RATCHET STYLE STARTER DRIVE INSTALLATION INFO, FOR STP DRIVE #’S
..................................................IHS132, ABC129, ABC227, ABC130.................................
IDENTIFY WHICH DRIVE STYLE YOU HAVE, (FOLO OR BARREL STYLE DRIVE)
........DO NOT SPIN DRIVE OUT BEFORE INSTALLING STARTER ON TRACTOR!........
TO INSTALL DRIVE, COMPRESS DRIVE BY HAND OR BY USING ´C´ CLAMPS OR WELDING CLAMPS TO EXPOSE THE DRIVE PIN HOLE IN THE DRIVE HUB, ALIGN THE DRIVE HUB ON THE ARMATURE SHAFT & INSTALL DRIVE PIN, DECOMPRESS THE DRIVE & INSTALL STARTER.

IF FOR SOME REASON THE DRIVE IS SPUN OUT BEFORE INSTALLING ON THE TRACTOR, YOU CAN USUALLY SET THE DRIVE GEAR BACK TO THE ORIGINAL POSITION BY THE FOLLOWING INSTRUCTIONS, YOU WILL NEED A BENCH GRINDER WITH A BUFFING WHEEL OR A WIRE WHEEL, ALWAYS USE SAFETY GLASSES WHEN OPERATING A BENCH GRINDER, TURN THE GRINDER ON & ALLOW IT TO GET UP TO OPERATING SPEED & HOLD THE STARTER WITH THE DRIVE ATTACHED AGAINST THE WHEEL, (THE DRIVE MUST BE ROTATING THE WAY THE STARTER TURNS WHEN IT IS INSTALLED ON THE TRACTOR & NOT THE WAY IT RATCHETS) PUT SOME MINOR PRESSURE ON THE DRIVE TO MAKE IT ROTATE, ONCE IT IS UP TO SPEED (APPROX. 800 RPM) IT WILL NORMALLY SNAP BACK TO IT’S ORIGINAL POSITION.
INSTRUCTION SHEET

RATCHET-TYPE
BARREL DRIVES

NOTICE

DO NOT TURN THE BARREL (GEAR END) ON THE DRIVE SHAFT AS THIS WILL LOCK THE BARREL AND GEAR ASSEMBLY IN AN EXTENDED POSITION MAKING ASSEMBLY OF THE STARTER ON THE VEHICLE SLIGHTLY MORE DIFFICULT.

Should the barrel and gear assembly be locked in the extended position, simply proceed with installation of the drive on the starter armature shaft then install the starter assembly on the vehicle. Carefully mesh the drive pinion with the flywheel ring gear. If the gear does not mesh perfectly with the ring gear, turn the barrel gear end slightly.

Once the starter motor is mounted on the vehicle, start the vehicle. As soon as the engine fires, the drive will automatically be disengaged and released from the locked position.

This drive is designed to lock into the ring gear and assure positive starting. Not until the engine is running will the gear release. The ratchet mechanism is designed to give and overrunning effect after the engine starts to prevent the engine from driving the starter armature assembly.

LUBRICATION

The drive is lubricated at the factory. No further lubrication is required. Be certain that the starter motor armature shaft is clean and free from burrs. Oil the shaft lightly with 10W oil before assembling the drive.
Remove and disassemble the drive from the armature shaft by first identifying the type Bendix drive and then following one of the guides below:

a. Standard Bendix Drive, Figure 4. Remove the head spring screw and slip it off of the armature shaft.

b. Folio-Thru-Bendix Drive, Figure 5. Push in the outer anchor plate so the pilot screw or pin can be removed. NOTE: Some Folio-Thru Drives use a rubber cushion in place of a drive spring. To remove from shaft, screw pinion out to drive position, then force pin from shaft through screw sleeve holes.

CAUTION: Do not disassemble this drive, service is by complete replacement (Fig. 8).

c. Barrel Bendix Drive, Figure 6. Push in the outer anchor plate so the pilot screw or pin can be removed.

d. Compression Spring Bendix Drive, Figure 7. Remove the cotter pin, unscrew nut and remove parts as shown.

e. Friction Bendix Drive, Figure 9. Release the head screw lock ring and remove the screw. Rotate the clutch spring assembly if one of the springs obstructs the head screw. Pull the drive from the armature shaft.