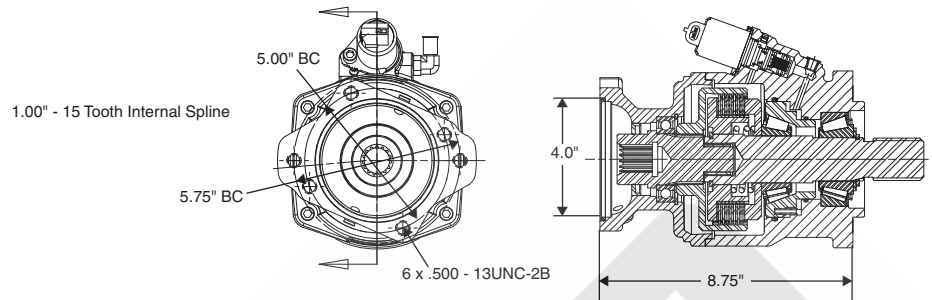


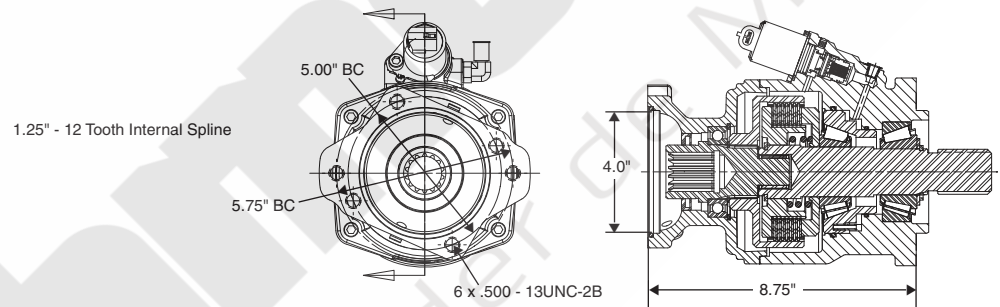
**AF Output**

Available for the following P.T.O.s:  
CAT-H



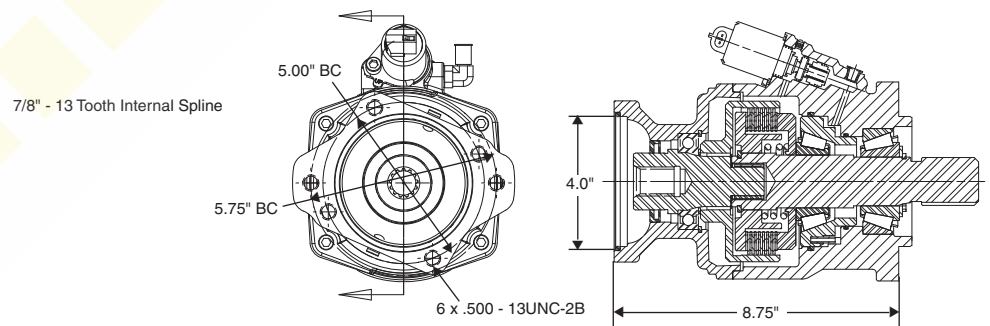
**AZ Output**

Available for the following P.T.O.s:  
CAT-H



**XK Output**

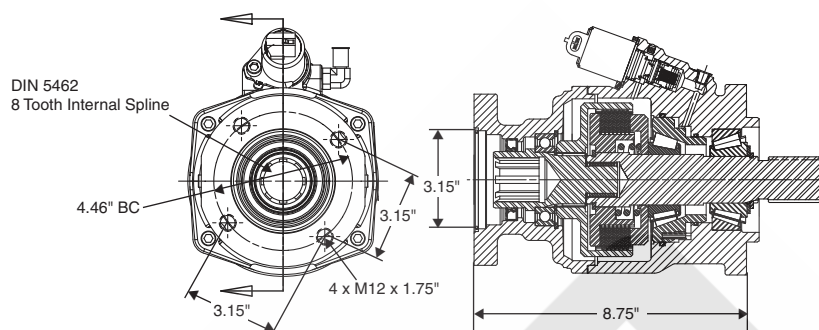
Available for the following P.T.O.s:  
CAT-H



**XY Output**

Available for the following P.T.O.s:

CAT-H



## Dual Output Shaft P.T.O.s

| P.T.O. Options Chart – Dual Output Shaft P.T.O.s |                           |     |
|--------------------------------------------------|---------------------------|-----|
| P.T.O. Series                                    |                           | 452 |
| <b>Lubrication</b>                               |                           |     |
| X                                                | Standard                  | x   |
| <b>Shifting</b>                                  |                           |     |
| W                                                | Single Shift Wire Control | x   |
| <b>Output</b>                                    |                           |     |
| DD                                               | 1-1/4" Round Dual Shafts  | x   |

**NOTE:** Always Check Price Book for Current Options

## Reversible P.T.O.s

| P.T.O. Options Chart – Reversible P.T.O.s |                                              |     |     |     |
|-------------------------------------------|----------------------------------------------|-----|-----|-----|
| P.T.O. Series                             |                                              | 340 | 352 | 863 |
| Lubrication                               |                                              |     |     |     |
| X                                         | Standard                                     | x   | x   | x   |
| P                                         | Pressure                                     |     |     | x   |
| Shifting                                  |                                              |     |     |     |
| A                                         | Air                                          | x   | x   |     |
| C                                         | Heavy Duty Bracket Less Cable                |     |     |     |
| G                                         | Air Shift w/cyl. Location Opposite of Output | x   | x   |     |
| V                                         | “A” Shift, Less Installation Kit             | x   |     |     |
| W                                         | Wire                                         |     | x   |     |
| X                                         | Less Cable and Knob                          |     |     |     |
| Y                                         | Lever                                        |     | x   | x   |
| Output                                    |                                              |     |     |     |
| LG                                        | 1-1/2" 10 Spline w/1410 & Self Lube          |     |     | x   |
| XD                                        | 1-1/4" Round Shaft                           | x   | x   |     |
| XV                                        | 1-1/2" 10 Spline w/1410 Series Flange        |     |     | x   |

**NOTE:** Always Check Price Book for Current Options

## Asia Pacific P.T.O.s

### P.T.O. Options Chart – Asia Pacific P.T.O.s

| P.T.O. Series      |                                                                         | 429 | 435 |
|--------------------|-------------------------------------------------------------------------|-----|-----|
| <b>Lubrication</b> |                                                                         |     |     |
| X                  | Standard                                                                | x   | x   |
| <b>Shifting</b>    |                                                                         |     |     |
| A                  | Air                                                                     | x   | x   |
| P                  | Electric/Air 12V                                                        | x   |     |
| W                  | Wire                                                                    |     | x   |
| <b>Output</b>      |                                                                         |     |     |
| AZ                 | Non Standard Flange, "C" Shaft (1-1/4" 14 - Tooth)                      |     | x   |
| GA                 | Rotatable "B" 2 Bolt Flange, "B" Shaft (7/8" 13 - Tooth) (Greaseable)   |     | x   |
| GB                 | Rotatable "B" 4 Bolt Flange, "B" Shaft (7/8" 13 - Tooth) (Greaseable)   |     | x   |
| GH                 | Rotatable "B" 2 Bolt Flange, "BB" Shaft (1.00" 15 - Tooth) (Greaseable) |     | x   |
| GJ                 | Rotatable "B" 4 Bolt Flange, "BB" Shaft (1.00" 15 - Tooth) (Greaseable) |     | x   |
| GQ*                | S.A.E. "B" 2 or 4 Bolt Flange, "B" Shaft (7/8" 13 - Tooth) (Greaseable) |     | x   |
| GR                 | Chelsea Special Pump Mount, "B" Shaft (7/8" 13 - Tooth) (Greaseable)    |     | x   |
| RA                 | Rotatable "B" 2 Bolt Flange, "B" Shaft (7/8" 13 - Tooth)                | x   | x   |
| RB                 | Rotatable "B" 4 Bolt Flange, "B" Shaft (7/8" 13 - Tooth)                | x   | x   |
| RE                 | Rotatable "B" 4 Bolt Flange, "BB" Shaft (1.00" 15 - Tooth)              | x   | x   |
| RF                 | Rotatable "B" 2 Bolt Flange, "BB" Shaft (1.00" 15 - Tooth)              | x   | x   |
| XD                 | 1-1/4" Round Shaft                                                      | x   | x   |
| XE                 | S.A.E. "A" 2 or 4 Bolt Flange, "A" Shaft (5/8" 9 - Tooth)               | x   |     |
| XQ*                | S.A.E. "B" 2 or 4 Bolt Flange, "B" Shaft (7/8" 13 - Tooth)              | x   | x   |
| XR                 | 1-1/2" 10 Spline w/1410 Ser. Flange                                     | x   | x   |

\*XQ/GQ same as XK/GK except flange rotated 90°

**NOTE:** See Pages 2.5 thru 2.15 for flange dimensions

**NOTE:** Always Check Price Book for Current Options

## Pump Flange Field Conversion Kits

| Pump Suffix | Kit No. Suffix                   | Kit Number                              | Flange Type                  | Shaft Type                        |
|-------------|----------------------------------|-----------------------------------------|------------------------------|-----------------------------------|
| AF          | XD to AF                         | 328591-30X                              | S.A.E. "BB" 2 or 4 Bolt      | 1.00" 15 - Tooth Splined          |
| AK          | XD to AK                         | 328591-28X                              | S.A.E. "B" 2 Bolt            | 7/8" 13 - Tooth Splined           |
| GA          | XD to GA<br>XR to GA<br>RA to GA | 328591-72X<br>328591-73X<br>328591-106X | S.A.E. "B" 2 Bolt            | *7/8" 13 - Tooth Internal Spline  |
| GB          | XD to GB<br>XR to GB<br>RB to GB | 328591-74X<br>328591-75X<br>328591-107X | S.A.E. "B" 4 Bolt            | *7/8" 13 - Tooth Internal Spline  |
| GH          | XD to GH<br>RF to GH             | 328591-116X<br>328591-114X              | S.A.E. "BB" 2 Bolt Rotatable | *1.00" 15 - Tooth Internal Spline |
| GJ          | XD to GJ<br>RE to GJ             | 328591-138X<br>328591-114X              | S.A.E. "B" 4 Bolt Rotatable  | *1.00" 15 - Tooth Splined         |
| GQ          | XD to GQ<br>XQ to GQ             | 328591-91X<br>328591-86X                | S.A.E. "B" 2 or 4 Bolt       | *7/8" 13 - Tooth Internal Spline  |
| GR          | XD to GR                         | 328591-76X                              | CHELSEA SPECIAL 4 Bolt       | *7/8" 13 - Tooth Internal Spline  |
| RA          | XD to RA<br>XR to RA             | 328591-55X<br>328591-53X                | S.A.E. "B" 2 Bolt Rotatable  | 7/8" 13 - Tooth Internal Spline   |
| RB          | XD to RB<br>XR to RB             | 328591-56X<br>328591-54X                | S.A.E. "B" 4 Bolt Rotatable  | 7/8" 13 - Tooth Internal Spline   |
| RE          | XD to RE                         | 328591-134X                             | S.A.E. "B" 4 Bolt Rotatable  | 1.00" 15 - Tooth Splined          |
| RF          | XD to RF                         | 328591-45X                              | S.A.E. "BB" 2 Bolt Rotatable | 1.00" 15 - Tooth Splined          |
| XE          | XD to XE                         | 328591-27X                              | S.A.E. "A" 2 or 4 Bolt       | 5/8" 9 - Tooth Splined            |
| XQ          | XD to XQ                         | 328591-17X                              | S.A.E. "B" 2 or 4 Bolt       | 7/8" 13 - Tooth Splined           |
| XR          | XD to XR                         | 328591-52X                              | CHELSEA SPECIAL              | 7/8" 13 - Tooth Splined           |

\*Grease fitting on end of shaft

## Field Conversion Kits

| Series/<br>Application | Assembly<br>Arrang. | Wire<br>To Air | Lever<br>To Air | Wire to Elec. over Air |             |
|------------------------|---------------------|----------------|-----------------|------------------------|-------------|
|                        |                     |                |                 | 12 Volt                | 24 Volt     |
| 435                    | 3&6                 |                |                 | 328390-119X            | 328390-120X |

## Cover Assemblies

| Series/<br>Application | Assembly<br>Arrangement | Wire<br>Control      | Air<br>Control |
|------------------------|-------------------------|----------------------|----------------|
| 429                    | 5                       | 329121-2X w/ 5-A-188 | 329361X        |
| 435                    | 3 & 6                   | 329038-1X            | 329361X        |

## Shifter Installation Kits

| Series/<br>Application | Wire<br>Control | Air<br>Control | Electric Over Air<br>12 Volt |
|------------------------|-----------------|----------------|------------------------------|
| 429                    |                 | 328388-37X     | 328388-47X                   |
| 435                    | 328380X         | 328388-37X     |                              |

## Specification Charts

### Specifications Chart – 901 Series

|                                            |                      |  |
|--------------------------------------------|----------------------|--|
| Standard Output Shaft Size                 | — 1-3/4" 10 Spline — |  |
| Intermittent Torque Rating (Lbs. ft)       | 500                  |  |
| Intermittent Torque Rating (N.m.)          | 678                  |  |
| Horsepower Rating for Intermittent Service |                      |  |
| At 500 R.P.M. of the Output Shaft (HP)     | 48                   |  |
| At 1000 R.P.M. of the Output Shaft (HP)    | 95                   |  |
| At 500 R.P.M. of the Output Shaft (Kw)     | 36                   |  |
| At 1000 R.P.M. of the Output Shaft (Kw)    | 71                   |  |
| Approximate Weight:                        | — 185 lbs. [84 kg] — |  |

### Specifications Chart – 912 Series

|                            |                      |        |
|----------------------------|----------------------|--------|
| Standard Output Shaft Size | — 2-3/4" 10 Spline — |        |
| Max Thru Torque Capacity   | Lbs. ft              | Nm     |
| w/ Diesel Engine           |                      |        |
| Automatic Transmission     | 13,000               | 17,625 |
| Manual Transmission        | 12,000               | 16,270 |
| w/ Gas Engine              |                      |        |
| Automatic Transmission     | 16,000               | 21,693 |
| Manual Transmission        | 15,000               | 20,337 |
| Approximate Weight:        | — 130 lbs. [59 kg] — |        |

### Specifications Chart – 941 Series

|                            |                      |       |
|----------------------------|----------------------|-------|
| Standard Output Shaft Size | — 1-1/2" 12 Spline — |       |
| Max Thru Torque Capacity   | Lbs. ft              | Nm    |
| w/ Diesel Engine           |                      |       |
| Automatic Transmission     | 3,100                | 4,203 |
| Manual Transmission        | 2,900                | 3,932 |
| w/ Gas Engine              |                      |       |
| Automatic Transmission     | 4,200                | 5,694 |
| Manual Transmission        | 3,900                | 5,288 |
| Approximate Weight:        | — 60 lbs. [27 kg] —  |       |

## Split Shafts

### P.T.O. Options Chart - Split Shaft P.T.O.s

| P.T.O. Series              |                                                                 | 901 | 912 | 941 |
|----------------------------|-----------------------------------------------------------------|-----|-----|-----|
| <b>Shifting</b>            |                                                                 |     |     |     |
| A                          | Air                                                             | x   | x   | x   |
| Y                          | Lever                                                           | x   | x   | x   |
| <b>Input-Output Shaft</b>  |                                                                 |     |     |     |
| C                          | 1-3/4" 10 Spline                                                | x   |     |     |
| G                          | 2-3/4" Shaft w/1710 1/2 Rd. Yoke                                |     | x   |     |
| H                          | 2-3/4" Shaft w/1810 1/2 Rd. Yoke                                |     | x   |     |
| J                          | Without Flanges                                                 |     | x   | x   |
| K                          | 1410 Series Flange                                              |     |     | x   |
| L                          | 1550 Series Flange                                              |     |     | x   |
| M                          | 2-3/4" Shaft w/ 1610 companion flange                           |     | x   |     |
| P                          | Output shaft for Spicer 170-4-521-1X                            |     | x   |     |
| S                          | Output shaft for Spicer 250-4-241-1X                            |     | x   |     |
| <b>P.T.O. Output Shaft</b> |                                                                 |     |     |     |
| XV                         | 1-1/2" 10 Spline                                                | x   |     |     |
| XK                         | S.A.E. "B" 2 or 4 Bolt                                          | x   |     |     |
| XS                         | S.A.E. "C" 4 Bolt                                               | x   |     |     |
| XU                         | S.A.E. "C" 2 Bolt                                               | x   |     |     |
| XX                         | No P.T.O. Shaft                                                 |     |     | x   |
| XX                         | 2 - 8-Bolt P.T.O. openings with air shift or 3 - 8-Bolt opening |     | x   |     |

## A Guide to Specifying Chelsea Geared Adapters

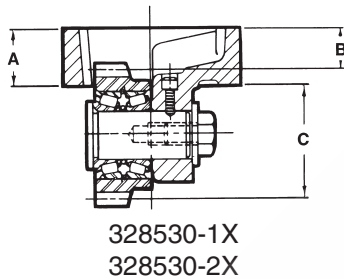
When you need to change P.T.O. output shaft rotation or clear a mounting obstacle, a geared adapter may fit the bill. However, it is important to note the following:

- Geared adapters will change the direction of P.T.O. rotation. Consider this when specifying driven equipment.
- Not all applications can use geared adapters. These situations are called out on the bottom of the Chelsea applications catalog pages. Check there before you spend time trying to specify a geared adapter.
- If an application cannot use an adapter, consider changing the P.T.O. assembly arrangement, moving the P.T.O. to the other side of the transmission, or using a change rotation gear box.
- Adapters are not available for use with P.T.O.s on automatic transmissions except the Allison 1000, 2000/2400 Series.
- Adapters are not available for use with 8-Bolt P.T.O.s.
- Current model Chelsea adapters do not change the P.T.O. speed.

## Standard Geared Adapter Assemblies

| Assembly Number | Figure Number | Number of Teeth | A<br>Body Thickness<br>or Degree of Angularity | B<br>Pitch Line to Outer Face | C<br>Pitch Line To Inner Face |
|-----------------|---------------|-----------------|------------------------------------------------|-------------------------------|-------------------------------|
| 328530-1X       | 1             | 22              | 1.650"                                         | 1.085"                        | 3.100"                        |
| 328530-2X       | 1             | 18              | 1.650"                                         | 1.117"                        | 3.067"                        |
| 328554-1X       | 2             | 19              | 22°                                            | 1.085"                        | 1.110"                        |
| 329138X-1X      | 3             | 24              | 49°                                            | 1.085"                        | 1.085"                        |

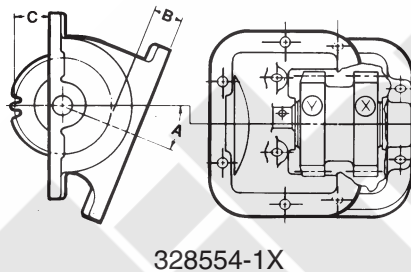
Figure 1



## Where Used

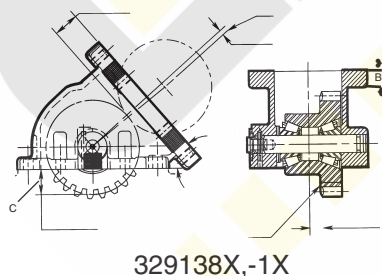
**328530-1X,-2X:** Use on either side, any assembly arrangement, where the transmission gear pitch and pressure angle allows. These adapters will move the P.T.O. straight out from the transmission. These are deep reach geared adapters that generally require the use of extra spacers and special stud kits.

Figure 2



**328554-1X:** Use on the R.H. side of transmissions with a 6 pitch 20° pressure angle P.T.O. drive gear located towards the front of the opening. The adapter will move the P.T.O. down and towards the rear of the truck. Use a P.T.O. with a "3" assembly and an "AH" gear designator. This adapter requires the application to be derated by 30%.

Figure 3



**329138X:** Use on the R.H. side of transmissions with a 6 pitch 20° pressure angle P.T.O. drive gear located towards the **front** of the truck, or on the L.H. when the P.T.O. drive gear is located towards the **rear** of the truck. The adapter will drop the P.T.O. straight down at a 49° angle. Use P.T.O.s with the same assembly arrangement and gear detail as shown in the application catalog.

**329138-1X:** Use on the R.H. side of transmissions with a 6 pitch 20° pressure angle P.T.O. drive gear located towards the **rear** of the truck, or on the L.H. when the P.T.O. drive gear is located towards the **front** of the truck. The adapter will drop the P.T.O. straight down at a 49° angle. Use P.T.O.s with the same assembly arrangement and gear detail as shown in the application catalog.

When a geared adapter can be used, four steps will help you specify it correctly.

1. Identify the correct gear detail and gear location.
2. Select the style that will perform the necessary function.
3. Calculate the correct backlash/spacing.
4. Select the correct stud kit.

### Step 1: Identify the Gear Detail and Gear Location

The first step is to find adapters that will fit your application.

At the top of each transmission application page, Chelsea lists gear data. For example, on FLR-34, on the right hand side, the transmission gear is a 6 pitch, 20° spur gear (AH Input Gear). The transmission gear is forward of the centerline of the P.T.O. opening.

To select an adapter for this application, look only at adapters that have a 6 pitch, 20° spur gear (AH Input Gear) that is forward of the adapter body centerline when used on the right hand side of a transmission.

**NOTE:** If gear pitch unknown contact Chelsea Customer Service.

### Step 2: Select the Style

The second step is to further narrow down your choices according to your application requirement.

If the purpose of specifying a geared adapter is simply to change rotation, look for the least expensive adapter available. Typically, this means an adapter that will bring the P.T.O. straight out from the transmission. Also check whether the adapter requires you to derate the P.T.O. torque rating. This occurs when the adapter contains needle bearings rather than roller bearings.

If the purpose of specifying a geared adapter is to clear mounting obstacles, determine whether moving the P.T.O. away from the transmission is enough, or whether it is necessary to angle the P.T.O. down to clear the object.

Always keep in mind how much room you have to work with and what mounting obstacles exist.

For our example, let's say we have 328530-1X on the shelf and it looks like it will work.

### Step 3: Calculate the Backlash and Spacing.

Next, you must establish correct backlash between the transmission and the geared adapter. To do this, calculate the adapter P.L. (pitch line) to inner face dimension minus the transmission pitch line to aperture face dimension.

On page 2.74 of this booklet, we see that the adapter P.L. (pitch line) to inner face dimension for adapter 328530-1X is 3.100. On FLR-34 application page, for the right hand opening, we see that the P.L. (pitch line) to aperture face dimension for the transmission is 1.0850.

$$\begin{array}{r} 3.100 \text{ (adapter pitch line to inner face dimension)} \\ - 1.085 \text{ (transmission P.L. to aperture face dimension)} \\ \hline 2.015 \end{array}$$

In this example, we would need to back the adapter away from the transmission gear 2.015" to establish correct backlash. We would select a 7-A-2000 filler block (page 2.18 of this booklet), and use a thin gasket (.010") on each side of the filler block.

Our theoretical backlash is .003". We need to have between .006" and .012". Most likely, once the adapter is actually mounted and backlash is measured, it will fall between the accepted range. This is because the transmission case and the adapter may vary a few thousandths from the listed measurements.

**NOTE:** It is always the responsibility of the installer to measure and establish correct backlash. Follow the instructions given in the P.T.O. Owner's Manual and the Adapter Gears Owner's Manual.

**Step 4: Select the Correct Stud Kit**

To calculate the necessary length of the mounting studs for a P.T.O./adapter combination, add the following dimensions together.

|                                                        |  |
|--------------------------------------------------------|--|
| Body thickness of the adapter                          |  |
| + Thickness of spacers/filler blocks                   |  |
| + Thickness of P.T.O. mounting flange                  |  |
| + Gaskets between the transmission adapter, and P.T.O. |  |
| + Stud outer diameter x 4                              |  |
| <hr/>                                                  |  |
| Required stud length, $\pm 1/16$ "                     |  |

In our example:

|                                       |               |
|---------------------------------------|---------------|
| 328530-1X adapter body thickness      | 1.650"        |
| 7-A-200 filler thickness              | 2.000"        |
| 442X Series mounting flange thickness | .563"         |
| (4) .010" gaskets*                    | .024"         |
| Stud diameter** (.375) x 4            | <u>1.500"</u> |
|                                       | 5.737"        |

Stud kit 7170-32X contains studs that are 5.750" long. Stud kits are listed in Chelsea publication HY25-2002-M1/US.

Remember that each application is different. It is up to the installer to make sure backlash between the transmission and adapter, and between the adapter and the P.T.O., is correct.

The 626, 628, 630 and 645 family of adapters is designed to simplify your selection and installation of a geared adapter when you require a change in rotation or are trying to clear an obstacle.

These adapters use the same input gears as the 442 and 489 Series P.T.O.s, and are available in kits. The 626 adapter fits a 6-Bolt opening and moves the P.T.O. straight out from the transmission. The 630 fits a 6-Bolt opening and angles the P.T.O. down at a 30° angle. The 645 fits a 6-Bolt opening and angles the P.T.O. down at a 45° angle. The 628 adapter fits an 8-Bolt transmission opening and accommodates a 6-Bolt P.T.O. The 626 and 645 are designed to mount to the Eaton Lightning transmission.

The 626, 630 and 645 adapter assemblies have the same pitch line to mounting face dimensions as the 442 Series, while the 628 will have the same mounting dimensions as the 489 Series. This means the same mounting hardware and spacers you use to mount the P.T.O. to a specific application will be the same hardware you use to mount the geared adapter to that application.

Using the 626, 628, 630 or 645 will change the direction of P.T.O. rotation. It will not change the speed of the P.T.O.

\* A .010" gasket will compress to .006" if the capscrews or nuts are torqued properly. A .020" will compress to .012".

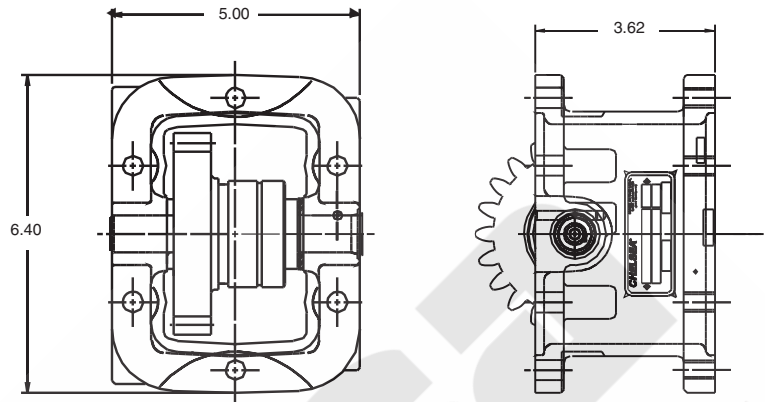
\*\* Based on standard 442 stud diameter for this example.

## Kit-Style Geared Adapters

### 626 Series

#### Six Bolt to Six Bolt Straight

- 6-Bolt P.T.O. for a 6-Bolt Transmission Opening
- Moves the P.T.O. straight out from the transmission
- Uses the same input gears as the 442 and 489 Series
- Uses the same mounting hardware and spacers used to mount a 442 Series to a specific application.

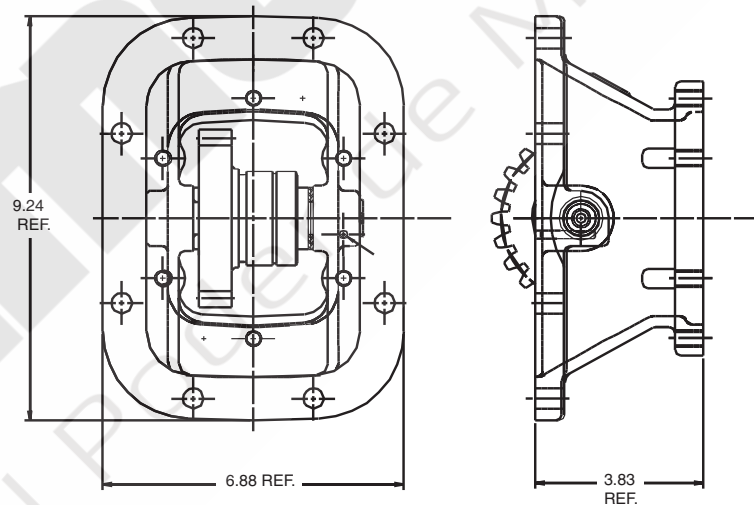


626 Series

### 628 Series

#### Six Bolt to Eight Bolt Straight

- 6-Bolt P.T.O. for a 8-Bolt Transmission Opening
- Moves the P.T.O. straight out from the transmission
- Uses the same input gears as the 442 and 489 Series
- Uses the same mounting hardware and spacers used to mount a 489 Series to a specific application.

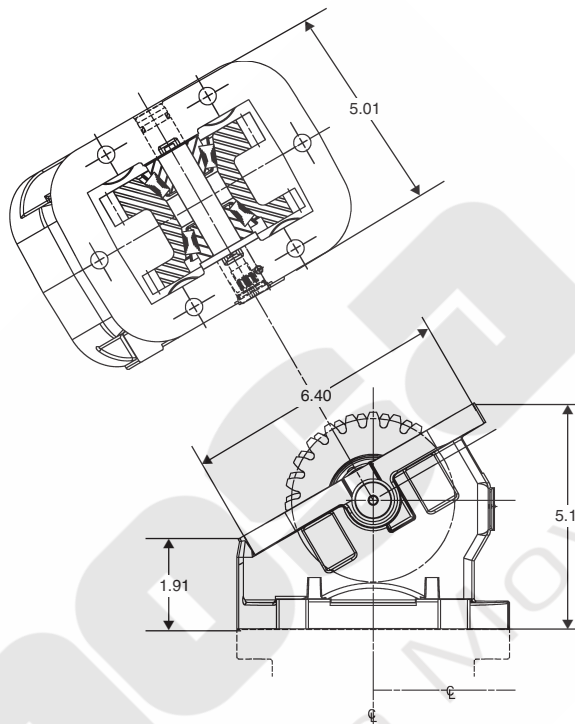


628 Series

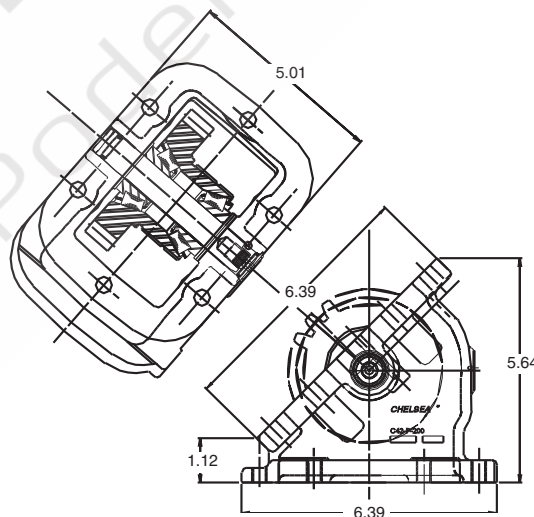
## Kit-Style Geared Adapters (continued)

**630 Series****Six Bolt to Six Bolt 30 Degrees**

- 6-Bolt P.T.O. for a 6-Bolt Transmission Opening
- Moves the P.T.O. down at a 30° angle, helping to eliminate interference problems
- Uses the same input gears as the 442 and 489 Series

**630 Series****645 Series****Six Bolt to Six Bolt 45 Degrees**

- 6-Bolt P.T.O. for a 6-Bolt Transmission Opening
- Moves the P.T.O. down at a 45° angle, helping to eliminate interference problems
- Uses the same input gears as the 442 and 489 Series

**645 Series**

## 626 Gear Chart

| Adapter Input Gear |             |             |           | Mounting Information<br>P.T.O. to Adapter |            | P.T.O. Gear (Packaged Loose w/Adapter) |          |             |           |
|--------------------|-------------|-------------|-----------|-------------------------------------------|------------|----------------------------------------|----------|-------------|-----------|
| Model No.          | Part No.    | Helix Angle | No. Teeth | Spacer Designator                         | Stud Kit   | P.T.O. Pitch                           | Part No. | Helix Angle | No. Teeth |
| 626*AB             | 5-P-1001    | Spur        | 19        | 7-A-140                                   | 7170-3X    | —**AB                                  | 5-P-1001 | Spur        | 19        |
| 626*AH             | 5-P-1004    | Spur        | 22        | 7-A-140                                   | 7170-3X    | —**AH                                  | 5-P-1004 | Spur        | 22        |
| 626*AP             | 5-P-1006    | Left Hand   | 21        | 7-A-140                                   | 7170-3X    | —**GX                                  | 5-P-1183 | Right Hand  | 21        |
| 626*AR             | 5-P-1008    | Left Hand   | 21        | 7-A-187                                   | 7170-3X    | —**GY                                  | 5-P-1184 | Right Hand  | 21        |
| 626*AW             | 5-P-1009    | Left Hand   | 22        | 7-A-270                                   | 7170-4X    | —**GZ                                  | 5-P-1185 | Right Hand  | 22        |
| 626*BG             | 5-P-1015    | Left Hand   | 23        | 7-A-140                                   | 7170-3X    | —**HB                                  | 5-P-1187 | Right Hand  | 23        |
| 626*BQ             | 5-P-1023    | Left Hand   | 25        | 7-A-200                                   | 7170-4X    | —**BP                                  | 5-P-1022 | Right Hand  | 26        |
| 626*CB             | 5-P-1029    | Left Hand   | 25        | 7-A-140                                   | 7170-3X    | —**HD                                  | 5-P-1189 | Right Hand  | 25        |
| 626*CD             | 5-P-1031    | Left Hand   | 27        | 7-A-270                                   | 7170-4X    | —**HE                                  | 5-P-1190 | Right Hand  | 27        |
| 626*DA             | 5-P-1037    | Spur        | 23        | —                                         | —          | —**DA                                  | 5-P-1037 | Spur        | 23        |
| 626*DU             | 5-P-1050    | Left Hand   | 28        | 7-A-240                                   | 7170-4X    | —**HH                                  | 5-P-1193 | Right Hand  | 28        |
| 626*ED             | 5-P-1056    | Left Hand   | 34        | 7-A-240                                   | 7170-4X    | —**HK                                  | 5-P-1195 | Right Hand  | 34        |
| 626*ES             | 5-P-1059    | Left Hand   | 22        | 7-A-062                                   | —          | —**HL                                  | 5-P-1196 | Right Hand  | 22        |
| 626*EV             | 5-P-1060    | Spur        | 40        | 7-A-300                                   | 7170-4X    | —**EV                                  | 5-P-1060 | Spur        | 40        |
| 626*EW             | 5-P-1061    | Left Hand   | 20        | 7-A-125                                   | 7170-3X    | —**HM                                  | 5-P-1197 | Right Hand  | 20        |
| 626*FC             | 5-P-1064    | Left Hand   | 26        | 7-A-165                                   | 7170-3X    | —**HP                                  | 5-P-1199 | Right Hand  | 26        |
| 626*HY             | 5-P-1237    | Left Hand   | 26        | 7-A-125                                   | 328170-94X | —**JB                                  | 5-P-1244 | Right Hand  | 26        |
| 626*IT             | KIT ADAPTER | —           | —         | —                                         | —          | —                                      | —        | —           | —         |
| 626*JK             | 5-P-1261    | Left Hand   | 24        | 7-A-187                                   | 7170-3X    | —**JL                                  | 5-P-1262 | Right Hand  | 24        |
| 626*JM             | 5-P-1263    | Left Hand   | 22        | 7-A-125                                   | 7170-3X    | —**JN                                  | 5-P-1264 | Right Hand  | 22        |
| 626*JU             | 5-P-1316    | Left Hand   | 25        | 7-A-200                                   | 7170-4X    | —**KA                                  | 5-P-1318 | Right Hand  | 25        |
| 626*JW             | 5-P-1319    | Left Hand   | 23        | 7-A-093                                   | 7170-3X    | —**KB                                  | 5-P-1321 | Right Hand  | 23        |
| 626*KX             | 5-P-1411    | Left Hand   | 26        | 7-A-125                                   | 328170-94X | —**KY                                  | 5-P-1412 | Right Hand  | 26        |

## 628 Gear Chart

| Adapter Input Gear |             |             |           | Mounting Information<br>P.T.O. to Adapter |            | P.T.O. Gear (Packaged Loose w/Adapter) |          |             |           |
|--------------------|-------------|-------------|-----------|-------------------------------------------|------------|----------------------------------------|----------|-------------|-----------|
| Model No.          | Part No.    | Helix Angle | No. Teeth | Spacer Designator                         | Stud Kit   | P.T.O. Pitch                           | Part No. | Helix Angle | No. Teeth |
| 628*AB             | 5-P-1001    | Spur        | 19        | 7-A-140                                   | 7170-3X    | —**AB                                  | 5-P-1001 | Spur        | 19        |
| 628*AH             | 5-P-1004    | Spur        | 22        | 7-A-165                                   | 7170-3X    | —**AH                                  | 5-P-1004 | Spur        | 22        |
| 628*AR             | 5-P-1008    | Left Hand   | 21        | 7-A-200                                   | 7170-3X    | —**GY                                  | 5-P-1184 | Right Hand  | 21        |
| 628*BG             | 5-P-1015    | Left Hand   | 23        | 7-A-165                                   | 7170-3X    | —**HB                                  | 5-P-1187 | Right Hand  | 23        |
| 628*DA             | 5-P-1037    | Spur        | 23        | —                                         | 328170-76X | —**DA                                  | 5-P-1037 | Spur        | 23        |
| 628*DU             | 5-P-1050    | Left Hand   | 28        | 7-A-270                                   | 7170-5X    | —**HH                                  | 5-P-1193 | Right Hand  | 28        |
| 628*EV             | 5-P-1060    | Spur        | 40        | 7-A-300                                   | 7170-5X    | —**EV                                  | 5-P-1060 | Spur        | 40        |
| 628*IT             | KIT ADAPTER | —           | —         | —                                         | —          | —                                      | —        | —           | —         |

## 630 Gear Chart

| Adapter Input Gear |             |             |           | Mounting Information<br>P.T.O. to Adapter |            | P.T.O. Gear (Packaged Loose w/Adapter) |          |             |           |
|--------------------|-------------|-------------|-----------|-------------------------------------------|------------|----------------------------------------|----------|-------------|-----------|
| Model No.          | Part No.    | Helix Angle | No. Teeth | Spacer Designator                         | Stud Kit   | P.T.O. Pitch                           | Part No. | Helix Angle | No. Teeth |
| 630*AB             | 5-P-1001    | Spur        | 19        | 7-A-140                                   | 7170-3X    | —**AB                                  | 5-P-1001 | Spur        | 19        |
| 630*AB             | 5-P-1001    | Spur        | 19        | 7-A-140                                   | 7170-3X    | —**AB                                  | 5-P-1001 | Spur        | 19        |
| 630*AH             | 5-P-1004    | Spur        | 22        | 7-A-140                                   | 7170-3X    | —**AH                                  | 5-P-1004 | Spur        | 22        |
| 630*AP             | 5-P-1006    | Left Hand   | 21        | 7-A-140                                   | 7170-3X    | —**GX                                  | 5-P-1183 | Right Hand  | 21        |
| 630*AR             | 5-P-1008    | Left Hand   | 21        | 7-A-187                                   | 7170-3X    | —**GY                                  | 5-P-1184 | Right Hand  | 21        |
| 630*BG             | 5-P-1015    | Left Hand   | 23        | 7-A-140                                   | 7170-3X    | —**HB                                  | 5-P-1187 | Right Hand  | 23        |
| 630*BQ             | 5-P-1023    | Left Hand   | 25        | 7-A-200                                   | 7170-4X    | —**BP                                  | 5-P-1022 | Right Hand  | 26        |
| 630*BS             | 5-P-1025    | Left Hand   | 26        | 7-A-062                                   | 7170-4X    | —**BR                                  | 5-P-1024 | Right Hand  | 26        |
| 630*CD             | 5-P-1031    | Left Hand   | 27        | 7-A-270                                   | 7170-4X    | —**HE                                  | 5-P-1190 | Right Hand  | 27        |
| 630*DA             | 5-P-1037    | Spur        | 23        | —                                         | —          | —**DA                                  | 5-P-1037 | Spur        | 23        |
| 630*DU             | 5-P-1050    | Left Hand   | 28        | 7-A-240                                   | 7170-4X    | —**HH                                  | 5-P-1193 | Right Hand  | 28        |
| 630*ED             | 5-P-1056    | Left Hand   | 34        | 7-A-240                                   | 7170-4X    | —**HK                                  | 5-P-1195 | Right Hand  | 34        |
| 630*ES             | 5-P-1059    | Left Hand   | 22        | 7-A-062                                   | —          | —**HL                                  | 5-P-1196 | Right Hand  | 22        |
| 630*EV             | 5-P-1060    | Spur        | 40        | 7-A-300                                   | 7170-4X    | —**EV                                  | 5-P-1060 | Spur        | 40        |
| 630*EW             | 5-P-1061    | Left Hand   | 20        | 7-A-125                                   | 7170-3X    | —**HM                                  | 5-P-1197 | Right Hand  | 20        |
| 630*FN             | 5-P-1070    | Left Hand   | 26        | 7-A-300                                   | 7170-4X    | —**HR                                  | 5-P-1201 | Right Hand  | 26        |
| 630*HY             | 5-P-1237    | Left Hand   | 26        | 7-A-125                                   | 7170-1X    | —**JB                                  | 5-P-1244 | Right Hand  | 26        |
| 630*IT             | KIT ADAPTER | —           | —         | —                                         | —          | —                                      | —        | —           | —         |
| 630*JK             | 5-P-1261    | Left Hand   | 24        | 7-A-187                                   | 7170-3X    | —**JL                                  | 5-P-1262 | Right Hand  | 24        |
| 630*JM             | 5-P-1263    | Left Hand   | 22        | 7-A-125                                   | 7170-3X    | —**JN                                  | 5-P-1264 | Right Hand  | 22        |
| 630*JU             | 5-P-1316    | Left Hand   | 25        | 7-A-200                                   | 7170-4X    | —**KA                                  | 5-P-1318 | Right Hand  | 25        |
| 630*JW             | 5-P-1319    | Left Hand   | 23        | 7-A-093                                   | 7170-3X    | —**KB                                  | 5-P-1321 | Right Hand  | 23        |
| 630*KX             | 5-P-1411    | Left Hand   | 26        | 7-A-125                                   | 328170-94X | —**KY                                  | 5-P-1412 | Right Hand  | —         |

## 645 Gear Chart

| Adapter Input Gear |             |             |           | Mounting Information<br>P.T.O. to Adapter |            | P.T.O. Gear (Packaged Loose w/Adapter) |          |             |           |
|--------------------|-------------|-------------|-----------|-------------------------------------------|------------|----------------------------------------|----------|-------------|-----------|
| Model No.          | Part No.    | Helix Angle | No. Teeth | Spacer Designator                         | Stud Kit   | P.T.O. Pitch                           | Part No. | Helix Angle | No. Teeth |
| 645*AB             | 5-P-1001    | Spur        | 19        | 7-A-140                                   | 7170-3X    | —**AB                                  | 5-P-1001 | Spur        | 19        |
| 645*AB             | 5-P-1001    | Spur        | 19        | 7-A-140                                   | 7170-3X    | —**AB                                  | 5-P-1001 | Spur        | 19        |
| 645*AG             | 5-P-1003    | Spur        | 22        | 7-A-140                                   | 7170-3X    | —**AG                                  | 5-P-1003 | Spur        | 22        |
| 645*AH             | 5-P-1004    | Spur        | 22        | 7-A-140                                   | 7170-3X    | —**AH                                  | 5-P-1004 | Spur        | 22        |
| 645*AP             | 5-P-1006    | Left Hand   | 21        | 7-A-140                                   | 7170-3X    | —**GX                                  | 5-P-1183 | Right Hand  | 21        |
| 645*AR             | 5-P-1008    | Left Hand   | 21        | 7-A-187                                   | 7170-3X    | —**GY                                  | 5-P-1184 | Right Hand  | 21        |
| 645*AW             | 5-P-1009    | Left Hand   | 22        | 7-A-270                                   | 7170-4X    | —**GZ                                  | 5-P-1185 | Right Hand  | 22        |
| 645*BQ             | 5-P-1023    | Left Hand   | 25        | 7-A-200                                   | 7170-4X    | —**BP                                  | 5-P-1022 | Right Hand  | 26        |
| 645*CB             | 5-P-1029    | Left Hand   | 25        | 7-A-140                                   | 7170-3X    | —**HD                                  | 5-P-1189 | Right Hand  | 25        |
| 645*CD             | 5-P-1031    | Left Hand   | 27        | 7-A-270                                   | 7170-4X    | —**HE                                  | 5-P-1190 | Right Hand  | 27        |
| 645*DA             | 5-P-1037    | Spur        | 23        | —                                         | —          | —**DA                                  | 5-P-1037 | Spur        | 23        |
| 645*DU             | 5-P-1050    | Left Hand   | 28        | 7-A-240                                   | 7170-4X    | —**HH                                  | 5-P-1193 | Right Hand  | 28        |
| 645*ED             | 5-P-1056    | Left Hand   | 34        | 7-A-240                                   | 7170-4X    | —**HK                                  | 5-P-1195 | Right Hand  | 34        |
| 645*ES             | 5-P-1059    | Left Hand   | 22        | 7-A-062                                   | —          | —**HL                                  | 5-P-1196 | Right Hand  | 22        |
| 645*EV             | 5-P-1060    | Spur        | 40        | 7-A-300                                   | 7170-4X    | —**EV                                  | 5-P-1060 | Spur        | 40        |
| 645*EW             | 5-P-1061    | Left Hand   | 20        | 7-A-125                                   | 7170-3X    | —**HM                                  | 5-P-1197 | Right Hand  | 20        |
| 645*FC             | 5-P-1064    | Left Hand   | 26        | 7-A-165                                   | 7170-3X    | —**HP                                  | 5-P-1199 | Right Hand  | 26        |
| 645*FN             | 5-P-1070    | Left Hand   | 26        | 7-A-300                                   | 7170-4X    | —**HR                                  | 5-P-1201 | Right Hand  | 26        |
| 645*GR             | 5-P-1157    | Spur        | 23        | 7-A-062                                   | —          | —**GR                                  | 5-P-1157 | Spur        | 23        |
| 645*HY             | 5-P-1237    | Left Hand   | 26        | 7-A-125                                   | 328170-94X | —**JB                                  | 5-P-1244 | Right Hand  | 26        |
| 645*IT             | KIT ADAPTER | —           | —         | —                                         | —          | —                                      | —        | —           | —         |
| 645*JD             | 5-P-1248    | Left Hand   | 20        | 7-A-200                                   | 7170-3X    | —**JE                                  | 5-P-1249 | Right Hand  | 20        |
| 645*JK             | 5-P-1261    | Left Hand   | 24        | 7-A-187                                   | 7170-3X    | —**JL                                  | 5-P-1262 | Right Hand  | 24        |
| 645*JM             | 5-P-1263    | Left Hand   | 22        | 7-A-125                                   | 7170-3X    | —**JN                                  | 5-P-1264 | Right Hand  | 22        |
| 645*JP             | 5-P-1268    | Left Hand   | 33        | 7-A-187                                   | 7170-3X    | —**JQ                                  | 5-P-1269 | Right Hand  | 33        |
| 645*JS             | 5-P-1310    | Left Hand   | 20        | 7-A-062                                   | —          | —**JY                                  | 5-P-1312 | Right Hand  | 20        |
| 645*JU             | 5-P-1316    | Left Hand   | 25        | 7-A-200                                   | 7170-4X    | —**KA                                  | 5-P-1318 | Right Hand  | 25        |
| 645*JW             | 5-P-1319    | Left Hand   | 23        | 7-A-093                                   | 7170-3X    | —**KB                                  | 5-P-1321 | Right Hand  | 23        |
| 645*KJ             | 5-P-1405    | Left Hand   | 33        | —                                         | 328170-94X | —**KK                                  | 5-P-1406 | Right Hand  | 33        |
| 645*KL             | 5-P-1407    | Left Hand   | 29        | 7-A-200                                   | 7170-4X    | —**KM                                  | 5-P-1408 | Right Hand  | 29        |
| 645*KN             | 5-P-1383    | Left Hand   | 27        | 7-A-270                                   | 7170-4X    | —**KP                                  | 5-P-1384 | Right Hand  | 27        |
| 645*KX             | 5-P-1411    | Left Hand   | 26        | 7-A-125                                   | 328170-94X | —**KY                                  | 5-P-1412 | Right Hand  | —         |

**Geared Adapters and Plates for Import Transmissions**

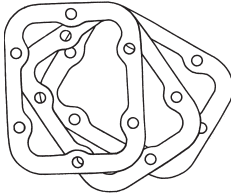
When these adapters or plates appear on a transmission application page or come with the P.T.O. assembly, they MUST be used. There are no substitutes.

As with other Chelsea P.T.O.s, these geared adapters will change P.T.O. rotation, but they will not change P.T.O. speed.

**Geared Adapters and Plates for Import Transmissions**

| Transmission      | Adapter Gear or Plate General Description                                          | "A"<br>Body Thickness<br>or Degree of<br>Angularity |
|-------------------|------------------------------------------------------------------------------------|-----------------------------------------------------|
| <b>Hino</b>       |                                                                                    |                                                     |
| 328888X (4)       | Hino KA & KB, MF06S "KK" Code Models 3320, 3323 & 5523                             | 2"                                                  |
| 328887-1X (1)     | Hino LA, LE05S "CG" Code, LH05S, LB                                                | 2"                                                  |
| 328962X (1)       | Hino LF06S "DG" Code, Models 2218 & 2218LP                                         | 2"                                                  |
| 328993X (1)       | Hino MG06S "LK" & "LL" Codes                                                       | 2"                                                  |
| 329007X (1)       | Hino LF06S "DH" & "DJ" Codes                                                       | 2"                                                  |
| 329095X (1)       | Hino LF05S Models 1415 & 1715                                                      | 2"                                                  |
| <b>Isuzu</b>      |                                                                                    |                                                     |
| 328960-1X (1)     | Isuzu MBG5B & MBG5H                                                                | 3.750"                                              |
| 328960-2X (1)     | Isuzu MBG5F                                                                        | 3.750"                                              |
| 328983X (1)       | Isuzu MLH5G                                                                        | 2.500"                                              |
| 329000-1X (1)     | Isuzu MSA-5D & MXA-5D                                                              | 1.155"                                              |
| 328985X (1)       | Isuzu MLD6E, MLD6C, MLD6F & MLD6Q                                                  | 1.750"                                              |
| 329017X (1)       | Isuzu MBG5C, MBD5A & MBG5A                                                         | 3.665"                                              |
| <b>Mitsubishi</b> |                                                                                    |                                                     |
| 328997X (1)       | M4, M5, M6, M5S5 Models FH100 & FK415, M6S5 Models FK455 & FM555, M6S6 Model FM555 | 45°                                                 |
| 329211X (2)       | (After 4/1/94) M8S6                                                                | 45°                                                 |
| 329210X (2)       | (After 4/1/94) M8S2X5                                                              | 45°                                                 |
| 42-P-211 (3)      | MO35S5 (included with 447C P.T.O.)                                                 | 1.470"                                              |
| <b>Nissan</b>     |                                                                                    |                                                     |
| 329011X (4)       | MPS-50V, TMH-402 "CPB" Series, TMH-425 "CPB" Series, & TMH-462                     | 24°                                                 |
| 329015X (4)       | MPS-60B UD3000HD and UD3300, & TMH-464 "CPC" Series                                | 24°                                                 |
| 329086X (1)       | TMH-704, TMH-762, MHS-50, MHS-60, MHS-50A, MHS-50U<br>MHS-60U, & MHS60-A           | 4.360"                                              |
| 329000-2X (1)     | MES-50A, MES-50B & MES-50C                                                         | 1.155"                                              |
| 42-P-190 (3)      | MLS-61A, MLS-61B UD3000SD (included with 447A P.T.O.)                              | 1.329"                                              |

- (1) This geared adapter adapts a non-standard opening on the transmission to a standard 6-Bolt opening. It will move the P.T.O. straight out from the transmission by approximately the amount indicated in column "A".
- (2) This is a wedge shaped adapter that adapts a non-standard 8-Bolt opening on the transmission to a standard 6-Bolt opening. It will move the P.T.O. out approximately 2.5" and down at a 45° angle.
- (3) This is an adapter plate that converts the non-standard opening on the transmission to a standard 6-Bolt opening.
- (4) This is a wedge shaped spacer that adapts the non-standard 8-Bolt opening on the transmission to a standard 6-Bolt opening.



The lubricant in the transmission also lubricates the P.T.O. Therefore, one or more gaskets (as required) must always be used between the metal surfaces of the Power Take-Off, the adapter gear assembly, the adapter plate, and the filler block(s).

#### Mounting Gasket Kits

| Gasket Kit Part Number | Qty. | Gasket Part Number | Application                  |
|------------------------|------|--------------------|------------------------------|
| 328570-1X              | 25   | 35-P-15-1          | Standard 8 Bolt              |
|                        | 25   | 35-P-15-2          |                              |
| 328570-2X              | 10   | 35-P-15-1          | Standard 8 Bolt              |
| 328570-3X              | 100  | 35-P-9-1           | Standard 6 Bolt              |
| 328570-4X              | 100  | 35-P-9-2           | Standard 6 Bolt              |
| 328570-6X              | 50   | 35-P-9-2           | Standard 6 Bolt              |
| 329062-3X              | 25   | 35-P-56            | 328888X, 329011X, & Adapters |
|                        |      | 329015X            |                              |
| 329062-5X              | 25   | 35-P-63-1          | 328957X Adapter              |
|                        | 25   | 35-P-63-2          |                              |
| 329062-7X              | 25   | 35-P-65            | 328962X & 328993X Adapters   |
| 329062-8X              | 25   | 35-P-67            | 328983X Adapter              |
| 329062-9X              | 25   | 35-P-68-1          | 328985X Adapter              |
|                        | 25   | 35-P-68-2          |                              |
| 329062-10X             | 25   | 35-P-72            | 328997X Adapter              |
| 329062-11X             | 25   | 35-P-73            | 329000-1X Adapter            |

#### Special Mounting Gaskets

| Gasket Part Number | Application                       |
|--------------------|-----------------------------------|
| 35-P-41            | 270 X AAJ                         |
| 35-P-69            | 271 Series Adapter Plate Mounting |
| 35-P-74            | 267, 269, 277/278, 859, 867       |
| 35-P-65            | 435, 437                          |
| 35-P-84            | 271 Series P.T.O. mounting        |

#### Cable Controls Stainless Steel Vinyl Covered Wire

| Assembly (Wire & Knob) | Wire Only                  | Knob Only |
|------------------------|----------------------------|-----------|
| 328346-10X*            | 378441-10 (10 Foot Length) | 378502    |
| 328346-15X**           | 378441-15 (15 Foot Length) | 378502    |
| 328346-20X             | 378441-20 (20 Foot Length) | 378502    |
| 328346-25X             | 378441-25 (25 Foot Length) | 378502    |
| 328346-30X             | 378441-30 (30 Foot Length) | 378502    |

\*This 10 foot cable and knob are standard on the following Chelsea P.T.O.s with a "W" shifter type: 100, 221, 260, 290, 352, 435, 442, 447, 489, and 812.

\*\* The 15 foot cable is standard on the 2442.

| Gasket and Seal Kits                   |                             |                                    |               |             |
|----------------------------------------|-----------------------------|------------------------------------|---------------|-------------|
| P.T.O. Series<br>Part Number           | Gasket and Seal Kit         | Shifter Cover Seal Kit Part Number |               |             |
|                                        |                             | Cable Control                      | Lever Control | Air Control |
| 100                                    | 328356-15X                  | 328356-15X                         | 328356-26X    | 328356-17X  |
| 221                                    | 328356-13X                  |                                    |               |             |
| 230                                    | 328356-55X                  |                                    |               |             |
|                                        | 329043-13X (BD Output)      |                                    |               |             |
| 231                                    | 328356-56X                  |                                    |               |             |
| 236                                    | 329043-7X*                  |                                    |               |             |
|                                        | 329043-8X**                 |                                    |               |             |
|                                        | 329043-13X (BD Output)      |                                    |               |             |
| 246                                    | 329376-1X                   |                                    |               |             |
| 267                                    | 329337-2X                   |                                    |               |             |
| 270                                    | 328970X*                    |                                    |               |             |
|                                        | 328971X***                  |                                    |               |             |
|                                        | 329043-18X (BA Output)      |                                    |               |             |
|                                        | 328356-21X                  |                                    |               |             |
| 271                                    | 328970X*                    |                                    |               |             |
|                                        | 328971X***                  |                                    |               |             |
|                                        | 329043-18X (BA Output)      |                                    |               |             |
|                                        | 328356-22X                  |                                    |               |             |
| 277/278                                | 329071-33X (XY Output Only) |                                    |               |             |
|                                        | 329071-19X                  |                                    |               |             |
| 290                                    | 328356-67X                  |                                    |               | 328356-71X  |
| 295                                    |                             |                                    | 328356-71X    |             |
| 442,447                                | 328356-67X                  | 328356-15X                         | 328356-26X    | 328356-71X  |
|                                        | 328356-69X (A, B & C Ratio) |                                    |               |             |
| 452                                    | 328356-59X                  | 328356-15X                         |               |             |
| 489                                    | 328356-50X                  | 328356-15X                         | 328356-26X    | 328356-17X  |
|                                        | 328356-69X (A & C Ratio)    |                                    |               |             |
| 660/680                                | 328356-15X                  | 328356-26X                         | 328356-17X    |             |
| 812                                    | 328356-48X                  | 328356-15X                         | 328356-18X    | 328356-19X  |
| 823 Standard Output                    |                             | 328356-2X                          | 328356-2X     |             |
| 823                                    |                             |                                    |               |             |
| w/shifter seal (AB, AC & XV Output)    |                             | 328356-3X                          | 328356-3X     |             |
| less shifter seal (AB, AC & XV Output) |                             | 328356-5X                          | 328356-5X     |             |
| 859                                    | 329071-20X                  |                                    |               |             |
| 863                                    | 328356-39X                  |                                    |               |             |
| 867                                    | 329071-27X (XS Output)      |                                    |               |             |
|                                        | 329071-28X (XV & AB Output) |                                    |               |             |
|                                        | 329071-29X (XY Output)      |                                    |               |             |
|                                        | 329071-34X (AF Output)      |                                    |               |             |
| 880                                    |                             |                                    |               |             |
| Standard Output                        | 328356-51X                  |                                    | 328356-53X    | 328356-54X  |
| Pump Output                            | 328356-52X                  |                                    | 328356-53X    | 328356-54X  |
| 901                                    | 328267X                     |                                    |               | 328356-40X  |
| 912                                    | 328356-65X                  |                                    | 328356-62X    |             |
| Speedometer                            | 328356-63X                  |                                    |               |             |
| w/o Speedometer                        | 328356-64X                  |                                    |               |             |
| 931                                    |                             |                                    |               |             |
| Standard Output                        | 328356-45X                  |                                    |               |             |
| Pump Flange                            | 328356-46X                  |                                    |               |             |
| 2230                                   |                             |                                    |               |             |
| Top Unit                               | 328356-15X                  |                                    |               |             |
| Bottom Unit                            | 328356-55X                  |                                    |               |             |
| 2442                                   |                             |                                    |               |             |
| Top Unit                               | 328356-15X                  |                                    |               |             |
| Bottom Unit                            | 328356-13X                  | 328356-15X                         | 328356-26X    | 328356-17X  |

\* Seal, Gasket, Bearing, Clutch Pack Kit

\*\* Seal, Gasket Bearing, Piston, Clutch Pack Kit

\*\*\* Gasket, Seal, Bearing, Clutch Pack Kit w/Piston & Back-up Cylinder

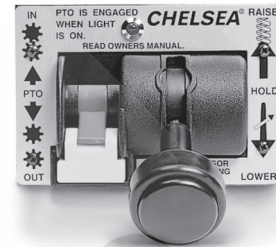
The kits shown below are included for standard applications. Many applications require special stud kits. These are called out on the application pages in the Chelsea HY25-3000/US catalog. Therefore, always consult the application pages in the Chelsea HY25-3000/US before specifying stud kits.

| Mounting Kits |                                                                   |                 |             |                    |
|---------------|-------------------------------------------------------------------|-----------------|-------------|--------------------|
| Series        | Standard (X*)                                                     | Deep Mount (Z*) | Metric (G*) | Miscellaneous      |
| CAT-D         | 7170-120X                                                         |                 |             | 7170-119X (XV)     |
| CAT-H         | 7170-120X                                                         |                 |             |                    |
| 100           | 8000-4X                                                           |                 | 7170-64X    |                    |
| 221           | 328170-1X                                                         | 328170-26X      |             | (R*) 328170-155X   |
| 230           | 328170-101X                                                       |                 | 7170-103X   |                    |
| 231           |                                                                   |                 | 7170-104X   | (M*) 7170-74X      |
| 236           | 7170-1X                                                           | 328170-95X      | 7170-72X    |                    |
| 243           |                                                                   |                 |             | (A*) 7170-100X     |
| 246           |                                                                   |                 |             | (F*) 8000-19X      |
| 250           |                                                                   |                 | 7170-102X   |                    |
| 267           | 7170-86X (FJ)<br>7170-117X (KV)                                   |                 |             |                    |
| 269           | 7170-107X                                                         |                 |             | (J*) 7170-87X      |
| 270           | 328170-101X                                                       |                 | 7170-103X   | (A*) 328170-205X   |
| 271           |                                                                   |                 | 7170-104X   | (M*) 7170-74X      |
| 277           | 7170-86X (FJ)<br>7170-117X (KV)                                   |                 |             |                    |
| 278           | 7170-86X (FJ)<br>7170-117X (KV)                                   |                 |             |                    |
| 290           | 328170-76X                                                        |                 | 7170-72X    |                    |
| 295           | 328170-76X                                                        |                 | 7170-72X    | (K*) 328170-76X    |
| 340           | 7170-1X                                                           | 328170-95X      | 7170-72X    | (S*) 328170-95X    |
| 352           | 7170-2X                                                           | 7170-1X         | 7170-72X    |                    |
| 429           |                                                                   |                 | 7170-72X    |                    |
| 435           | Varies by transmission. Consult the Chelsea HY25-3000/US catalog. |                 |             |                    |
| 442           | 328170-76X                                                        | 328170-77X      | 7170-72X    |                    |
| 447           | 328170-76X                                                        | 328170-77X      | 7170-72X    |                    |
| 452           | 7170-2X                                                           | 7170-1X         | 7170-72X    |                    |
| 489           | 328170-200X                                                       | 328170-200X     | 7170-68X    |                    |
| 522           | 8000-18X                                                          |                 |             |                    |
| 541           | 328794-50X                                                        |                 |             |                    |
| 660           | 328170-76X                                                        | 328170-77X      | 7170-72X    | (D*) 7170-72X      |
| 680           | 328170-200X                                                       | 328170-200X     | 7170-68X    |                    |
| 800           | 328170-113X                                                       |                 |             |                    |
| 812           | 328170-115X                                                       | 328170-115X     | 7170-113X   |                    |
| 823           | 328170-8X                                                         |                 | 328170-185X |                    |
| 852           | 328170-8X                                                         |                 |             |                    |
| 859           | 7170-86X (FJ)<br>7170-118X (KV)                                   |                 |             |                    |
| 863           | 328170-8X                                                         |                 | 328170-185X |                    |
| 867           | 7170-86X (FJ)<br>7170-118X (KV)                                   |                 |             |                    |
| 880           | 328170-192X                                                       | 328170-195X     | 328170-201X |                    |
| 885           | 328170-192X                                                       |                 |             |                    |
| 626           | 328170-76X                                                        |                 | 7170-72X    | 7170-72X (626DJA*) |
| 628           | 328170-209X                                                       | 328170-209X     | 328170-201X |                    |
| 630           | 328170-76X                                                        | 328170-77X      | 7170-78X    | 7170-72X (630DJA*) |
| 645           | 328170-76X                                                        | 328170-77X      | 7170-78X    | 7170-72X (645DJA*) |
| 329138X,-1X   | 328170-95X                                                        |                 |             |                    |
| 328481X       | 328170-128X                                                       |                 |             |                    |
| 328481G       |                                                                   |                 | 8000-14X    |                    |
| 328564X       | 328170-127X                                                       |                 |             |                    |
| 328564G       |                                                                   |                 | 8000-15X    |                    |

\* This letter is the Mounting Type Designator found in the Model Number — Example: 442XSAHX-A3XK

**P.T.O./Dump Pump Combo Valve:**

This shift option is designed to make P.T.O./dump pump air shift applications safer and easier. The compact design features a safety interlock to prevent accidental P.T.O. engagement, automatic P.T.O. disengagement when in the “lower” position to prevent the P.T.O. from being accidentally left in gear, and controlled lowering (feathering) for smooth dump body descent. The controls are easily operated, even when the driver is wearing gloves. It is ideal for use in systems with Chelsea dump pumps, wet line reservoirs and P.T.O.s.

**Features**

| Part Number                    | P.T.O. Kick Out | Spring Return to Neutral on Dump Valve Control | Manual Return to Neutral on Dump Valve | Safety Lock on P.T.O. | Detent Lock on Neutral | Smooth Descent | LED Light |
|--------------------------------|-----------------|------------------------------------------------|----------------------------------------|-----------------------|------------------------|----------------|-----------|
| <b>Air Shift P.T.O.s</b>       |                 |                                                |                                        |                       |                        |                |           |
| 329214X & -2X                  | x               | x                                              |                                        | x                     | x                      | x              | x         |
| 329316X & -2X                  |                 |                                                | x                                      | x                     | x                      | x              | x         |
| <b>Hydraulic Shift P.T.O.s</b> |                 |                                                |                                        |                       |                        |                |           |
| 329214-1X                      | x               | x                                              |                                        | x                     | x                      | x              | x         |
| 329216-1X                      |                 |                                                | x                                      | x                     | x                      | x              | x         |

| Order Code                     | P.T.O. Models | Chelsea Part No. | Installation Kit | Description                                                                                                                                                                                                                                                        |
|--------------------------------|---------------|------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Air Shift P.T.O.s</b>       |               |                  |                  |                                                                                                                                                                                                                                                                    |
| S                              | 442 & 489     | 329214X          | 328388-65X       | Hoist-P.T.O. control valve that allows a smooth descent of the body in the “lower” position. Features automatic disengagement of the P.T.O. in “lower”. Lever on the control valve returns to neutral from the “raise” position when released (dead man’s handle). |
| S                              | 230/231 & 236 | 329214-2X        | 328388-89X       |                                                                                                                                                                                                                                                                    |
| T                              | 442 & 489     | 329316X          | 328388-72X       | Hoist-P.T.O. control valve that allows a smooth descent of the body in the “lower” position. Requires manual disengagement of the P.T.O. in “lower”.                                                                                                               |
| T                              | 230/231 & 236 | 329316-2X        | 328388-90X       |                                                                                                                                                                                                                                                                    |
| <b>Hydraulic Shift P.T.O.s</b> |               |                  |                  |                                                                                                                                                                                                                                                                    |
| S                              | 277/278       | 329214-1X        | 328388-85X       | Hoist-P.T.O. control valve that allows a smooth descent of the body in the “lower” position. Features automatic disengagement of the P.T.O. in “lower”. Lever on the control valve returns to neutral from the “raise” position when released (dead man’s handle). |
| S                              | 270/271       | 329214-1X        | 328388-87X       |                                                                                                                                                                                                                                                                    |
| T                              | 277/278       | 329216-1X        | 328388-86X       | Hoist-P.T.O. control valve that allows a smooth descent of the body in the “lower” position. Requires manual disengagement of the P.T.O. in “lower”.                                                                                                               |
| T                              | 270/271       | 329216-1X        | 328388-88X       |                                                                                                                                                                                                                                                                    |

### General Specifications

| Pump           | Gear Width | GPM US at 1000 R.P.M. | Cubic Inch Displacement | Horsepower Input (at 2000 PSI) 1000 R.P.M. | Maximum Pressure | Maximum Speed |
|----------------|------------|-----------------------|-------------------------|--------------------------------------------|------------------|---------------|
| C101/102-20    | 2.000"     | 22                    | 5.1                     | 25.6                                       | 2500             | 2400 R.P.M.   |
| C101/102-25    | 2.500"     | 27.6                  | 6.38                    | 31                                         | 2500             | 2400 R.P.M.   |
| G101/102-1-0.7 | .750"      | 6.4                   | 1.48                    | 6.2                                        | 2500             | 2400 R.P.M.   |
| G101/102-1-1.5 | 1.500"     | 12.8                  | 2.96                    | 13.7                                       | 2500             | 2400 R.P.M.   |
| G101/102-1-2.0 | 2.000"     | 17                    | 3.94                    | 18.8                                       | 2500             | 2400 R.P.M.   |

All data based on S.A.E. 10W oil at 150°F. Minimum pump speed at pressure is 800 R.P.M. US Gallons displacements are theoretical. They will vary depending on speed, pressure, and temperature.

### Three-Line Installation (for intermittent or continuous operation)

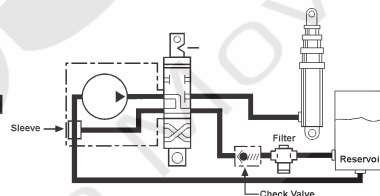
With the internal sleeve installed and three-line installation, two advantages are provided:

- A. Minimizes the possibility of overheating
- B. The filter keeps the system clean for prolonged trouble-free operation.\*

\*If filter is used, check valve must be added to prevent backflushing filter.

### Dump Pump 3-Line System Shown in the Neutral Mode

In the neutral mode, all the flow goes across the spool to the Return Port and back to tank because the internal by-pass passage is blocked by the sleeve in the inlet port. Any pressure higher than the setting of the relief valve is relieved internally through the by-pass to the Return Port.

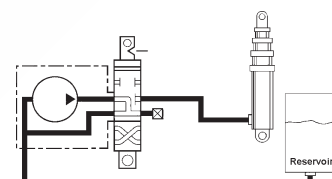


### Two-Line Installation (for intermittent operation only)

With the internal sleeve removed a two-line hook-up can be arranged, however the oil circulates internally (within the pump). Continuous operation may result in overheating.

### Dump Pump 2-Line System Shown in the Neutral Mode

In the neutral mode, the flow goes across the spool to the Return Port and the integral by-pass passages. Because the Return Port is plugged, and the pressure drop through the by-pass is less than what is required to activate the cylinder, all flow goes through the by-pass back to the inlet side of the pump. Any pressure higher than the setting of the relief valve is relieved internally through the by-pass, back to the inlet port.



These pumps are shipped with an internal sleeve for three-line (continuous duty, filtered) systems. For two-line systems for intermittent duty cycles\*, discard the sleeve.

\*Pump/P.T.O. operates 5 out of every 15 minutes. Note that three-line systems are always recommended to prolong the trouble-free operation of the hydraulic system.

Notes

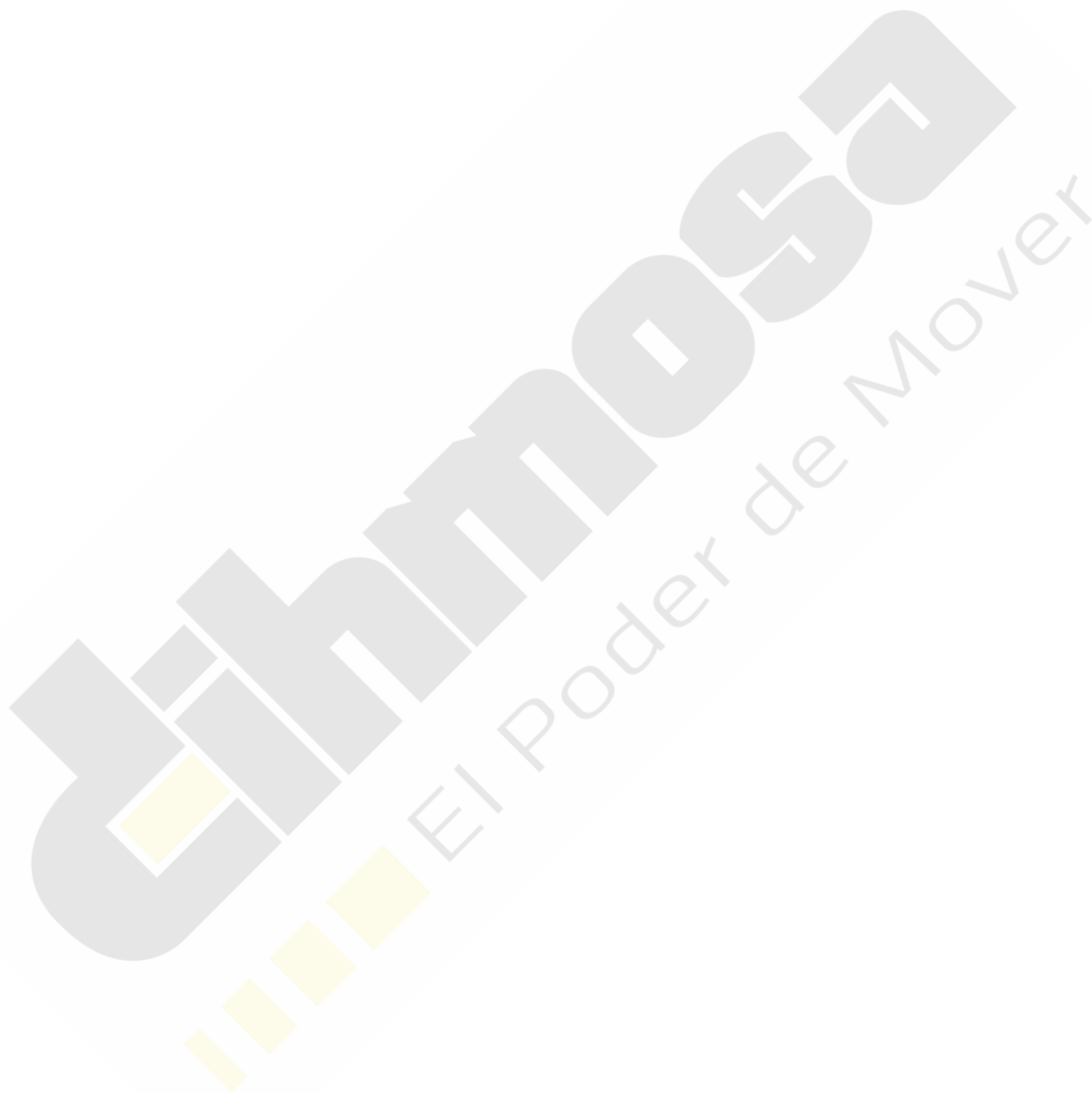
Handwritten notes area with horizontal lines. A large, faint watermark is visible across the page, reading "El Poder de Mover" diagonally. The watermark includes a stylized graphic of a truck or vehicle.

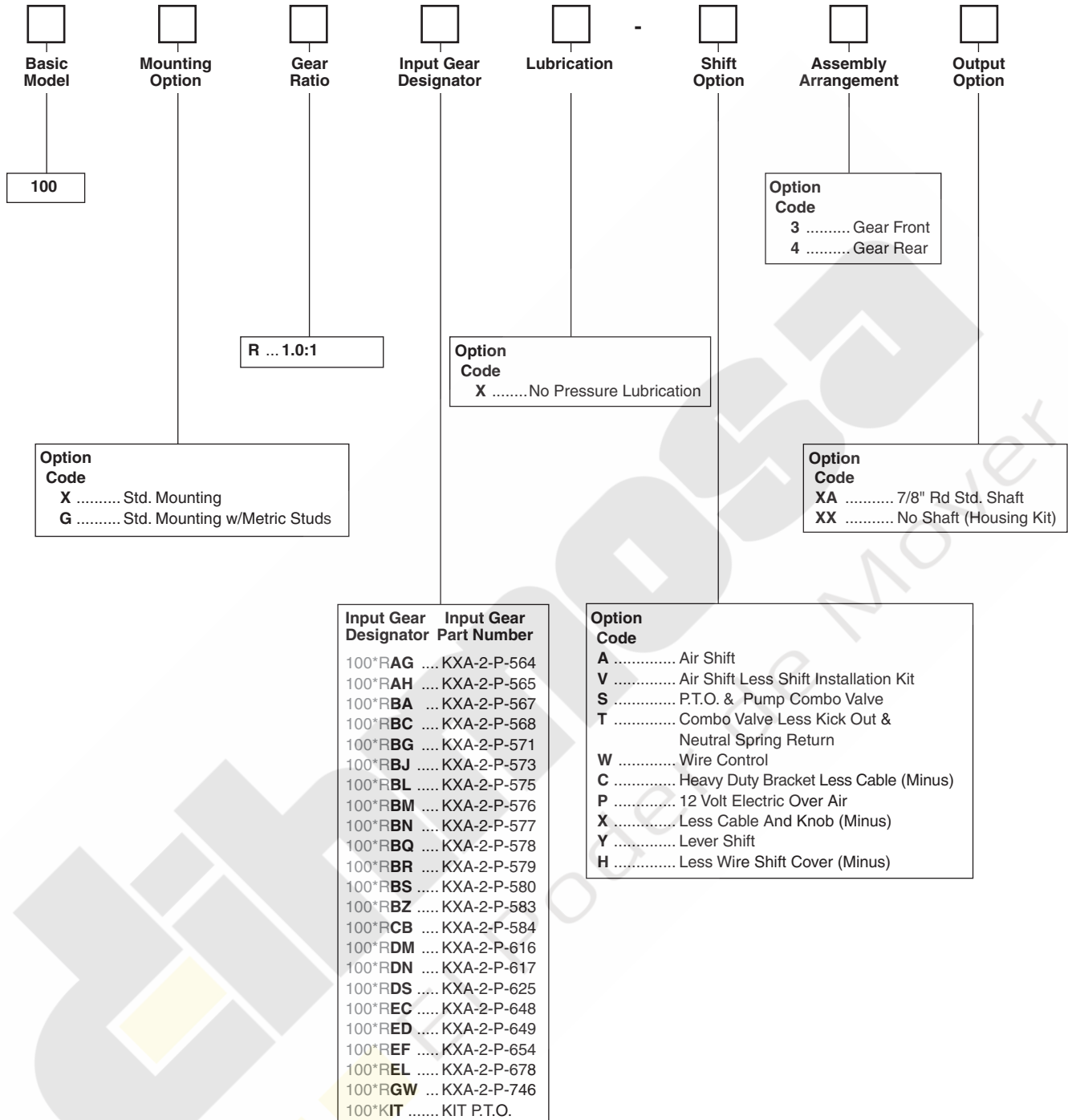
# ***Assembly Options***

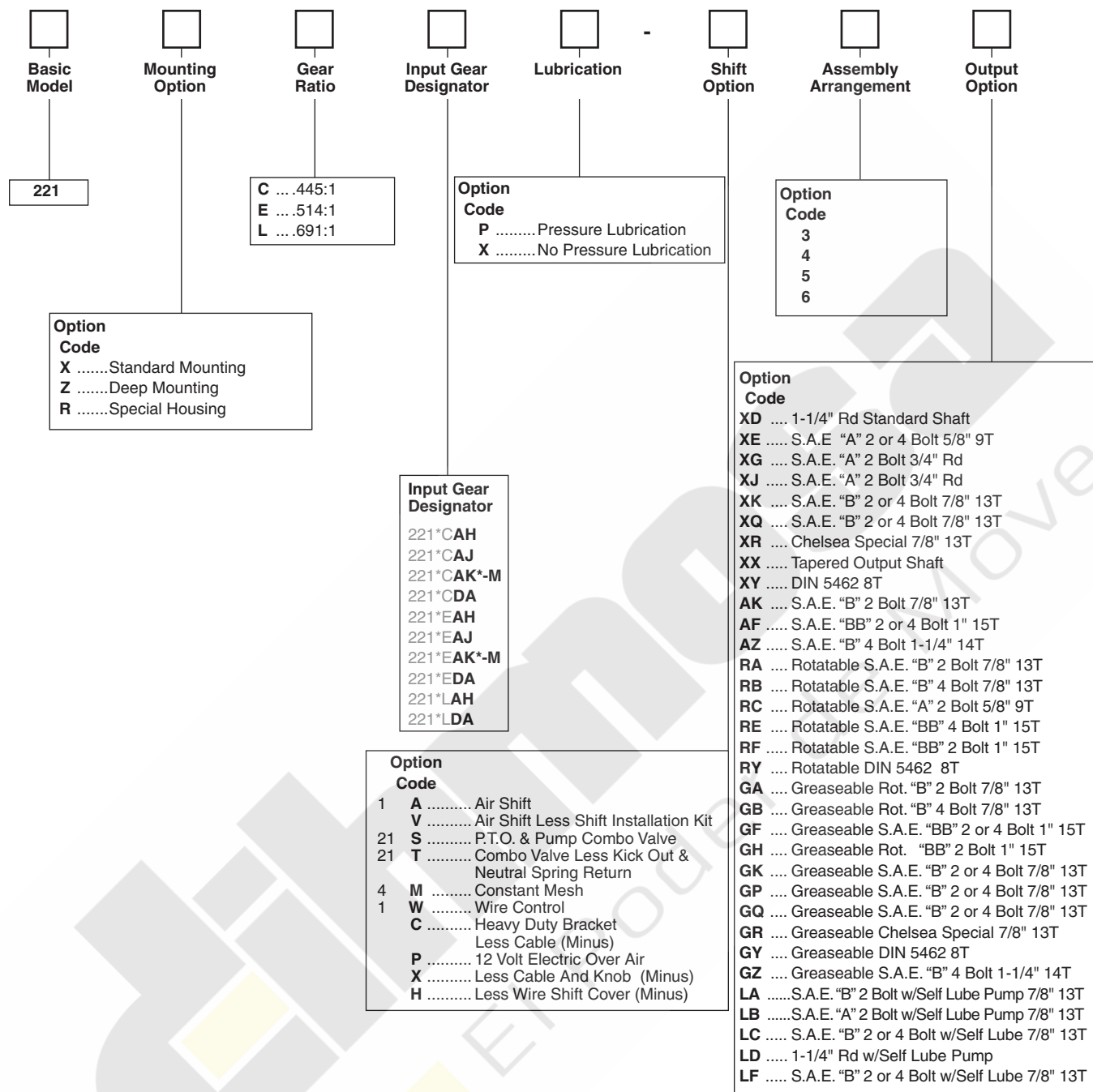


**Chemos**  
El Poder de Mover

|                                    |      |
|------------------------------------|------|
| 100 Series .....                   | 3.1  |
| 221 Series .....                   | 3.2  |
| 230/231 Series .....               | 3.3  |
| 236 Series .....                   | 3.4  |
| 243 Series .....                   | 3.5  |
| 246 Series .....                   | 3.6  |
| 250 Series .....                   | 3.7  |
| 267 Series .....                   | 3.8  |
| 269 Series .....                   | 3.9  |
| 270/271 Series .....               | 3.10 |
| 277/278 Series .....               | 3.11 |
| 290 Series .....                   | 3.12 |
| 340 Series .....                   | 3.13 |
| 352 Series .....                   | 3.14 |
| 429 Series .....                   | 3.15 |
| 435 Series .....                   | 3.16 |
| 442 Series .....                   | 3.17 |
| 447 Series .....                   | 3.18 |
| 452 Series .....                   | 3.19 |
| 489 Series .....                   | 3.20 |
| 522 Series .....                   | 3.21 |
| 541 Series .....                   | 3.22 |
| 660 Series .....                   | 3.23 |
| 680 Series .....                   | 3.24 |
| 800 Series .....                   | 3.25 |
| 812 Series .....                   | 3.26 |
| 823 Series .....                   | 3.27 |
| 852 Series .....                   | 3.28 |
| 859 Series .....                   | 3.29 |
| 863 Series .....                   | 3.30 |
| 867 Series .....                   | 3.31 |
| 880 Series .....                   | 3.32 |
| 885 Series .....                   | 3.33 |
| 901 Series .....                   | 3.34 |
| 912 Series .....                   | 3.35 |
| 941 Series .....                   | 3.36 |
| CAT-D .....                        | 3.37 |
| CAT-H .....                        | 3.38 |
| 2230 Series .....                  | 3.39 |
| 2442 Series .....                  | 3.40 |
| 626, 628, 630 and 645 Series ..... | 3.41 |



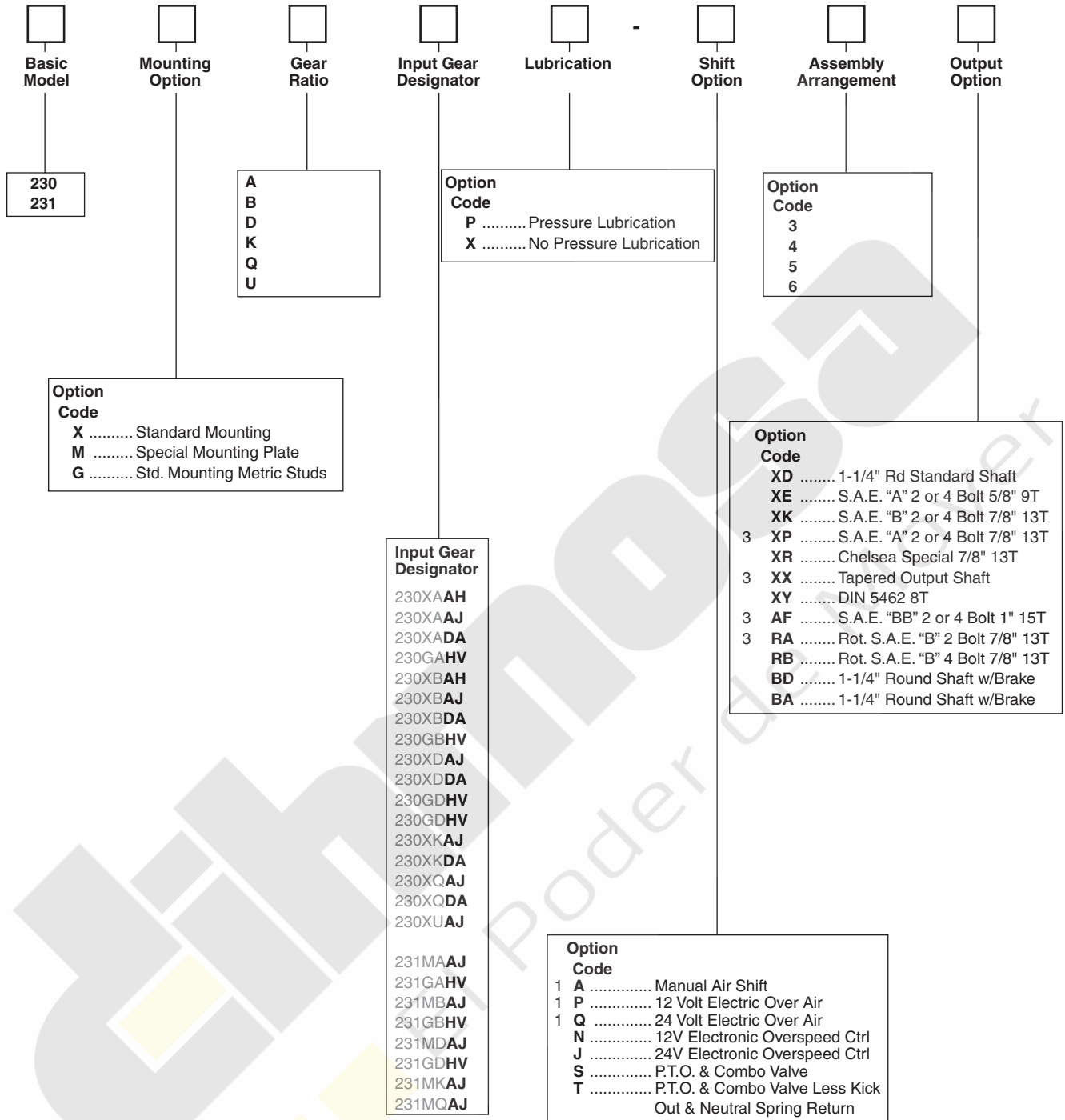




- ① Includes mounting parts  
④ Available only on 221\*CAK and 221\*EAK  
② Includes installation kit, console sold separately

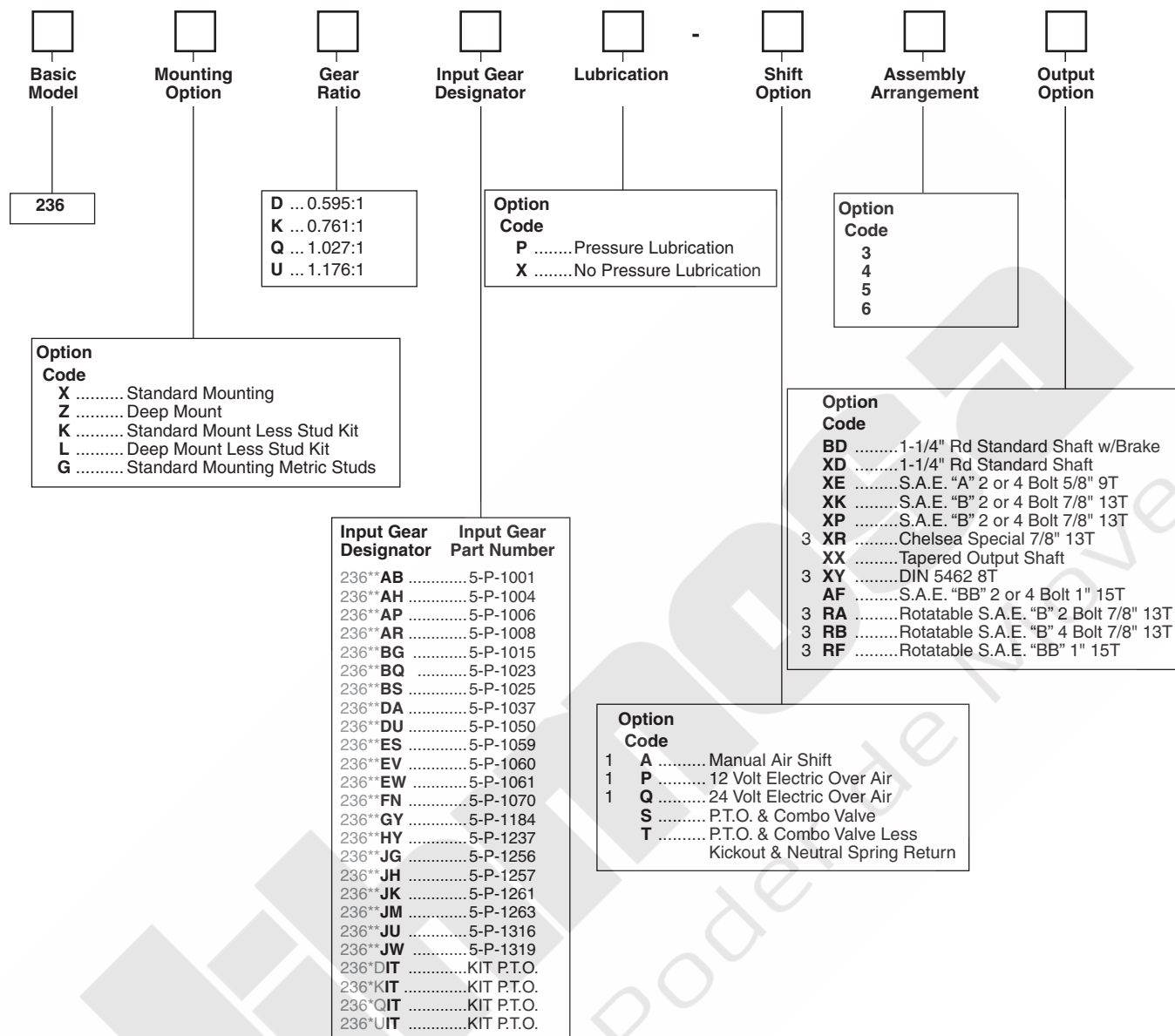
# Assembly Options

## Six Bolt Powershift 230/231 Series

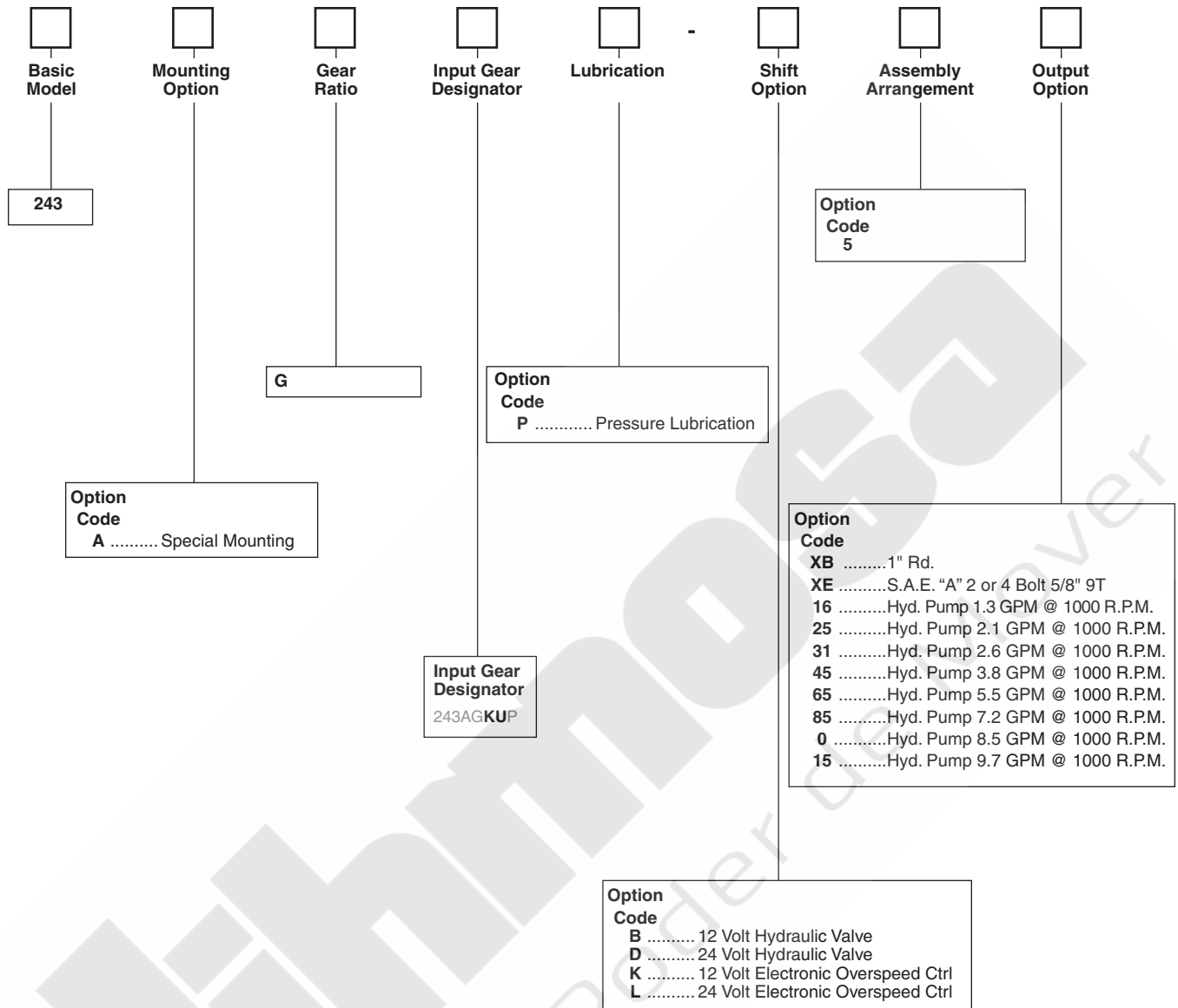


- ① Includes mounting parts  
③ Available assembly 3 and 5 only

## Assembly Options

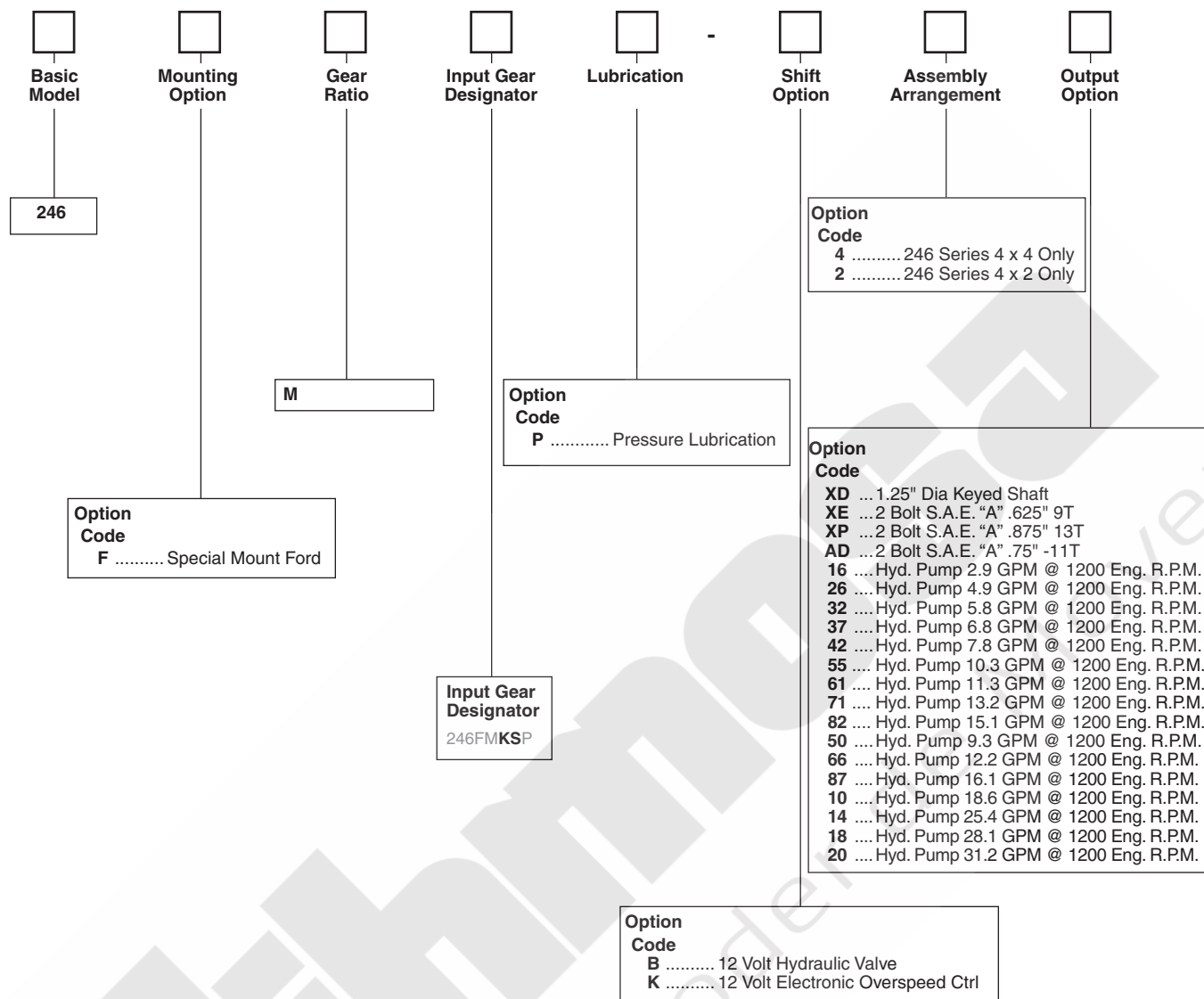
Six Bolt Powershift  
236 Series

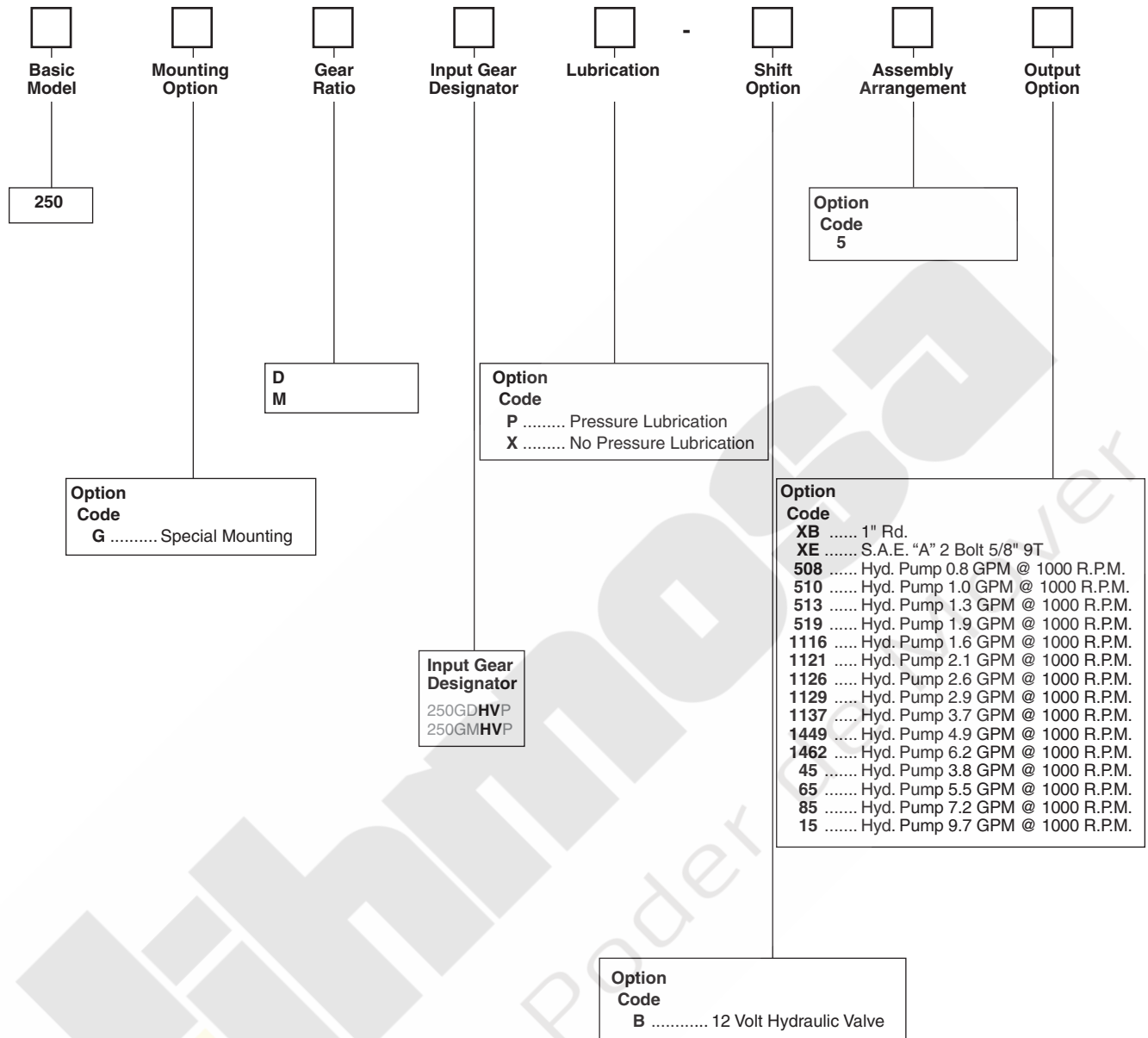
- ① Includes mounting parts  
③ Available assembly 3 and 5 only

**Assembly Options****Six Bolt Powershift  
243 Series**

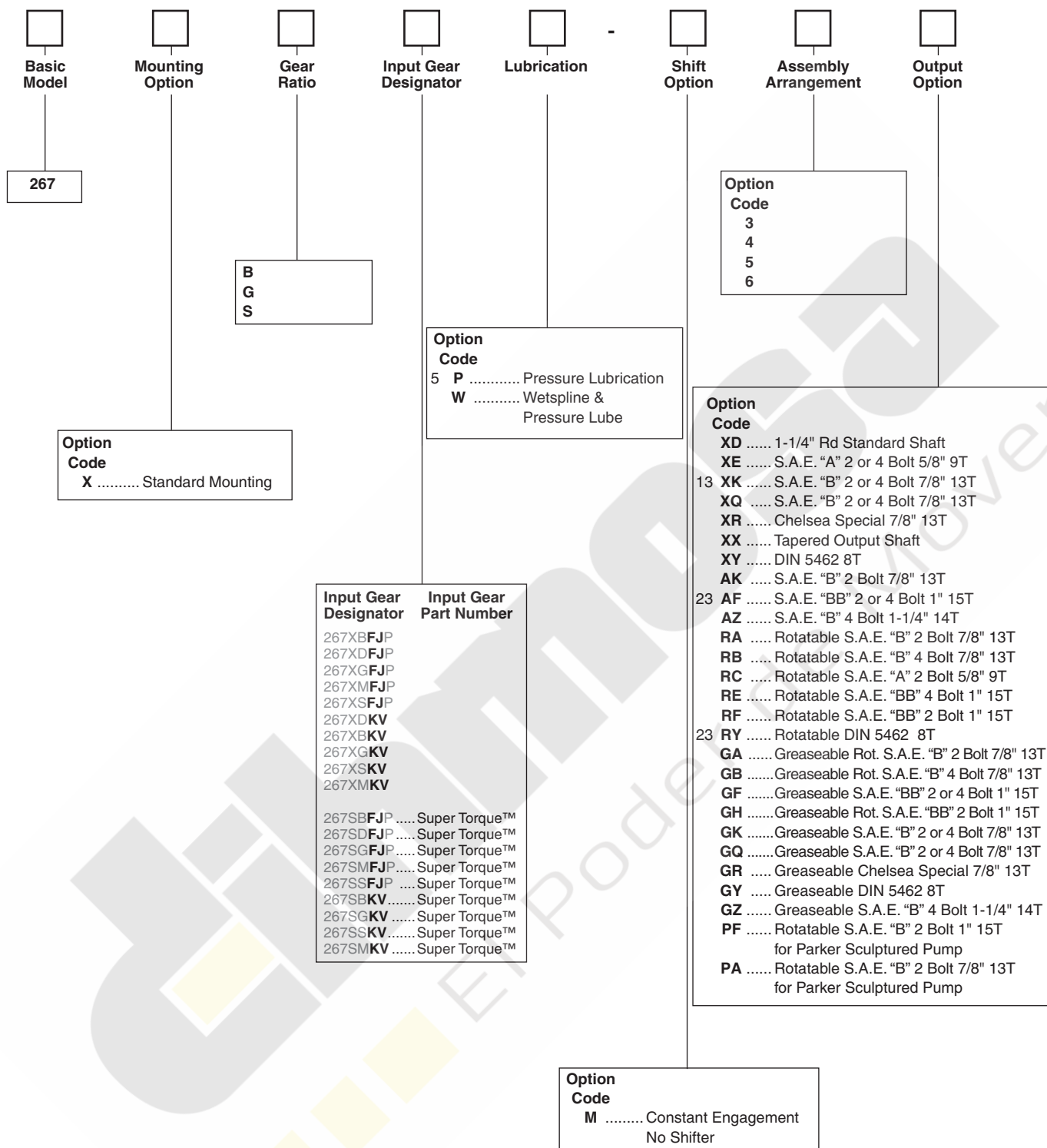
# Assembly Options

## Six Bolt Powershift 246 Series

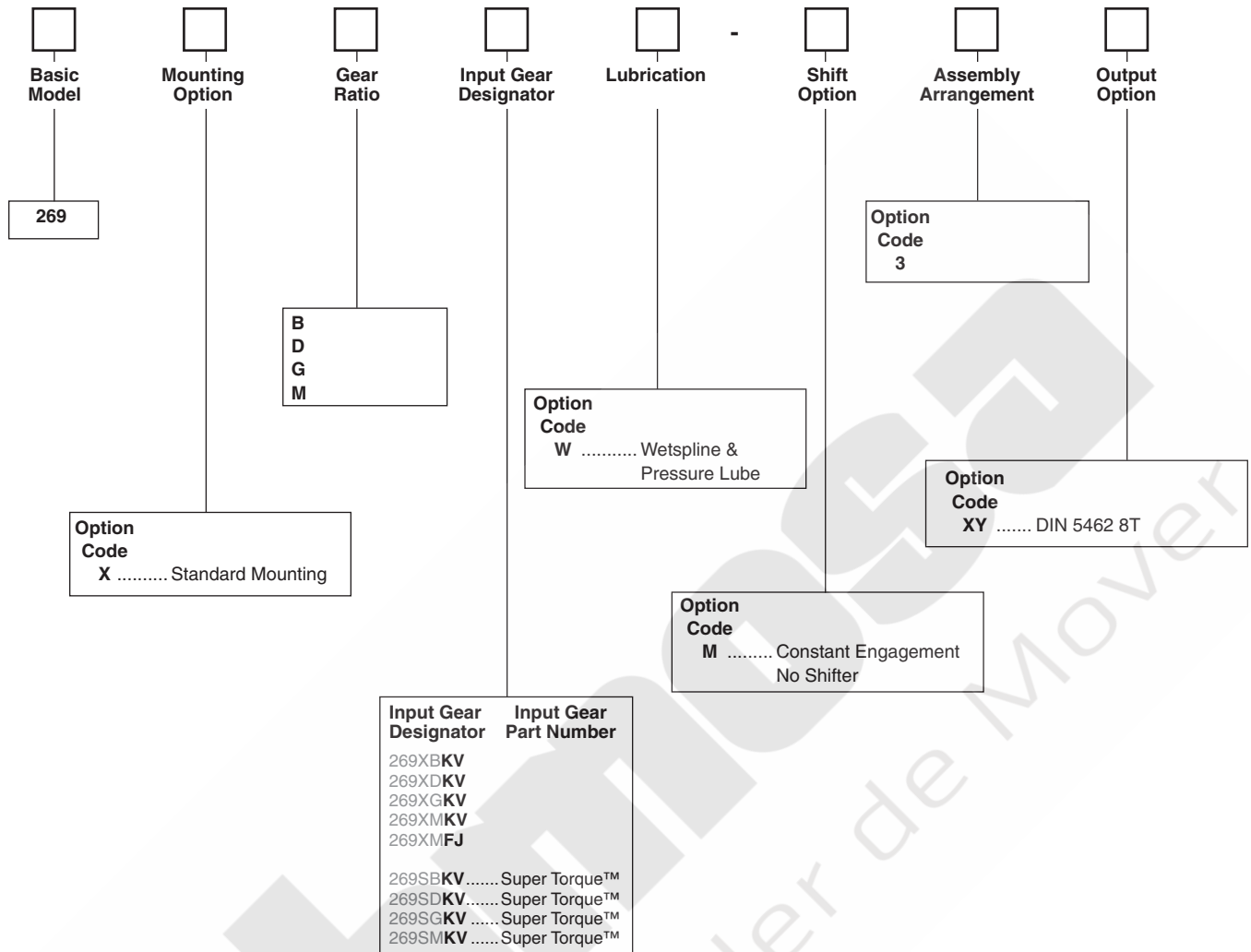




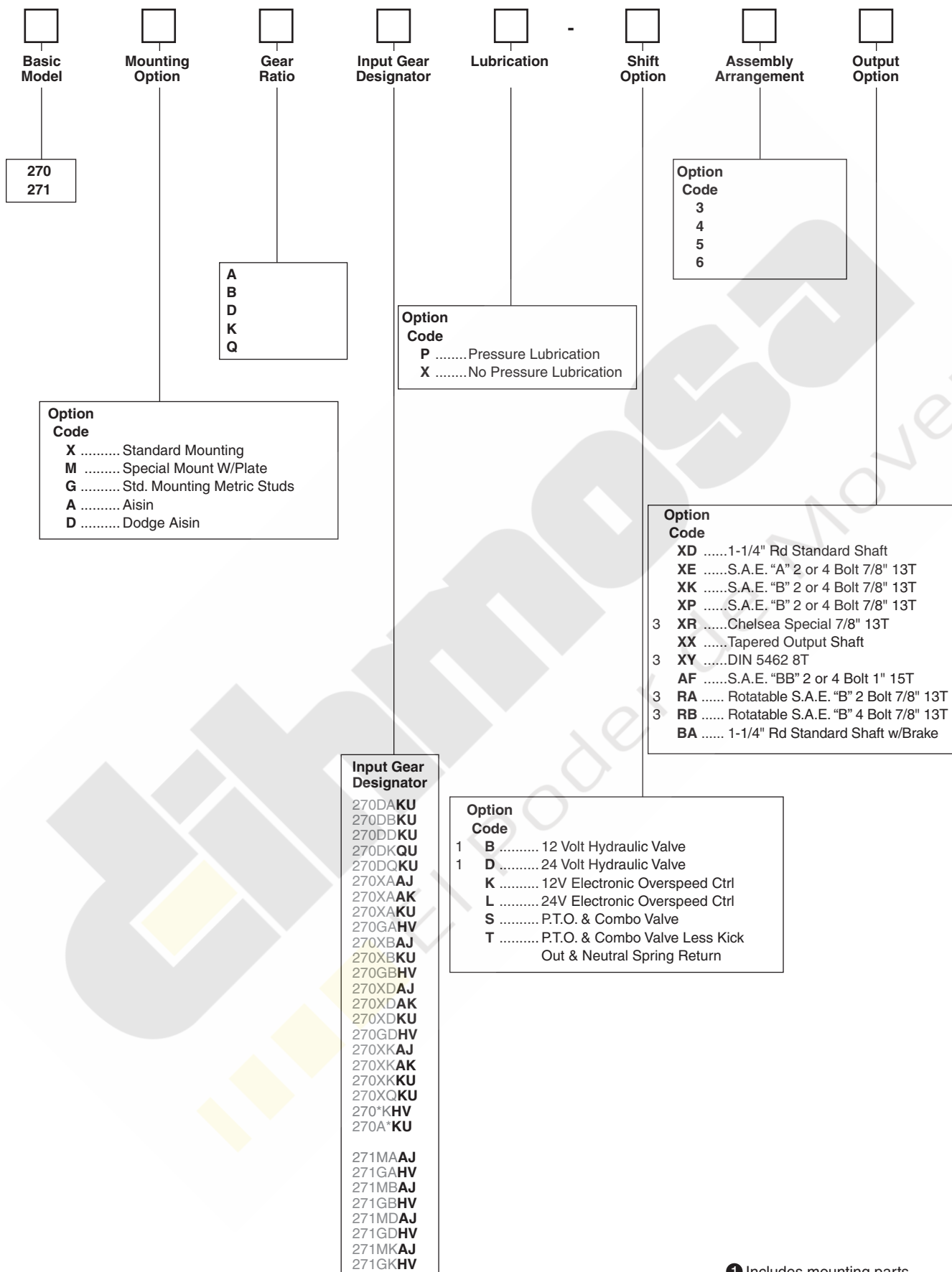
## Assembly Options

10 Bolt P.T.O.  
267 Series

- ⑤ Automatically pressure lubed  
 ⑬ Available assembly "5" only  
 ⑬ Must be purchased with wetspline



## Assembly Options

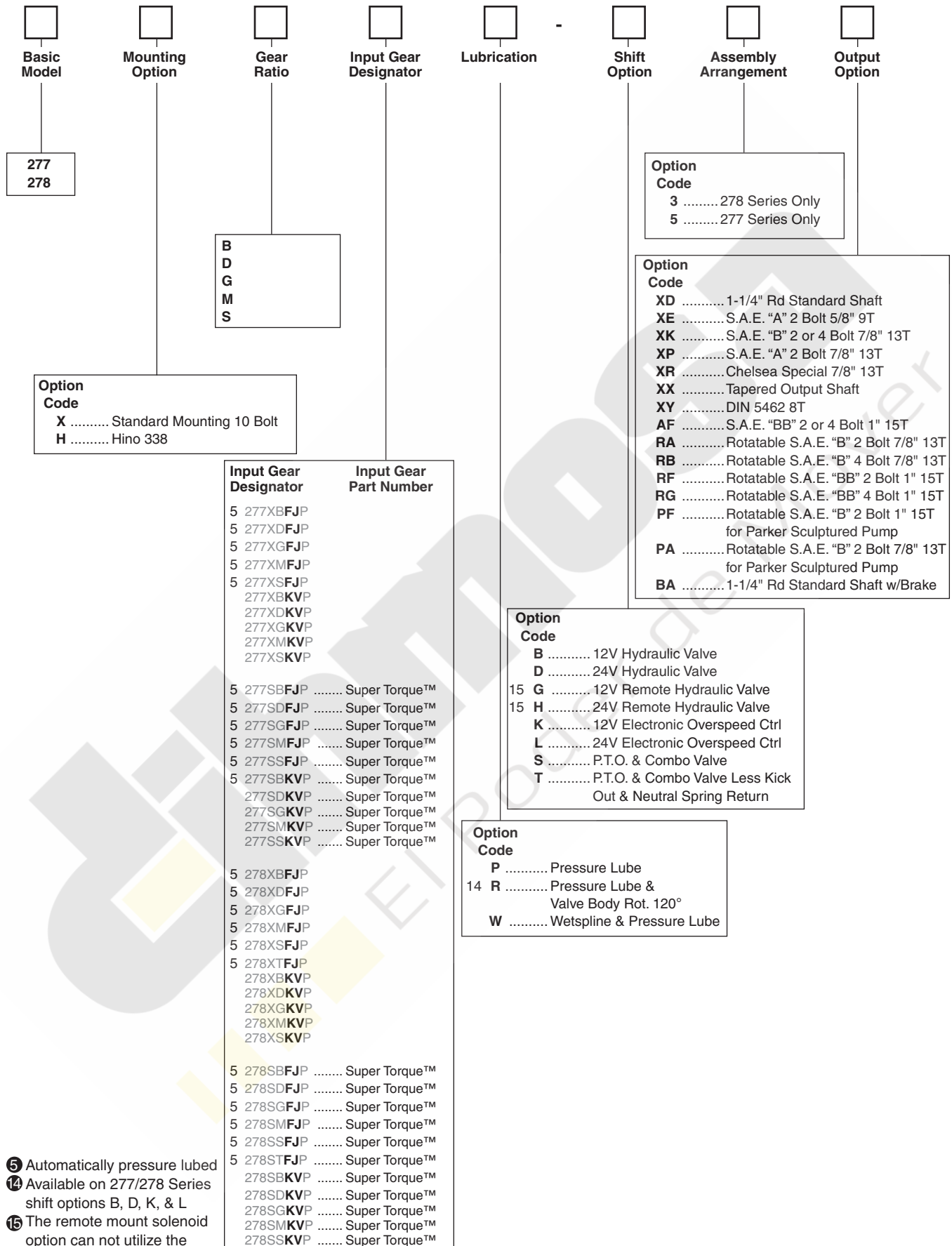
Six Bolt Powershift  
270/271 Series

① Includes mounting parts

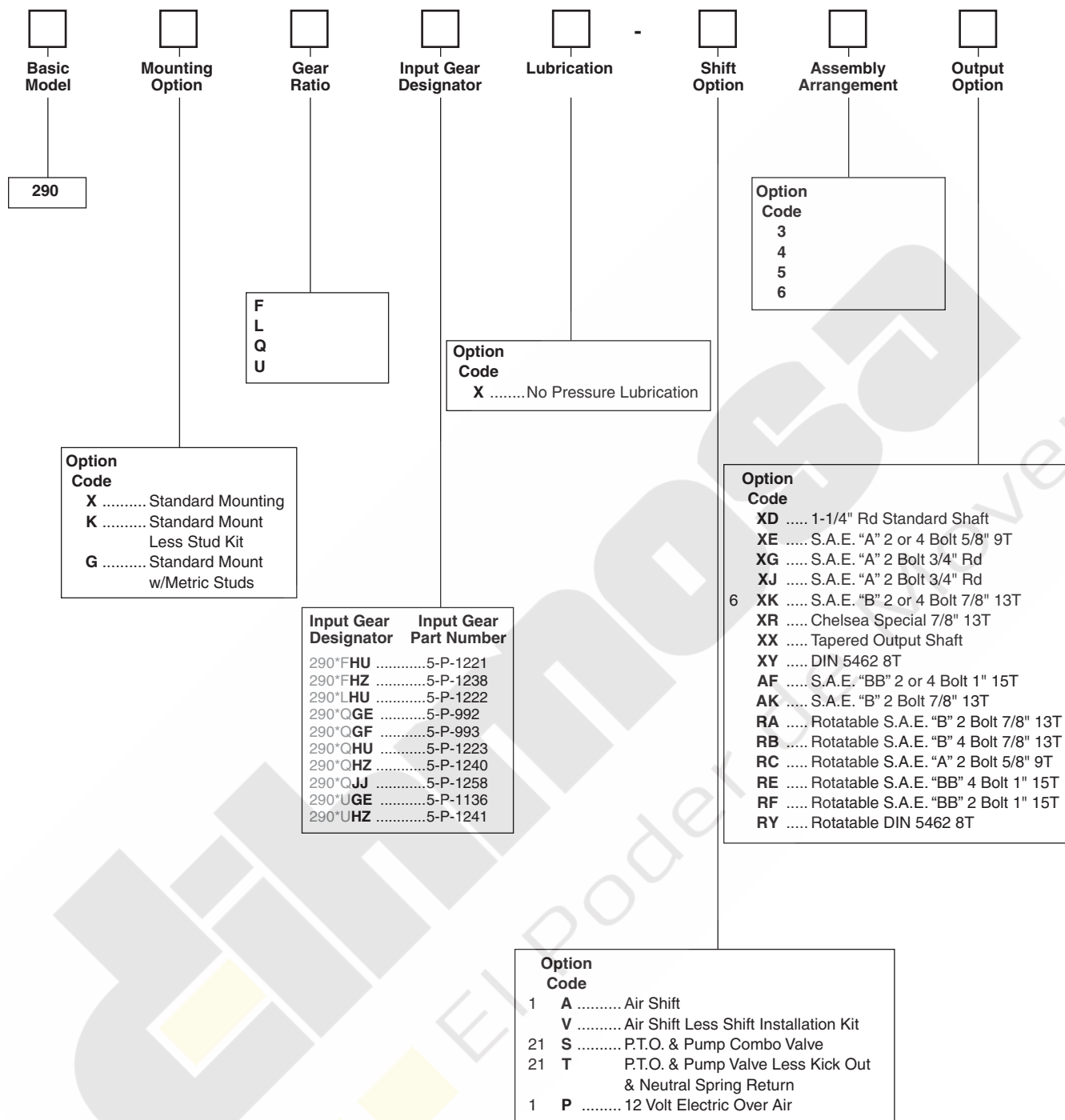
③ Available assembly 3 &amp; 5 only

# Assembly Options

## Ten Bolt Powershift 277/278 Series



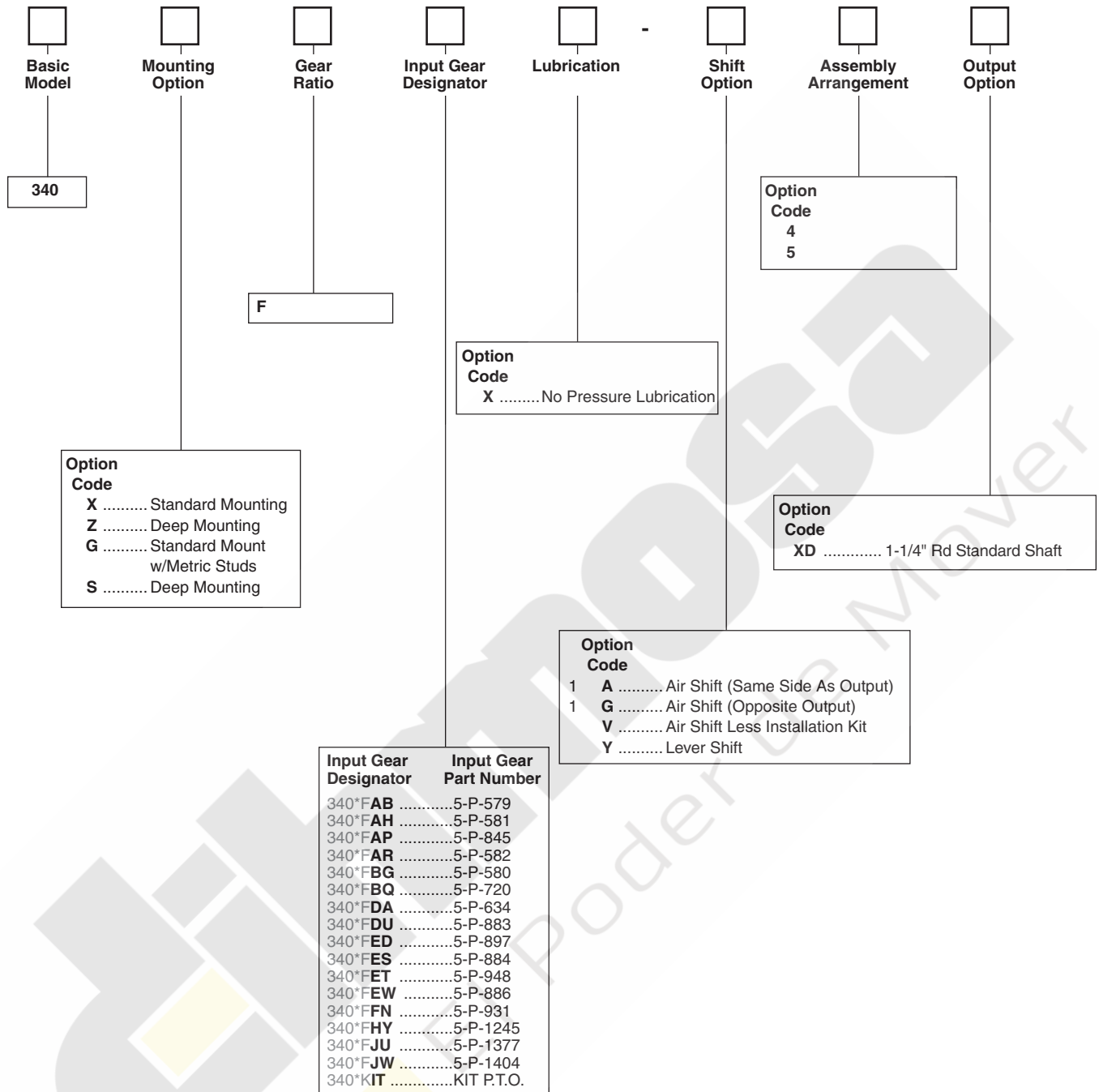
## Assembly Options

Six Bolt P.T.O.  
290 Series

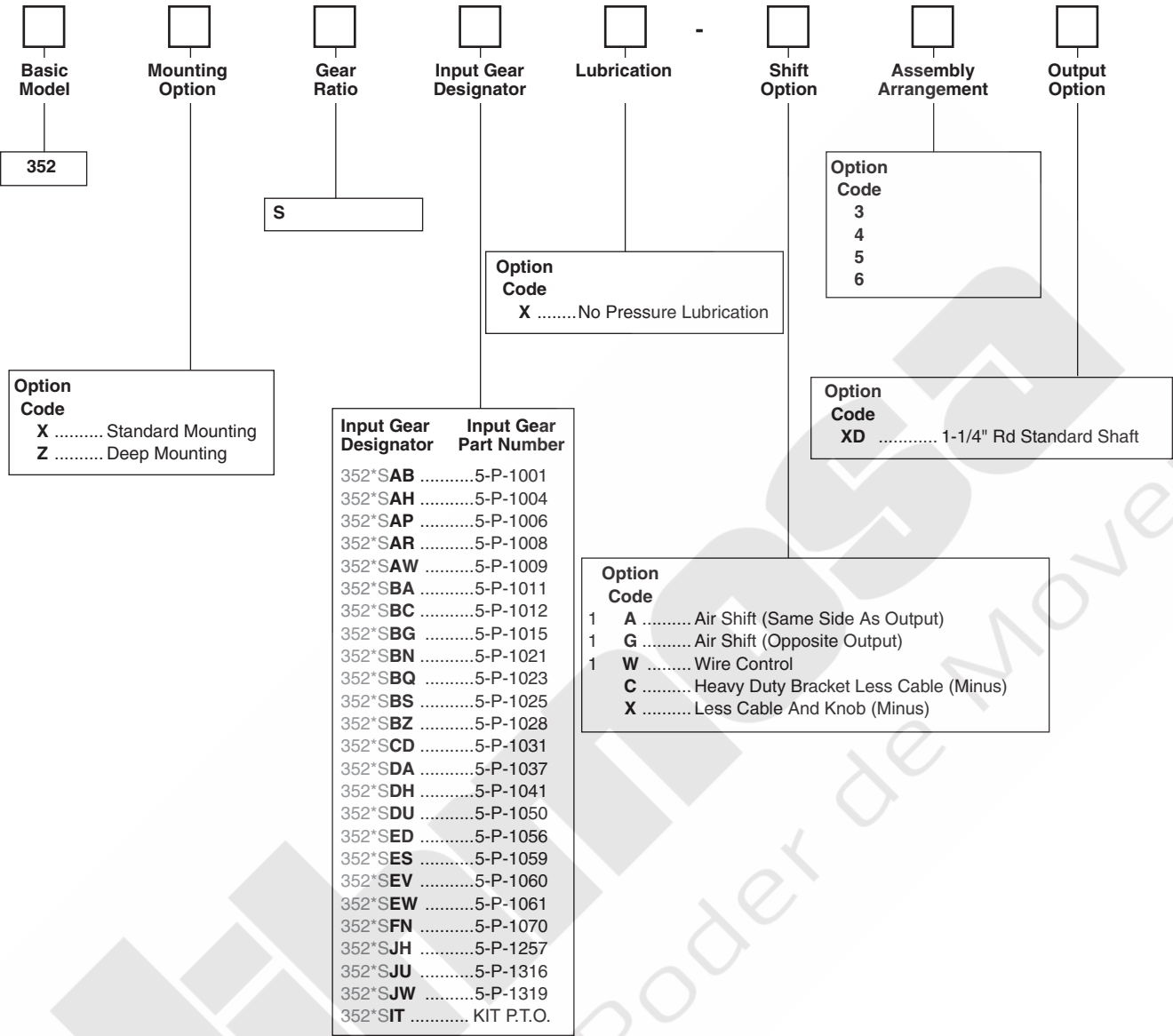
① Includes mounting parts

⑥ Available on "Q" ratio only

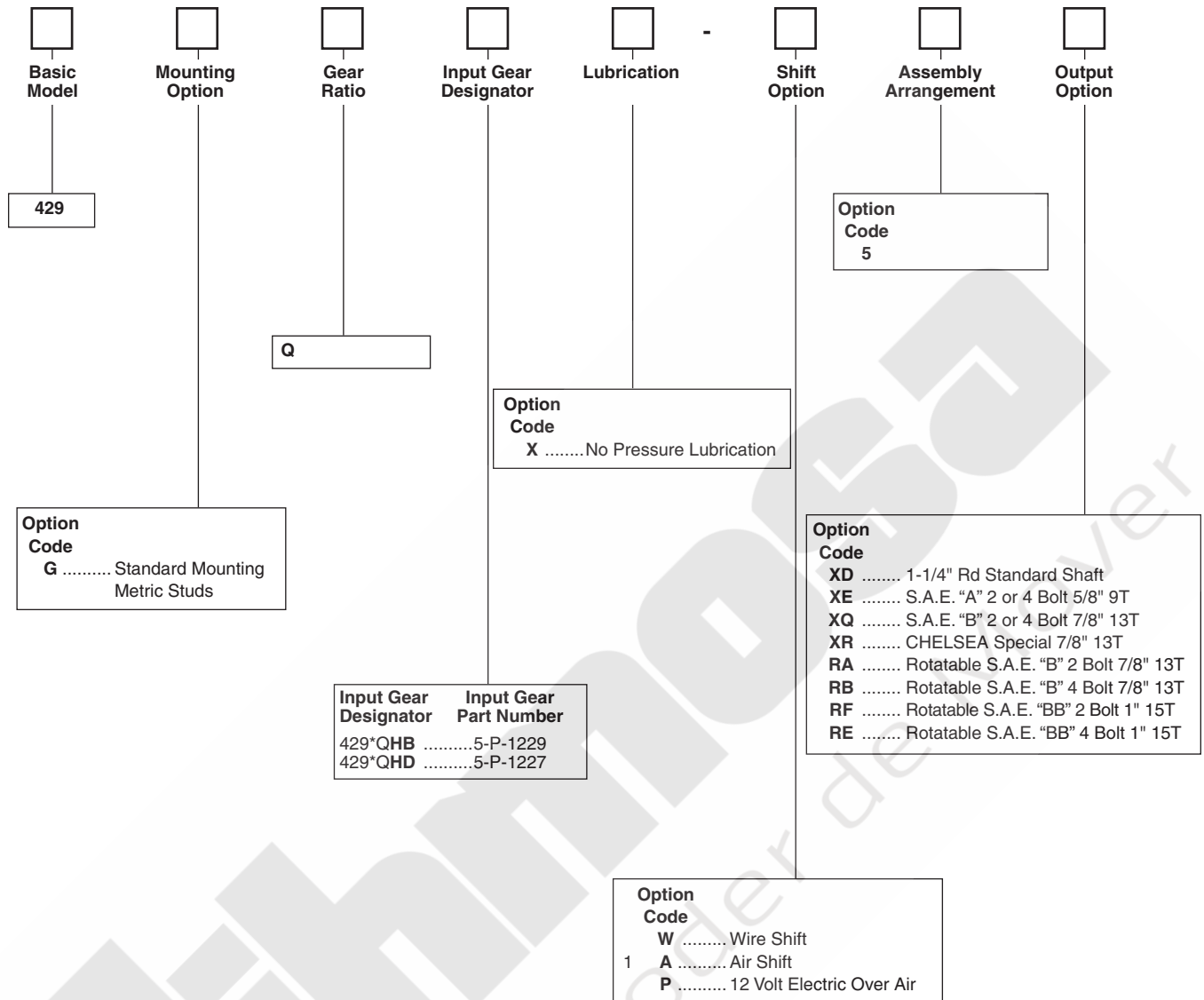
② Includes installation kit, console sold separately

**Assembly Options****Six Bolt Reversible P.T.O.  
340 Series**

① Includes mounting parts

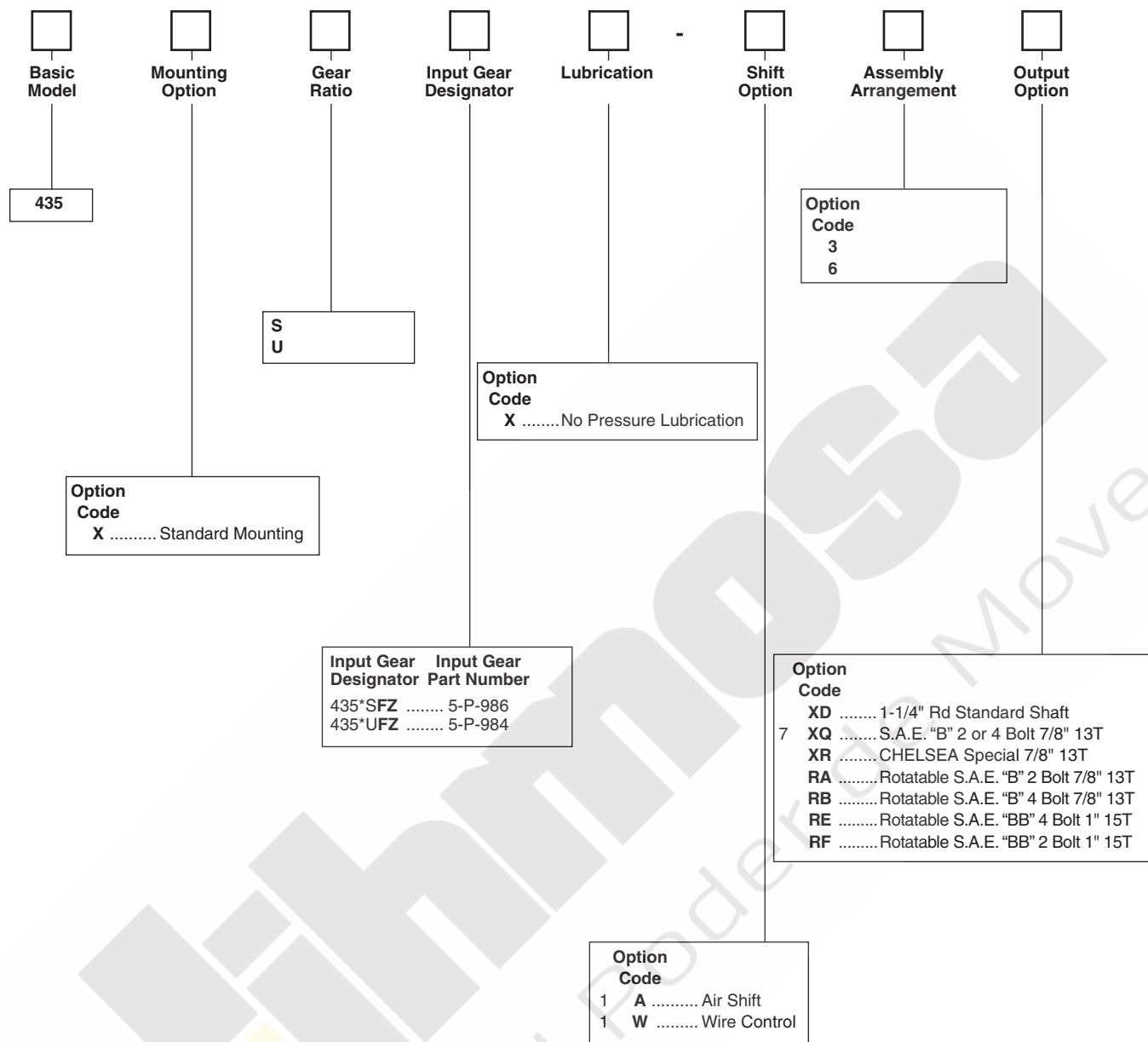


① Includes mounting parts



① Includes mounting parts

## Assembly Options

Six Bolt P.T.O.  
435 Series

- ① Includes mounting parts  
⑦ Available assembly "3" only

## Assembly Options

Six Bolt P.T.O.  
442 Series

|                                                                                                                                                                                         |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                                                         |                          |                                        |                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------|--------------------------|----------------------------------------|--------------------------|
| <input type="checkbox"/>                                                                                                                                                                | <input type="checkbox"/> | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/> | <input type="checkbox"/>                                                | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> |
| Basic Model                                                                                                                                                                             | Mounting Option          | Gear Ratio                                                                                                                                                                                                                                                                                                                                                                                                                     | Input Gear Designator    | Lubrication                                                             | Shift Option             | Assembly Arrangement                   | Output Option            |
| 442                                                                                                                                                                                     |                          | <b>Option Code</b><br>A ..... 0.391:1<br>C ..... 0.489:1<br>F ..... 0.520:1<br>H ..... 0.716:1<br>L ..... 0.691:1<br>Q ..... 0.865:1<br>R ..... 0.941:1<br>S ..... 1.205:1<br>U ..... 1.410:1<br>W ..... 1.713:1<br>X ..... 2.000:1                                                                                                                                                                                            |                          | <b>Option Code</b><br>P ..... Pressure Lube<br>X ..... No Pressure Lube |                          | <b>Option Code</b><br>3<br>4<br>5<br>6 |                          |
| <b>Option Code</b><br>G ..... Standard Mount w/Metric Studs<br>K ..... Standard Mount Less Stud Kit<br>L ..... Deep Mount Less Stud Kit<br>X ..... Standard Mount<br>Z ..... Deep Mount |                          | <b>Option Code</b><br>1 A ..... Air Shift<br>V ..... Air Shift Less Installation Kit<br>21 S ..... P.T.O. & Pump Combo Valve<br>21 T ..... P.T.O. & Pump Valve Less Kick Out & Neutral Spring Return<br>1 W ..... Cable Shift<br>C ..... Heavy Duty Bracket Less Cable (Minus)<br>M ..... Constant Mesh<br>1 P ..... 12 Volt Electric Over Air<br>X ..... Less Cable and Knob (Minus)<br>H ..... Less Wire Shift Cover (Minus) |                          |                                                                         |                          |                                        |                          |

| Input Gear Designator | Input Gear Part Number | Input Gear Designator | Input Gear Part Number | Input Gear Designator | Input Gear Part Number |
|-----------------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|
| 442**AB               | 5-P-1001               | 442**JH               | 5-P-1257               | 442*FBQ               | 5-P-1084               |
| 442**AH               | 5-P-1004               | 442**JK               | 5-P-1261               | 442*FDA               | 5-P-1085               |
| 442**AP               | 5-P-1006               | 442**JU               | 5-P-1316               | 442*FDU               | 5-P-1088               |
| 442**AR               | 5-P-1008               | 442**JW               | 5-P-1319               | 442*FED               | 5-P-1090               |
| 442**BG               | 5-P-1015               | 442**JY               | 5-P-1312               | 442*FES               | 5-P-1092               |
| 442**BQ               | 5-P-1023               | 442**KB               | 5-P-1321               | 442*FEV               | 5-P-1094               |
| 442**BZ               | 5-P-1028               | 442*AAB               | 5-P-1279               | 442*FEW               | 5-P-1095               |
| 442**DA               | 5-P-1037               | 442*AAH               | 5-P-1280               | 442*FFN               | 5-P-1097               |
| 442**DU               | 5-P-1050               | 442*AAP               | 5-P-1282               | 442*FGS               | 5-P-1151               |
| 442**ES               | 5-P-1059               | 442*AAR               | 5-P-1283               | 442*FHV               | 5-P-1300               |
| 442**EV               | 5-P-1060               | 442*ADA               | 5-P-1284               | 442*FJU               | 5-P-1317               |
| 442**EW               | 5-P-1061               | 442*AES               | 5-P-1285               | 442*FJW               | 5-P-1320               |
| 442**FC               | 5-P-1064               | 442*BAH               | 5-P-1418               | 442*HAH               | 5-P-1364               |
| 442**FN               | 5-P-1070               | 442*CAB               | 5-P-1286               | 442*HDA               | 5-P-1365               |
| 9 442**GR             | 5-P-1157               | 442*CAH               | 5-P-1287               | 442*AIT               | KIT P.T.O.             |
| 442**GY               | 5-P-1184               | 442*CAB               | 5-P-1289               | 442*CIT               | KIT P.T.O.             |
| 442**GZ               | 5-P-1185               | 442*CAR               | 5-P-1290               | 442*FIT               | KIT P.T.O.             |
| 442**HD               | 5-P-1189               | 442*CDA               | 5-P-1291               | 442*HIT               | KIT P.T.O.             |
| 442**HG               | 5-P-1192               | 442*CES               | 5-P-1292               | 442*LIT               | KIT P.T.O.             |
| 442**HH               | 5-P-1193               | 442*FAB               | 5-P-1076               | 442*QIT               | KIT P.T.O.             |
| 442**HL               | 5-P-1196               | 442*FAH               | 5-P-1077               | 442*RIT               | KIT P.T.O.             |
| 442**HQ               | 5-P-1200               | 442*FAP               | 5-P-1079               | 442*SIT               | KIT P.T.O.             |
| 442**HY               | 5-P-1237               | 442*FAR               | 5-P-1080               | 442*UIT               | KIT P.T.O.             |
| 442**JE               | 5-P-1249               | 442*FBC               | 5-P-1081               | 442*VIT               | KIT P.T.O.             |
| 442**JG               | 5-P-1256               | 442*FBG               | 5-P-1082               | 442*XIT               | KIT P.T.O.             |

| Option Code                                          |
|------------------------------------------------------|
| XD ..... 1-1/4" Rd Standard Shaft                    |
| XE ..... S.A.E. "A" 2 or 4 Bolt 5/8" 9T              |
| XG ..... S.A.E. "A" 2 Bolt 3/4" Rd                   |
| XJ ..... S.A.E. "A" 2 Bolt 3/4" Rd                   |
| XK ..... S.A.E. "B" 2 or 4 Bolt 7/8" 13T             |
| XQ ..... S.A.E. "B" 2 or 4 Bolt 7/8" 13T             |
| XR ..... Chelsea Special 7/8" 13T                    |
| XX ..... Tapered Output Shaft                        |
| XY ..... DIN 5462 8T                                 |
| AK ..... S.A.E. "B" 2 Bolt 7/8" 13T                  |
| AF ..... S.A.E. "BB" 2 or 4 Bolt 1" 15T              |
| AZ ..... S.A.E. "B" 4 Bolt 1-1/4" 14T                |
| RA ..... Rotatable S.A.E. "B" 2 Bolt 7/8" 13T        |
| RB ..... Rotatable S.A.E. "B" 4 Bolt 7/8" 13T        |
| RC ..... Rotatable S.A.E. "A" 2 Bolt 5/8" 9T         |
| RD ..... Rotatable S.A.E. "A" 2 Bolt 7/8" 13T        |
| RE ..... Rotatable S.A.E. "BB" 4 Bolt 1" 15T         |
| RF ..... Rotatable S.A.E. "BB" 2 Bolt 1" 15T         |
| RY ..... Rotatable DIN 5462 8T                       |
| GA ..... Greaseable Rotatable "B" 2 Bolt 7/8" 13T    |
| GB ..... Greaseable Rotatable "B" 4 Bolt 7/8" 13T    |
| GF ..... Greaseable S.A.E. "BB" 2 or 4 Bolt 1" 15T   |
| GH ..... Greaseable Rot. S.A.E. "BB" 2 Bolt 1" 15T   |
| GK ..... Greaseable S.A.E. "B" 2 or 4 Bolt 7/8" 13T  |
| GP ..... Greaseable S.A.E. "B" 2 or 4 Bolt 7/8" 13T  |
| GQ ..... Greaseable S.A.E. "B" 2 or 4 Bolt 7/8" 13T  |
| GR ..... Greaseable Chelsea Special 7/8" 13T         |
| GY ..... Greaseable DIN 5462 8T                      |
| GZ ..... Greaseable S.A.E. "B" 4 Bolt 1-1/4" 14T     |
| LA ..... S.A.E. "B" 2 Bolt w/Self Lube Pump 7/8" 13T |
| LB ..... S.A.E. "A" 2 Bolt w/Self Lube Pump 7/8" 13T |
| LC ..... S.A.E. "B" 2 or 4 Bolt w/Self Lube 7/8" 13T |
| LD ..... 1-1/4" Rd w/Self Lube Pump                  |
| LF ..... S.A.E. "B" 2 or 4 Bolt w/Self Lube 7/8" 13T |

- ① Includes mounting parts  
⑨ Includes adapter 329181-2X  
② Includes installation kit, console sold separately

## Assembly Options

Six Bolt P.T.O.  
447 Series

| Basic Model | Mounting Option | Gear Ratio       | Input Gear Designator | Lubrication | Shift Option | Assembly Arrangement | Output Option |
|-------------|-----------------|------------------|-----------------------|-------------|--------------|----------------------|---------------|
| 447         |                 | Q<br>S<br>U<br>W |                       |             |              |                      |               |

| Option Code | Description                   |
|-------------|-------------------------------|
| X           | Standard Mounting             |
| Z           | Deep Mounting                 |
| G           | Standard Mount w/Metric Studs |
| K           | Standard Mount Less Stud Kit  |
| L           | Deep Mount Less Stud Kit      |

| Option Code | Description      |
|-------------|------------------|
| P           | Pressure Lube    |
| X           | No Pressure Lube |

| Option Code | Description |
|-------------|-------------|
| 3           |             |
| 4           |             |
| 5           |             |
| 6           |             |

| Option Code | Description                                 |
|-------------|---------------------------------------------|
| XD          | 1-1/4" Rd Standard Shaft                    |
| XE          | S.A.E. "A" 2 or 4 Bolt 5/8" 9T              |
| XG          | S.A.E. "A" 2 Bolt 3/4" Rd                   |
| XJ          | S.A.E. "A" 2 Bolt 3/4" Rd                   |
| XK          | S.A.E. "B" 2 or 4 Bolt 7/8" 13T             |
| XQ          | S.A.E. "B" 2 or 4 Bolt 7/8" 13T             |
| XR          | Chelsea Special 7/8" 13T                    |
| XX          | Tapered Output Shaft                        |
| XY          | DIN 5462 8T                                 |
| AK          | S.A.E. "B" 2 Bolt 7/8" 13T                  |
| AF          | S.A.E. "BB" 2 or 4 Bolt 1" 15T              |
| AZ          | S.A.E. "B" 4 Bolt 1-1/4" 14T                |
| RA          | Rotatable S.A.E. "B" 2 Bolt 7/8" 13T        |
| RB          | Rotatable S.A.E. "B" 4 Bolt 7/8" 13T        |
| RC          | Rotatable S.A.E. "A" 2 Bolt 5/8" 9T         |
| RE          | Rotatable S.A.E. "BB" 4 Bolt 1" 15T         |
| RY          | Rotatable DIN 5462 8T                       |
| GA          | Greaseable Rotatable "B" 2 Bolt 7/8" 13T    |
| GB          | Greaseable Rotatable "B" 4 Bolt 7/8" 13T    |
| GF          | Greaseable S.A.E. "BB" 2 or 4 Bolt 1" 15T   |
| GH          | Greaseable Rot. S.A.E. "BB" 2 Bolt 1" 15T   |
| GK          | Greaseable S.A.E. "B" 2 or 4 Bolt 7/8" 13T  |
| GP          | Greaseable S.A.E. "B" 2 or 4 Bolt 7/8" 13T  |
| GQ          | Greaseable S.A.E. "B" 2 or 4 Bolt 7/8" 13T  |
| GR          | Greaseable Chelsea Special 7/8" 13T         |
| GY          | Greaseable DIN 5462 8 T                     |
| GZ          | Greaseable S.A.E. "B" 4 Bolt 1-1/4" 14T     |
| LA          | S.A.E. "B" 2 Bolt w/Self Lube Pump 7/8" 13T |
| LB          | S.A.E. "A" 2 Bolt w/Self Lube Pump 7/8" 13T |
| LC          | S.A.E. "B" 2 or 4 Bolt w/Self Lube 7/8" 13T |
| LD          | 1-1/4" Rd w/Self Lube Pump                  |
| LF          | S.A.E. "B" 2 or 4 Bolt w/Self Lube 7/8" 13T |

| Option Code | Description                                               |
|-------------|-----------------------------------------------------------|
| 1 A         | Air Shift                                                 |
| 21 V        | Air Shift Less Shift Installation Kit                     |
| 21 S        | P.T.O. & Pump Combo Valve                                 |
| 21 T        | P.T.O. & Pump Valve Less Kick Out & Neutral Spring Return |
| W           | Wire Control                                              |
| C           | Heavy Duty Bracket Less Cable (Minus)                     |
| M           | Constant Mesh                                             |
| P           | 12 Volt Electric Over Air                                 |
| 17 E        | NISSAN & 447A P.T.O. 1995 - 1998                          |
| 10 G        | NISSAN & 447A P.T.O. 1999 & After                         |
| X           | Less Cable And Knob (Minus)                               |
| H           | Less Wire Shift Cover (Minus)                             |

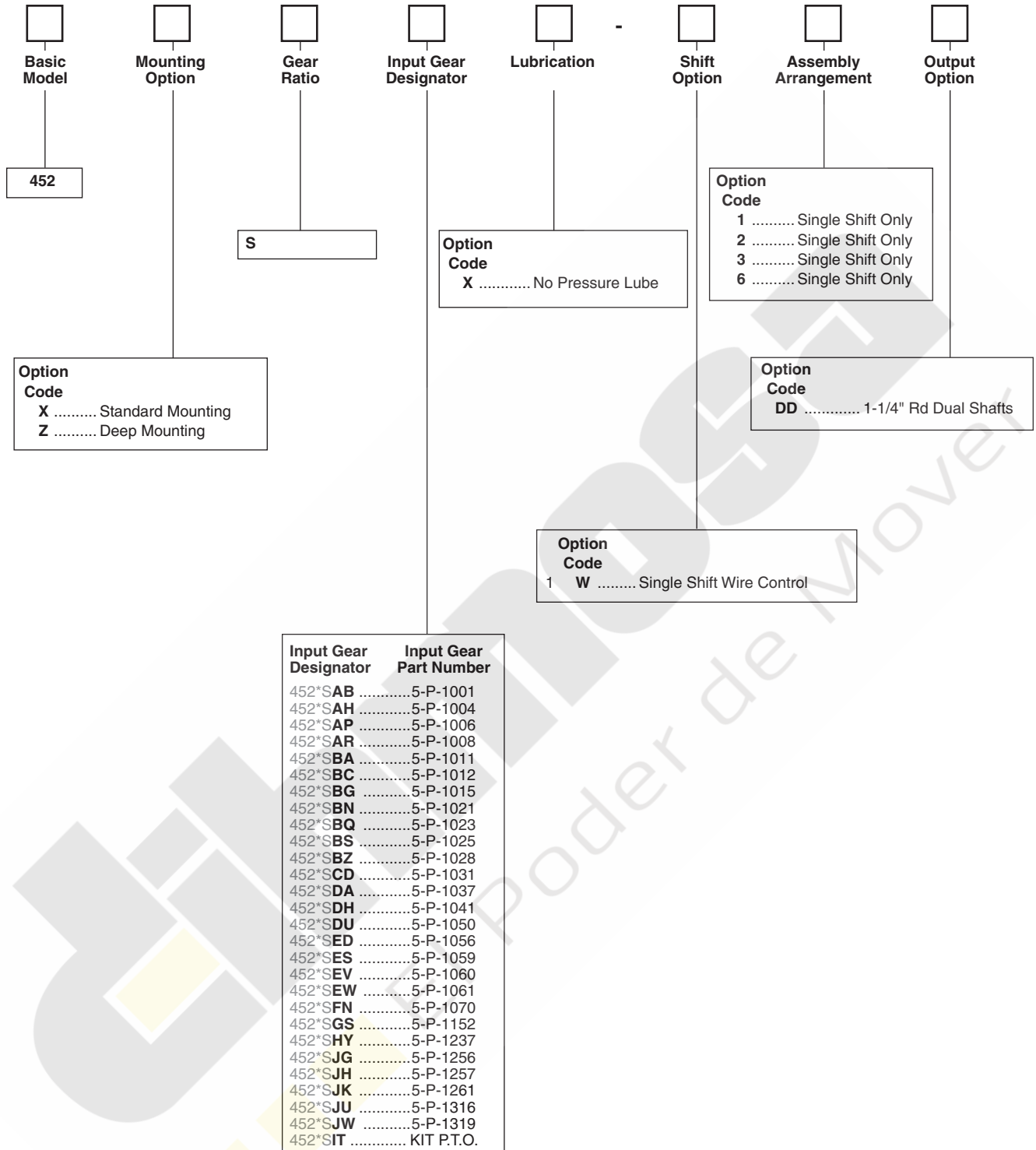
| Input Gear Designator | Input Gear Part Number |
|-----------------------|------------------------|
| 447*QES               | 5-P-869                |
| 447*QET               | 5-P-865                |
| 447*SES               | 5-P-870                |
| 447*UES               | 5-P-871                |
| 447*UET               | 5-P-867                |
| 447AUFY               | 5-P-976                |
| 447*WES               | 5-P-872                |
| 447AWFY               | 5-P-977                |
| 447*WGP               | 5-P-1148               |
| 447*QIT               | KIT P.T.O.             |
| 447*SIT               | KIT P.T.O.             |
| 447*UIT               | KIT P.T.O.             |
| 447*WIT               | KIT P.T.O.             |

① Includes mounting parts

⑩ Must use with the 447A P.T.O. for Nissan 1999 and after

⑪ Must use with the 447A P.T.O., for Nissan 1995 through 1998

⑫ Includes installation kit, console sold separately



① Includes mounting parts

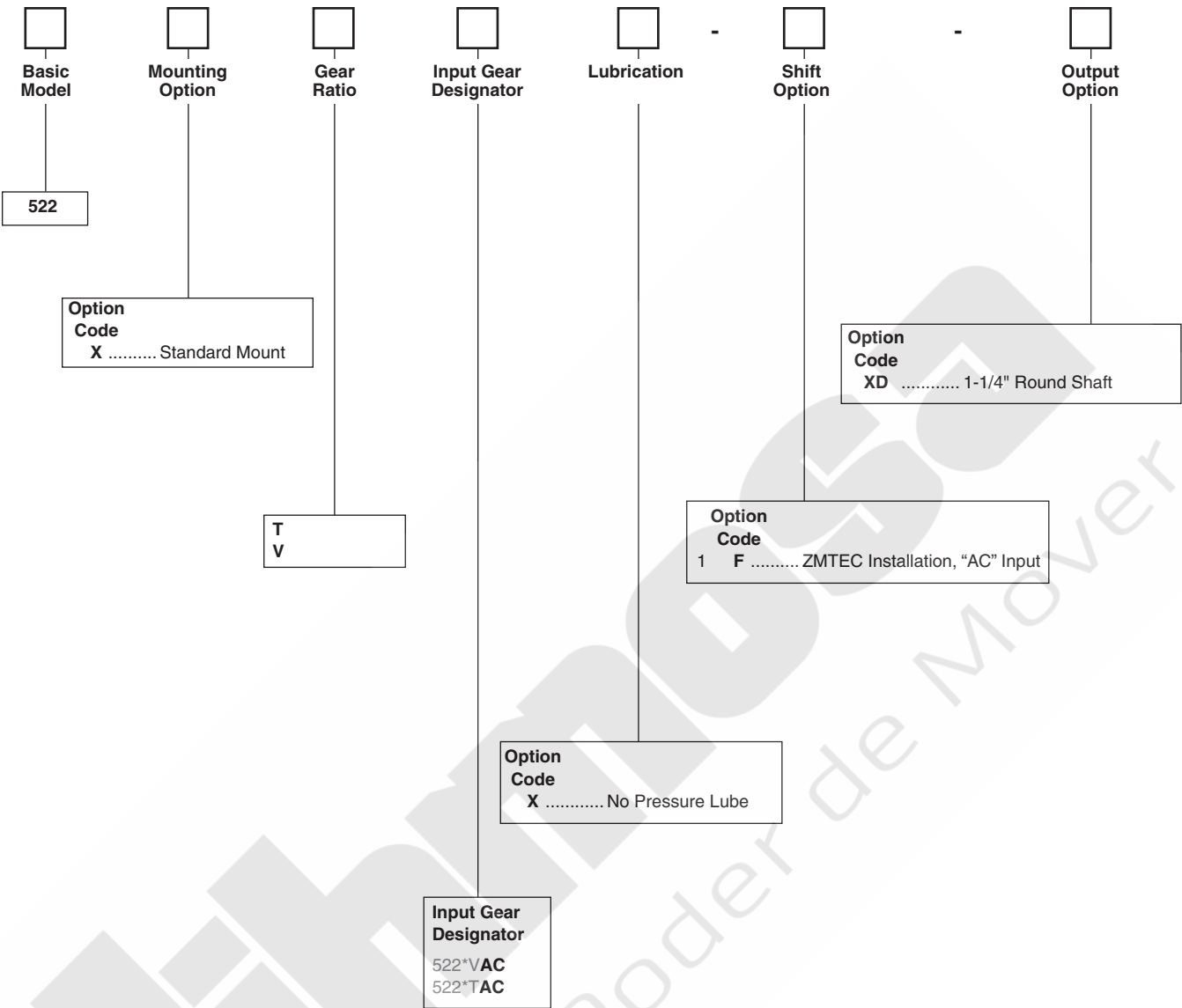
## Assembly Options

Six Bolt P.T.O. With Eight Bolt Flange  
489 Series

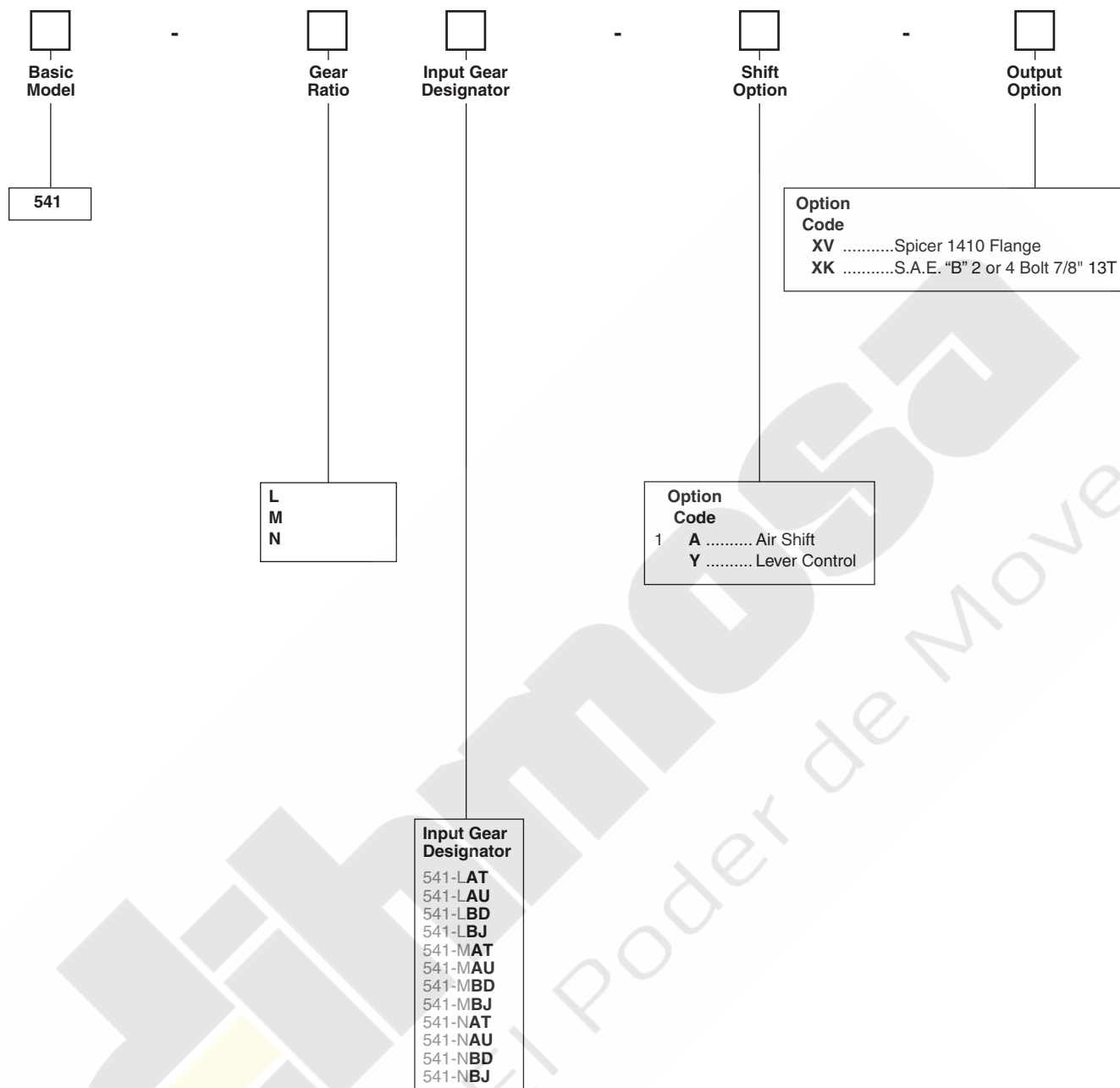
| Basic Model                                                                                                                         | Mounting Option | Gear Ratio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Input Gear Designator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lubrication | Shift Option                                                       | Assembly Arrangement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Output Option |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 489                                                                                                                                 |                 | <b>A</b> .....0.391:1<br><b>C</b> .....0.489:1<br><b>F</b> .....0.520:1<br><b>H</b> .....0.716:1<br><b>L</b> .....0.691:1<br><b>Q</b> .....0.865:1<br><b>R</b> .....0.941:1<br><b>S</b> .....1.205:1<br><b>U</b> .....1.410:1<br><b>W</b> .....1.713:1<br><b>X</b> .....2.000:1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Option Code</b><br><b>P</b> ..... Pressure Lube<br><b>X</b> ..... No Pressure Lube                                                                                                                                                                                                                                                                                                                                                                                                                |             | <b>Option Code</b><br><b>3</b><br><b>4</b><br><b>5</b><br><b>6</b> | <b>Option Code</b><br><b>XD</b> .... 1-1/4" Rd Standard Shaft<br><b>XE</b> .... S.A.E. "A" 2 or 4 Bolt 5/8" 9T<br><b>XG</b> .... S.A.E. "A" 2 Bolt 3/4" Rd<br><b>XJ</b> .... S.A.E. "A" 2 Bolt 3/4" Rd<br><b>XK</b> .... S.A.E. "B" 2 or 4 Bolt 7/8" 13T<br><b>XQ</b> .... S.A.E. "B" 2 or 4 Bolt 7/8" 13T<br><b>XR</b> .... Chelsea Special 7/8" 13T<br><b>XX</b> .... Tapered Output Shaft<br><b>XY</b> .... DIN 5462 8T<br><b>AK</b> .... S.A.E. "B" 2 Bolt 7/8" 13T<br><b>AF</b> .... S.A.E. "BB" 2 or 4 Bolt 1" 15T<br><b>AZ</b> .... S.A.E. "B" 4 Bolt 1-1/4" 14T<br><b>RA</b> .... Rotatable S.A.E. "B" 2 Bolt 7/8" 13T<br><b>RB</b> .... Rotatable S.A.E. "B" 4 Bolt 7/8" 13T<br><b>RC</b> .... Rotatable S.A.E. "A" 2 Bolt 5/8" 9T<br><b>RE</b> .... Rotatable S.A.E. "BB" 4 Bolt 1" 15T<br><b>RY</b> .... Rotatable DIN 5462 8T<br><b>GA</b> .... Greaseable Rotatable "B" 2 Bolt 7/8" 13T<br><b>GB</b> .... Greaseable Rotatable "B" 4 Bolt 7/8" 13T<br><b>GF</b> .... Greaseable S.A.E. "BB" 2 or 4 Bolt 1" 15T<br><b>GH</b> .... Greaseable Rot. S.A.E. "BB" 2 Bolt 1" 15T<br><b>GK</b> .... Greaseable S.A.E. "B" 2 or 4 Bolt 7/8" 13T<br><b>GP</b> .... Greaseable S.A.E. "B" 2 or 4 Bolt 7/8" 13T<br><b>GQ</b> .... Greaseable S.A.E. "B" 2 or 4 Bolt 7/8" 13T<br><b>GR</b> .... Greaseable Chelsea Special 7/8" 13T<br><b>GY</b> .... Greaseable DIN 5462 8T<br><b>GZ</b> .... Greaseable S.A.E. "B" 4 Bolt 1-1/4" 14T<br><b>LA</b> .... S.A.E. "B" 2 Bolt w/Self Lube Pump 7/8" 13T<br><b>LB</b> .... S.A.E. "A" 2 Bolt w/Self Lube Pump 7/8" 13T<br><b>LC</b> .... S.A.E. "B" 2 or 4 Bolt w/Self Lube 7/8" 13T<br><b>LD</b> .... 1-1/4" Rd w/Self Lube Pump<br><b>LF</b> .... S.A.E. "B" 2 or 4 Bolt w/Self Lube 7/8" 13T |               |
| <b>Option Code</b><br><b>G</b> ..... Standard Mount w/Metric Stud Kit<br><b>X</b> ..... Standard Mount<br><b>Z</b> ..... Deep Mount |                 | <b>Input Gear Designator</b> <b>Input Gear Part Number</b><br>489** <b>AB</b> .....5-P-1001<br>489** <b>AH</b> .....5-P-1004<br>489** <b>AR</b> .....5-P-1008<br>489** <b>BG</b> .....5-P-1015<br>489** <b>DA</b> .....5-P-1037<br>489** <b>DU</b> .....5-P-1050<br>489** <b>EV</b> .....5-P-1060<br>489** <b>AB</b> .....5-P-1279<br>489** <b>AH</b> .....5-P-1280<br>489** <b>AR</b> .....5-P-1283<br>489** <b>ADA</b> .....5-P-1284<br>489** <b>CAB</b> .....5-P-1286<br>489** <b>CAH</b> .....5-P-1287<br>489** <b>CAR</b> .....5-P-1290<br>489** <b>CDA</b> .....5-P-1291<br>489** <b>FAB</b> .....5-P-1076<br>489** <b>FAH</b> .....5-P-1077<br>489** <b>FAR</b> .....5-P-1080<br>489** <b>FBG</b> .....5-P-1082<br>489** <b>FDA</b> .....5-P-1085<br>489** <b>FDU</b> .....5-P-1088<br>489** <b>FEV</b> .....5-P-1094<br>489** <b>HAH</b> .....5-P-1364<br>489** <b>HDA</b> .....5-P-1365<br>489** <b>AIT</b> .....KIT P.T.O.<br>489** <b>CIT</b> .....KIT P.T.O.<br>489** <b>FIT</b> .....KIT P.T.O.<br>489** <b>HIT</b> .....KIT P.T.O.<br>489** <b>LIT</b> .....KIT P.T.O.<br>489** <b>QIT</b> .....KIT P.T.O.<br>489** <b>RIT</b> .....KIT P.T.O.<br>489** <b>SIT</b> .....KIT P.T.O.<br>489** <b>UIT</b> .....KIT P.T.O.<br>489** <b>WIT</b> .....KIT P.T.O.<br>489** <b>XIT</b> .....KIT P.T.O. | <b>Option Code</b><br><b>1 A</b> ..... Air Shift<br><b>V</b> ..... Air Shift Less Installation Kit<br><b>21 S</b> ..... P.T.O. & Pump Combo Valve<br><b>21 T</b> ..... P.T.O. & Pump Valve Less Kick Out & Neutral Spring Return<br><b>1 W</b> ..... Cable Shift<br><b>C</b> ..... Heavy Duty Bracket Less Cable (Minus)<br><b>M</b> ..... Constant Mesh<br><b>1 P</b> ..... 12 Volt Electric Over Air<br><b>X</b> ..... Less Cable And Knob (Minus)<br><b>H</b> ..... Less Wire Shift Cover (Minus) |             |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |

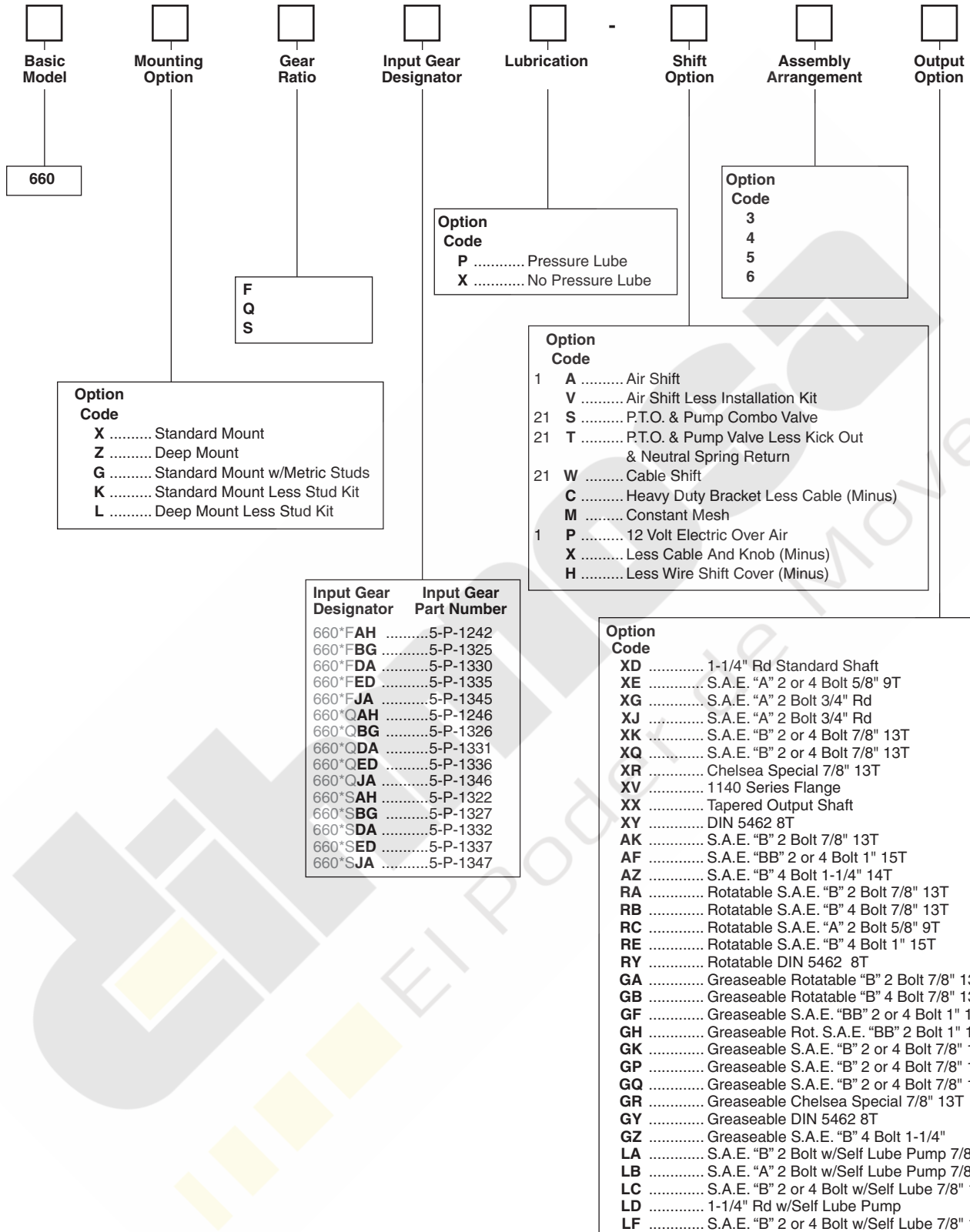
① Includes mounting parts

② Includes installation kit, console sold separately



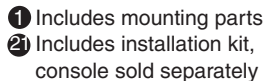
① Includes mounting parts

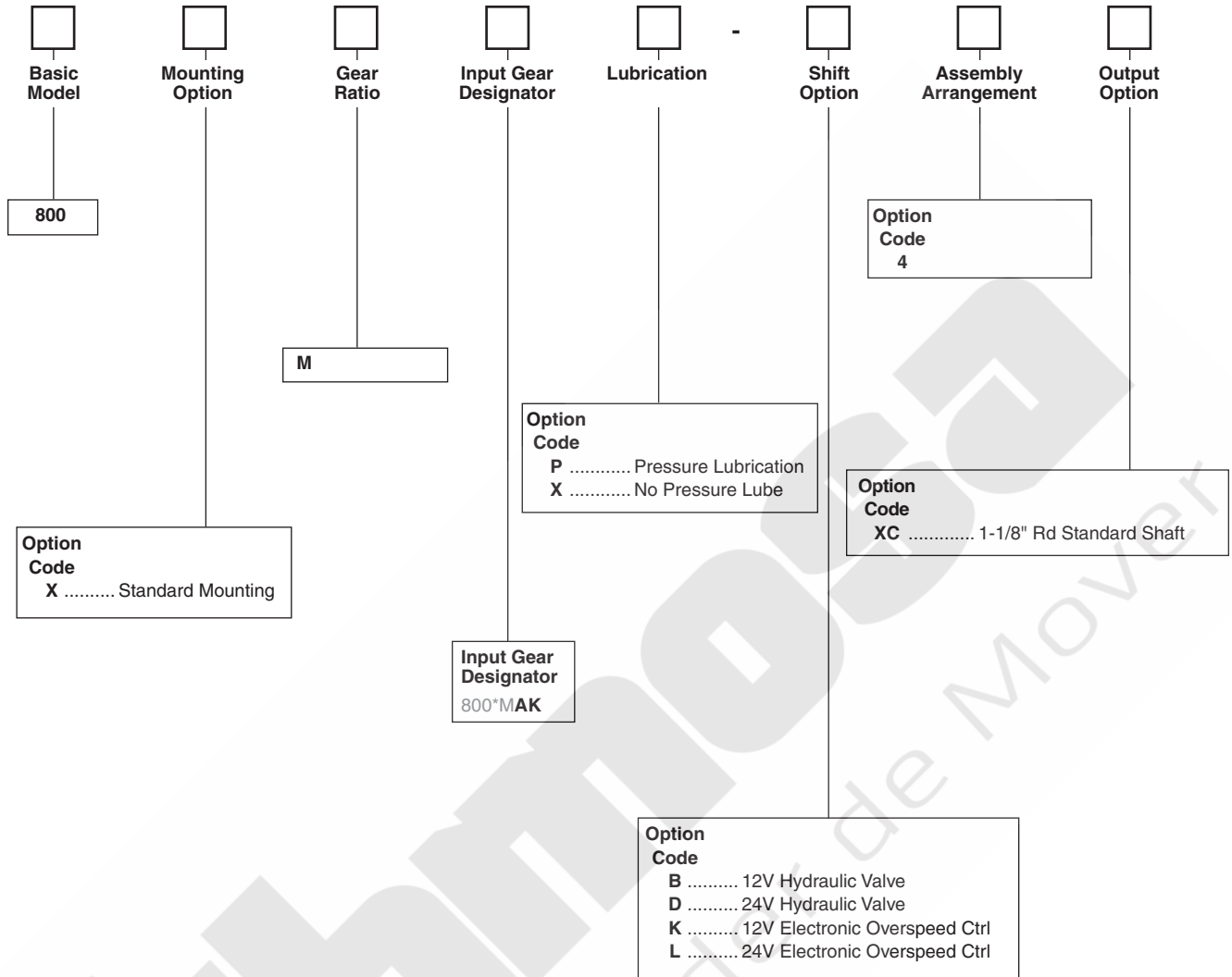


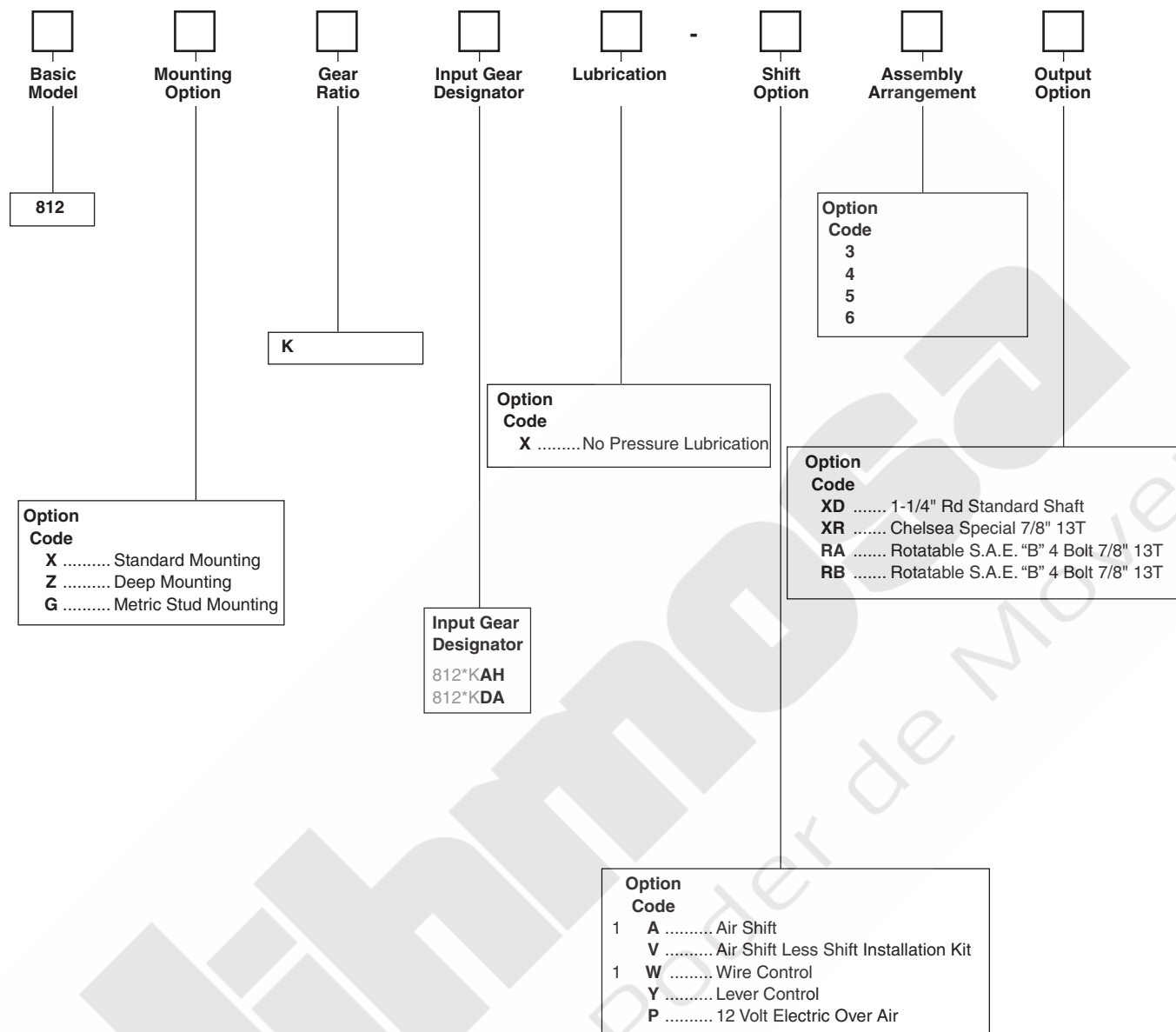


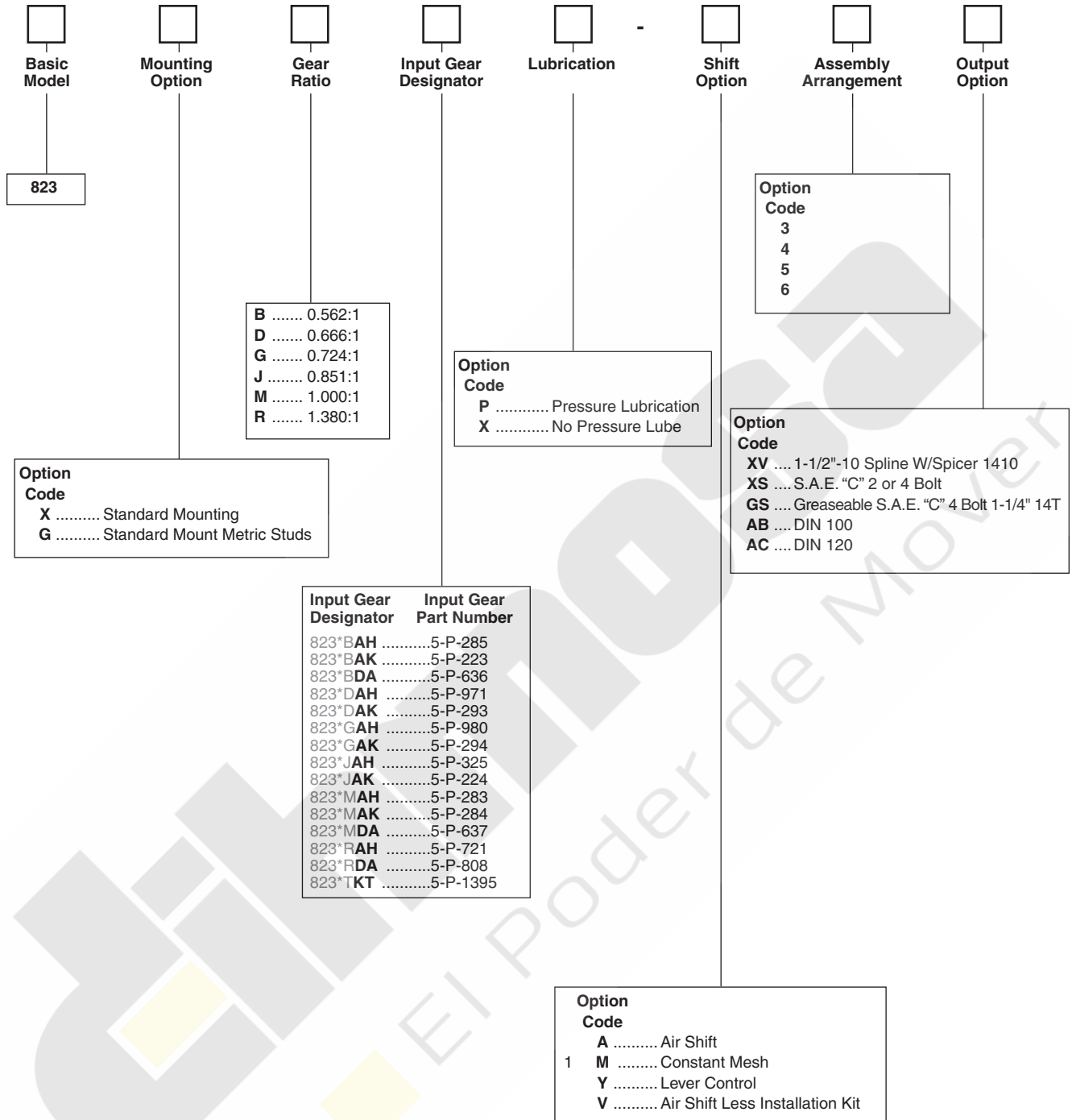
① Includes mounting parts

② Includes installation kit, console sold separately

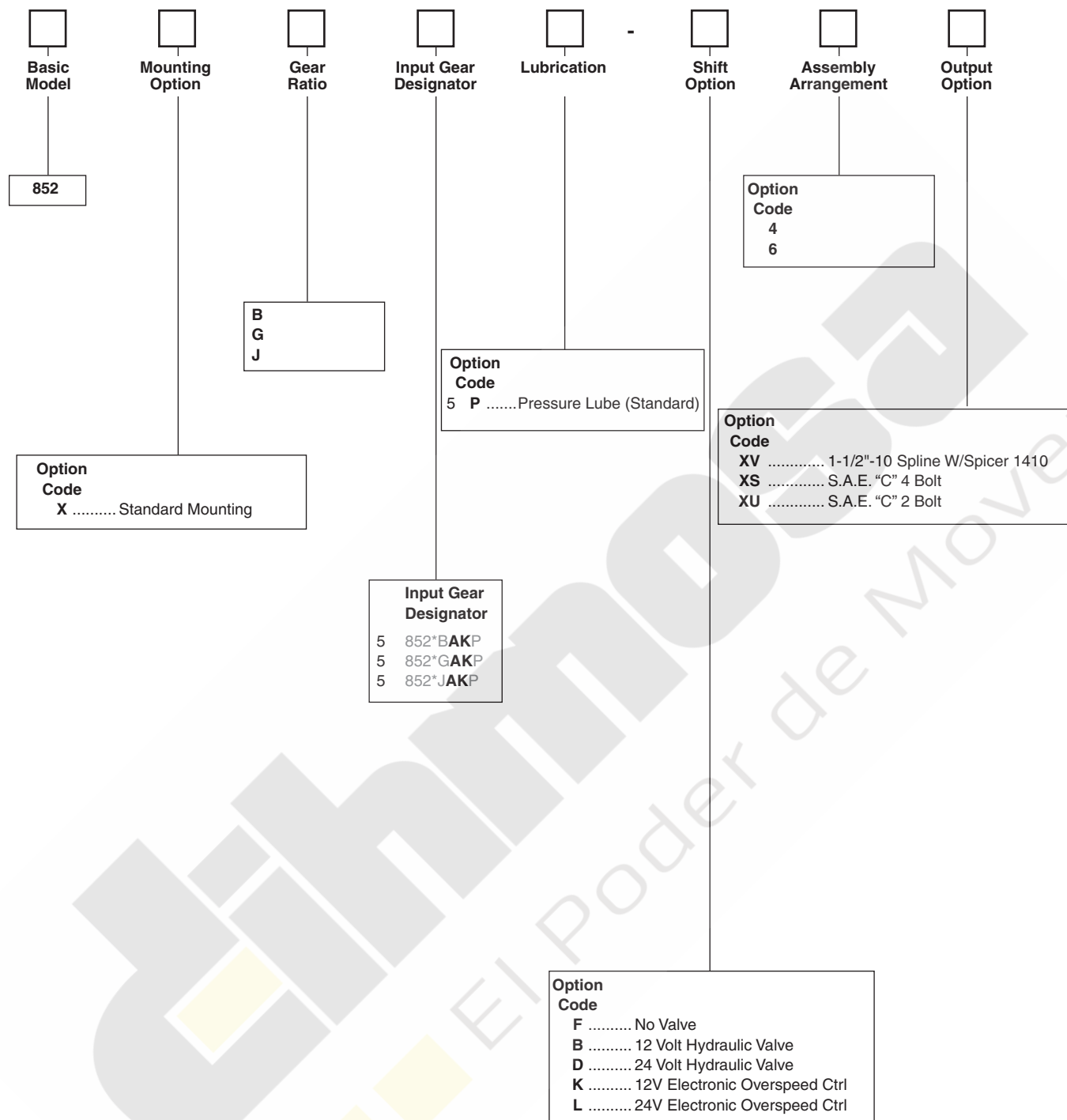




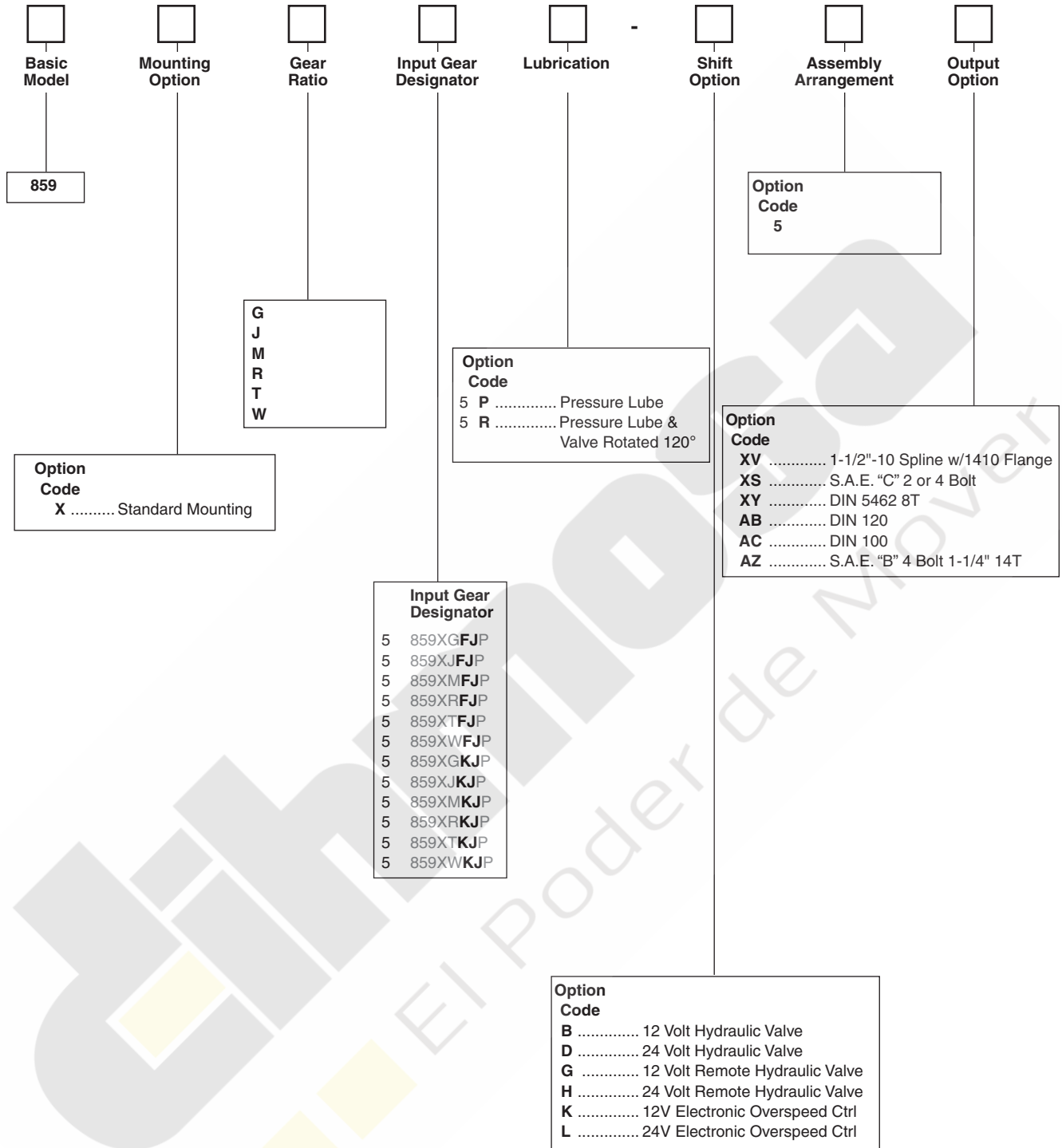




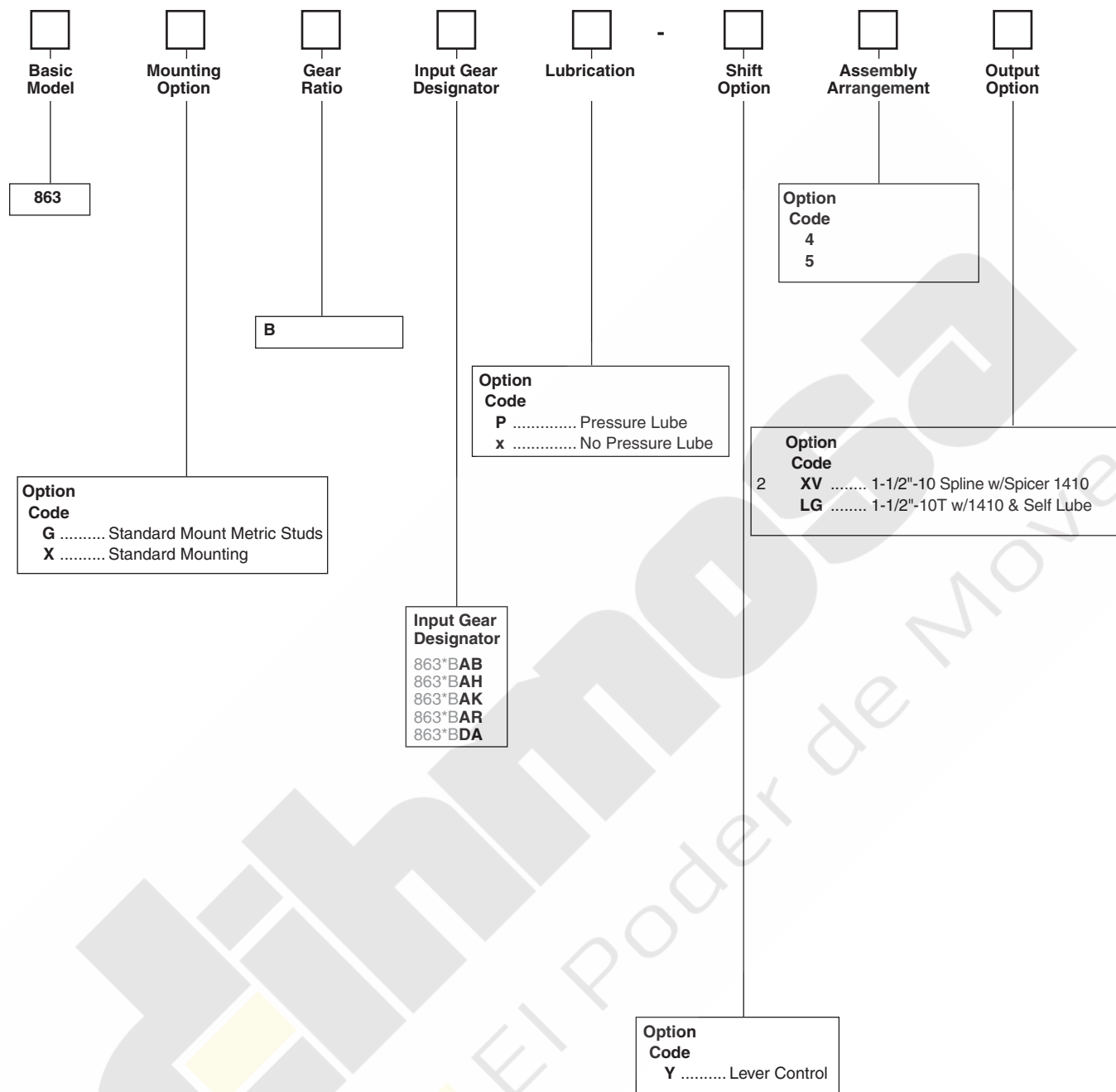
① Includes mounting parts

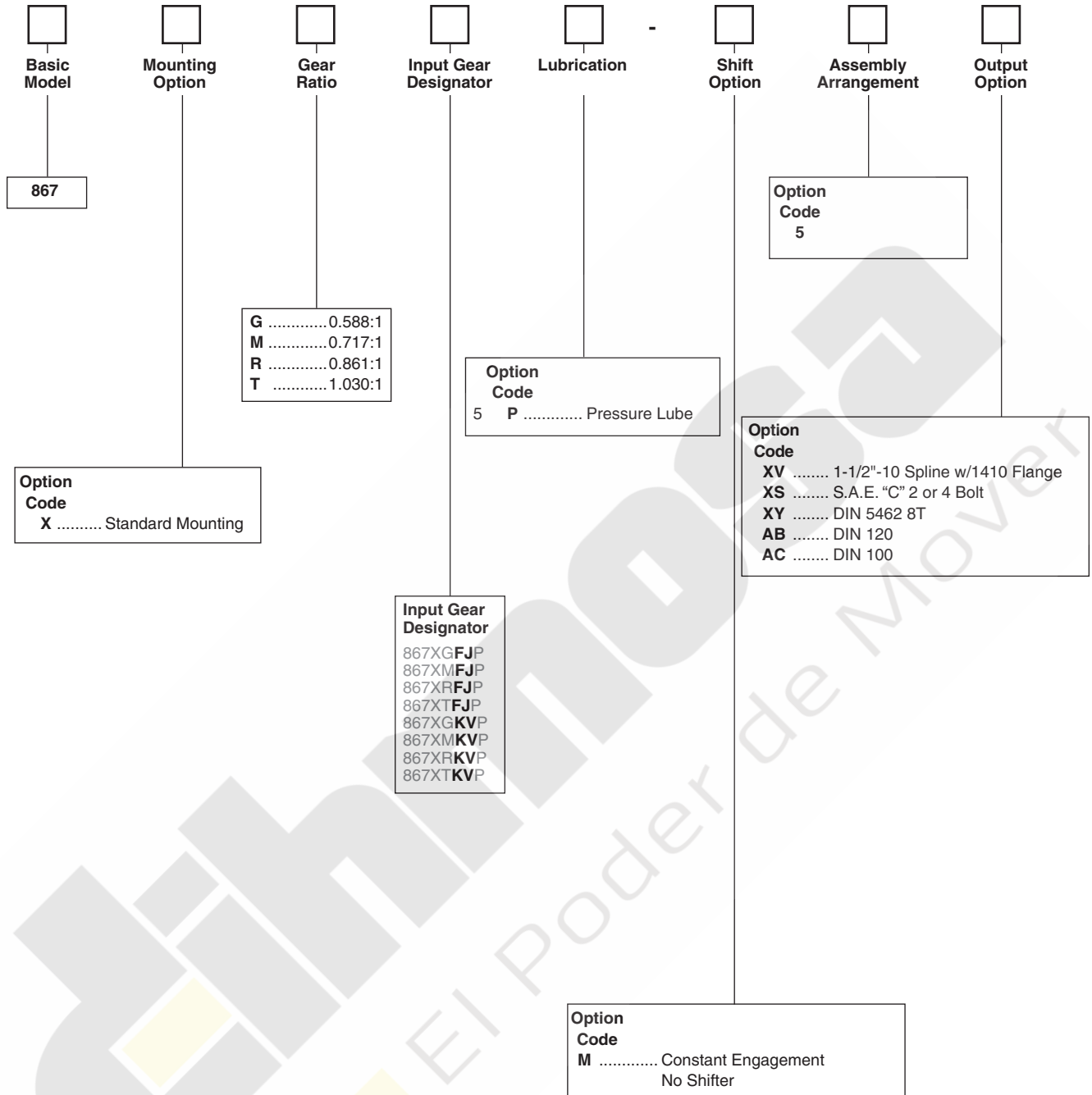


⑤ Automatically pressure lubed



⑤ Automatically pressure lubed





## Assembly Options

Eight Bolt P.T.O.  
880 Series

| Basic Model | Mounting Option | Gear Ratio                           | Input Gear Designator | Lubrication | Shift Option | Assembly Arrangement | Output Option |
|-------------|-----------------|--------------------------------------|-----------------------|-------------|--------------|----------------------|---------------|
| 880         |                 | B<br>D<br>G<br>J<br>M<br>Q<br>R<br>T |                       |             |              |                      |               |

**Option Code**

X ..... Standard Mounting

Z ..... Deep Mounting

K ..... Standard Mount Less Stud Kit

L ..... Deep Mount Less Stud Kit

G ..... Standard Mount Metric Studs

**Option Code**

P ..... Pressure Lube

X ..... No Pressure Lube

**Option Code**

3

4

5

6

**Option Code**

AF ..... S.A.E. "BB" 2 or 4 Bolt 1" 15T

XV ..... 1-1/2"-10 Spline w/Spicer 1410

XS ..... S.A.E. "C" 4 Bolt

XK ..... S.A.E. "B" 2 or 4 Bolt 7/8" 13T

SS ..... Double Pump

LF ..... S.A.E. "B" 2 or 4 Bolt w/Lube Pump 7/8" 13T

LG ..... 1-1/2"-10T w/1410 w/Lube Pump

LH ..... S.A.E. "C" 2 or 4 Bolt w/Lube Pump

GS ..... Greaseable S.A.E. "C" 4 Bolt 1-1/4" 14T

| Input Gear Designator | Input Gear Part Number |
|-----------------------|------------------------|
| 880*BAH               | 5-P-1100               |
| 880*BAK               | 5-P-1106               |
| 880*BDA               | 5-P-1120               |
| 880*DAH               | 5-P-1101               |
| 880*DAK               | 5-P-1107               |
| 880*GAH               | 5-P-1135               |
| 880*GAK               | 5-P-1108               |
| 880*GDA               | 5-P-1174               |
| 880*JAH               | 5-P-1102               |
| 880*JAK               | 5-P-1109               |
| 880*MAH               | 5-P-1103               |
| 880*MAK               | 5-P-1110               |
| 880*MDA               | 5-P-1121               |
| 880*QAH               | 5-P-1385               |
| 880*RAH               | 5-P-1104               |
| 880*RDA               | 5-P-1122               |
| 880*TAH               | 5-P-1105               |
| 880*TDA               | 5-P-1123               |
| 880*TDU               | 5-P-1131               |
| 880*BIT               | KIT P.T.O.             |
| 880*DIT               | KIT P.T.O.             |
| 880*GIT               | KIT P.T.O.             |
| 880*JIT               | KIT P.T.O.             |
| 880*MIT               | KIT P.T.O.             |
| 880*RIT               | KIT P.T.O.             |
| 880*TIT               | KIT P.T.O.             |

**Option Code**

1 A ..... Air Shift

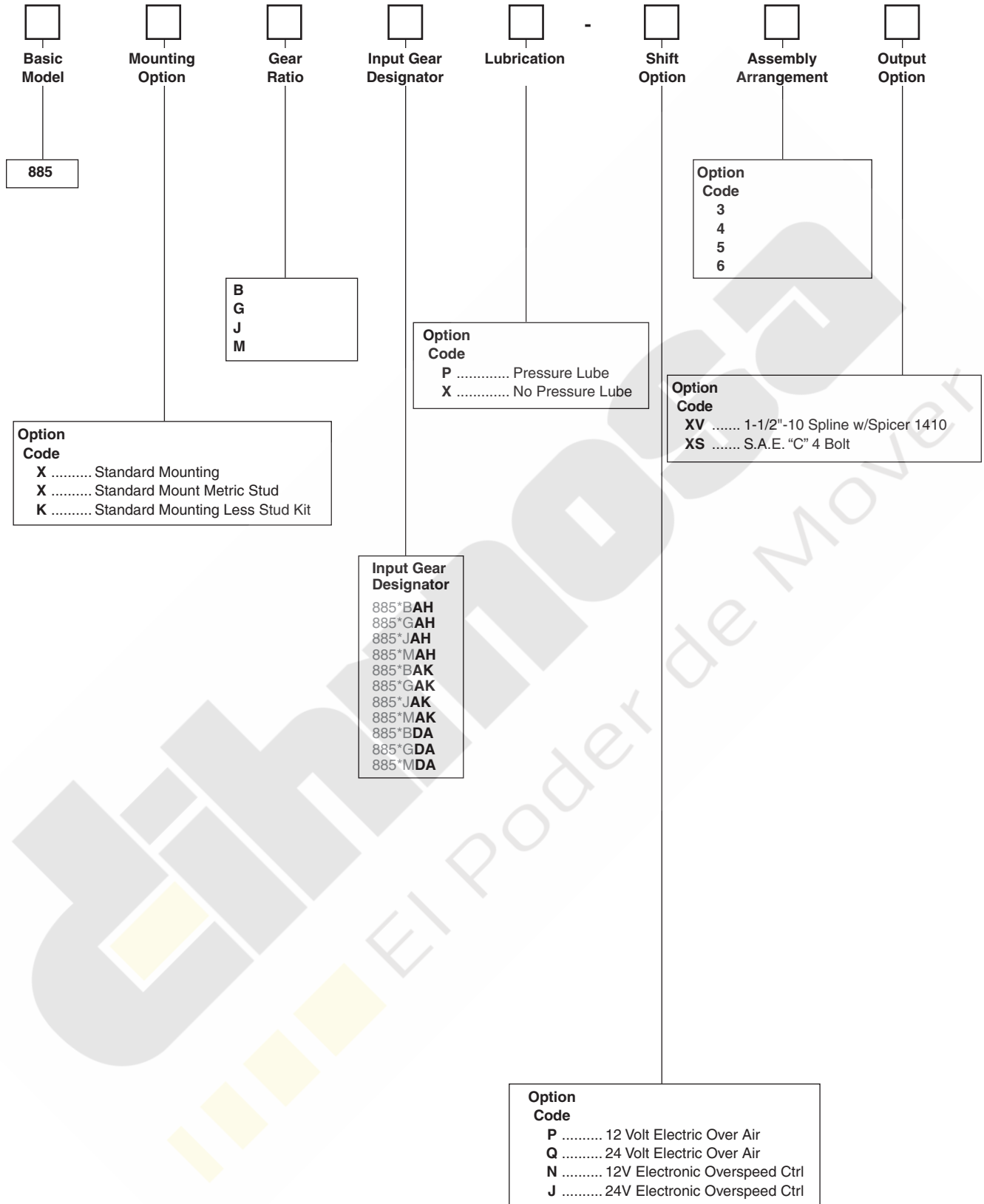
M ..... Constant Mesh

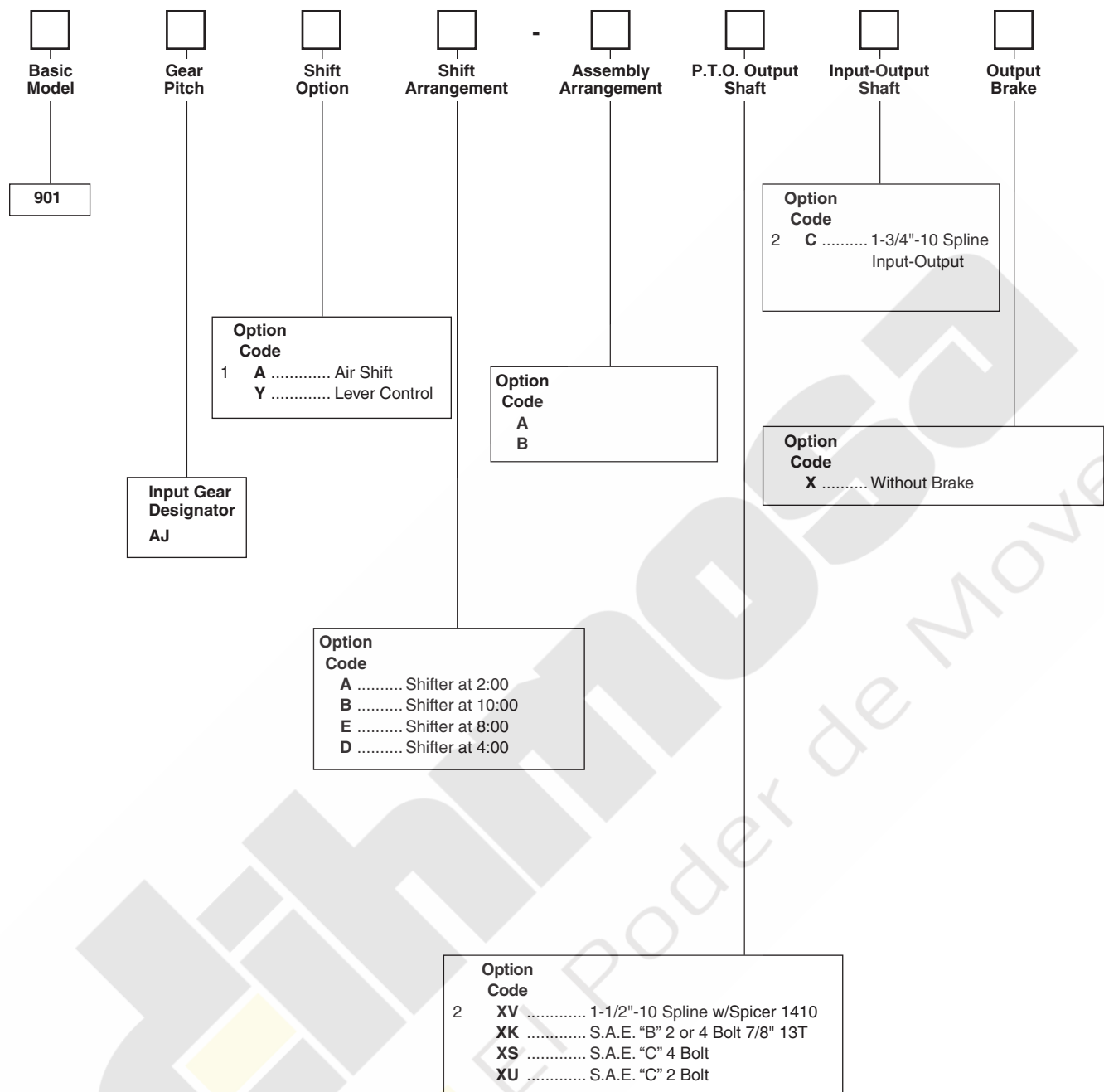
Y ..... Lever Control

H ..... Less Shift Cover

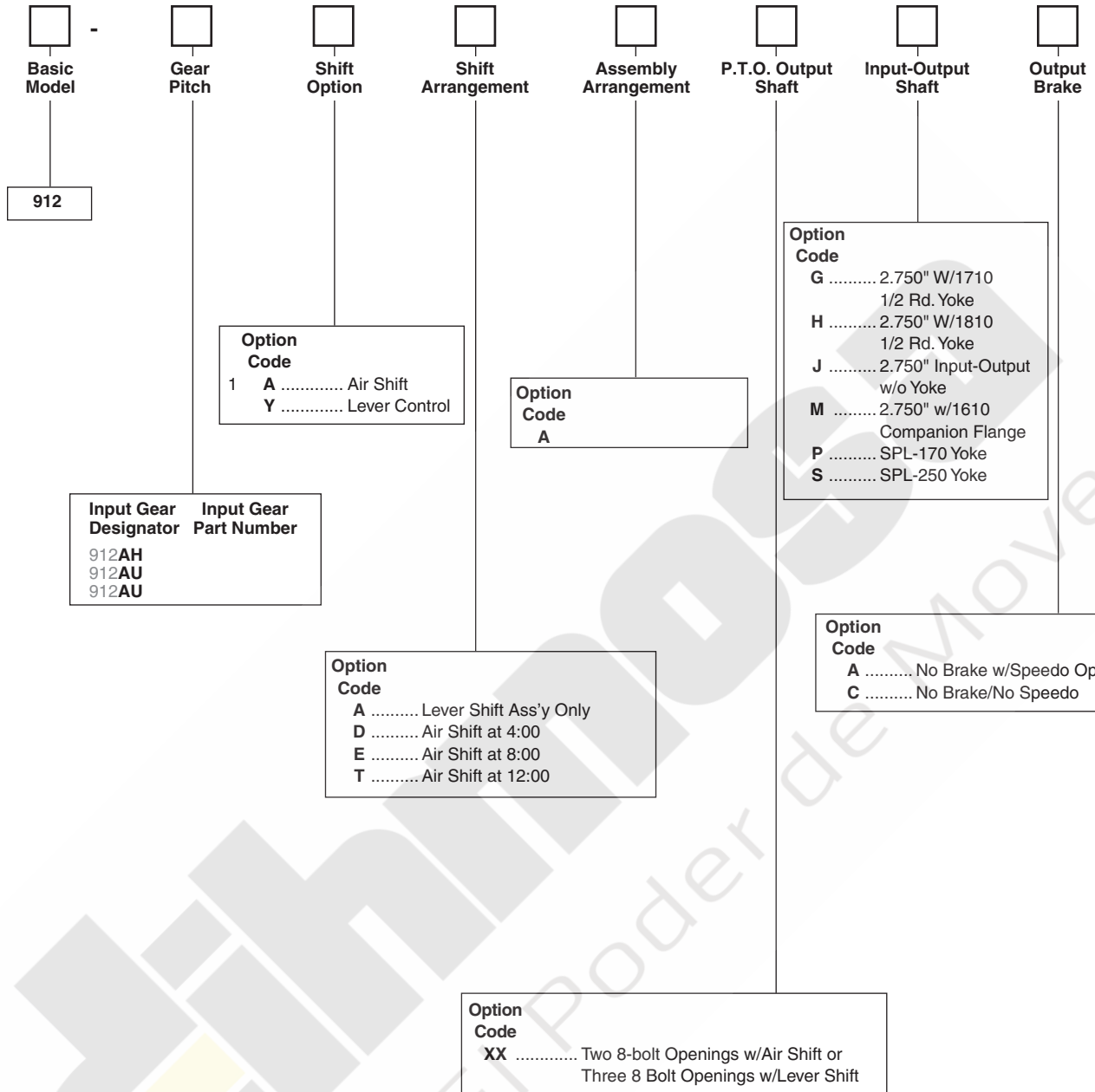
V ..... Air Shift Less Installation Kit

① Includes mounting parts

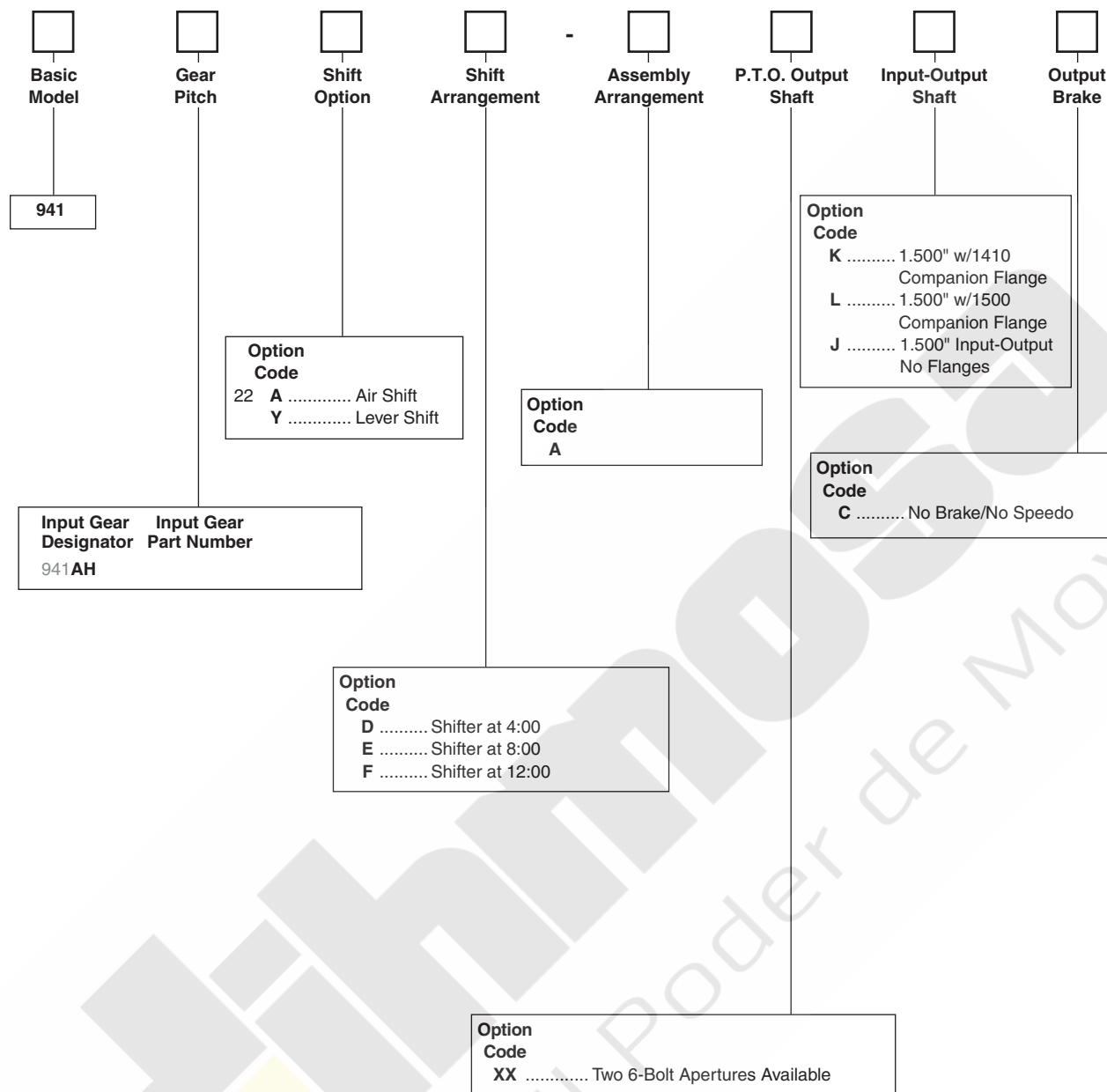




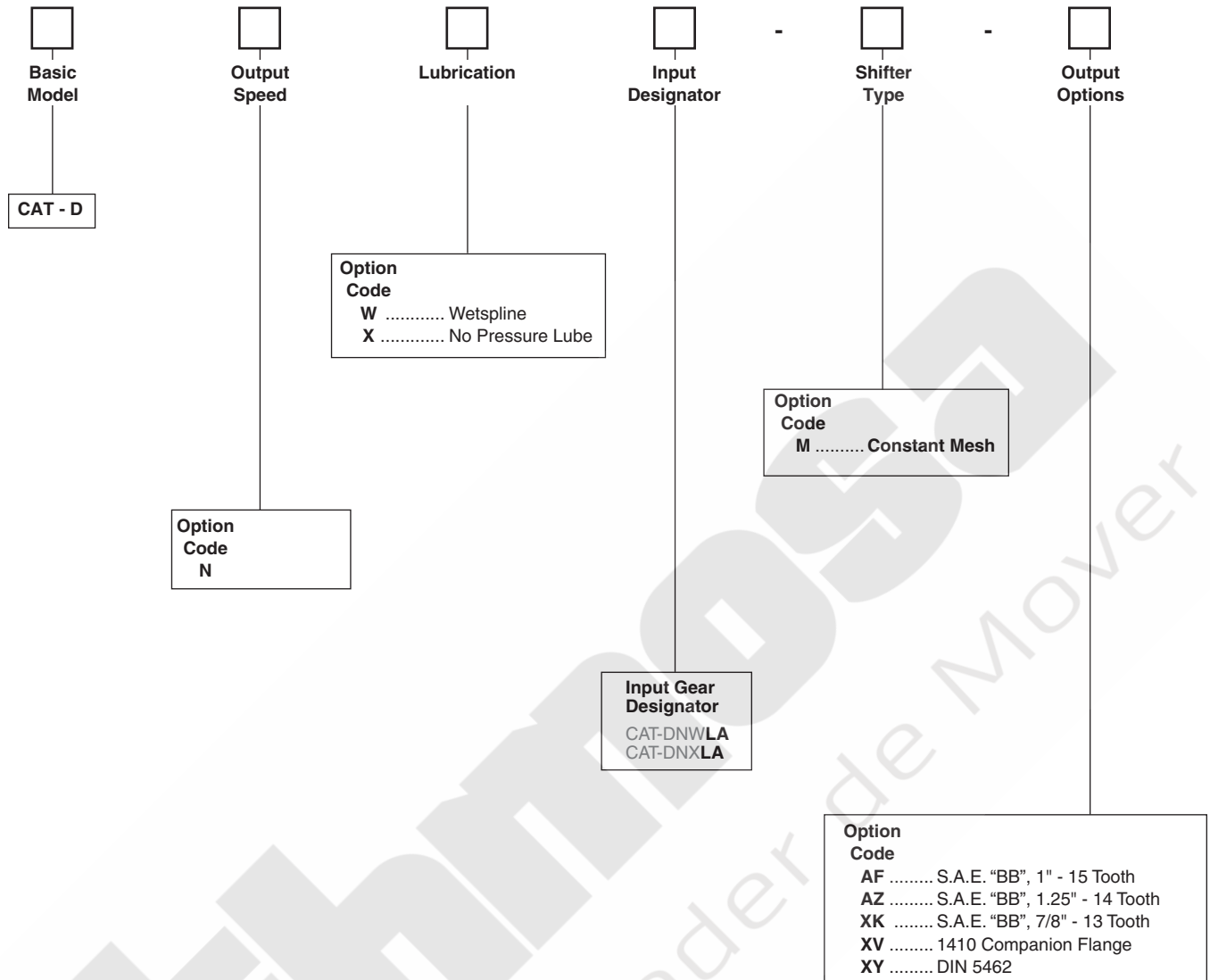
① Includes mounting parts  
 ② Standard shaft

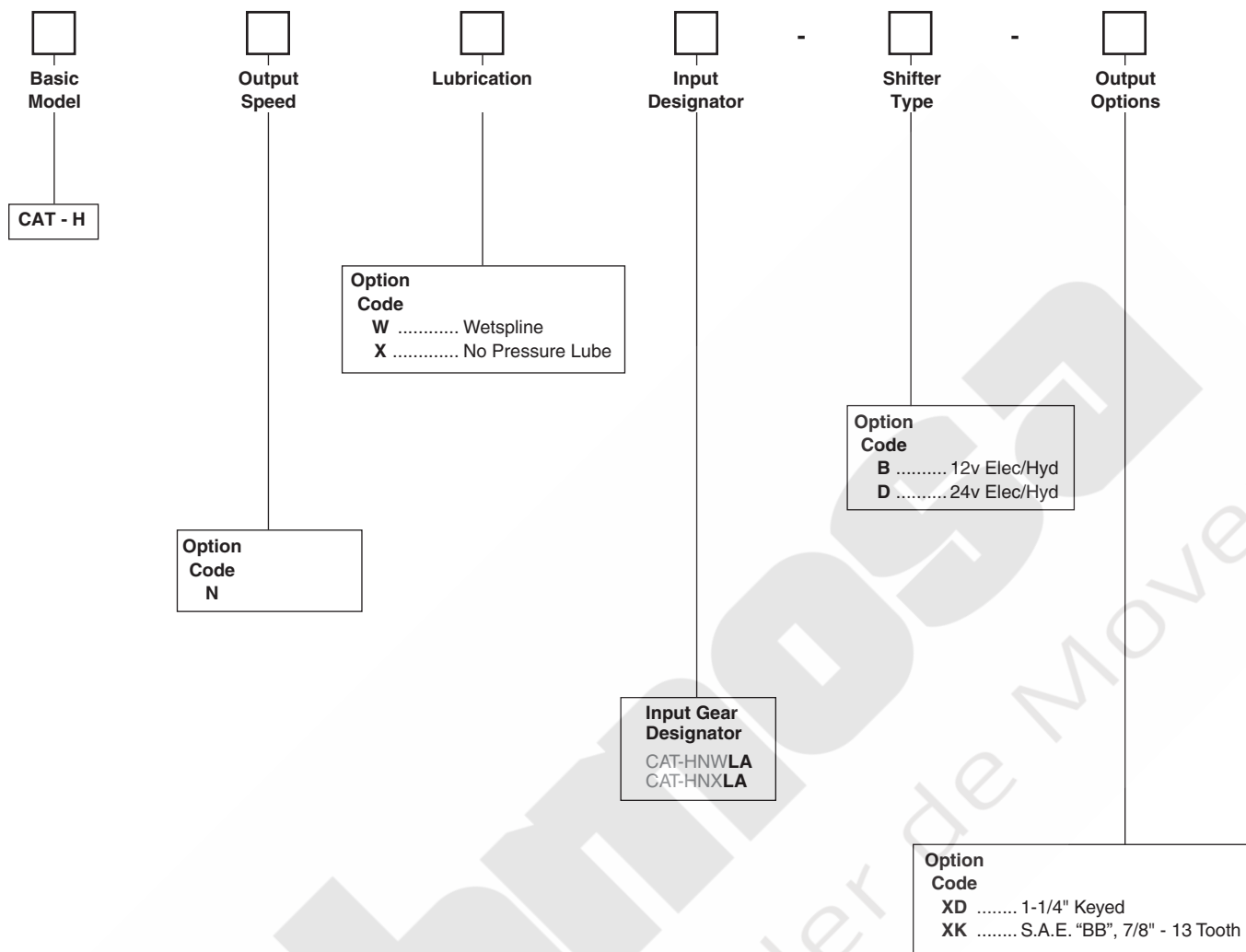


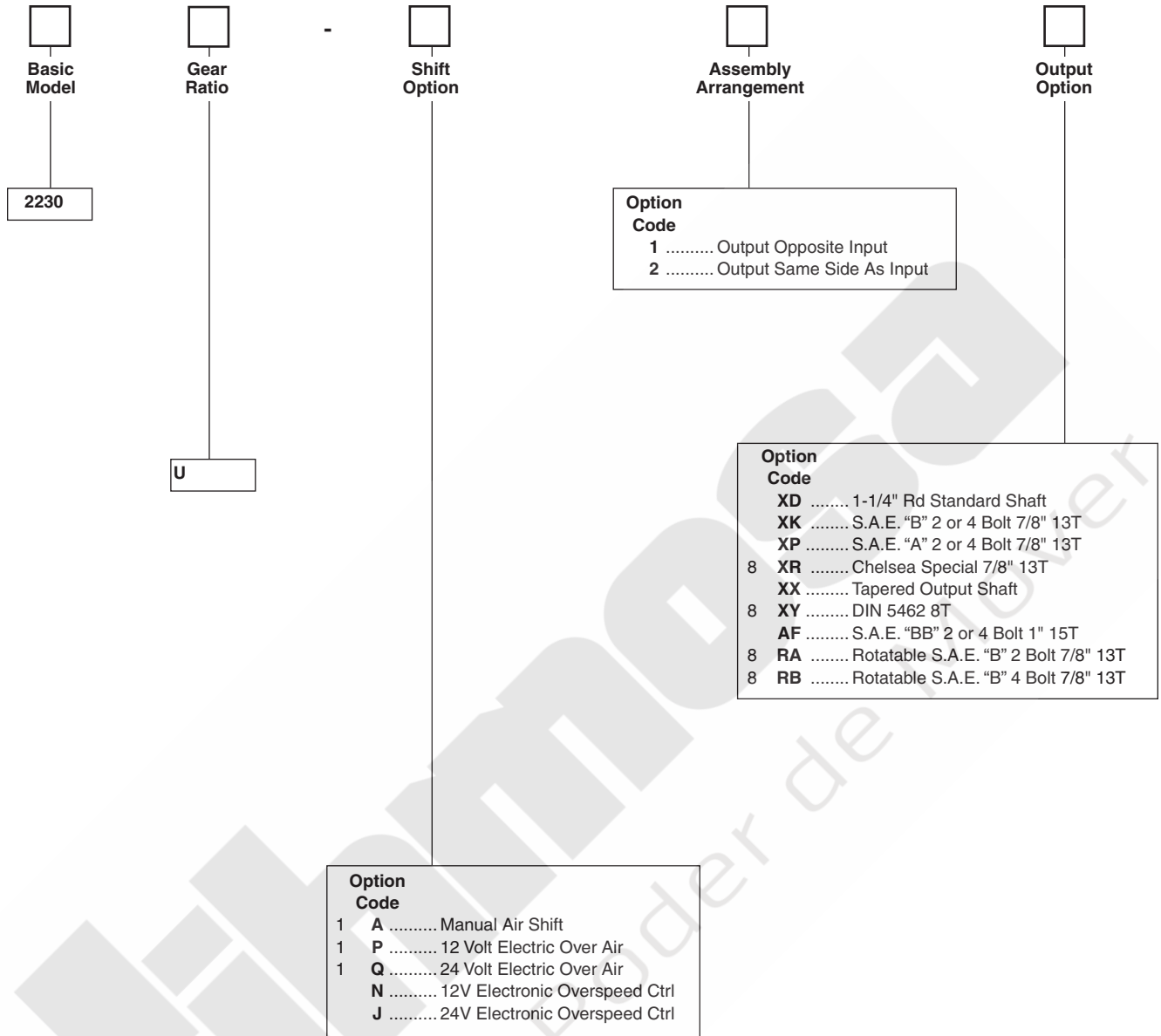
① Includes mounting parts



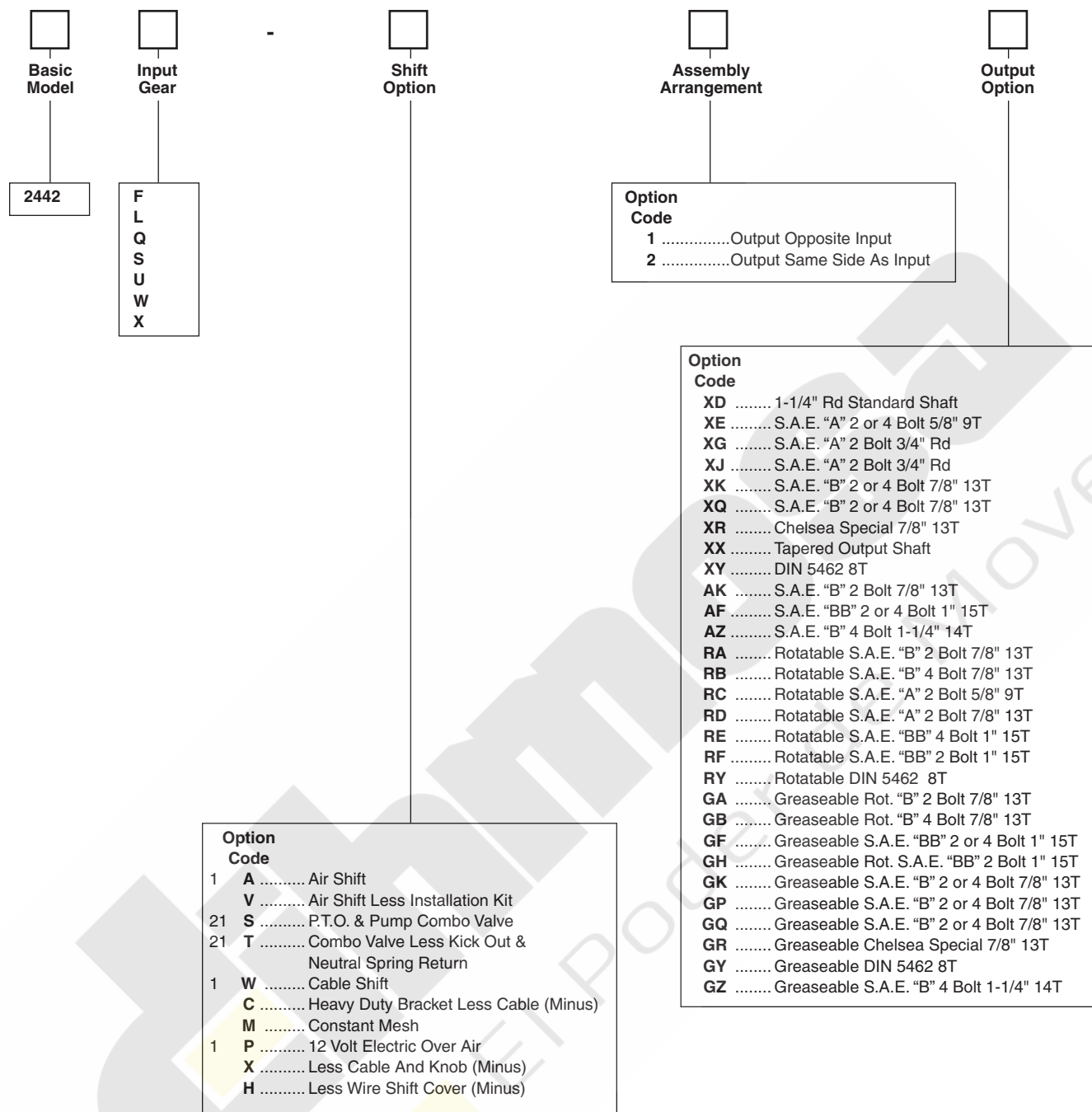
22 Includes air shift installation kit







- ① Includes mounting parts
- ⑧ Available assembly "1" only



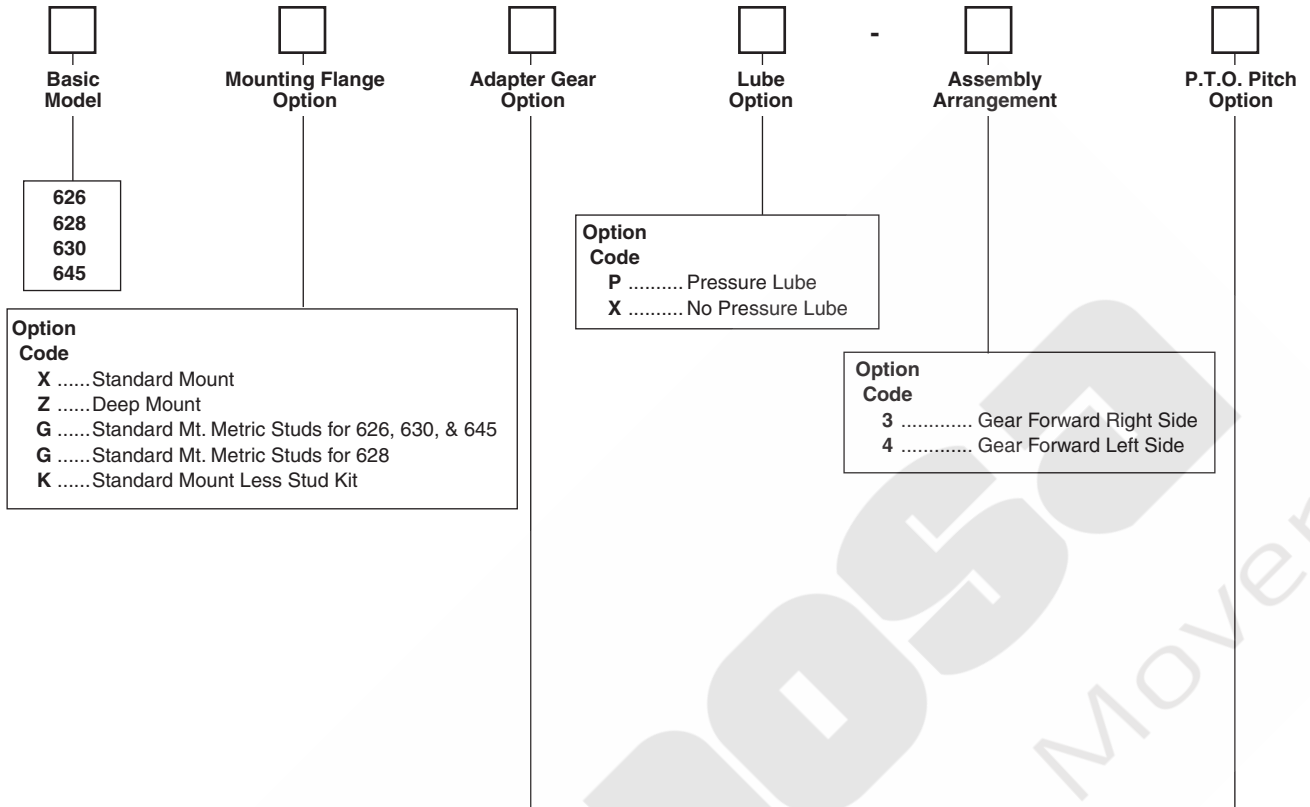
① Includes mounting parts

② Includes installation kit,  
console sold separately

## Assembly Options

## Geared Adapters

## 626, 628, 630 and 645 Series



| Input Gear Designator | Input Gear Part Number | Input Gear Designator | Input Gear Part Number |
|-----------------------|------------------------|-----------------------|------------------------|
| 626*AB                | 5-P-1001               | 630*BS                | 5-P-1025               |
| 626*AH                | 5-P-1004               | 630*CD                | 5-P-1031               |
| 626*AP                | 5-P-1006               | 630*DA                | 5-P-1037               |
| 626*AR                | 5-P-1008               | 630*DU                | 5-P-1050               |
| 626*BG                | 5-P-1015               | 630*ED                | 5-P-1056               |
| 626*BQ                | 5-P-1023               | 630*ES                | 5-P-1059               |
| 626*CD                | 5-P-1031               | 630*EV                | 5-P-1060               |
| 626*DA                | 5-P-1037               | 630*EW                | 5-P-1061               |
| 626*DU                | 5-P-1050               | 630*FN                | 5-P-1070               |
| 626*ED                | 5-P-1056               | 630*HY                | 5-P-1237               |
| 626*ES                | 5-P-1059               | 630*IT                | KIT ADAPTER            |
| 626*EV                | 5-P-1060               | 630*JK                | 5-P-1261               |
| 626*EW                | 5-P-1061               | 630*JM                | 5-P-1263               |
| 626*FN                | 5-P-1070               | 630*JU                | 5-P-1316               |
| 626*HY                | 5-P-1237               | 630*JW                | 5-P-1319               |
| 626*JK                | 5-P-1261               | 645*AB                | 5-P-1001               |
| 626*JM                | 5-P-1263               | 645*AH                | 5-P-1004               |
| 626*JU                | 5-P-1316               | 645*AP                | 5-P-1006               |
| 626*JW                | 5-P-1319               | 645*AR                | 5-P-1008               |
| 626*IT                | KIT ADAPTER            | 645*BQ                | 5-P-1023               |
| 628*AB                | 5-P-1001               | 645*CD                | 5-P-1031               |
| 628*AH                | 5-P-1004               | 645*DA                | 5-P-1037               |
| 628*AR                | 5-P-1008               | 645*DU                | 5-P-1050               |
| 628*BG                | 5-P-1015               | 645*ED                | 5-P-1056               |
| 628*BQ                | 5-P-1023               | 645*ES                | 5-P-1059               |
| 628*CD                | 5-P-1031               | 645*EV                | 5-P-1060               |
| 628*DA                | 5-P-1037               | 645*EW                | 5-P-1061               |
| 628*DU                | 5-P-1050               | 645*FN                | 5-P-1070               |
| 628*ED                | 5-P-1056               | 645*HY                | 5-P-1237               |
| 628*EV                | 5-P-1060               | 645*IT                | KIT ADAPTER            |
| 628*IT                | KIT ADAPTER            | 645*JK                | 5-P-1261               |
| 630*AB                | 5-P-1001               | 645*JM                | 5-P-1263               |
| 630*AH                | 5-P-1004               | 645*JU                | 5-P-1316               |
| 630*AP                | 5-P-1006               |                       |                        |
| 630*AR                | 5-P-1008               |                       |                        |
| 630*BG                | 5-P-1015               |                       |                        |
| 630*BQ                | 5-P-1023               |                       |                        |

| Input Gear Designator | Input Gear Part Number | Input Gear Designator | Input Gear Part Number |
|-----------------------|------------------------|-----------------------|------------------------|
| 626*AB                | 5-P-1001               | 630*BS                | 5-P-1025               |
| 626*AH                | 5-P-1004               | 630*CD                | 5-P-1031               |
| 626*AP                | 5-P-1006               | 630*DA                | 5-P-1037               |
| 626*AR                | 5-P-1008               | 630*DU                | 5-P-1050               |
| 626*BG                | 5-P-1015               | 630*ED                | 5-P-1056               |
| 626*BQ                | 5-P-1023               | 630*ES                | 5-P-1059               |
| 626*CD                | 5-P-1031               | 630*EV                | 5-P-1060               |
| 626*DA                | 5-P-1037               | 630*EW                | 5-P-1061               |
| 626*DU                | 5-P-1050               | 630*FN                | 5-P-1070               |
| 626*ED                | 5-P-1056               | 630*HY                | 5-P-1237               |
| 626*ES                | 5-P-1059               | 630*IT                | KIT ADAPTER            |
| 626*EV                | 5-P-1060               | 630*JK                | 5-P-1261               |
| 626*EW                | 5-P-1061               | 630*JM                | 5-P-1263               |
| 626*FN                | 5-P-1070               | 630*JU                | 5-P-1316               |
| 626*HY                | 5-P-1237               | 630*JW                | 5-P-1319               |
| 626*JK                | 5-P-1261               | 645*AB                | 5-P-1001               |
| 626*JM                | 5-P-1263               | 645*AH                | 5-P-1004               |
| 626*JU                | 5-P-1316               | 645*AP                | 5-P-1006               |
| 626*JW                | 5-P-1319               | 645*AR                | 5-P-1008               |
| 626*IT                | KIT ADAPTER            | 645*BQ                | 5-P-1023               |
| 628*AB                | 5-P-1001               | 645*CD                | 5-P-1031               |
| 628*AH                | 5-P-1004               | 645*DA                | 5-P-1037               |
| 628*AR                | 5-P-1008               | 645*DU                | 5-P-1050               |
| 628*BG                | 5-P-1015               | 645*ED                | 5-P-1056               |
| 628*BQ                | 5-P-1023               | 645*ES                | 5-P-1059               |
| 628*CD                | 5-P-1031               | 645*EV                | 5-P-1060               |
| 628*DA                | 5-P-1037               | 645*EW                | 5-P-1061               |
| 628*DU                | 5-P-1050               | 645*FN                | 5-P-1070               |
| 628*ED                | 5-P-1056               | 645*HY                | 5-P-1237               |
| 628*EV                | 5-P-1060               | 645*IT                | KIT ADAPTER            |
| 628*IT                | KIT ADAPTER            | 645*JK                | 5-P-1261               |
| 630*AB                | 5-P-1001               | 645*JM                | 5-P-1263               |
| 630*AH                | 5-P-1004               | 645*JU                | 5-P-1316               |
| 630*AP                | 5-P-1006               |                       |                        |
| 630*AR                | 5-P-1008               |                       |                        |
| 630*BG                | 5-P-1015               |                       |                        |
| 630*BQ                | 5-P-1023               |                       |                        |

Notes

Lined area for notes.

# Applications





|                                   |                      |
|-----------------------------------|----------------------|
| Aisin .....                       | 4.1.1 thru 4.1.4     |
| Allison .....                     | 4.2.1 thru 4.2.22    |
| Caterpillar .....                 | 4.3.1 thru 4.3.16    |
| Chelsea .....                     | 4.4.1 thru 4.4.8     |
| Dodge .....                       | 4.5.1 thru 4.5.4     |
| Eaton Fuller .....                | 4.6.1 thru 4.6.70    |
| Ford .....                        | 4.7.1 thru 4.7.2     |
| GM .....                          | 4.8.1 thru 4.8.6     |
| Hino .....                        | 4.9.1 thru 4.9.8     |
| Isuzu .....                       | 4.10.1 thru 4.10.14  |
| Mack .....                        | 4.11.1 thru 4.11.52  |
| Mercedes .....                    | 4.12.1 thru 4.12.6   |
| Meritor (includes Rockwell) ..... | 4.13.1 thru 4.13.24  |
| Mitsubishi .....                  | 4.14.1 thru 4.14.14  |
| New Process .....                 | 4.15.1 thru 4.15.6   |
| New Venture .....                 | 4.16.1 thru 4.16.6   |
| Nissan .....                      | 4.17.1 thru 4.17.6   |
| Renault .....                     | 4.18.1 thru 4.18.4   |
| Tremec .....                      | 4.19.1 thru 4.19.4   |
| TTC (Includes Spicer) .....       | 4.20.1 thru 4.20.124 |
| Warner .....                      | 4.21.1 thru 4.21.4   |
| ZF .....                          | 4.22.1 thru 4.22.15  |





**AISIN**



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This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

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## AISIN TRANSMISSION INDEX

| Transmission Make and Model | P.T.O.<br>Appl.<br>Number | Number<br>Forward<br>Speeds | Teeth in<br>P.T.O.<br>Driver |
|-----------------------------|---------------------------|-----------------------------|------------------------------|
| A443E                       | AIS-1                     | 4                           | L58                          |
| A445                        | AIS-1                     | 4                           | L58                          |
| A450-43LE                   | IZU-12                    | 4                           | L58                          |
| MY600                       | AIS-2                     | 6                           | L69                          |



**IMPORTANT:** See Safety Information  
in Section 1 of the Chelsea Applications  
catalog HY25-3000/US.

Transmission P.T.O. Driver & Aperatures (Viewed from Rear of Transmission)

L-Left Side R-Right Side B-Bottom Side T-Top Side

*For transmission not listed, contact your authorized Chelsea Distributor.*

January 2008

A443E  
A445  
MO35A4

## LEFT SIDE ONLY

## TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

58 Teeth - SPUR

## PITCH LINE TO APERTURE FACE:

1.0880" (27.6352MM)

**Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.**

| LEFT Side<br>P.T.O. Model | Inter.<br>Torq. | Dir.<br>Rot. | Engine % |     | Filler Block | Adapter<br>Assy. | Stud Kit | P.T.O. Model | Inter.<br>Torq. | Dir.<br>Rot. | Engine % |     | Filler Block | Adapter<br>Assy. | Stud Kit |
|---------------------------|-----------------|--------------|----------|-----|--------------|------------------|----------|--------------|-----------------|--------------|----------|-----|--------------|------------------|----------|
|                           |                 |              | Hi       | Rev |              |                  |          |              |                 |              | Hi       | Rev |              |                  |          |

## ONE SPEED - TWO GEAR - POWERSHIFT (HYDRAULIC)

|                 |     |     |     |  |  |  |           |
|-----------------|-----|-----|-----|--|--|--|-----------|
| 243AGKUP-*5 (1) | 85  | Opp | 140 |  |  |  | Furnished |
| 270AAKUP-*5 (2) | 210 | Eng | 55  |  |  |  | Furnished |
| 270ABKUP-*5 (3) | 163 | Eng | 71  |  |  |  | Furnished |
| 270ADKUP-*5 (4) | 139 | Eng | 82  |  |  |  | Furnished |
| 270AKKUP-*5 (5) | 104 | Eng | 111 |  |  |  | Furnished |
| 270AQKUP-*5 (6) | 78  | Eng | 130 |  |  |  | Furnished |

## Continued Next Page

**NOTE:** When ordering the 270 "A", the hose kit 329246X and metric stud kit 328170-205X is furnished with the P.T.O. The hose kit and metric stud kit are required for completing the 270 Series installation. The 329246X kit supplies hoses for the low pressure lube, high pressure oil, and drain back oil.

**NOTE:** The torque ratings shown for the 270 Series are based on the maximum allowable torque capacity of the P.T.O. drive gear in the transmission.

**NOTE:** To mount the 243 Series or 270 Series a revision to the 6 bolt aperture face had to be made so the input gear of the PTO did not interfere with the transmission case. The revised transmission case will have a serial number of 8D3394 or higher.

- (1) Input Gear Part No. 5-P-1352  
(2) Input Gear Part No. 5-P-1353  
(3) Input Gear Part No. 5-P-1354  
(4) Input Gear Part No. 5-P-1355  
(5) Input Gear Part No. 5-P-1356  
(6) Input Gear Part No. 5-P-1359

January 2008

MY600  
MO36A6

**LEFT SIDE ONLY****TRANSMISSION GEAR DATA:**

L.H. 6-Bolt Opening Gear FORWARD of Centerline

69 Teeth - SPUR

**PITCH LINE TO APERTURE FACE:**

1.0880" (27.6352MM)

**Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.**

| LEFT Side<br>P.T.O. Model | Inter.<br>Torq. | Dir.<br>Rot. | Engine % |     | Filler Block | Adapter<br>Assy. | Stud Kit | P.T.O. Model | Inter.<br>Torq. | Dir.<br>Rot. | Engine % |     | Filler Block | Adapter<br>Assy. | Stud Kit |
|---------------------------|-----------------|--------------|----------|-----|--------------|------------------|----------|--------------|-----------------|--------------|----------|-----|--------------|------------------|----------|
|                           |                 |              | Hi       | Rev |              |                  |          |              |                 |              | Hi       | Rev |              |                  |          |

**ONE SPEED - TWO GEAR - POWERSHIFT (HYDRAULIC)**

|                 |     |     |     |  |         |  |           |
|-----------------|-----|-----|-----|--|---------|--|-----------|
| 243AGKUP-*5 (1) | 65  | Opp | 167 |  | 7-A-032 |  | Furnished |
| 270AAKUP-*5 (2) | 167 | Eng | 65  |  | 7-A-032 |  | Furnished |
| 270ABKUP-*5 (3) | 129 | Eng | 85  |  | 7-A-032 |  | Furnished |
| 270ADKUP-*5 (4) | 112 | Eng | 98  |  | 7-A-032 |  | Furnished |
| 270AKKUP-*5 (5) | 82  | Eng | 132 |  | 7-A-032 |  | Furnished |
| 270AQKUP-*5 (6) | 78  | Eng | 155 |  | 7-A-032 |  | Furnished |

**NOTE:** When ordering the 270 "A", the Hose Kit 329246X and Metric Stud Kit 328170-205X are furnished with the P.T.O. The Hose and Metric Stud Kit are required for completing the 270 Series installation. The 329246X kit supplies the hoses for the low pressure lube, high pressure oil, and drain back oil.

- (1) Input Gear Part No. 5-P-1352  
(2) Input Gear Part No. 5-P-1353  
(3) Input Gear Part No. 5-P-1354  
(4) Input Gear Part No. 5-P-1355  
(5) Input Gear Part No. 5-P-1356  
(6) Input Gear Part No. 5-P-1359

January 2008

|                       |
|-----------------------|
| A450-43LE<br>450-43LE |
|-----------------------|

|                       |  |
|-----------------------|--|
| <b>LEFT SIDE ONLY</b> |  |
|-----------------------|--|

|                                                                                                                                                                   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>TRANSMISSION GEAR DATA:</b><br>L.H. 6-Bolt Opening Gear FORWARD of Centerline<br>58 Teeth - SPUR<br><b>PITCH LINE TO APERTURE FACE:</b><br>1.0880" (27.6352MM) |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

| LEFT Side<br>P.T.O. Model | Inter.<br>Torq. | Dir.<br>Rot. | Engine % |     | Filler Block | Adapter<br>Assy. | Stud Kit | P.T.O. Model | Inter.<br>Torq. | Dir.<br>Rot. | Engine % |     | Filler Block | Adapter<br>Assy. | Stud Kit |
|---------------------------|-----------------|--------------|----------|-----|--------------|------------------|----------|--------------|-----------------|--------------|----------|-----|--------------|------------------|----------|
|                           |                 |              | Hi       | Rev |              |                  |          |              |                 |              | Hi       | Rev |              |                  |          |

ONE SPEED - TWO GEAR - POWERSHIFT (HYDRAULIC)

|                 |     |     |     |  |  |  |  |           |
|-----------------|-----|-----|-----|--|--|--|--|-----------|
| 270AAKUP-*5 (1) | 210 | Eng | 55  |  |  |  |  | Furnished |
| 270ABKUP-*5 (2) | 163 | Eng | 71  |  |  |  |  | Furnished |
| 270ADKUP-*5 (3) | 139 | Eng | 82  |  |  |  |  | Furnished |
| 270AKKUP-*5 (4) | 104 | Eng | 111 |  |  |  |  | Furnished |
| 270AQKUP-*5 (5) | 78  | Eng | 148 |  |  |  |  | Furnished |

**NOTE:** When ordering the 270 "A", the hose kit 329246X and metric stud kit 328170-205X is furnished with the P.T.O. The hose kit and metric stud kit are required for completing the 270 Series installation. The 329246X kit supplies hoses for the low pressure lube, high pressure oil, and drain back oil.

**NOTE:** The torque ratings shown for the 270 Series are based on the maximum allowable torque capacity of the P.T.O. drive gear in the transmission.

**NOTE:** The P.T.O.s shown on this application page will fit Isuzu NQR model trucks with serial number X7901741 and later only.

**NOTE:** The P.T.O.s shown on this application page will fit Isuzu NPR model trucks with wheel bases of 109" or 132" and a serial number of X7006763 and later.

**NOTE:** The P.T.O.s shown on this application page will also fit the same NPR model trucks with wheel bases of 150" and 176" after August of 1998 and serial number of X7006763 and later.

**NOTE:** The serial number is the last eight digits found on the VIN plate which is located in the cab behind the driver.

- (1) Input Gear Part No. 5-P-1353
- (2) Input Gear Part No. 5-P-1354
- (3) Input Gear Part No. 5-P-1355
- (4) Input Gear Part No. 5-P-1356
- (5) Input Gear Part No. 5-P-1359

January 2008



**ALLISON**



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Allison Transmission has redesigned the transmission nameplates for all 1000/2000 and 3000/4000 Product Family transmissions. The new nameplate design contains only the information essential to the identification of the transmission. The transmission model number will no longer appear on the nameplate, it has been replaced by the serial number. This change was implemented July 2005.

The transmission product family is identified by the first two digits of the transmission serial number:

## Serial Number

63xxxxxxx  
65xxxxxxx  
66xxxxxxx

## Product Family

1000 and 2000 Product Family  
3000 Product Family  
4000 Product Family

“SP” models will contain additional information to accommodate military applications. The transmission E-number is embossed on the “SP” models and when required for other models sold to the military. The transmission model number is embossed on the nameplate for “SP” model and “MD” and “HD” models sold to the military. The model number will not be embossed for any other model. (Ref: Allison Watch #335 Rev. A)

For further assistance contact Allison Technical Assistance at (800) 252-5283.

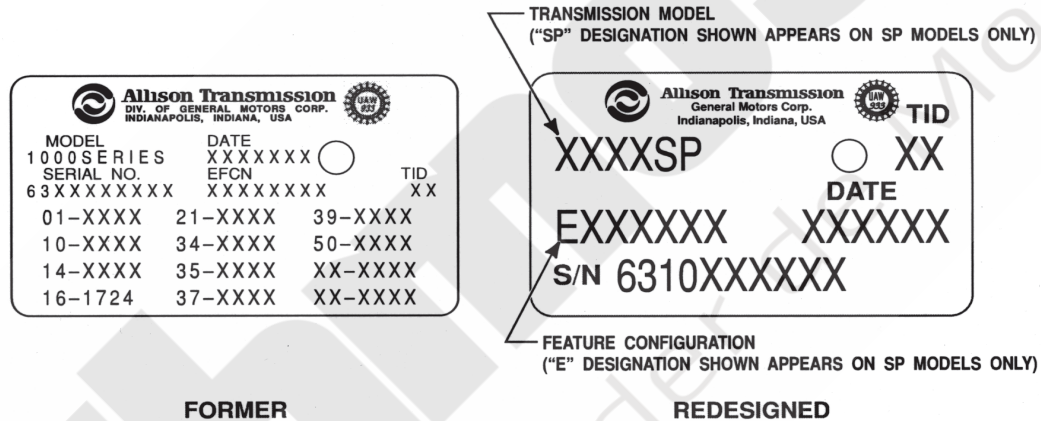


Figure 1. 1000 and 2000 Product Families Nameplates

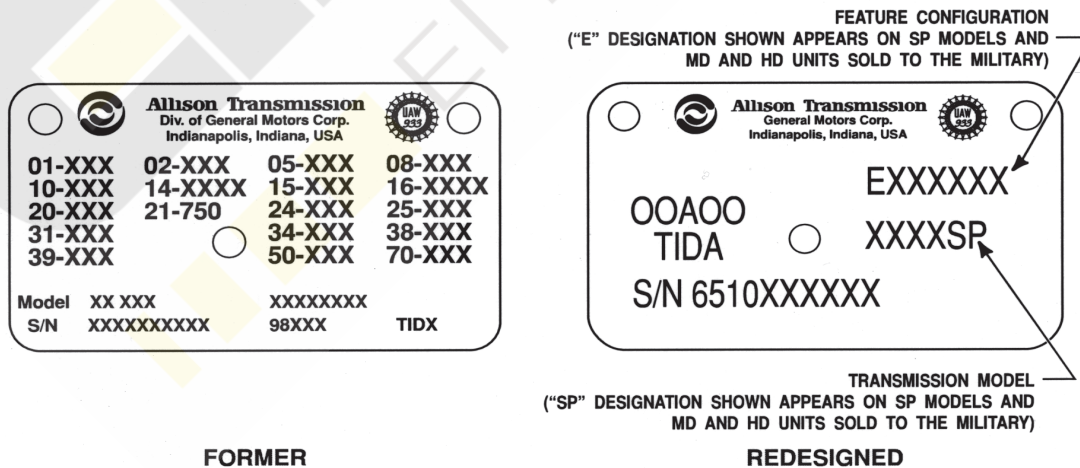


Figure 2. 3000 and 4000 Product Families Nameplates

Notes

## ALLISON TRANSMISSION INDEX

| Transmission Make and Model                                       | P.T.O.<br>Appl.<br>Number | Number<br>Forward<br>Speeds | Teeth in<br>P.T.O.<br>Driver |
|-------------------------------------------------------------------|---------------------------|-----------------------------|------------------------------|
| AT-540                                                            | ALL-4                     | 4                           | R55                          |
| AT-542                                                            | ALL-4                     | 4                           | R55                          |
| AT-543                                                            | ALL-4                     | 4                           | R55                          |
| AT-545                                                            | ALL-4                     | 4                           | R55                          |
| B 210                                                             | ALL-15                    | 5                           | L64-R64                      |
| B 220                                                             | ALL-15                    | 5                           | L64-R64                      |
| B 300                                                             | ALL-13                    | 6                           | L68-R68                      |
| B 400                                                             | ALL-13                    | 6                           | L68-R68                      |
| B 500                                                             | ALL-14                    | 6                           | L97-R97                      |
| CLBT-750                                                          | ALL-6                     | 5                           | L78                          |
| CLBT-750 (With Optional 8-bolt Opening Ahead of Torque Converter) | ALL-12                    | 5                           | L64-T40                      |
| CLBT-754                                                          | ALL-6                     | 5                           | L78                          |
| CLBT-754 (With Optional 8-bolt Opening Ahead of Torque Converter) | ALL-12                    | 5                           | L64-T40                      |
| CLT-750                                                           | ALL-6                     | 5                           | L78                          |
| CLT-750 (With Optional 8-bolt Opening Ahead of Torque Converter)  | ALL-12                    | 5                           | L64-T40                      |
| CLT-754                                                           | ALL-6                     | 5                           | L78                          |
| CLT-754 (With Optional 8-bolt Opening Ahead of Torque Converter)  | ALL-12                    | 5                           | L64-T40                      |
| CLT-9485                                                          | ALL-11                    | 6                           | R52                          |
| CLT-9880                                                          | ALL-11                    | 6                           | R52                          |
| CLT-9884                                                          | ALL-11                    | 6                           | R52                          |
| CLT-9885                                                          | ALL-11                    | 6                           | R52                          |
| HD-4060P (Close Ratio)                                            | ALL-14                    | 6                           | L97-R97                      |
| HD-4070P                                                          | ALL-14                    | 7                           | L97-R97                      |
| HD-4560P (Wide Ratio)                                             | ALL-14                    | 6                           | L97-R97                      |
| HT-740CRD                                                         | ALL-6                     | 4                           | L78                          |
| HT-740D                                                           | ALL-6                     | 4                           | L78                          |
| HT-740DRD                                                         | ALL-6                     | 4                           | L78                          |
| HT-740T                                                           | ALL-6                     | 4                           | L78                          |
| HT-750CRD                                                         | ALL-6                     | 5                           | L78                          |
| HT-750CRD (W/Optional 8-Bolt Opening Ahead of Torque Converter)   | ALL-12                    | 5                           | L64-T40                      |
| HT-750D                                                           | ALL-6                     | 5                           | L78                          |
| HT-750DP                                                          | ALL-6                     | 5                           | L78                          |
| HT-750DRD                                                         | ALL-6                     | 5                           | L78                          |
| HT-750DT                                                          | ALL-6                     | 5                           | L78                          |
| HT-750HT                                                          | ALL-6                     | 5                           | L78                          |
| HT-750T                                                           | ALL-6                     | 5                           | L78                          |



**IMPORTANT:** See Safety Information in Section 1 of the Chelsea Applications catalog HY25-3000/US.

Transmission P.T.O. Driver & Aperatures (Viewed from Rear of Transmission)

L-Left Side R-Right Side B-Bottom Side T-Top Side

For transmission not listed, contact your authorized Chelsea Distributor.

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## ALLISON TRANSMISSION INDEX

| Transmission Make and Model     | P.T.O.<br>Appl.<br>Number | Number<br>Forward<br>Speeds | Teeth in<br>P.T.O.<br>Driver |
|---------------------------------|---------------------------|-----------------------------|------------------------------|
| HT-754CR                        | ALL-6                     | 5                           | L78                          |
| M5600 ("M" = "Mobil Mode")      | ALL-8                     | 6                           | R46                          |
| M6600 ("M" = "Mobil Mode")      | ALL-8                     | 6                           | R46                          |
| M9600 ("M" = "Mobil Mode")      | ALL-11                    | 6                           | R52                          |
| M9800 ("M" = "Mobil Mode")      | ALL-11                    | 8                           | R52                          |
| MD-3060P (Close Ratio)          | ALL-13                    | 6                           | L68-R68                      |
| MD-3066P (Europe Only)          | ALL-16                    | 6                           | L83-R83                      |
| MD-3070P (Close Ratio)          | ALL-13                    | 7                           | L68-R68                      |
| MD-3560P (Wide Ratio)           | ALL-13                    | 6                           | L68-R68                      |
| MT-640                          | ALL-5                     | 4                           | R64                          |
| MT-643                          | ALL-5                     | 4                           | R64                          |
| MT-644                          | ALL-5                     | 4                           | R64                          |
| MT-650                          | ALL-5                     | 5                           | R64                          |
| MT-653                          | ALL-5                     | 5                           | R64                          |
| MT-654                          | ALL-5                     | 5                           | R64                          |
| S5600 ("S" = "Stationary Mode") | ALL-8                     | 6                           | R46                          |
| S6600 ("S" = "Stationary Mode") | ALL-8                     | 6                           | R46                          |
| S9600 ("S" = "Stationary Mode") | ALL-11                    | 6                           | R52                          |
| S9800 ("S" = "Stationary Mode") | ALL-11                    | 8                           | R52                          |
| 1000                            | ALL-15                    | 5                           | L64-R64                      |
| 1000 (GM 3600 Cab-Chassis)      | ALL-17                    | 5                           | R64                          |
| 1000 EVS                        | ALL-15                    | 5                           | L64-R64                      |
| 1000 MH                         | ALL-15                    | 5                           | L64-R64                      |
| 1000 RDS                        | ALL-15                    | 5                           | L64-R64                      |
| 2000                            | ALL-15                    | 5                           | L64-R64                      |
| 2100 EVS                        | ALL-15                    | 5                           | L64-R64                      |
| 2100 MH                         | ALL-15                    | 5                           | L64-R64                      |
| 2100 RDS                        | ALL-15                    | 5                           | L64-R64                      |
| 2200 EVS                        | ALL-15                    | 5                           | L64-R64                      |
| 2200 MH                         | ALL-15                    | 5                           | L64-R64                      |
| 2200 RDS                        | ALL-15                    | 5                           | L64-R64                      |
| 2300 RDS                        | ALL-15                    | 6                           | L64-R64                      |
| 2400                            | ALL-15                    | 5                           | L64-R64                      |
| 2500 EVS                        | ALL-15                    | 5                           | L64-R64                      |
| 2500 MH                         | ALL-15                    | 5                           | L64-R64                      |
| 2500 RDS                        | ALL-15                    | 5                           | L64-R64                      |

Transmission P.T.O. Driver & Apertures (Viewed from Rear of Transmission)

L-Left Side R-Right Side B-Bottom Side T-Top Side

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For transmission not listed, contact your authorized Chelsea Distributor.



**IMPORTANT:** See Safety Information  
in Section I of the Chelsea Applications  
catalog HY25-3000/US.

## ALLISON TRANSMISSION INDEX

| Transmission Make and Model                                  | P.T.O.<br>Appl.<br>Number | Number<br>Forward<br>Speeds | Teeth in<br>P.T.O.<br>Driver |
|--------------------------------------------------------------|---------------------------|-----------------------------|------------------------------|
| 3000 EVS (Emergency Vehicles Only Top / Side PTO Provisions) | ALL-16EV                  | 6                           | L83-T83                      |
| 3000 MH                                                      | ALL-13                    | 6                           | L68-R68                      |
| 3000 RDS                                                     | ALL-13                    | 6                           | L68-R68                      |
| 3000 TRV                                                     | ALL-13                    | 6                           | L68-R68                      |
| 3200 TRV                                                     | ALL-13                    | 6                           | L68-R68                      |
| 3500 EVS (Emergency Vehicles Only Top / Side PTO Provisions) | ALL-16EV                  | 6                           | L83-T83                      |
| 3500 RDS                                                     | ALL-13                    | 6                           | L68-R68                      |
| 4000 EVS                                                     | ALL-14                    | 6                           | L97-R97                      |
| 4000 MH                                                      | ALL-14                    | 6                           | L97-R97                      |
| 4000 RDS                                                     | ALL-14                    | 6                           | L97-R97                      |
| 4000 TRV                                                     | ALL-14                    | 6                           | L97-R97                      |
| 4500 EVS                                                     | ALL-14                    | 6                           | L97-R97                      |
| 4500 RDS                                                     | ALL-14                    | 6                           | L97-R97                      |
| 4700 EVS                                                     | ALL-14                    | 7                           | L97-R97                      |
| 4700 OFS                                                     | ALL-14                    | 7                           | L97-R97                      |
| 4700 RDS                                                     | ALL-14                    | 6                           | L97-R97                      |
| 4800 EVS                                                     | ALL-14                    | 7                           | L97-R97                      |



**IMPORTANT:** See Safety Information  
in Section 1 of the Chelsea Applications  
catalog HY25-3000/US.

Transmission P.T.O. Driver & Apertures (Viewed from Rear of Transmission)

L-Left Side R-Right Side B-Bottom Side T-Top Side

*For transmission not listed, contact your authorized Chelsea Distributor.*

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AT-540  
AT-542  
AT-543  
AT-545

## RIGHT SIDE ONLY

## TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

55 Teeth - SPUR

## PITCH LINE TO APERTURE FACE:

1.0850" (27.5600MM)

**Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.**

| P.T.O. Model | Inter. Torq. | Dir. Rot. | Engine % |     | Filler Block | Adapter Assy. | Stud Kit | RIGHT Side P.T.O. Model | Inter. Torq. | Dir. Rot. | Engine % |     | Filler Block | Adapter Assy. | Stud Kit |
|--------------|--------------|-----------|----------|-----|--------------|---------------|----------|-------------------------|--------------|-----------|----------|-----|--------------|---------------|----------|
|              |              |           | Hi       | Rev |              |               |          |                         |              |           | Hi       | Rev |              |               |          |

## ONE SPEED - TWO GEAR - MECHANICAL SHIFT

|                 |     |     |     |           |
|-----------------|-----|-----|-----|-----------|
| 221XCAJP-*3 (1) | 235 | Eng | 106 | Furnished |
| 221XEAJP-*3 (1) | 212 | Eng | 118 | Furnished |
| 442XBAHP-*3 (2) | 250 | Eng | 90  | Furnished |

## ONE SPEED - TWO GEAR - POWERSHIFT (HYDRAULIC)

|                 |     |     |     |           |
|-----------------|-----|-----|-----|-----------|
| 270XAAJP-*3 (3) | 300 | Eng | 75  | Furnished |
| 270XBAJP-*3 (4) | 250 | Eng | 97  | Furnished |
| 270XDAJP-*3 (5) | 222 | Eng | 112 | Furnished |
| 270XKAJP-*3 (6) | 165 | Eng | 152 | Furnished |
| 271MAAJP-*5 (3) | 250 | Eng | 75  | Furnished |
| 271MBAJP-*5 (4) | 250 | Eng | 97  | Furnished |
| 271MDAJP-*5 (5) | 222 | Eng | 112 | Furnished |
| 271MKAJP-*5 (6) | 165 | Eng | 152 | Furnished |

## ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

|                  |     |     |     |           |
|------------------|-----|-----|-----|-----------|
| 230XAAJP-*3 (3)  | 300 | Eng | 75  | Furnished |
| 230XBAJP-*3 (4)  | 250 | Eng | 97  | Furnished |
| 230XDAJP-*3 (5)  | 222 | Eng | 112 | Furnished |
| 230XKAJP-*3 (6)  | 165 | Eng | 152 | Furnished |
| 230XQAJJP-*3 (7) | 125 | Eng | 202 | Furnished |
| 231MAAJP-*5 (3)  | 250 | Eng | 75  | Furnished |
| 231MBAJP-*5 (4)  | 250 | Eng | 97  | Furnished |
| 231MDAJP-*5 (5)  | 222 | Eng | 112 | Furnished |
| 231MKAJP-*5 (6)  | 165 | Eng | 152 | Furnished |
| 231MQAJP-*5 (7)  | 125 | Eng | 202 | Furnished |

**CAUTION:** P.T.O. output shaft torque ratings are based on the maximum intermittent torque rating of 250 lb-ft torque for the 55 tooth gear in the AT-540 series transmission.

**NOTE:** Speeds shown are with engine RPM at or above torque converter lockup speed. If the P.T.O. is going to be operated below torque converter lockup speeds, contact your CHELSEA distributor for specific speeds and torque requirements.

**NOTE:** 378840 street tee required for pressure lube and must be purchased separately. Only the pressure lube line 328075X (line to the idler pin) is included with the P.T.O. For 270/271 Series due to varying valve installation locations on the vehicle installer must supply the following hoses or order the following separately. One 329087X (line from tranny to valve) and two 328075X (valve dump back to PTO housing & valve to P.T.O. clutch).

**NOTE:** For 230 & 270 Series rated at 300 lb/ft. Without pressure lube option reduce intermittent torque rating to 250 lb/ft.

**NOTE:** The "AJ" input gear designator shown on this application, which is a full addendum 6-pitch gear, is recommended for use on these transmissions. The "AH" input gear designator, which is a 6/8-pitch gear, can also be used on these transmissions; however, you may notice some additional rattle between the meshing gears. NOTE: Do not use adapter gear assemblies on any Allison automatic transmissions.

**NOTE:** If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

(1) Input Gear Part No. 5-P-569  
(2) Input Gear Part No. 5-P-1418  
(3) Input Gear Part No. 5-P-567  
(4) Input Gear Part No. 5-P-568  
(5) Input Gear Part No. 5-P-695  
(6) Input Gear Part No. 5-P-769

(7) Input Gear Part No. 5-P-770

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|        |        |
|--------|--------|
| MT-640 | MT-654 |
| MT-643 |        |
| MT-644 |        |
| MT-650 |        |
| MT-653 |        |

## RIGHT SIDE ONLY

## TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

64 Teeth - SPUR

## PITCH LINE TO APERTURE FACE:

1.0850" (27.5600MM)

**Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.**

| P.T.O. Model | Inter. Torq. | Dir. Rot. | Engine % |     | Filler Block | Adapter Assy. | Stud Kit | RIGHT Side P.T.O. Model | Inter. Torq. | Dir. Rot. | Engine % |     | Filler Block | Adapter Assy. | Stud Kit |
|--------------|--------------|-----------|----------|-----|--------------|---------------|----------|-------------------------|--------------|-----------|----------|-----|--------------|---------------|----------|
|              |              |           | Hi       | Rev |              |               |          |                         |              |           | Hi       | Rev |              |               |          |

**ONE SPEED - TWO GEAR - MECHANICAL SHIFT**

|                 |     |     |     |           |
|-----------------|-----|-----|-----|-----------|
| 221XCAJP-*3     | 250 | Eng | 124 | Furnished |
| 221XEAJP-*3     | 250 | Eng | 137 | Furnished |
| 442XBAHP-*3 (1) | 250 | Eng | 104 | Furnished |

**ONE SPEED - TWO GEAR - POWERSHIFT (HYDRAULIC)**

|             |     |     |     |           |
|-------------|-----|-----|-----|-----------|
| 270XAAJP-*3 | 300 | Eng | 87  | Furnished |
| 270XBAJP-*3 | 300 | Eng | 113 | Furnished |
| 270XDAJP-*3 | 300 | Eng | 131 | Furnished |
| 270XKAJP-*3 | 300 | Eng | 177 | Furnished |
| 271MAAJP-*5 | 250 | Eng | 87  | Furnished |
| 271MBAJP-*5 | 250 | Eng | 113 | Furnished |
| 271MDAJP-*5 | 250 | Eng | 131 | Furnished |
| 271MKAJP-*5 | 250 | Eng | 177 | Furnished |

**ONE SPEED - TWO GEAR - POWERSHIFT (AIR)**

|              |     |     |     |           |
|--------------|-----|-----|-----|-----------|
| 230XAAJP-*3  | 300 | Eng | 87  | Furnished |
| 230XBAJP-*3  | 300 | Eng | 113 | Furnished |
| 230XDAJP-*3  | 300 | Eng | 131 | Furnished |
| 230XKAJP-*3  | 300 | Eng | 177 | Furnished |
| 230XQAJJP-*3 | 300 | Eng | 235 | Furnished |
| 231MAAJP-*5  | 250 | Eng | 87  | Furnished |
| 231MBAJP-*5  | 250 | Eng | 113 | Furnished |
| 231MDAJP-*5  | 250 | Eng | 131 | Furnished |
| 231MKAJP-*5  | 250 | Eng | 177 | Furnished |
| 231MQAJP-*5  | 250 | Eng | 235 | Furnished |

**NOTE:** Do not use adapter gear assemblies on any Allison automatic transmissions.**NOTE:** Speeds shown are with engine RPM at, or above, torque converter lockup speed. If the P.T.O. is going to be operated below torque converter lockup speeds, contact your CHELSEA distributor for specific speeds and torque requirements.**NOTE:** 378970 street tee required for pressure lube for 1975 and after, and must be purchased separately. 378880 street tee required for pressure lube prior to 1975. Only the pressure lube line 328075X (line to the idler pin) is included with the P.T.O. For 270/271 Series due to varying valve installation locations on the vehicle installer must supply the following hoses or order the following separately. One 329087X (line from tranny to valve) and two 328075X (valve dump back to PTO housing & valve to P.T.O. clutch).**NOTE:** For 270/271 series rated at 300 lb/ft. Without pressure lube option reduce intermittent torque rating to 250 lb/ft.**NOTE:** The "AJ" input gear designator shown on this application, which is a full addendum 6-pitch gear, is recommended for use on these transmissions. The "AH" input gear designator, which is a 6/8-pitch gear, can also be used on these transmissions; however, you may notice some additional rattle between the meshing gears.**NOTE:** If the 270/271/230/231 Series is ordered with the Drag Brake option the rear cover of the P.T.O. will interfere with the transmission clutch housing.

(1) Input Gear Part No. 5-P-1418

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|           |           |           |          |
|-----------|-----------|-----------|----------|
| CLBT-750  | HT-740D   | HT-750DP  | HT-754CR |
| CLBT-754  | HT-740DRD | HT-750DRD |          |
| CLT-750   | HT-740T   | HT-750DT  |          |
| CLT-754   | HT-750CRD | HT-750HT  |          |
| HT-740CRD | HT-750D   | HT-750T   |          |

**LEFT SIDE ONLY****TRANSMISSION GEAR DATA:**

L.H. 6-Bolt Opening Gear FORWARD of Centerline

78 Teeth - SPUR

**PITCH LINE TO APERTURE FACE:**

1.0850" (27.5600MM)

**Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.**

| LEFT Side<br>P.T.O. Model | Inter.<br>Torq. | Dir.<br>Rot. | Engine % |     | Filler Block | Adapter<br>Assy. | Stud Kit | P.T.O. Model | Inter.<br>Torq. | Dir.<br>Rot. | Engine % |     | Filler Block | Adapter<br>Assy. | Stud Kit |
|---------------------------|-----------------|--------------|----------|-----|--------------|------------------|----------|--------------|-----------------|--------------|----------|-----|--------------|------------------|----------|
|                           |                 |              | Hi       | Rev |              |                  |          |              |                 |              | Hi       | Rev |              |                  |          |

**ONE SPEED - TWO GEAR - MECHANICAL SHIFT**

|                 |     |     |     |  |  |  |           |
|-----------------|-----|-----|-----|--|--|--|-----------|
| 221XCAJP-*5     | 250 | Eng | 151 |  |  |  | Furnished |
| 221XEAJP-*5     | 250 | Eng | 167 |  |  |  | Furnished |
| 442XBAHP-*5 (1) | 250 | Eng | 127 |  |  |  | Furnished |

**ONE SPEED - TWO GEAR - POWERSHIFT (HYDRAULIC)**

|             |     |     |     |  |  |  |           |
|-------------|-----|-----|-----|--|--|--|-----------|
| 270XAAJP-*5 | 300 | Eng | 106 |  |  |  | Furnished |
| 270XBAJP-*5 | 300 | Eng | 138 |  |  |  | Furnished |
| 270XDAJP-*5 | 300 | Eng | 159 |  |  |  | Furnished |
| 270XKAJP-*5 | 300 | Eng | 215 |  |  |  | Furnished |
| 271MAAJP-*5 | 250 | Eng | 106 |  |  |  | Furnished |
| 271MBAJP-*5 | 250 | Eng | 138 |  |  |  | Furnished |
| 271MDAJP-*5 | 250 | Eng | 159 |  |  |  | Furnished |
| 271MKAJP-*5 | 250 | Eng | 215 |  |  |  | Furnished |

**ONE SPEED - TWO GEAR - POWERSHIFT (AIR)**

|              |     |     |     |  |  |  |           |
|--------------|-----|-----|-----|--|--|--|-----------|
| 230XAAJP-*5  | 300 | Eng | 106 |  |  |  | Furnished |
| 230XBAJP-*5  | 300 | Eng | 138 |  |  |  | Furnished |
| 230XDAJP-*5  | 300 | Eng | 159 |  |  |  | Furnished |
| 230XKAJP-*5  | 300 | Eng | 215 |  |  |  | Furnished |
| 230XQAJJP-*5 | 300 | Eng | 287 |  |  |  | Furnished |
| 231MAAJP-*5  | 250 | Eng | 106 |  |  |  | Furnished |
| 231MBAJP-*5  | 250 | Eng | 138 |  |  |  | Furnished |
| 231MDAJP-*5  | 250 | Eng | 159 |  |  |  | Furnished |
| 231MKAJP-*5  | 250 | Eng | 215 |  |  |  | Furnished |
| 231MQAJP-*5  | 250 | Eng | 287 |  |  |  | Furnished |

**NOTE:** Do not use adapter gear assemblies on any Allison automatic transmissions.**NOTE:** Speeds shown are with engine RPM at, or above, torque converter lockup speed. If the P.T.O. is going to be operated below torque converter lockup speeds, contact your CHELSEA distributor for specific speeds and torque requirements.**NOTE:** 378897 street tee required for pressure lube and must be purchased separately. Only the pressure lube line 328075X (line to the idler pin) is included with the P.T.O. For 270/271 Series due to varying valve installation locations on the vehicle installer must supply the following hoses or order the following separately. One 329087X (line from tranny to valve) and two 328075X (valve dump back to PTO housing & valve to P.T.O. clutch).**NOTE:** Aperture is located at 10 o'clock when viewed from rear of transmission.**NOTE:** The "AJ" input gear designator shown on this application, which is a full addendum 6-pitch gear, is recommended for use on these transmissions. The "AH" input gear designator, which is a 6/8-pitch gear, can also be used on these transmissions; however, you may notice some additional rattle between the meshing gears.**NOTE:** If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

(1) Input Gear Part No. 5-P-1418

M5600  
M6600  
S5600  
S6600

## TOP SIDE ONLY

## RIGHT SIDE ONLY

**TRANSMISSION GEAR DATA:**

TOP 8-Bolt Opening Gear REAR of Centerline

38 Teeth - SPUR

**PITCH LINE TO APERTURE FACE:**

.8020" (20.3708MM)

**TRANSMISSION GEAR DATA:**

R.H. 8-Bolt Opening Gear REAR of Centerline

46 Teeth - SPUR

**PITCH LINE TO APERTURE FACE:**

.8020" (20.3708MM)

**Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.**

| P.T.O. Model | Inter. Torq. | Dir. Rot. | Engine % |     | Filler Block | Adapter Assy. | Stud Kit | RIGHT Side P.T.O. Model | Inter. Torq. | Dir. Rot. | Engine % |     | Filler Block | Adapter Assy. | Stud Kit |
|--------------|--------------|-----------|----------|-----|--------------|---------------|----------|-------------------------|--------------|-----------|----------|-----|--------------|---------------|----------|
|              |              |           | Hi       | Rev |              |               |          |                         |              |           | Hi       | Rev |              |               |          |

**ONE SPEED - TWO GEAR - MECHANICAL SHIFT**

|                  |     |     |     |  |  |         |           |                 |     |     |    |  |  |         |           |
|------------------|-----|-----|-----|--|--|---------|-----------|-----------------|-----|-----|----|--|--|---------|-----------|
| 221ZCAKP-*6      | 250 | Opp | 89  |  |  | 328564X | Furnished | 221ZCAKP-*4     | 250 | Eng | 89 |  |  | 328564X | Furnished |
| 221ZEA KP-*6     | 250 | Opp | 99  |  |  | 328564X | Furnished | 221ZEA KP-*4    | 250 | Eng | 99 |  |  | 328564X | Furnished |
| 823XBAKP-*6 (1)  | 500 | Opp | 81  |  |  |         | Furnished | 823XBAKP-*4 (1) | 500 | Eng | 81 |  |  |         | Furnished |
| 823XDAKP-*6 (2)  | 500 | Opp | 96  |  |  |         | Furnished | 880XBAKP-*4 (6) | 500 | Eng | 81 |  |  |         | Furnished |
| 823XGAKP-*6 (3)  | 500 | Opp | 104 |  |  |         | Furnished |                 |     |     |    |  |  |         |           |
| 823XJAKP-*6 (4)  | 500 | Opp | 122 |  |  |         | Furnished |                 |     |     |    |  |  |         |           |
| 823XMAKP-*6 (5)  | 500 | Opp | 144 |  |  |         | Furnished |                 |     |     |    |  |  |         |           |
| 880XBAKP-*6 (6)  | 500 | Opp | 81  |  |  |         | Furnished |                 |     |     |    |  |  |         |           |
| 880XDAKP-*6 (7)  | 500 | Opp | 96  |  |  |         | Furnished |                 |     |     |    |  |  |         |           |
| 880XGAKP-*6 (8)  | 500 | Opp | 104 |  |  |         | Furnished |                 |     |     |    |  |  |         |           |
| 880XJAKP-*6 (9)  | 500 | Opp | 122 |  |  |         | Furnished |                 |     |     |    |  |  |         |           |
| 880XMAKP-*6 (10) | 500 | Opp | 144 |  |  |         | Furnished |                 |     |     |    |  |  |         |           |

**ONE SPEED - SINGLE GEAR - POWERSHIFT (HYDRAULIC)**

|             |     |     |     |  |  |  |           |  |  |  |  |  |  |  |  |
|-------------|-----|-----|-----|--|--|--|-----------|--|--|--|--|--|--|--|--|
| 800XMAKP-*4 | 250 | Eng | 144 |  |  |  | Furnished |  |  |  |  |  |  |  |  |
|-------------|-----|-----|-----|--|--|--|-----------|--|--|--|--|--|--|--|--|

**ONE SPEED - TWO GEAR - POWERSHIFT (HYDRAULIC)**

|             |     |     |     |  |  |         |           |             |     |     |     |  |  |         |           |
|-------------|-----|-----|-----|--|--|---------|-----------|-------------|-----|-----|-----|--|--|---------|-----------|
| 270XAAKP-*6 | 250 | Opp | 62  |  |  | 328481X | Furnished | 270XAAKP-*4 | 300 | Eng | 62  |  |  | 328481X | Furnished |
| 270XDAKP-*6 | 250 | Opp | 94  |  |  | 328481X | Furnished | 270XDAKP-*4 | 300 | Eng | 94  |  |  | 328481X | Furnished |
| 270XKAKP-*6 | 225 | Opp | 127 |  |  | 328481X | Furnished | 270XKAKP-*4 | 300 | Eng | 127 |  |  | 328481X | Furnished |
| 852XBAKP-*6 | 500 | Opp | 81  |  |  |         | Furnished | 852XBAKP-*4 | 500 | Eng | 81  |  |  |         | Furnished |
| 852XGAKP-*6 | 500 | Opp | 104 |  |  |         | Furnished | 852XGAKP-*4 | 500 | Eng | 104 |  |  |         | Furnished |
| 852XJAKP-*6 | 500 | Opp | 122 |  |  |         | Furnished | 852XJAKP-*4 | 500 | Eng | 122 |  |  |         | Furnished |

**ONE SPEED - TWO GEAR - POWERSHIFT (AIR)**

|                  |     |     |     |  |  |  |           |                 |     |     |    |  |  |  |           |
|------------------|-----|-----|-----|--|--|--|-----------|-----------------|-----|-----|----|--|--|--|-----------|
| 885XBAKP-*6 (6)  | 500 | Opp | 81  |  |  |  | Furnished | 885XBAKP-*4 (6) | 500 | Eng | 81 |  |  |  | Furnished |
| 885XGAKP-*6 (8)  | 500 | Opp | 104 |  |  |  | Furnished |                 |     |     |    |  |  |  |           |
| 885XJAKP-*6 (9)  | 500 | Opp | 122 |  |  |  | Furnished |                 |     |     |    |  |  |  |           |
| 885XMAKP-*6 (10) | 500 | Opp | 144 |  |  |  | Furnished |                 |     |     |    |  |  |  |           |

**NOTE:** CRT-5630 & 5631 have only R.H. openings

**NOTE:** Do not use Adapter Gear Assemblies on any Allison Automatic Transmissions.

**NOTE:** Right Side opening is optional. Input gear interference prohibits use of any P.T.O.s other than those shown.

**NOTE:** Only the pressure lube line 328075X (line to the idler pin) is included with the P.T.O. For 270/271 Series due to varying valve installation locations on the vehicle installer must supply the following hoses or order the following separately. One 329087X (line from tranny to valve) and two 328075X (valve dump back to PTO housing & valve to P.T.O. clutch).

(1) Input Gear Part No. 5-P-223  
(2) Input Gear Part No. 5-P-293  
(3) Input Gear Part No. 5-P-294  
(4) Input Gear Part No. 5-P-224  
(5) Input Gear Part No. 5-P-284  
(6) Input Gear Part No. 5-P-1106

(7) Input Gear Part No. 5-P-1107  
(8) Input Gear Part No. 5-P-1108  
(9) Input Gear Part No. 5-P-1109  
(10) Input Gear Part No. 5-P-1110

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|          |       |
|----------|-------|
| CLT-9485 | M9800 |
| CLT-9880 | S9600 |
| CLT-9884 | S9800 |
| CLT-9885 |       |
| M9600    |       |

| TOP SIDE ONLY                                                                                                                                                 | RIGHT SIDE ONLY                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TRANSMISSION GEAR DATA:</b><br>TOP 8-Bolt Opening Gear REAR of Centerline<br>39 Teeth - SPUR<br><b>PITCH LINE TO APERTURE FACE:</b><br>0.8100" (20.5700MM) | <b>TRANSMISSION GEAR DATA:</b><br>R.H. 8-Bolt Opening Gear REAR of Centerline<br>52 Teeth - SPUR<br><b>PITCH LINE TO APERTURE FACE:</b><br>0.8100" (2.0574MM) |

**Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.**

| P.T.O. Model | Inter. Torq. | Dir. Rot. | Engine % |     | Filler Block | Adapter Assy. | Stud Kit | RIGHT Side P.T.O. Model | Inter. Torq. | Dir. Rot. | Engine % |     | Filler Block | Adapter Assy. | Stud Kit |
|--------------|--------------|-----------|----------|-----|--------------|---------------|----------|-------------------------|--------------|-----------|----------|-----|--------------|---------------|----------|
|              |              |           | Hi       | Rev |              |               |          |                         |              |           | Hi       | Rev |              |               |          |

### ONE SPEED - TWO GEAR - MECHANICAL SHIFT

|                  |     |     |     |  |         |           |                 |     |     |     |  |         |           |
|------------------|-----|-----|-----|--|---------|-----------|-----------------|-----|-----|-----|--|---------|-----------|
| 221ZCAKP-*6      | 250 | Opp | 114 |  | 328564X | Furnished | 221ZCAKP-*4     | 250 | Eng | 114 |  | 328564X | Furnished |
| 221ZEA KP-*6     | 250 | Opp | 127 |  | 328564X | Furnished | 221ZEA KP-*4    | 250 | Eng | 126 |  | 328564X | Furnished |
| 823XBAKP-*6 (1)  | 500 | Opp | 104 |  |         | Furnished | 823XBAKP-*4 (1) | 500 | Eng | 104 |  |         | Furnished |
| 823XDAKP-*6 (2)  | 500 | Opp | 123 |  |         | Furnished | 880XBAKP-*4 (6) | 500 | Eng | 104 |  |         | Furnished |
| 823XGAKP-*6 (3)  | 500 | Opp | 134 |  |         | Furnished |                 |     |     |     |  |         |           |
| 823XJAKP-*6 (4)  | 500 | Opp | 157 |  |         | Furnished |                 |     |     |     |  |         |           |
| 823XMAKP-*6 (5)  | 500 | Opp | 185 |  |         | Furnished |                 |     |     |     |  |         |           |
| 880XBAKP-*6 (6)  | 500 | Opp | 104 |  |         | Furnished |                 |     |     |     |  |         |           |
| 880XDAKP-*6 (7)  | 500 | Opp | 123 |  |         | Furnished |                 |     |     |     |  |         |           |
| 880XGAKP-*6 (8)  | 500 | Opp | 134 |  |         | Furnished |                 |     |     |     |  |         |           |
| 880XJAKP-*6 (9)  | 500 | Opp | 157 |  |         | Furnished |                 |     |     |     |  |         |           |
| 880XMAKP-*6 (10) | 500 | Opp | 185 |  |         | Furnished |                 |     |     |     |  |         |           |

### ONE SPEED - SINGLE GEAR - POWERSHIFT (HYDRAULIC)

|             |     |     |     |  |  |           |  |  |  |  |  |  |  |
|-------------|-----|-----|-----|--|--|-----------|--|--|--|--|--|--|--|
| 800XMAKP-*4 | 250 | Eng | 185 |  |  | Furnished |  |  |  |  |  |  |  |
|-------------|-----|-----|-----|--|--|-----------|--|--|--|--|--|--|--|

### ONE SPEED - TWO GEAR - POWERSHIFT (HYDRAULIC)

|             |     |     |     |  |         |           |             |     |     |     |  |         |           |
|-------------|-----|-----|-----|--|---------|-----------|-------------|-----|-----|-----|--|---------|-----------|
| 270XAAKP-*6 | 250 | Opp | 80  |  | 328481X | Furnished | 270XAAKP-*4 | 300 | Eng | 80  |  | 328481X | Furnished |
| 270XDAKP-*6 | 250 | Opp | 121 |  | 328481X | Furnished | 270XDAKP-*4 | 300 | Eng | 121 |  | 328481X | Furnished |
| 852XBAKP-*6 | 500 | Opp | 104 |  |         | Furnished | 852XBAKP-*4 | 500 | Eng | 104 |  |         | Furnished |
| 852XGAKP-*6 | 500 | Opp | 134 |  |         | Furnished |             |     |     |     |  |         |           |
| 852XJAKP-*6 | 500 | Opp | 157 |  |         | Furnished |             |     |     |     |  |         |           |

### ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

|                  |     |     |     |  |  |           |                 |     |     |     |  |  |           |
|------------------|-----|-----|-----|--|--|-----------|-----------------|-----|-----|-----|--|--|-----------|
| 885XBAKP-*6 (6)  | 500 | Opp | 104 |  |  | Furnished | 885XBAKP-*4 (6) | 500 | Eng | 104 |  |  | Furnished |
| 885XGAKP-*6 (8)  | 500 | Opp | 134 |  |  | Furnished |                 |     |     |     |  |  |           |
| 885XJAKP-*6 (9)  | 500 | Opp | 157 |  |  | Furnished |                 |     |     |     |  |  |           |
| 885XMAKP-*6 (10) | 500 | Opp | 185 |  |  | Furnished |                 |     |     |     |  |  |           |

**NOTE:** R.H. opening is optional. Input gear interference prohibits use of any P.T.O. other than those shown.

**NOTE:** Do not use Adapter Gear Assemblies on any Allison Automatic Transmissions.

**NOTE:** Use a 3/8" NPT to 1/4" NPT pipe reducer to adapt to the pressure lube hose supplied with the unit.

**NOTE:** The "CLT or CLBT" prefix refers to an engine driven section mounted to the front of the transmission.

**NOTE:** The 8000 and 9000 Series transmission models use all the same P.T.O. models.

**NOTE:** Only the pressure lube line 328075X (line to the idler pin) is included with the P.T.O. For 270/271 Series due to varying valve installation locations on the vehicle installer must supply the following hoses or order the following separately. One 329087X (line from tranny to valve) and two 328075X (valve dump back to PTO housing & valve to P.T.O. clutch).

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- (5) Input Gear Part No. 5-P-284
- (6) Input Gear Part No. 5-P-1106

- (7) Input Gear Part No. 5-P-1107
- (8) Input Gear Part No. 5-P-1108
- (9) Input Gear Part No. 5-P-1109
- (10) Input Gear Part No. 5-P-1110

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