

Thermo-Bob 3™ Installation Manual

“CR4B” Kit Honda CRF450R, 2009-2016

The factory Honda radiator hose layout differs between the 2009-2012 bikes and the 2013-2016 bikes.

This kit fits both layouts. For clarity, photographs follow of each setup.

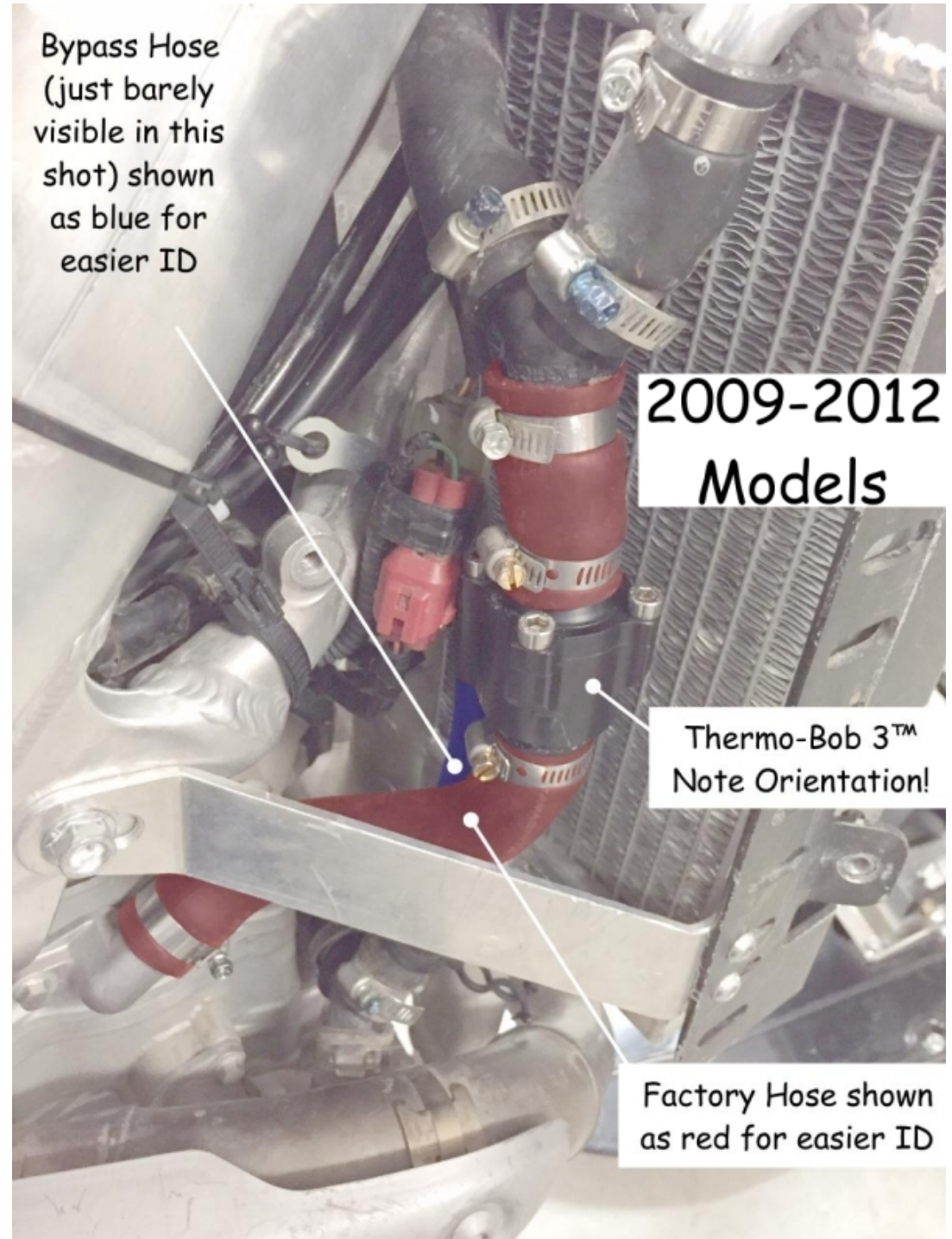
Thermo-Bob 3™ Installation Honda CRF450R, 2009-2012

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

Remove a 1.9 inch section of factory hose that connects the engine exit to the radiators, insert Thermo-Bob 3 in that section as shown on the right. Note that cap screws face up, not down.

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 during installation to avoid leaks.

The bypass hose is colored blue for easy identification and is discussed on the next page for 2009-2012 models.



Thermo-Bob 3™ Installation Honda CRF450R, 2009-2012

Bypass tee installation details for the 2009-2012 models are on this page. The bypass hose is colored blue for easy identification.

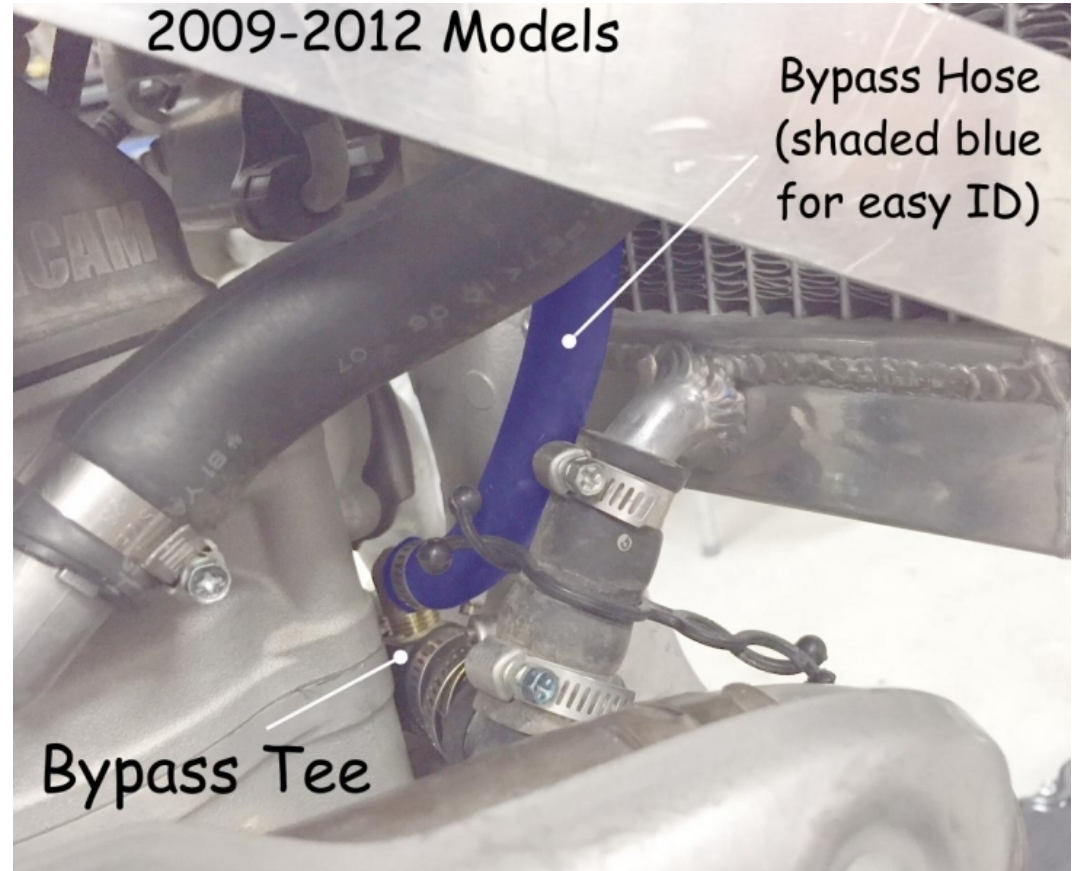
Remove a 5/8 inch section of the Honda hose that travels from the bottom of the left radiator to the Y-fitting. Insert the bypass tee into the Honda hose, with the brass barb aimed to the right side of the bike as shown.

Slide the supplied small clamps onto the center of the bypass hose, then dip both ends of the bypass hose in coolant and wipe off the outside. This will lubricate the inside of the bypass hose, making it easier to slide on to the brass barbs.

Slide one end of the bypass hose on to the brass barb on the Thermo-Bob 3, and the other end on to the brass barb on bypass tee. Slide the clamps into place and tighten.

Double-Check that all six Thermo-Bob 3™ clamps are tight before refilling the cooling system.

It is always wise to re-check the radiator coolant level and clamp tightness after the first heat cycle.



Thermo-Bob 3™ Installation Honda CRF450R, 2013-2016

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

Remove a 1.9 inch section of factory hose that connects the engine exit to the radiators, insert Thermo-Bob 3 in that section as shown on the right. Note that cap screws face up, not down.

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 during installation to avoid leaks.

The bypass hose is colored blue for easy identification. Remove a 5/8 inch section of the Honda hose that travels from the bottom of the left radiator to the bottom of the right radiator. Insert the bypass tee into the Honda hose, with the brass barb aimed to the right side of the bike as shown.

Slide the supplied small clamps onto the center of the bypass hose, cut the bypass hose to an appropriate length, then dip both ends of the bypass hose in coolant and wipe off the outside. This will lubricate the inside of the bypass hose, making it easier to slide on to the brass bars.

Slide one end of the bypass hose on to the brass barb on the Thermo-Bob 3, and the other end on to the brass barb on bypass tee. Slide the clamps into place and tighten.

Double-Check that all six Thermo-Bob 3™ clamps are tight before refilling the cooling system.

It is always wise to re-check the radiator coolant level and clamp tightness after the first heat cycle.

