Hand Guard Installation Instructions

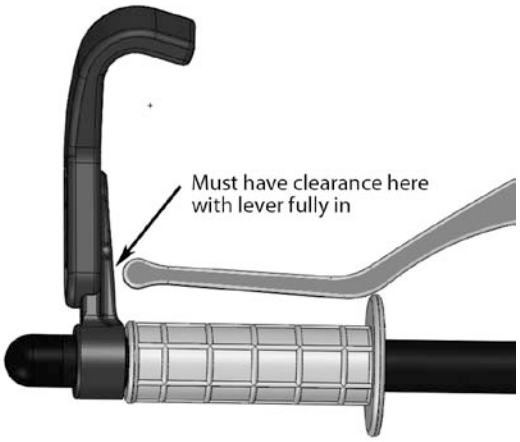
WARNING Installation and use of some Woodcraft Technologies, Inc. products will change the response of the motorcycle to rider control inputs. Failure of the rider to adapt to these changes may cause loss of control, and serious injury or death. Improper installation, and/or failure to comply with all 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 that sticks past the end of the grips to clamp on to. They will not work with most OEM clipons, since they do not typically have extra handlebar protruding past the end of the grip. Aftermarket clipons can easily slide the bars through the clamp further to provide this clamping surface. There are two mounting options:
    a. Slide your grips & controls in on both sides by .675 inches
    b. 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 6 x 16 BHCS bolts that slide though 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.

    IMPORTANT NOTE: Do not ride the motorcycle if the lever cannot be positioned so that it does not contact the guard through the 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 its 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 BHCS bolts and the 6 x20mm SHCS to a final torque. **IMPORTANT NOTE: Before final tightening of the bolts use *blue loctite (medium strength)* to ensure bolts due not back out due to vibration. A periodic check for bolt tightness will make sure no parts fall off unexpectedly.**

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**

LEVERS AND THE WOODCRAFT GUARDS.

Replacement Parts –
04-BH616Z 6 x 16mm Button Head Bolt
04-SC620Z 6 x 20mm Socket Cap Bolt
15-0100SP Hand Guard Spacer
15-0500B-L Aluminum Hand Guard Base, LH
15-0500-R Aluminum Hand Guard Base, RH
15-0501L Replacement Plastic Guard, LH Black
15-0501R Replacement Plastic Guard, RH Black

