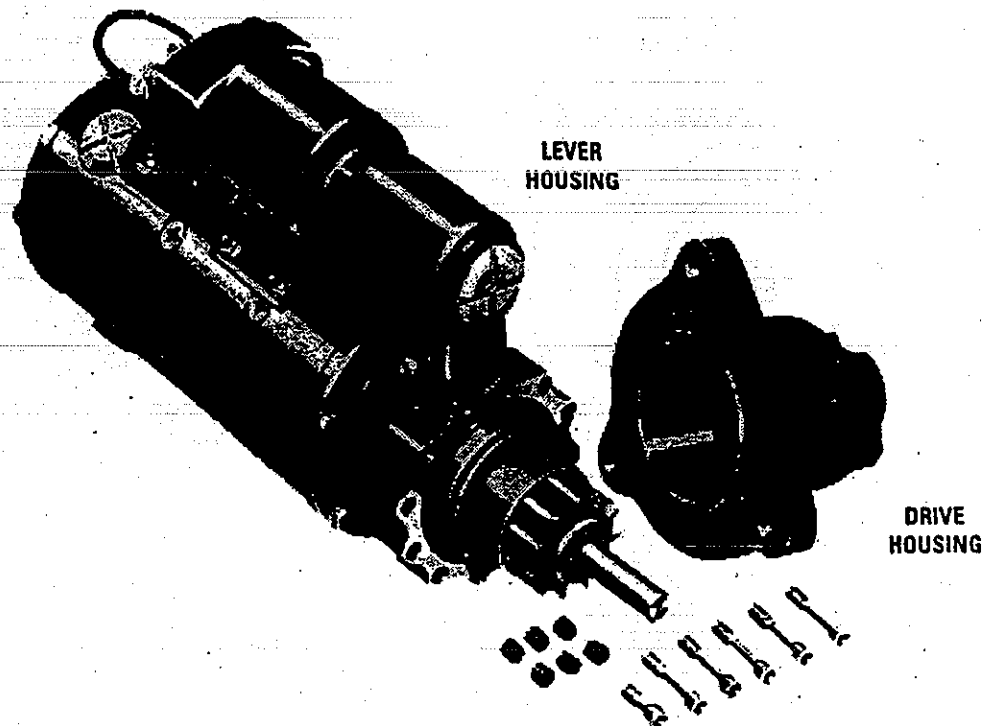


EXTERNAL ROTATABLE MODELS 30-MT, 35-MT, 37-MT, 40-MT, 41-MT, 42-MT & 50-MT



TYPICAL TWO-PIECE DRIVE HOUSING 12 OR 24 POSITIONS EXTERNAL ROTATABLE

It may be necessary to rotate the drive housing of a replacement motor to match the solenoid position of the original motor.

It is recommended solenoid position be horizontal or above horizontal when mounted to the engine.

30-MT and 35-MT motors may have internal or external rotatable drive housing. 37-MT, 40-MT, 42-MT and 50-MT service models, Type 200 and up, all have external rotatable drive housing.

To change solenoid position, separate the drive housing from the lever housing by removing recessed allen head bolts located on the motor mounting surface.

Drive housing may be rotated every 30° (12 position) or 15° (24 position) with respect to the lever housing. Position the drive housing to match as close as possible the position of the original motor. Position of original motor can be obtained from original to replacement model cross reference.

Position of original motor may also be obtained by using protractor contained in MP-1100-1 kit. Protractor may also be used to re-position drive housing of replacement motor.

When properly positioned, re-attach drive housing and tighten allen head bolts to 13-17 foot pounds torque.

Replace rubber plugs (if removed) on 24 position motors.

After rotating the drive housing on 24 position motors (12 allen head bolt holes) and an allen head bolt is in the hole closest to (inline with) a motor mounting bolt hole, a 12 POINT HEAD MOUNTING BOLT WILL BE NECESSARY. Refer to Recommended Mounting Hardware section.

Drive Housing Rotation Description

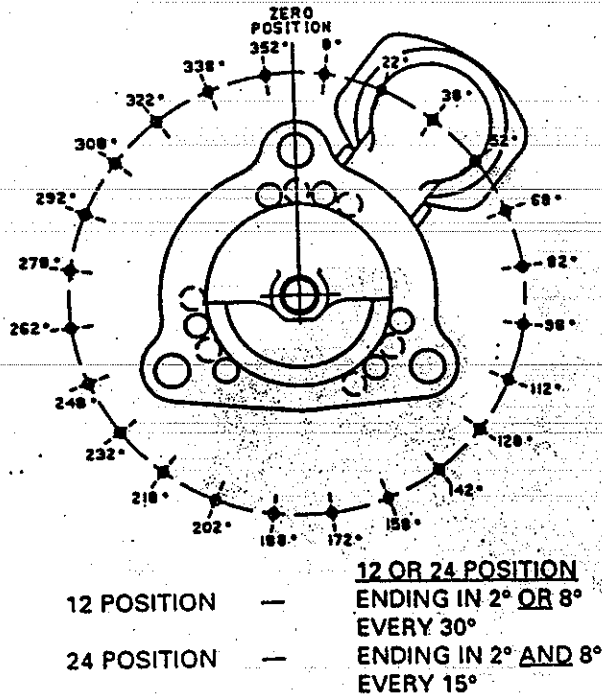
Viewing a motor from the drive end solenoid switch position is determined by using motor mounting hole opposite the flywheel opening as the beginning or 0 degree reference point.

Rotating the drive housing counter-clockwise increases solenoid switch position degrees.

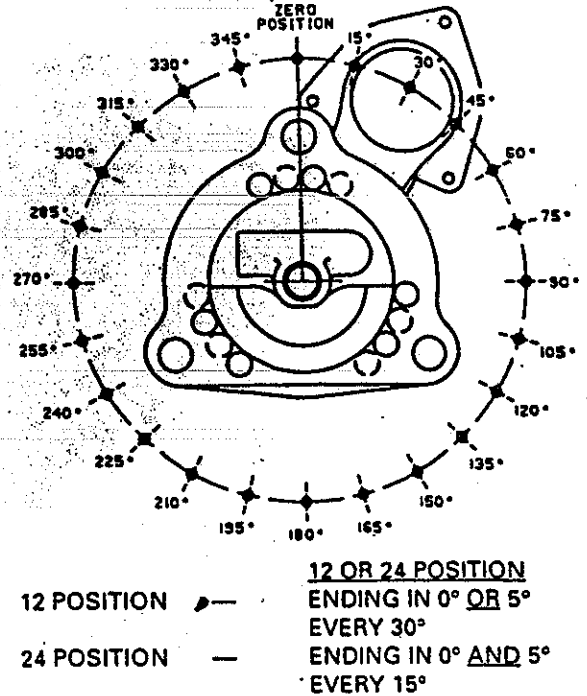
DRIVE HOUSING ROTATION

Heavy Duty Cranking Motors

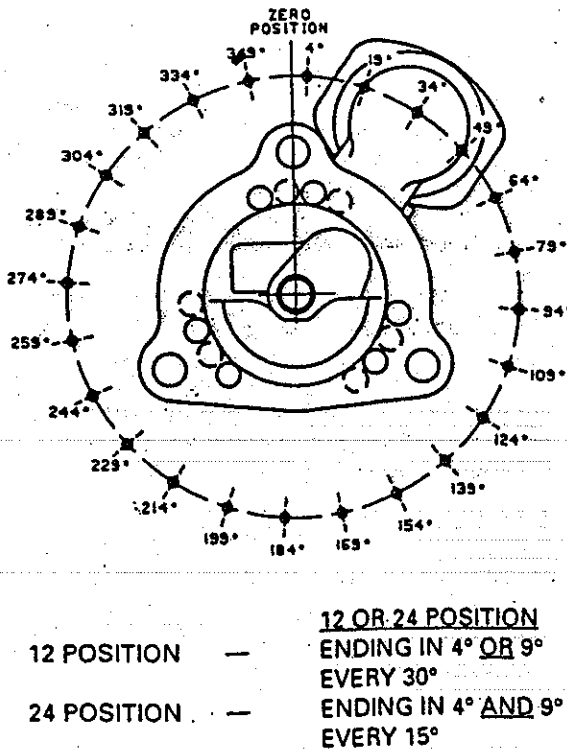
35, 37, 40, 41, 42 & 50-MT



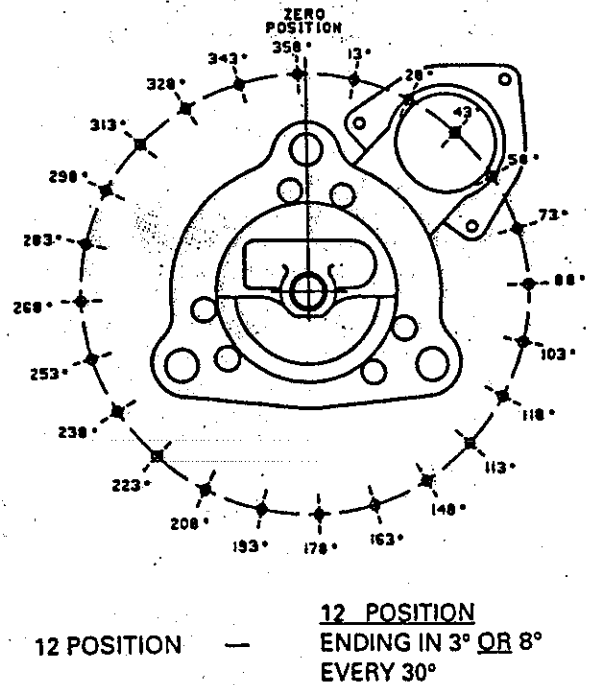
30, 35 & 40-MT



40 & 42-MT



42-MT



After nose housing has been re-positioned insert motor to engine mounting bolt in each mounting hole to determine if 12 point head mounting bolt may be required. Ref page 104.