

# Motor Coupler Kits

311605 rev.A

To install electric motors on E-Flo™ Plus Electric Circulation Pumps.

## 15H880 Motor Coupler Kit

For NEMA 184TC Frame Electric Motors

## 15J893 Motor Coupler Kit

For IEC 112M/B5 Frame Electric Motors

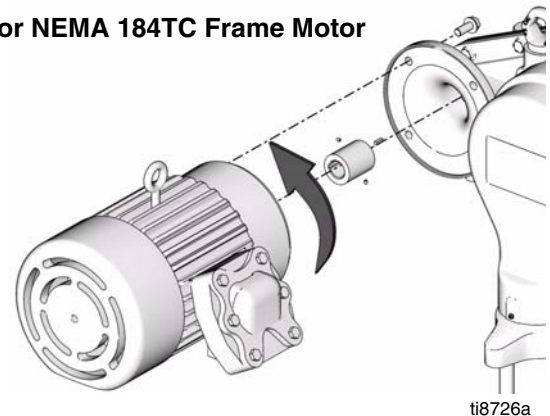
## 15J827 Motor Coupler Removal Tool



### Important Safety Instructions

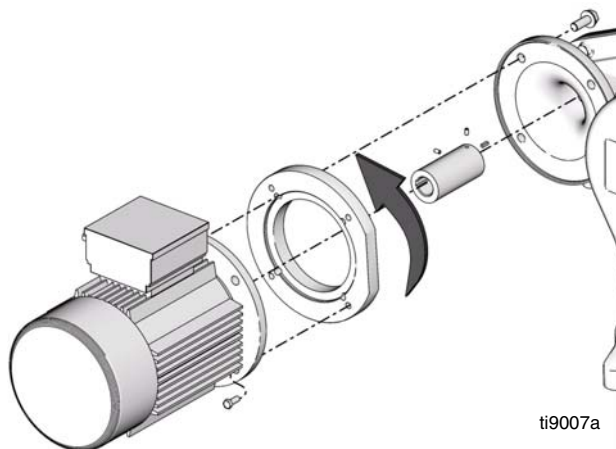
Read all warnings and instructions in this manual  
and in E-Flo Plus Repair-Parts manual 311594.  
Save these instructions.

### 15H880 Kit for NEMA 184TC Frame Motor



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


### 15J893 Kit for IEC 112M/B5 Frame Motor



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# Pressure Relief Procedure



System pressure can cause the pump to cycle unexpectedly, which could result in serious injury from splashing or moving parts.

1. Set START/STOP switch to STOP.
2. Push in SECURE DISABLE switch.
3. Open the back pressure regulator and all fluid drain valves in the system, having a waste container ready to catch drainage. Leave open until you are ready to pressurize system again.
4. Check that pressure gauges on fluid supply and return lines read zero. If gauges do not read zero, determine cause and carefully relieve pressure by VERY SLOWLY loosening a fitting. Clear obstruction before pressurizing system again.

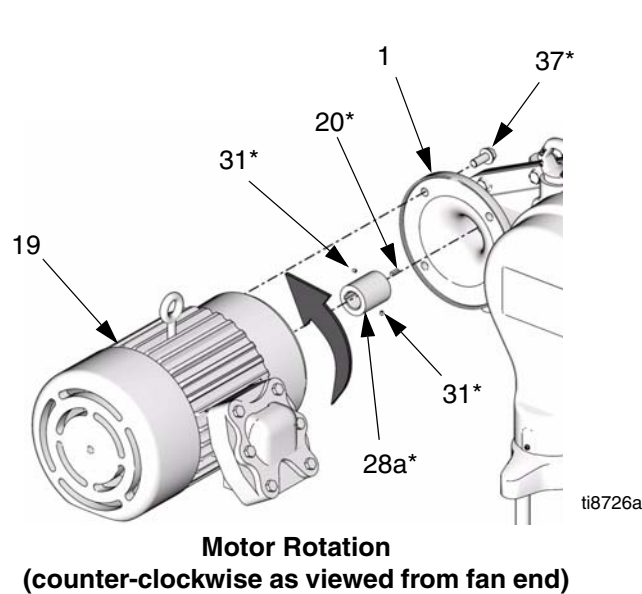



FIG. 1. NEMA 184 TC Frame Electric Motors

# Kit Parts

-  Motor Coupler Kit 15H880 includes parts to install a NEMA 184 TC Frame electric motor on the E-Flo Plus Pump. Parts included in the kit are marked with an asterisk, for example (20\*). Use all the new parts in the kit. See FIG. 1.
- Motor Coupler Kit 15J893 includes parts to install an IEC 112M/B5 Frame electric motor on the E-Flo Plus Pump. Parts included in the kit are marked with an asterisk, for example (20\*). Use all the new parts in the kit. See FIG. 2.

Ref. No.	Part No.	Description	Qty
20*	120376	KEY, square	1
28a*	n/a	MOTOR COUPLER; for kit 15H880 only	1
28b*	n/a	MOTOR COUPLER; for kit 15J893 only	1
31*	100664	SCREW, set, socket-head; 1/4-20 x 1/2 in. (13 mm)	2
37*	111195	SCREW, cap, flange-head; 1/2-13 x 1.25 in. (31 mm)	4
59*	105324	SCREW, cap, hex-head; M12 x 1.75 x 30 mm; for kit 15J893 only	4
60*	15J892	PLATE, adapter; for kit 15J893 only	1

Parts designated n/a are not available separately.

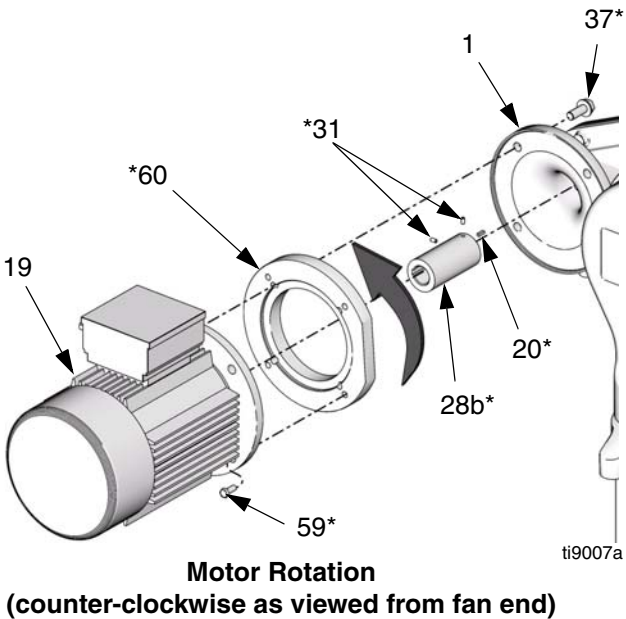
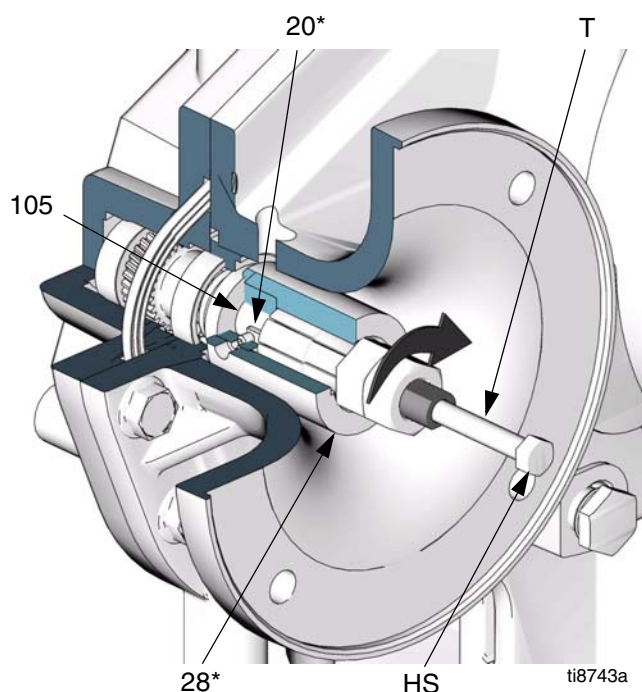


FIG. 2. IEC 112M/B5 Frame Electric Motors

# Coupler Removal




1. Relieve pressure, page 2.
2. Shut off electrical power to the unit.
3. See FIG. 1 for NEMA 184 TC Frame electric motors. See FIG. 2 for IEC 112M/B5 Frame electric motors. While one person supports the motor (19), remove the screws (37\*). Pull the motor away from the gear reducer.
4. See FIG. 3. Loosen both setscrews (31). Insert the coupler removal tool (T) into the coupler (28). Turn nut clockwise until tight, then pull the coupler off the gear reducer input shaft (105) by turning hex-head screw (HS) clockwise.



**FIG. 3. Motor Coupler Removal**

# Installation

1. See FIG. 4. Assemble the key (20\*) and two setscrews (31\*) in the coupler (28\*). Slide the coupler into the gear reducer so the key mates with the input shaft (105). Slide on until coupler and key bottom. Tighten setscrews to 66-78 in-lb (7.5-8.8 N•m). Apply antiseize lubricant to bore of coupling.

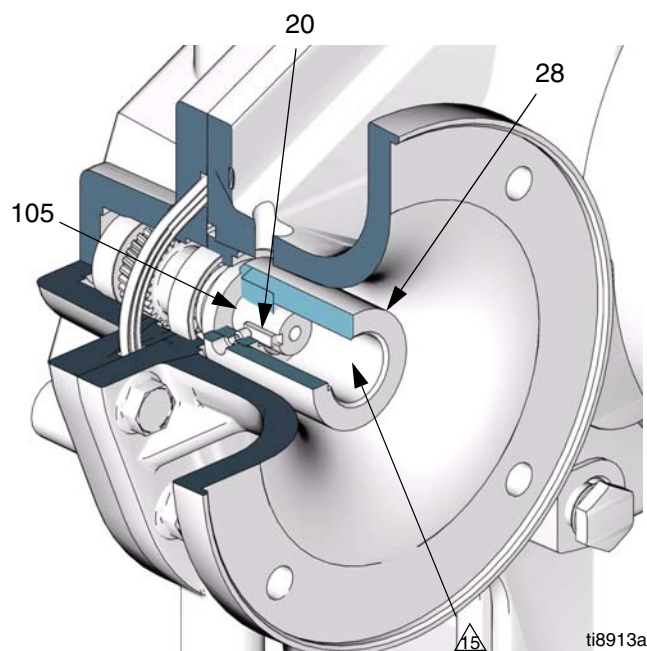
 When installing an IEC 112M/B5 Frame electric motor, ensure that the motor adapter (60\*) and screws (59\*) are in place before mounting the motor on the gear reducer. See FIG. 2.

## CAUTION

If installing an IEC 112M/B5 Frame electric motor which is not supplied by Graco, ensure that the motor shaft key cannot move out of position. If the key works loose it could cause excessive heat and equipment damage.

2. Lift the motor (19) into position. Align the key on the motor shaft with the mating slot of the motor coupler, and the four mounting holes with the holes in the gear reducer (1). Slide the motor into place.
3. While one person supports the motor (19), install the screws (37\*). Tighten securely.

 Apply antiseize lubricant to bore of coupling (28).



**FIG. 4. Motor Coupler Installation**

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**Phone:** 612-623-6921 **or Toll Free:** 1-800-328-0211 **Fax:** 612-378-3505

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MM 311605

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