Start with the best. Stop with the best.

# Installation Instructions for Driveside Inboard Brake System

**WARNING – BRAKES ARE A CRITICAL SAFETY ITEM AND SHOULD ONLY BE INSTALLED BY A QUALIFIED TECHNICIAN!!**

**Note: Instructions apply to both belt and chain drive systems.**

1. **Turn front forks to either fork stop. Position and center lift under rear section of frame. Make sure the motorcycle is properly secured when raised.**
2. **Remove rear wheel and brake assembly from motorcycle.**
3. **Remove existing pulley/sprocket from wheel.**
4. **Install Driveside bracket and axle in frame and position bracket up against inside of frame axle block.**
5. **Position rear axle so it is centered in axle adjustment slot in frame.**
6. **Bolt tabs to bracket with bolt centered in tab slot. Cut tabs to fit frame as required. Make sure tab slots run parallel to axle adjustment slot.**
7. **With bracket clamped against frame and centered between frame tubes, tack weld tabs in place. Remove bracket and axle, weld completely.**
8. **Position rear tire and wheel assembly in frame and slide axle through frame/wheel/frame for support.**
9. **Slide assembly on axle until center of tire is aligned with backbone of frame.**
10. **Measure distance and fabricate axle spacer for side opposite drive side and install so wheel is against spacer and centered in frame.**
11. **Measure from the face of the opposite side wheel bearing to inner side of frame surface and note dimension. Remove axle and wheel.**

12. **Measure bracket thickness at axle hole and subtract that number from the dimension recorded in step #12. Record for future use.**

13. **Bolt rotor to rotor hat using the 5/16-18 x ½" long flathead screws supplied. Be sure to use red Locktite.**

14. **Position rotor assembly on drive side of wheel hub.**

15. **Position pulley/sprocket against rotor hat and bolt to wheel hub using a high quality grade 8 fastener making sure there is at least ¾"of thread engagement. Do not tighten at this time.**

16. **Install rear wheel in frame with axle spacer from step #10 and bracket. Check belt to tire clearance and front to rear pulley/sprocket alignment. Rotor hats are available in varying thicknesses to accommodate required backspacing of pulley or sprocket.**

    **Note: At this point it is necessary to "mock-up" your brake assembly to center the caliper with the rotor and check caliper bracket to pulley bolt clearance.**

17. **Position caliper over rotor and bolt spacer to caliper; bolt caliper/spacer assembly to bracket. Use the 3/8-16 x 1 ½" socket head cap screw supplied. If using a 70 tooth pulley, you will need to loosen and/or remove the pulley to install the caliper on rotor.**

    **Note: You can either bolt the caliper bracket assembly to the frame tabs and space the caliper as needed or center the caliper with the rotor and space the bracket away from the frame tabs. Once you determine the best fit, fabricate remaining axle spacers accordingly.**

18. **Disassemble and repeat step #15 and #17 using red Locktite on bolts. Torque pulley bolts to 60 ft-lbs and caliper bracket bolts to 35 ft-lbs.**

19. **Align belt/chain over pulley/sprocket, adjust tension.**

20. **Apply red loctite to the 3/8-16 x 3/4" long screws supplied and start through frame tabs into bracket; torque axle nut to factory specs and tighten bracket bolts to 25 ft-lbs of torque.**

**If you have any questions call:**
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