

## OPERATING INSTRUCTIONS

### FOR MODEL 105J KING WINCH FOR WILLYS JEEP

1. After the winch has been properly installed, as per installation instructions, be sure that it has been properly lubricated by using EP-140 gear oil in the winch housing and chassis lubricant in all grease fittings.
2. When the winch is to be used for the first time, be sure that the drum clutch lever is in a down position which assures that the drum clutch is disengaged. Pull the cable out and attach to the anchor (or whatever object the Jeep is to be pulled towards).
3. Engage the drum clutch by pulling out the pin on the bracket (Part No. 197) which will release the drum clutch, thereby engaging with the drum. Should this not take place, rotate the drum slightly by hand until the pins enter the slots in the drum clutch. Start the engine and allow to warm up until idling speed is reached.
4. To apply the power from the engine to the winch, first raise the safety latch on the No. 901 shifter bracket, then with a firm and speedy motion, push the No. 902 shifter lever towards the center of the Jeep. This will move the No. 110 sliding clutch back and make contact with the driving pins on the motor connection. It is important to remember that this No. 110 sliding clutch is a positive action clutch, and full contact with the driving pins must be made before the load is fully applied on the winch cable. Should the first shifting attempt fail, it is probably because the rubber blocks on the clutch are striking the end of the driving pins on the motor connection. To remedy this, a quick release in a re-engaging motion will allow the clutch to become properly engaged.
5. To stop the winch under load, it is only necessary to reverse the action on the No. 902 lever. Here again a quick and positive action is required.
6. It is important to remember that this Model 105J KING Winch is strictly a pulling winch and no means have been provided for reversing the line by power. This winch should **NEVER** be used for hoisting. Should it become necessary to release the load on the winch line (this is always necessary before the drum clutch can be dis-engaged), release the load by reversing the rotation of the chain sprocket on the back of the winch housing by hand.
7. Whenever the winch is not in use and the cable is wound completely on the drum, be sure the drum clutch is dis-engaged by removing the drum clutch lever to a down position. Also be sure the safety catch is down on the No. 901 shifter bracket. This will eliminate accidental engagement.

ATTACH ENVELOPE CONTAINING INSTALLATION AND OPERATING INSTRUCTIONS INSIDE VEHICLE.

## INSTALLATION INSTRUCTIONS

### MODEL 105J KING WINCH ON CJ-5 AND CJ-6 JEEPS

1. Remove crankshaft pulley and install the J46-1100 pulley supplied with winch — tighten crankshaft nut furnished.
2. Cut rivets through frame and front body brackets to allow J55-126 winch platform to fit on Jeep bumper.
3. Install winch platform and bolt securely in place — burn out slot holes in bumper bar to match those in winch platform.
4. Install J-08 main bearing support, being sure that front of engine where J-08 bolts on is clean.
5. Install spline shaft, sliding clutch, front pillow block bearing and lubricator tubes.
6. Align sliding clutch on spline-shaft, and driving pins on crankshaft pulley. Perfect alignment of the patented motor clutch is the secret to smooth operation and long life of the winch. Alignment of the sliding clutch member with the motor connection (pulley) is checked by both drive pins on the motor connection making contact with both rubber blocks on the sliding clutch member at the same instant, holding this contact without pressure throughout one complete revolution of the engine. Perfect alignment can be accomplished by tapping the front pillow block bearing up or down or to the right or left. When in alignment, the clutch will run quietly without vibration. During future operation of this winch unit, a noisy, vibrating clutch when motor is running at high speed should be remembered as a warning of mis-alignment.
7. Connect 907 right angle shifter to engaging lever 901 with  $\frac{3}{8}$ " clevis rod.
8. Install winch and roller chain — tighten winch bolts after roller chain slack has been taken up by sliding the winch to right hand-side of Jeep — tighten winch bolts.
9. Install cable guide rollers.

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**CHECK OIL IN GEAR HOUSING** — Level should be a little below filler plug. Use EP-140 transmission oil. Regular chassis lubricant to be used on all grease fittings.

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