling the radiators.

