



**CRUISE  
MATE**  
MOTORCYCLE  
CRUISE ASSIST



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## CRUISE-MATE INSTALLATION INSTRUCTIONS FOR ALL 08-UP HARLEY DAVIDSON'S WITH ELECTRONIC THROTTLE

For Use on the following Models:

08-13 Baggers/RoadKings, ALL Softtails/Dynas/RoadKings w/ Electronic Throttle (requires a stop pin kit).  
**DOES NOT FIT 13 UP BAGGERS/ROADKINGS**

### GRIP DISASSEMBLY DRILLING & TAPPING USING INSTALLATION JIG

1.) Install a 5/32 shim (cardboard shim or Allen wrench works fine) in brake lever as shown in Figure 1 below. (This step is important to avoid accidentally damaging the front brake light switch).

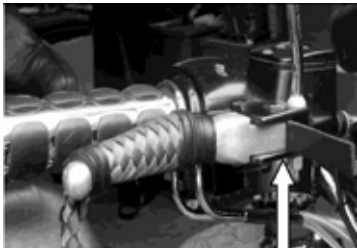


Figure 1

2 Remove the 2 bolts holding switch housing halves together and loosen two bolts holding master cylinder halves to handlebar.  
3 Separate top half of switch housing from bottom half, remove grip carefully from handlebars. Do not remove the Electronic Throttle Assembly from inside the Handlebars.

4.) Remove Star Wheel plastic friction shoe from inside lower half of switch housing as shown in Figure 2 below, (friction shoe not reused).



Figure 2

7.) Remove "C" clip from star wheel stud as shown in Figure 3 below ("C" Clip is not going to be reused).

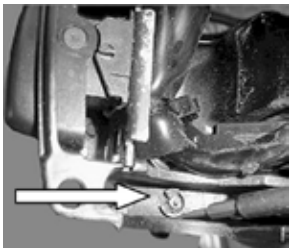


Figure 3

8.) Remove star wheel from switch housing, (star wheel is not going to be reused).

The next two steps involve drilling and tapping to enlarge the star wheel hole in the housing. If your not confident you can drill and tap the hole straight freehand we **STRONGLY** recommend using purchasing our drill jig.

7.) Position drill jig in lower half of switch housing as shown in Figure 4a. See Figure 10 for proper assembly on back of page.



Figure 4a & 4b

.) Insert Alignment Pin into Jig and screw into original threaded star wheel hole in housing See Figure 4b, hand tighten plastic tap and drill guide against bottom of switch housing, tighten drill jig bolt, then using pliers tighten plastic tap and drill guide approximately 1/8 turn to seat jig against bottom of housing.

9.) Remove the Alignment Pin from Jig Block and install Plastic Bushing in place of Alignment Pin. Using Plastic Bushing as a guide for drill bit, carefully drill Star Wheel hole with 21/64 drill bit as shown in Figure 5.



Figure 5

10.) Remove Plastic Bushing from Jig Block, use that same hole in Jig Block to tap the newly drilled hole with a 3/8-24 tap.

11.) Remove Installation Jig & clean metal chips from switch housing. **CONTINUE to INSTALLING CRUISE-MATE.**



Figure 6

## DRILLING & TAPPING FREE HAND

You are going to enlarge the Star Wheel Hole to 21/64ths of an inch. When drilling and tapping the control housing free hand (without an installation jig) keep both the 21/64ths drill and 3/8-24 tap in a straight line (very important hole is threaded perpendicular to the control housing). To ensure threads are perpendicular to control housing check tap from 2 sides (front and one side) while tapping hole to ensure the tap is square to housing.

When complete CONTINUE to INSTALLING CRUISE-MATE.

## INSTALLING CRUISE-MATE IN HOUSING

15.) Remove Shoulder Screw, Handle Spring and Handle from Cruise-Mate and unscrew Cruise-Mate Insert from the Stainless-Steel Bushing until pressure is removed from the Wave Spring.

16.) Apply Loctite to the 3/8-24 threads of the Stainless-Steel Bushing (BE SURE NOT TO GET ANY LOCTITE ON THE THREADS OF THE INSERT) and install the Cruise-Mate Bushing into the 3/8-24 threaded hole as shown in Figure 7 on the right. CAUTION: over tightening Stainless Steel Bushing may strip threads in switch housing. You only need to seat the nut flush against the bottom of the housing.



Figure 7

## GRIP REASSEMBLY

17.) Check the very bottom of your grip where the Cruise-Mate will ride BEFORE reinstalling grip, check to see if there is a plastic mold release raised line on the bottom of the plastic throttle sleeve, or in many cases on older bikes the shoe that went on the original star wheel is missing and the tip of the star wheel has been driven into the bottom of the throttle sleeve, if this is the case you only need to remove the burrs of plastic sticking up DO NOT HAVE REMOVE THE GROOVE AND MISSHAPE THE THROTTLE SLEEVE, you can scrape any build up off LIGHTLY with a knife and smooth LIGHTLY with light sandpaper.

18.) CHECK THAT ELECTRONIC THROTTLE IS IN END OF HANDLEBAR NOTCHES, Slide grip onto handlebars until the inside of the grip gear meshes with the gear on the Electronic Throttle and in switch housing, reassemble housing, install switch housing screws and make sure there is no space between switch housing assembly and master cylinder assembly, tighten all bolts and screws in Switch Housing and Master Cylinder Assembly.

19.) When re-assembling brake and switch housing assemblies, ensure tab on switch housing mates with notch in brake housing assembly as in figure 8 above.

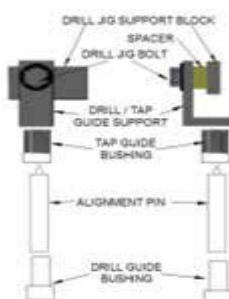


Figure 8

## CRUISE-MATE FINALLY ASSEMBLY

20.) Screw Cruise-Mate Cartridge into switch housing until you feel resistance then stop. Apply a drop of Blue Loctite to threads of Handle Shoulder Screw to ensure Shoulder Screw won't vibrate out, install Handle Spring on Shoulder Screw through small diameter end of spring, ensure the Washer and Wave Spring on the Insert is even on the insert so not to catch on lip of Cruise-Mate Handle and not allow it to seat properly, install Cruise-Mate Handle, Spring and Shoulder Screw on Cruise-Mate Cartridge with the Handle in the OFF Position resting against the BACK Cable/Stop Pin. Read Cruise-Mate Adjustment Instructions to fine tune your Cruise-Mate.

Figure 8



### PARTS LIST

