

## Instructions

**WARNING** Installation and use of some Woodcraft Technologies, Inc. products will change the response of the motorcycle to rider control inputs. Failure of the rider to adapt to these changes may cause loss of control, and serious injury or death. Improper installation, and/or failure to comply with all warnings and instructions may cause loss of control and serious injury or death. **DO NOT INSTALL OR USE ANY WOODCRAFT TECHNOLOGIES, INC. PRODUCTS IF YOU ARE UNABLE TO DO SO IN COMPLIANCE WITH ALL INSTRUCTIONS AND WARNINGS. SEEK THE ASSISTANCE OF AN EXPERIENCED TECHNICIAN.**

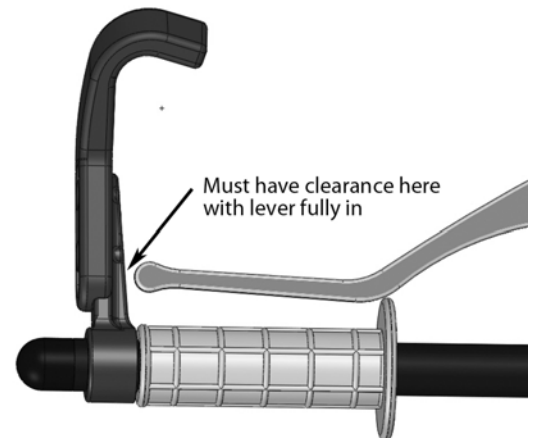
- 1) Woodcraft Hand Guards require .675 inches of handlebar protruding beyond the end of the grips to clamp on to. They will **not** work with most OEM clip-ons, since they do not typically have extra handlebar tube protruding past the end of the grip. Aftermarket clip-ons can easily slide the bars through the clamp further to provide this clamping surface. There are three mounting options:
  - a. Slide your grips & controls in on both sides by .675 inches
  - b. Push the bars through the grips and controls by .675 inches
  - c. Install longer bars (available from Woodcraft) to provide the needed clamping area

- 2) With the extra bar length sticking past the grip, slide the hand guard over the handlebar and rotate the assembly so that the guard protects the end of the lever from both the side and the front. The guard is held on by two 6 x 16 FHCS bolts that slide through an aluminum spacer. With the bolts finger tight, adjust the length of the guard until there is adequate (at least 10mm) clearance around the end of the lever on all sides.

**IMPORTANT NOTE: Do not ride the motorcycle if the guard cannot be positioned so that there is adequate clearance on all sides.**

- 3) With the guard adjusted, it is very important to check the clearance of the lever when it is fully engaged. On the clutch side, this is easily accomplished by simply pulling the lever until it hits the grip. The lever must not contact the guard **at any point in the travel**. If contact is made, the clutch lever assembly must be slid in until there is no more interference. On the brake side, the procedure is the same except that the brake bleeder must be temporarily opened to allow the lever to travel fully to the bar. After checking for clearance and adjusting the position of the brake master cylinder (if necessary), be sure to bleed the brake system and check the fluid level before riding.

Must have clearance in these two places with lever fully released



**IMPORTANT NOTE: Do not ride the motorcycle if the lever cannot be positioned so that it does not contact the guard through its full travel all the way to the grip.**

- 4) On the right side, be sure to leave a gap between the hand guard and the right side grip/throttle tube to avoid throttle interference. Check by opening the throttle and making sure that it closes freely on it's own.
- 5) Rotate the bars from full lock left to full lock right and be sure that your hands, fingers, hand guards, levers and clipons do not make contact with any part of the motorcycle. Make adjustments if needed.
- 6) With the guard and levers fully adjusted for clearance, tighten the 6 x 16mm FHCS bolts and the 6 x 20mm SHCS to a final torque.

**WARNING - VERY IMPORTANT:** Ensure that the levers do not contract the guards through the entire range of travel. When the levers are fully released, there should be at least 10mm of clearance in all directions. Ensure that the levers do not contact the guards the entire way through the travel (all the way until the lever hits the handlebar). **FAILURE TO HEED THESE WARNINGS MAY CAUSE LOSS OF CONTROL OF MOTORCYCLE AND SERIOUS INJURY OR DEATH. DO NOT OPERATE THE MOTORCYCLE IF THERE ARE ANY INTERFERENCE ISSUES WITH THE LEVERS AND THE WOODCRAFT GUARDS.**

#### Replacement Parts:

- 04-FH616Z 6 x 16mm Flat Head Bolt
- 04-SC620Z 6 x 20mm Socket Cap Bolt
- 13-4100 Replacement Bar, Standard (not shown)
- 13-4105 Replacement Bar, Extra Long (not shown)
- 15-0100SP Hand Guard Spacer
- 15-0500L Aluminum Hand Guard Base, LH
- 15-0500R Aluminum Hand Guard Base, RH
- 15-0501L Replacement Plastic Guard, LH Black
- 15-0501R Replacement Plastic Guard, RH Black

