



THE CARLYLE JOHNSON MACHINE COMPANY, LLC

Multiple Disc Clutches and Brakes

Maintenance and Adjustment

MAXITORQ® Multiple Disc Clutches have been factory adjusted and should not require attention for some time if properly operated and kept reasonably clean and free of grease. When adjustments are needed, please follow the following information.

Sleeve Location: the inner and outer discs are arranged so that the outer discs are keyed to the cup, inner discs are keyed to the clutch body. The clutch body is keyed to the drive shaft. When the clutch is engaged, the discs are squeezed together for driving the machine but when disengaged the outer discs and cup rotate free of the inner discs.

Adjustment Instructions: Adjustment of mechanical clutches is controlled by a knurled adjusting ring so that an operator can take up the wear on the clutch discs. First wash out clutch with commercial solvent, squirting it on top of the clutch at disc end. This will help free a sticking clutch. When properly adjusted, the sliding shifter sleeve requires a distinct pressure or snap for engagement. If under-adjusted, the sliding shifter sleeve will shift into full engagement with little or no axial pressure and the clutch is likely to slip when fully engaged (or loaded) causing excessive heat. If over-adjusted the clutch will not completely engage except by applying excessive pressure on the sliding shifter sleeve.

To Adjust Clutch: First disengage the clutch, then loosen the cap screw. Rotate the split type adjusting ring no more than 10 degrees at a time making sure to tighten the cap screw after each adjustment. Test the clutch engagement and repeat if necessary.