

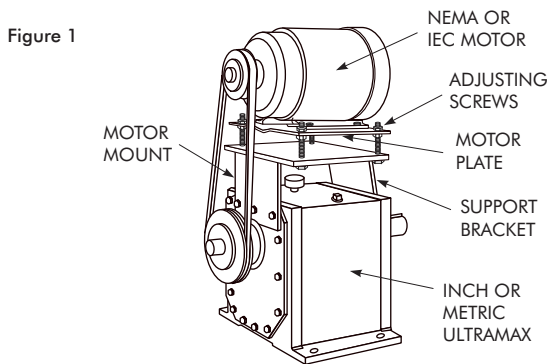
## Introduction

The following instructions apply to the assembly of motor mounts to UltraMax drives. This manual applies to drive Sizes 2040 through 2130 with NEMA motors, and Sizes M2040 through M2130 with IEC motors.

## Standard Assemblies

Motor mounts can be assembled to the gear drive in either the 3, 9 or 12 o'clock positions. Figure 1 shows the typical 12 o'clock mounting. Adjusting screws on some size 2060-2130 applications are installed from the top down.

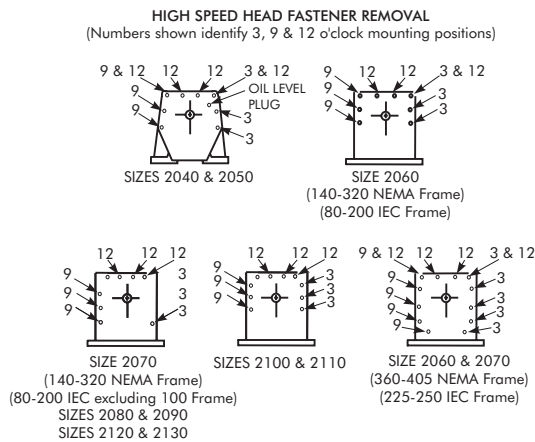
**WARNING:** Consult applicable local and national safety codes for proper guarding of rotating members. Lock out power source and remove all external loads from drive before servicing drive or accessories.



## Motor Mount Installation

Based on the drive size and the clock position in which the motor mount is to be installed, remove the high speed head fasteners as instructed below.

Figure 2



Note the following before proceeding:

On certain drive/motor combinations, the motor mount extends below the base of the drive when mounted in the 3 or 9 o'clock positions. In these cases the drive must be elevated to provide adequate clearance between the motor mount and foundation. Refer to the motor mount dimension section of UltraMax Selection Guide 311-110 or M311-110 for specific details.

## DRIVE SIZES 2040 & 2050 —

**3 & 9 O'CLOCK MOUNTING** — Use the upper three of the four holes in the motor mount when assembling.

**12 O'CLOCK MOUNTING** — Use the upper oil level plugs shown in Figure 2 in either end of the housing for checking oil level due to interference of the motor mount with the dipstick.

## DRIVE SIZES 2060 & 2130 —

**12 O'CLOCK MOUNTING** — The dipstick should be on the left when viewing the drive from the high speed end.

Fasten the motor mount to the drive as illustrated in Figure 1, using the longer fasteners provided. Torque fasteners to the values specified in Table 1. Assemble motor plates using only the adjusting screws furnished.

## Support Bracket

When a support bracket is furnished, fasten it to the motor mount using the fasteners, lockwashers and nuts provided.

Torque fasteners as follows:

Sizes 2040 through 2090, 67 lb-ft (91 Nm); Sizes 2100 through 2130, 134 lb-ft (182 Nm).

Using the longer fasteners provided, fasten the support bracket to the drive as follows:

Sizes 2040 & 2050 — Low speed head fasteners.

Sizes 2060 through 2130 — Low speed end seal cage fasteners.

Torque fasteners to values specified in Table 1.

**TABLE 1 — Fastener Tightening Torques ±5%**

DRIVE SIZE	Motor Mount to Housing	Support Bracket to UltraMax	Motor Mount to Housing	Support Bracket to UltraMax
	lb-ft		Nm	
<b>2040</b>	67	67	91	91
<b>2050</b>	67	67	91	91
<b>2060</b>	67	67	91	91
<b>2070</b>	67	134	91	182
<b>2080</b>	134	134	182	182
<b>2090</b>	134	134	182	182
<b>2100</b>	134	134	182	182
<b>2110</b>	134	242	182	328
<b>2120</b>	242	242	328	328
<b>2130</b>	242	242	328	328

## Mount Motor

Motor plates are pre-drilled for either NEMA or IEC standard foot mounted motors that are rated within the capacity of the drive and within the drive size range. If necessary, adjust the motor plate upward temporarily or remove the plate completely to install the motor foundation bolts.

Shims to a maximum of 1.5" (38 mm) thick may be used between the motor plate and motor feet to increase the shaft center distance. **DO NOT SHIM MOTOR MORE THAN 1.5" (38 mm).**

## Mount Sheaves & Belts

Mount sheaves as close to the drive housing as possible to avoid undue bearing load and shaft deflection. Hold a straightedge across the sheave faces to check alignment.

Mount belts and adjust to the manufacturer's specification.

Check to see that the motor and gear drive shafts are parallel and that the belts are at right angles to the shafts.