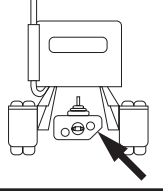

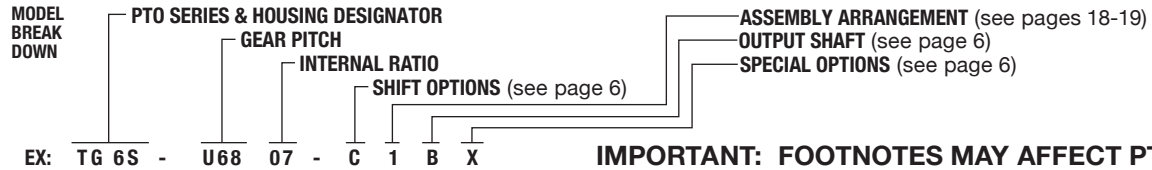


CAUTION: MAXIMUM OUTPUT SHAFT SPEED NOT TO EXCEED 2,500 RPM.

| FULLER TRANSMISSION   |   |                                    |                    |            |          |     |         | RIGHT SIDE ONLY<br>(LEFT SIDE TURN PAGE)               |                        |                      |  |            |
|---|---|------------------------------------|--------------------|------------|----------|-----|---------|--|------------------------|----------------------|---|------------|
|  | <b>RTO-10910B-DM2, RTO-12910B-DM2,<br/>RTO-14910B-DM2, RTO-16910B-DM2,<br/>RTOM-16910B-DM3, ULTRA SHIFT AUTOMATED<br/>MANUAL, FO-**E308LL-VCS</b><br>Footnote (4, 7, 8) |                                    |                    |            |          |     |         | SAE 6-BOLT OPENING                                     |                        |                      |   |            |
|   |   |                                    |                    |            |          |     |         | PTO DRIVE GEAR DATA:                                   |                        |                      |   |            |
|   |   |                                    |                    |            |          |     |         | 45T 6P 20° PA Spur<br>LOCATION: Front<br>PLV: 1854 FPM |                        |                      | PLMF: 1.085<br>RPM: 944   |            |
| 6-BOLT TYPE   | PTO MODEL NUMBER  | FOOT NOTES                         | SHAFT ROTATION     | ENGINE%    |          |     | ADAPTER | SPACER   | STUD KIT               | SHIFT TYPE           | INTERMITTENT RATING @ 1,000 RPM OF PTO  |            |
|   |   |                                    |                    | HI         | LO       | REV |         |  |                        |                      | TORQUE  | HP         |
| SINGLE GEAR   |   |                                    |                    |            |          |     |         |  |                        |                      |   |            |
| SINGLE SPEED MULTI GEAR   | TG6S-U6804-C1BX   | 1, 2, 5                            | Opp                | 64         |          |     |         |  | Included               | Cable                | 285   | 54         |
|   | TG6S-U6805-C1BX   | 1, 2, 5                            | Opp                | 83         |          |     |         |  | Included               | Cable                | 270   | 51         |
|   | TG6S-U6806-C1BX   | 1, 2, 5                            | Opp                | 108        |          |     |         |  | Included               | Cable                | 245   | 47         |
|   | TG6S-U6807-C1BX   | 1, 2, 5                            | Opp                | 128        |          |     |         |  | Included               | Cable                | 230   | 44         |
|   | TG6S-U6808-C1BX   | 1, 2, 5                            | Opp                | 156        |          |     |         |  | Included               | Cable                | 230   | 44         |
|   | TG6S-U6809-C1BX   | 1, 2, 5                            | Opp                | 163        |          |     |         |  | Included               | Cable                | 205   | 39         |
|   | TG6S-U6812-C1BH   | 1, 2, 5                            | Opp                | 200        |          |     |         |  | Included               | Cable                | 210   | 40         |
|   | TG6S-U6813-C1BH   | 1, 2, 5                            | Opp                | 228        |          |     |         |  | Included               | Cable                | 207   | 39         |
|   | TG6S-U6815-C1BH   | 1, 2, 5                            | Opp                | 257        |          |     |         |  | Included               | Cable                | 184   | 35         |
|   | TG6S-U6818-C1BH   | 1, 2, 5                            | Opp                | 304        |          |     |         |  | Included               | Cable                | 155   | 29         |
| SH SERIES   | SH6S-U6005-E1BX   | 1                                  | Opp                | 83         |          |     |         |  | Included               | Elec/Air             | 400   | 76         |
|   | SH6S-U6807-E1BX   | 1, 5                               | Opp                | 123        |          |     |         |  | Included               | Elec/Air             | 383   | 73         |
|   | SH6S-U6809-E1BX   | 1, 5                               | Opp                | 153        |          |     |         |  | Included               | Elec/Air             | 308   | 59         |
|   | SH6S-U6812-E1BX   | 1, 5                               | Opp                | 203        |          |     |         |  | Included               | Elec/Air             | 231   | 44         |
| CLUTCH SHIFT  | CS6S-U6003-E1BX   | 1                                  | Opp                | 58         |          |     |         |  | Included               | Power                | 300   | 57         |
|   | CS6S-U6004-E1BX   | 1                                  | Opp                | 76         |          |     |         |  | Included               | Power                | 300   | 57         |
|   | CS6S-U6005-E1BX   | 1                                  | Opp                | 83         |          |     |         |  | Included               | Power                | 300   | 57         |
|   | CS6S-U6806-E1BX   | 1, 5                               | Opp                | 98         |          |     |         |  | Included               | Power                | 300   | 57         |
|   | CS6S-U6807-E1BX   | 1, 5                               | Opp                | 123        |          |     |         |  | Included               | Power                | 300   | 57         |
|   | CS6S-U6809-E1BX   | 1, 5                               | Opp                | 153        |          |     |         |  | Included               | Power                | 275   | 52         |
|   | CS6S-U6812-E1BX   | 1, 5                               | Opp                | 203        |          |     |         |  | Included               | Power                | 231   | 44         |
|   | 1 FWD.<br>1 REV.  | RL6D-U6803-L3BX<br>RL6D-U6805-L3BX | 3, 6<br>6          | Opp<br>Opp | 47<br>96 |     |         | 47<br>96   | 23M60200S<br>23M60200S | 20MK6602<br>20MK6602 | Lever<br>Lever  | 200<br>200 |
| ADAPTER TO CHANGE ROTATION  |   | 4                                  | See Footnote below |            |          |     |         | REFER TO ADAPTER GEAR ASSEMBLIES IN INDEX              |                        |                      |   |            |

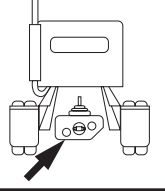

| 8-BOLT TYPE             | PTO MODEL NUMBER | FOOT NOTES | SHAFT ROTATION | ENGINE% |    |     | ADAPTER | SPACER | STUD KIT | SHIFT TYPE | INTERMITTENT RATING @ 1,000 RPM OF PTO |    |
|-------------------------|------------------|------------|----------------|---------|----|-----|---------|--------|----------|------------|--|----|
|                         |                  |            |                | HI      | LO | REV |         |        |          |            | TORQUE                                 | HP |
| SINGLE SPEED MULTI GEAR |                  |            |                |         |    |     |         |        |          |            |  |    |
| 1 FWD.<br>1 REV.        |                  |            |                |         |    |     |         |        |          |            |  |    |



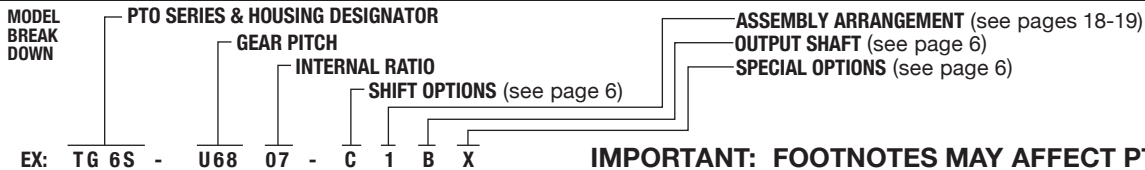
**IMPORTANT: FOOTNOTES MAY AFFECT PTO SELECTION**

- FOOTNOTES:**
- 1 Direct mount pumps will not clear bulge on right side unless adapter is used. There is pump clearance for direct mouting the PKS-Series pump to a TG6S-U68\*\*-C1SX for pumps up to the PKS1-15-02BPBB. The 17GPM requires a S68 gear (03T94243), 23M60200S and 20MK6603.
  - 2 TG Series Input Gear: #03T34284 — Refer to kit program on pages 10 & 11.
  - 3 RL Series with combined reduction gear box. ("03" Ratio)
  - 4 For vehicles with spring hanger interference use the 40TU6855-1 adapter. Not applicable for direct mount pumps. Refer to adapter gear assemblies in the table of contents for additional space requirements. Typical adapter used to clear frame interference. 40TU6845-1 & 40TU6830-1 are also available options. Chassis with clutch slave cylinder located at bottom of transmission, the 40TU6830-1 is recommended.
  - 5 Optional: U68 Input Gear can be replaced by S68 Input Gear to obtain output speed 92% of speed shown. Add spacer 23M60200S and stud kit 20MK6603 (20TK4433 for CS or SH).
  - 6 Do not use for continuous duty applications.
  - 7 PTO torque rating shown is maximum calculated PTO rating which will not exceed the 500 lb.ft. rating set by Eaton for their transmissions with roller bearings. Refer to Eaton bulletin TMIB-0127. Maximum PTO torque must not exceed this rating or the PTO rating shown on page 22 of the General Information section.
  - 8 PTO must be wired through the transmission controller as described by Eaton in their application manual. Engine throttle must be advanced to 1,000 RPM for PTO Operation. PTO will not activate below this speed. Transmission is equipped with an Inertia Brake which must be installed on the 8-bolt opening if using this opening.

CAUTION: MAXIMUM OUTPUT SHAFT SPEED NOT TO EXCEED 2,500 RPM.

| FULLER TRANSMISSION  |                  |            |   |         |    |     |         | BOTTOM OPENING ONLY<br>(RIGHT SIDE TURN PAGE) |           |            |  |    |
|--|------------------|------------|---|---------|----|-----|---------|---|-----------|------------|---|----|
|  <b>RTO-10910B-DM2, RTO-12910B-DM2,<br/>RTO-14910B-DM2, RTO-16910B-DM2,<br/>RTOM-16910B-DM3, ULTRA SHIFT AUTOMATED<br/>MANUAL, FO-**E308LL-VCS</b><br>Footnote (3, 7, 8, 9) |                  |            |   |         |    |     |         | SAE 8-BOLT OPENING                            |           |            |   |    |
|  |                  |            |   |         |    |     |         | PTO DRIVE GEAR DATA:                          |           |            |   |    |
|  |                  |            |   |         |    |     |         | 47T 6P 20° PA Spur                            | PLMF: .81 |            |   |    |
|  |                  |            |   |         |    |     |         | LOCATION: Front                               | RPM: 944  |            |   |    |
|  |                  |            |   |         |    |     |         | PLV: 1936 FPM                                 |           |            |   |    |
| 6-BOLT TYPE  | PTO MODEL NUMBER | FOOT NOTES | SHAFT ROTATION                              | ENGINE% |    |     | ADAPTER | SPACER  | STUD KIT  | SHIFT TYPE | INTERMITTENT RATING @ 1,000 RPM OF PTO  |    |
|  |                  |            |   | HI      | LO | REV |         |   |           |            | TORQUE  | HP |
| SINGLE GEAR  |                  |            |   |         |    |     |         |   |           |            |   |    |
| SINGLE SPEED MULTI GEAR  | TG8S-U6804-C1BX  | 1, 3, 5    | Opp   | 67      |    |     |         |   | Included  | Cable      | 285   | 54 |
|  | TG8S-U6805-C1BX  | 1, 3, 5    | Opp   | 87      |    |     |         |   | Included  | Cable      | 270   | 51 |
|  | TG8S-U6806-C1BX  | 1, 3, 5    | Opp   | 113     |    |     |         |   | Included  | Cable      | 245   | 47 |
|  | TG8S-U6807-C1BX  | 1, 3, 5    | Opp   | 134     |    |     |         |   | Included  | Cable      | 230   | 44 |
|  | TG8S-U6808-C1BX  | 1, 3, 5    | Opp   | 164     |    |     |         |   | Included  | Cable      | 230   | 44 |
|  | TG8S-U6809-C1BX  | 1, 3, 5    | Opp   | 171     |    |     |         |   | Included  | Cable      | 205   | 39 |
|  | TG8S-U6812-C1BH  | 1, 3, 5    | Opp   | 210     |    |     |         |   | Included  | Cable      | 210   | 40 |
|  | TG8S-U6813-C1BH  | 1, 3, 5    | Opp   | 239     |    |     |         |   | Included  | Cable      | 199   | 38 |
|  | TG8S-U6815-C1BH  | 1, 3, 5    | Opp   | 269     |    |     |         |   | Included  | Cable      | 176   | 34 |
|  | TG8S-U6818-C1BH  | 1, 3, 5    | Opp   | 318     |    |     |         |   | Included  | Cable      | 148   | 28 |
| SH SERIES  | SH8S-U6005-E1BX  | 3          | Opp   | 87      |    |     |         |   | Included  | Elec/Air   | 400   | 76 |
|  | SH8S-U6807-E1BX  | 3, 5       | Opp   | 128     |    |     |         |   | Included  | Elec/Air   | 366   | 70 |
|  | SH8S-U6809-E1BX  | 3, 5       | Opp   | 160     |    |     |         |   | Included  | Elec/Air   | 295   | 56 |
|  | SH8S-U6812-E1BX  | 3, 5       | Opp   | 212     |    |     |         |   | Included  | Elec/Air   | 221   | 42 |
|  | SH8S-U6813-E1BX  | 3, 5       | Opp   | 246     |    |     |         |   | Included  | Elec/Air   | 200   | 38 |
| CLUTCH SHIFT   | CS8S-U6003-E1BX  | 3          | Opp   | 61      |    |     |         |   | Included  | Power      | 300   | 57 |
|  | CS8S-U6004-E1BX  | 3          | Opp   | 80      |    |     |         |   | Included  | Power      | 300   | 57 |
|  | CS8S-U6005-E1BX  | 3          | Opp   | 87      |    |     |         |   | Included  | Power      | 300   | 57 |
|  | CS8S-U6806-E1BX  | 3          | Opp   | 103     |    |     |         |   | Included  | Power      | 300   | 57 |
|  | CS8S-U6807-E1BX  | 3, 5       | Opp   | 128     |    |     |         |   | Included  | Power      | 300   | 57 |
|  | CS8S-U6809-E1BX  | 3, 5       | Opp   | 160     |    |     |         |   | Included  | Power      | 275   | 52 |
|  | CS8S-U6812-E1BX  | 3, 5       | Opp   | 212     |    |     |         |   | Included  | Power      | 221   | 42 |
|  | CS8S-U6814-E1BX  | 3          | Opp   | 265     |    |     |         |   | Included  | Power      | 178   | 34 |
| 1 FWD.<br>1 REV.   | RL8S-U6803-L3BX  | 2, 6       | Opp   | 49      |    | 49  |         | 23M80032                                      | Included  | Lever      | 200   | 38 |
|  | RL8S-U6805-L3BX  | 6          | Opp   | 101     |    | 101 |         | 23M80032                                      | Included  | Lever      | 200   | 38 |
| ADAPTER TO CHANGE ROTATION   |                  | 4          | 40TU6886-1 + 23M80500 + 23M80062 + 20MK8817 |         |    |     |         | REFER TO ADAPTER GEAR ASSEMBLIES IN INDEX     |           |            |   |    |

| 8-BOLT TYPE             | PTO MODEL NUMBER | FOOT NOTES | SHAFT ROTATION | ENGINE% |    |     | ADAPTER | SPACER               | STUD KIT | SHIFT TYPE | INTERMITTENT RATING @ 1,000 RPM OF PTO |    |
|-------------------------|------------------|------------|----------------|---------|----|-----|---------|----------------------|----------|------------|--|----|
|                         |                  |            |                | HI      | LO | REV |         |                      |          |            | TORQUE                                 | HP |
| SINGLE SPEED MULTI GEAR | 828S-U6805-L1CX  | 3          | Opp            | 62      |    |     |         |                      | Included | Lever      | 500                                    | 95 |
|                         | 828S-U6808-L1CX  | 3          | Opp            | 98      |    |     |         |                      | Included | Lever      | 450                                    | 85 |
|                         | 828S-U6809-L1CX  | 3          | Opp            | 121     |    |     |         |                      | Included | Lever      | 388                                    | 74 |
|                         | 828S-U6810-L1CX  | 3          | Opp            | 130     |    |     |         |                      | Included | Lever      | 362                                    | 69 |
|                         | 828S-U6812-L1CX  | 3          | Opp            | 150     |    |     |         |                      | Included | Lever      | 313                                    | 60 |
|                         | 828S-U6813-L1CX  | 3          | Opp            | 174     |    |     |         |                      | Included | Lever      | 271                                    | 52 |
|                         | 828S-U6815-L1CX  | 3          | Opp            | 190     |    |     |         | 23M80062+23M80062    | Included | Lever      | 248                                    | 47 |
|                         | 828S-U6819-L1CX  | 3          | Opp            | 234     |    |     |         | 23M80248<br>20MK8817 | Included | Lever      | 202                                    | 38 |
| 1 FWD.<br>1 REV.        |                  |            |                |         |    |     |         |                      |          |            |  |    |



**IMPORTANT: FOOTNOTES MAY AFFECT PTO SELECTION**

**FOOTNOTES:**

- 1 TG Series Input Gear #03T34284 – refer to kit program on pages 10 &11.
- 2 RL Series with combined reduction gear box. (03 ratio)
- 3 Vehicles with setback front axles and direct mount pumps may find better clearance with a “3” assembly PTO. Also, clearance of air tanks is improved on International chassis. Transmissions with clutch assist cylinder on bottom of transmission are best with the “1” arrangement PTO.
- 4 When using the 40TU6886-1 adapter to change rotation - change TG Series, CS Series, SH Series, and RL Series to 6-bolt PTO housing (TG6S, CS6S, SH6S, and RL6D respectively.) Add 23M60200S + 20MK6603 for RL Series on PTO side of adapter.
- 5 Optional: U68 Input Gear can be replaced by S68 Input Gear to obtain output speed 92% of speed shown. Add spacer 23M80190 and stud kit 20MK8808.
- 6 Do not use for continuous duty applications.
- 7 PTO torque rating shown is maximum calculated PTO rating which will not exceed the 500 lb.ft. rating set by Eaton for their transmissions with roller bearings. Refer to Eaton bulletin TMIB-0127. Maximum PTO torque must not exceed this rating or the PTO rating shown on page 22 of the General Information section.
- 8 PTO must be wired through the transmission controller as described by Eaton in their application manual. Engine throttle must be advanced to 1,000 RPM for operation. PTO will not activate below this speed.
- 9 Eaton inertia brake is mounted to this opening. Use 40TF6855-1 adapter to move brake to right side opening.