



1971 and Up Sportster Instructions



1. Remove the stock points cover and gasket from the cam cover.

2. Remove the timing plate, breaker cam and advance assembly or shutter wheel.

Photo Step 2

(See Photo Step 2)

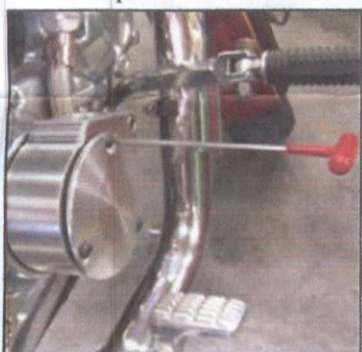


3. Install the angle drive provided in the kit using the 8-32 x 1 1/4 inch hex bolts with o-ring and washer. Note: Flat washer goes on first then o-ring to ensure proper sealing. Use Loc-tite on all bolts.

Photo Step 4

4. Prepare to install the drive shaft using the 10-32x1 inch hex bolt. Put a light coat of oil on the shaft before installation. Make sure that the pin in the drive shaft is engaged with the slot in the cam and install the hex bolt with Loc-tite.

(See Photo Step 4)



5. Before installing the end cap lightly coat the end of the drive shaft where it rides on the bushing and the o-ring on the end cap. Install end cap using the included 8x32 button head screws.

(See Photo Step 5)

Photo Step 5

6. Level the bike and fill the angle drive unit up using a non foaming oil until the oil is just touching the bottom of the gear.(If too full oil will be forced up into the bottom of the magneto).

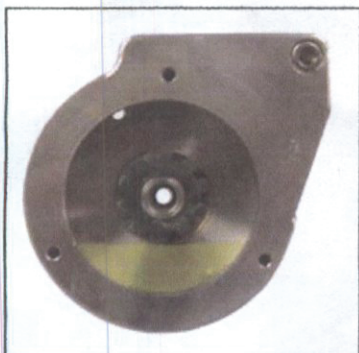


Photo Step 6

(See Photo Step 6)

7. Installing the magneto into the angle drive unit. Bring the front cylinder timing mark up in the timing window on the compression stroke. Remove the cap on the magneto and turn the breaker cam in a clockwise direction so that the small lobe is about touch the rubbing block and the points are about to open. Install the magneto into the angle drive unit. Note: magneto fires when points are just beginning to break open. This can be determined with a timing buzzer or a .001 feeler gauge. To advance the timing turn the magneto housing counter clockwise and to retard the timing turn the housing in the clockwise direction.

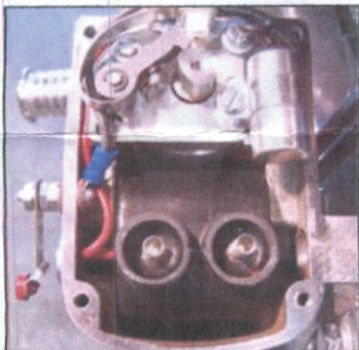


Photo Step 7

(See Photo Step 7)

8. After timing the magneto when the points are just opening lock the unit down using the hex lockdown bolt on the angle drive unit.



Photo Step 8

(See Photo Step 8)

9. The magneto points are preset at the factory. Your plug wires should be wire core and your plugs should be non-resistor and gapped at .018 to .20. 10) Install the plug wires and kill wire.



Final Install

Any problems please feel free to call.

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