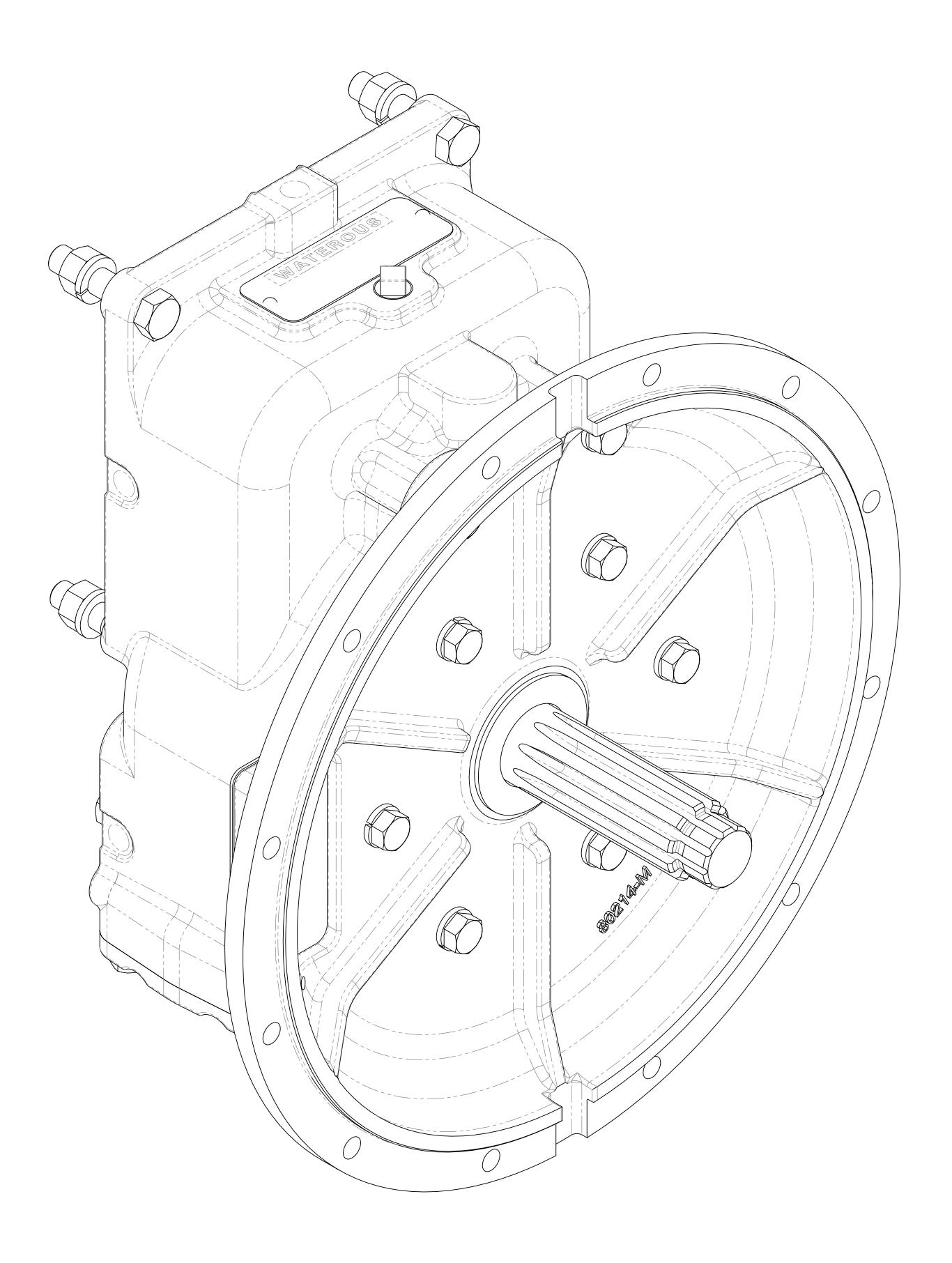
WATEROUS

Medium Duty T Transmission Assy 83742

| Pump Model | Impeller Shaft Type | Input Shaft Type | See Sheet | |
|---|---------------------|-------------------------|-----------|--|
| CP-2, CP-4, CLR, CLV, CLS | One-Piece | 1-1/2-10 SAE Spline | 2 | |
| | | 1 in15T Involute Spline | | |
| CP-3 | Separable | 1-1/2-10 SAE Spline | 3 | |
| | | 1 in15T Involute Spline | 5 | |
| Bellhousing Adapter SAE 3 | | | 4 | |
| Bellhousing Adapter SAE 4 | | | 5 | |
| Bellhousing Adapter SAE 5 | | | 6 | |
| Oil Cooler Fittings - CP-4 | | | 7 | |
| Pump Mounting Positions - Oil Level, Breather, Drain, and Vent locations | | 8-10 | | |

WaterousCompany, 125 Hardman Avenue South, South St. Paul, Minnesota 55075 USA (651) 450-5000 www.waterousco.com Note: When ordering parts, provide Pump, Transmission or PTO Serial Number.





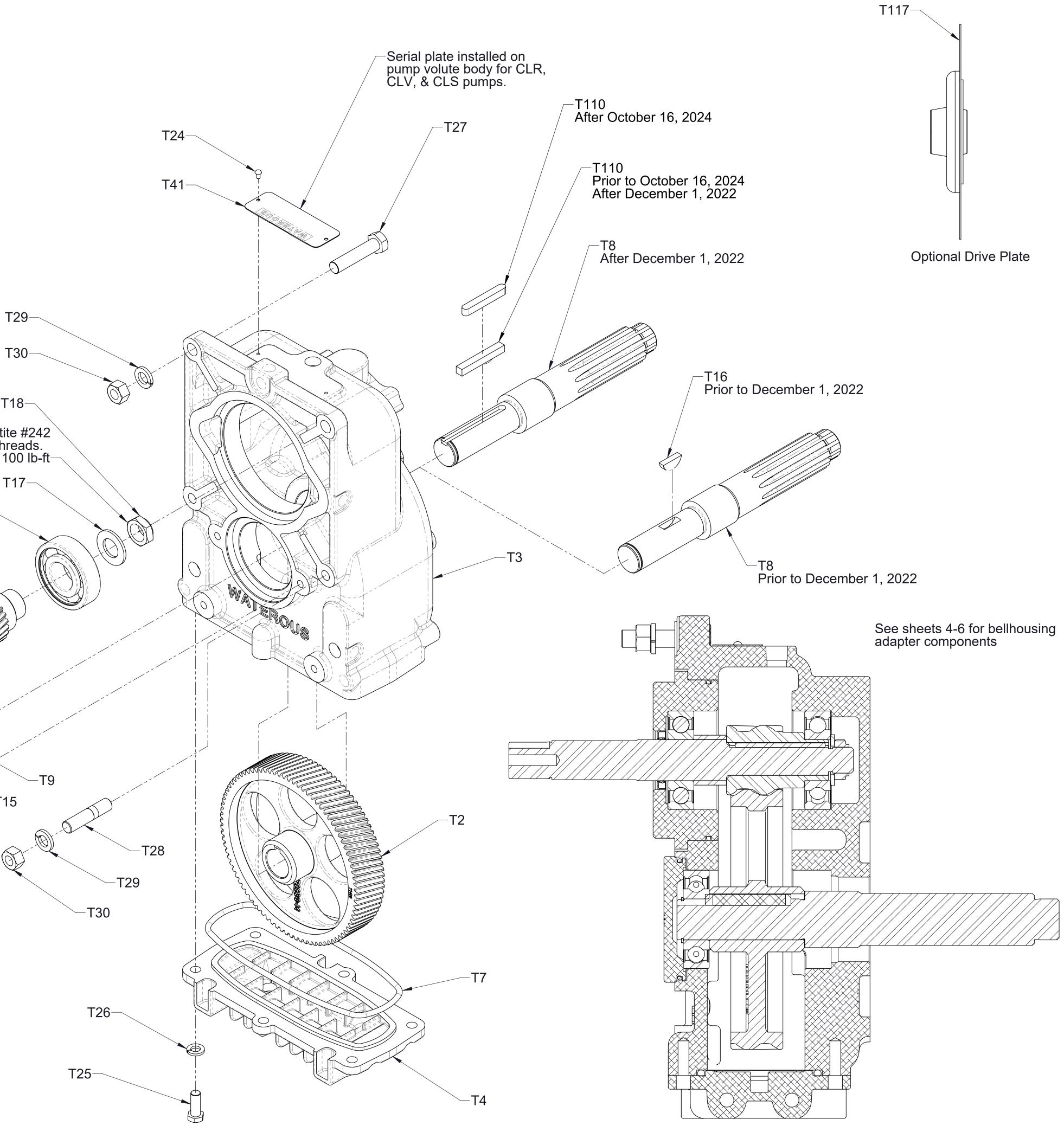
Issue Date 1/31/2020

| Ref No. | Description | |
|---------|---|--|
| T1 | Gear-Driven | |
| T2 | Gear-Drive | |
| Т3 | Case-Transmission | |
| T4 | Pan-Oil, Cooler | |
| T5 | Housing-Bearing | |
| Т6 | Cover-Bearing | |
| T7 | Gasket-Molded | |
| Т8 | Shaft-Drive | |
| Т9 | Bearing, Ball, Single Row, 30 x 72 x 19 mm | |
| T10 | Spacer-Bearing | |
| T11 | O-Ring, 4-3/8 x 4-5/8 in | |
| T12 | O-Ring, 3-1/4 x 3-1/2 in | |
| T14 | Seal-Oil, 1-3/16 x 1-11/16 in | |
| T15 | Ring-Retaining, External, 1-3/16 in Shaft Dia | |
| T16 | Key-Woodruff, 5/16 x 1 in | |
| T17 | Washer-Plain, 3/4 in | |
| T18 | Locknut-Flex Top, Thin, 3/4-16 | |
| T19 | Key-Pinion Gear | |
| T24 | Screw-Drive, #6 x 1/4 in | T29 |
| T25 | Screw-Hex Hd, 3/8-16 x 1 in | |
| T26 | Washer-Lock, 3/8 in | T30 |
| T27 | Screw-Hex Hd, 1/2-13 x 2-1/4 in | |
| T28 | Stud-Coarse, 1/2-13 x 2-1/4 in | T18 |
| T29 | Washer-Lock, 1/2 in | |
| T30 | Nut-Hex, 1/2-13 | Apply Loctite # (Blue) to threa Torque to 100 |
| T41 | Plate-Serial | Torqúe to 100 |
| T110 | Key-Square, 5/16 x 2-5/16 in | T17 |
| T117 | Plate-Drive #10 Clutch | T9 |
| T117 | Plate-Drive #11-1/2 Clutch | |
| T117 | Plate-Drive, 1-1/2-10C SAE, No. 10 | T1 |
| | | |
| | Τ1 | |
| | Т9— | |
| | | |
| | T11 | Content of the second s |
| | T5— | |
| | | |
| | T14- | |
| | | |
| T19- | | |
| | | 73. |
| | | ^{7_{3583-м} — Т15} |
| | | |
| | | -T12 |
| | | - T 6 |
| | | |

Impeller shaft shown for reference.
See impeller shaft service parts lists.

-T26

-T25

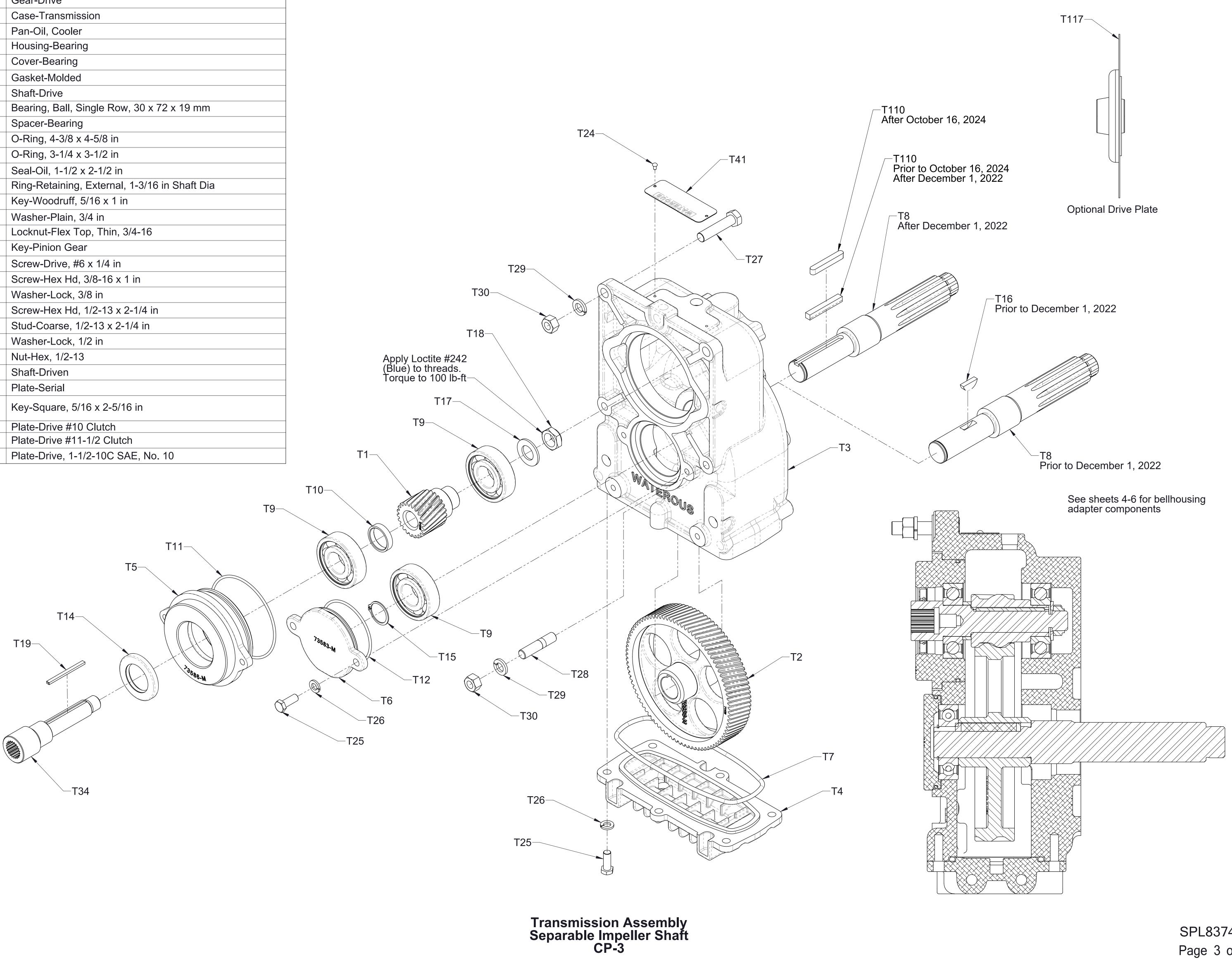


Transmission Assembly One Piece Impeller Shaft CP-2, CP-4, CLR, CLV, CLS

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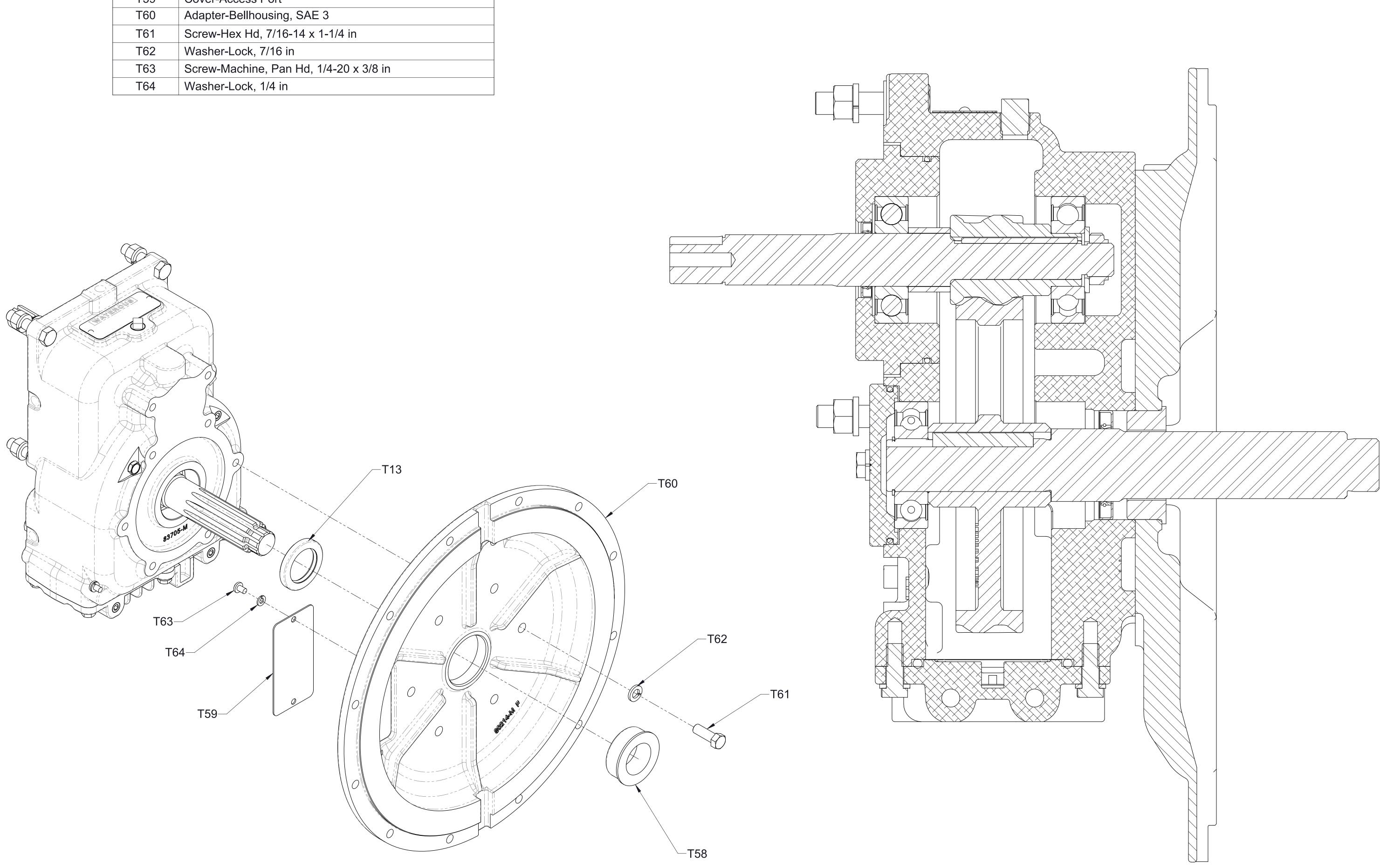
| Ref No. | Description | |
|---------|---|-------------------------------|
| T1 | Gear-Driven | |
| T2 | Gear-Drive | |
| Т3 | Case-Transmission | |
| T4 | Pan-Oil, Cooler | |
| T5 | Housing-Bearing | |
| T6 | Cover-Bearing | |
| Τ7 | Gasket-Molded | |
| Т8 | Shaft-Drive | |
| Т9 | Bearing, Ball, Single Row, 30 x 72 x 19 mm | |
| T10 | Spacer-Bearing | |
| T11 | O-Ring, 4-3/8 x 4-5/8 in | |
| T12 | O-Ring, 3-1/4 x 3-1/2 in | |
| T14 | Seal-Oil, 1-1/2 x 2-1/2 in | |
| T15 | Ring-Retaining, External, 1-3/16 in Shaft Dia | |
| T16 | Key-Woodruff, 5/16 x 1 in | |
| T17 | Washer-Plain, 3/4 in | |
| T18 | Locknut-Flex Top, Thin, 3/4-16 | |
| T19 | Key-Pinion Gear | |
| T24 | Screw-Drive, #6 x 1/4 in | |
| T25 | Screw-Hex Hd, 3/8-16 x 1 in | |
| T26 | Washer-Lock, 3/8 in | |
| T27 | Screw-Hex Hd, 1/2-13 x 2-1/4 in | |
| T28 | Stud-Coarse, 1/2-13 x 2-1/4 in | |
| T29 | Washer-Lock, 1/2 in | |
| T30 | Nut-Hex, 1/2-13 | Apply L |
| T34 | Shaft-Driven | Apply L (Blue) t Torque |
| T41 | Plate-Serial | Torque |
| T110 | Key-Square, 5/16 x 2-5/16 in | |
| T117 | Plate-Drive #10 Clutch | - |
| T117 | Plate-Drive #11-1/2 Clutch | |
| T117 | Plate-Drive, 1-1/2-10C SAE, No. 10 | T1 |





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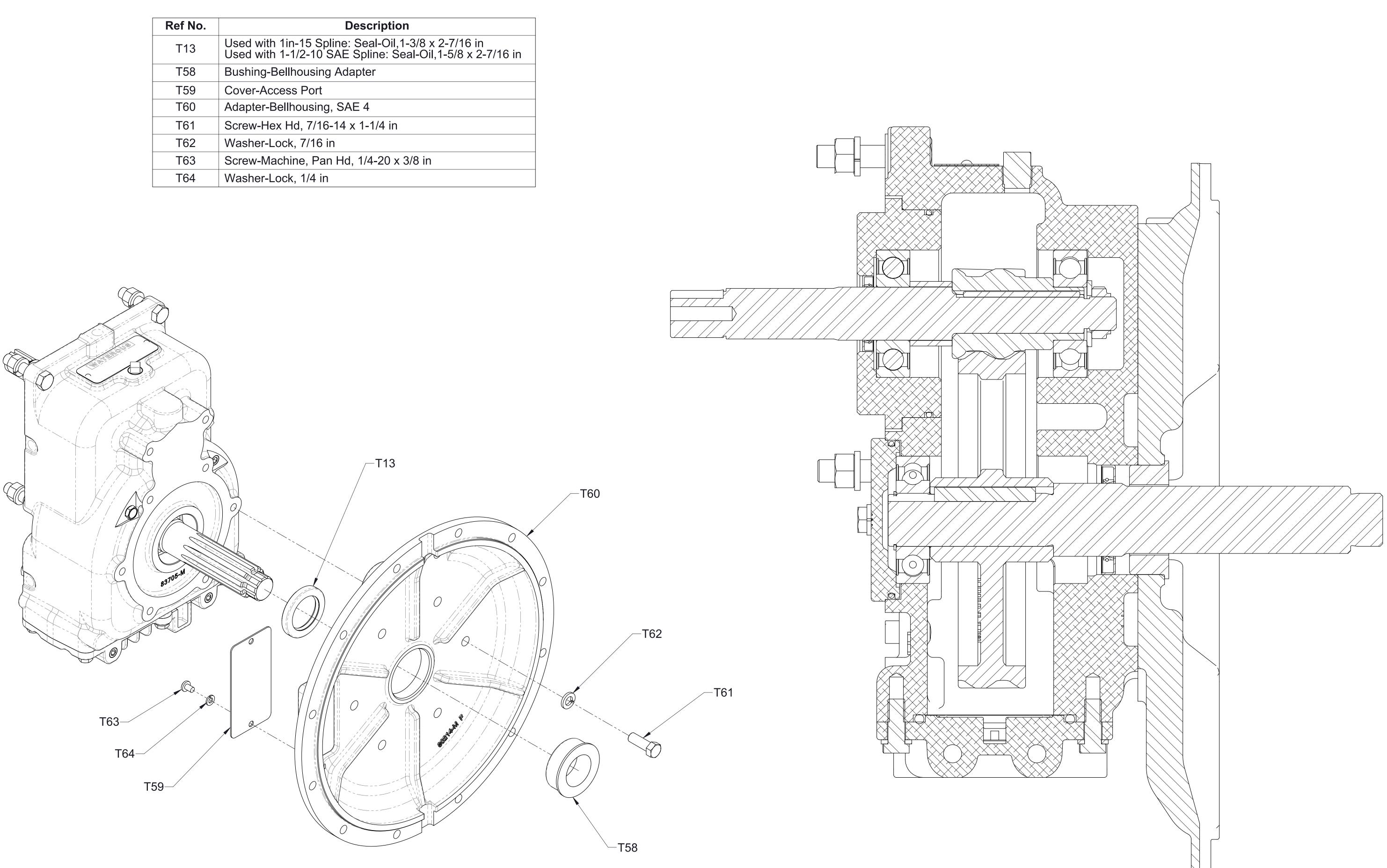
| Ref No. | Description |
|---------|--|
| T13 | Seal-Oil, 1-5/8 x 2-7/16 in |
| T58 | Bushing-Bellhousing Adapter |
| T59 | Cover-Access Port |
| T60 | Adapter-Bellhousing, SAE 3 |
| T61 | Screw-Hex Hd, 7/16-14 x 1-1/4 in |
| T62 | Washer-Lock, 7/16 in |
| T63 | Screw-Machine, Pan Hd, 1/4-20 x 3/8 in |
| T64 | Washer-Lock, 1/4 in |



Transmission Assembly SAE - 3 Bellhousing Adapter

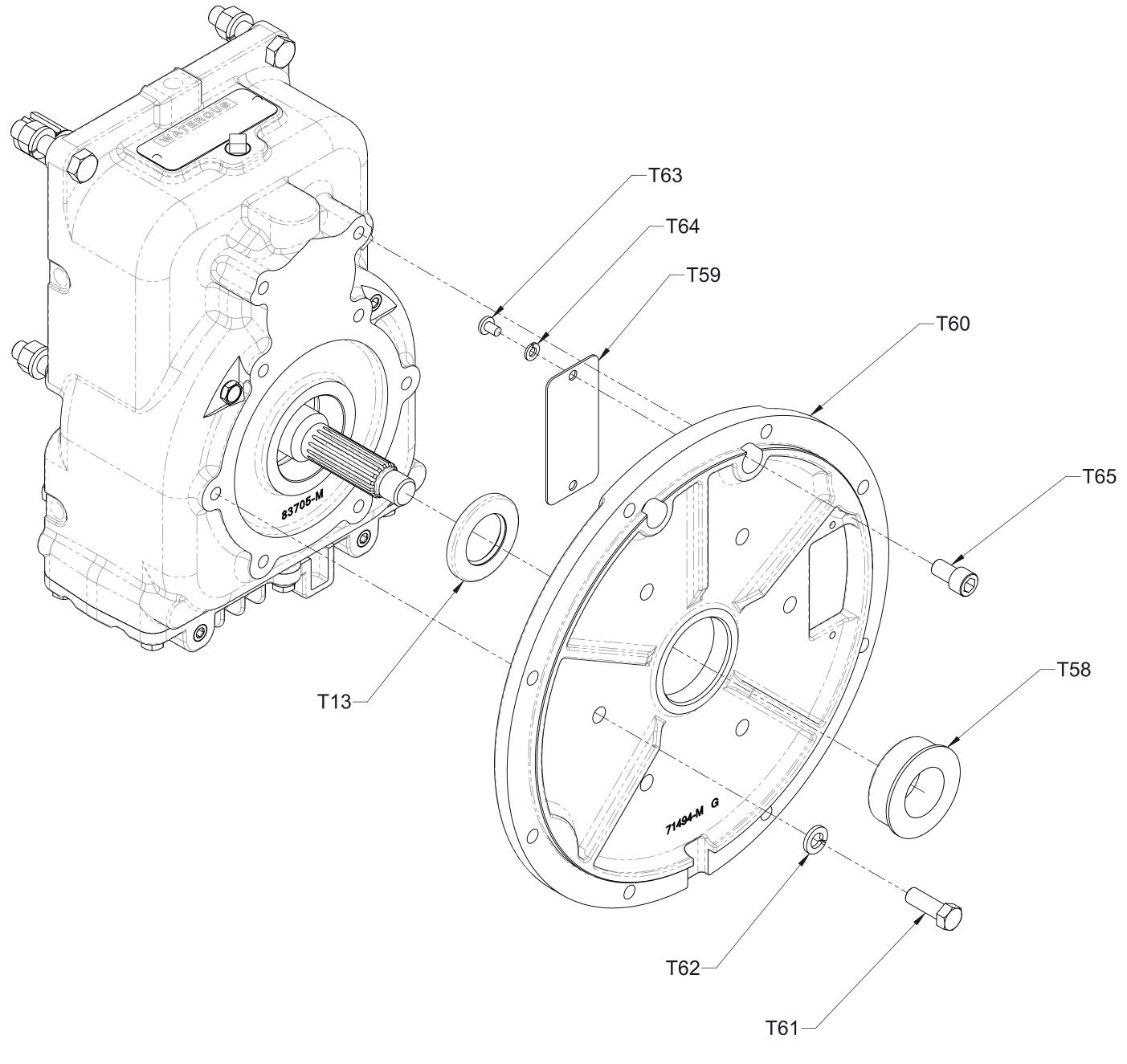
SPL83742 Page 4 of 10

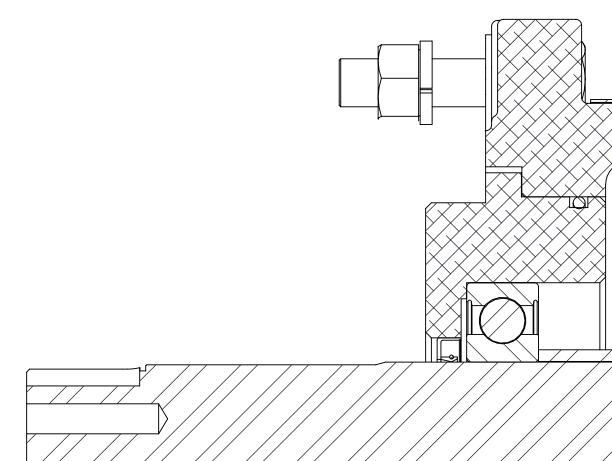
| Ref No. | Description |
|---------|---|
| T13 | Used with 1in-15 Spline: Seal-Oil,1-3/8 x 2-7 Used with 1-1/2-10 SAE Spline: Seal-Oil,1-5/ |
| T58 | Bushing-Bellhousing Adapter |
| T59 | Cover-Access Port |
| T60 | Adapter-Bellhousing, SAE 4 |
| T61 | Screw-Hex Hd, 7/16-14 x 1-1/4 in |
| T62 | Washer-Lock, 7/16 in |
| T63 | Screw-Machine, Pan Hd, 1/4-20 x 3/8 in |
| T64 | Washer-Lock, 1/4 in |

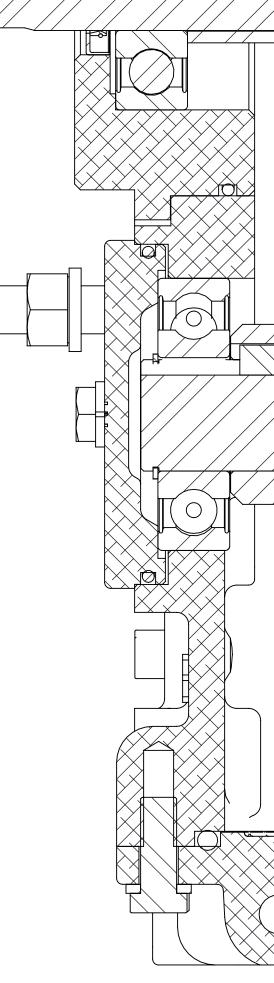


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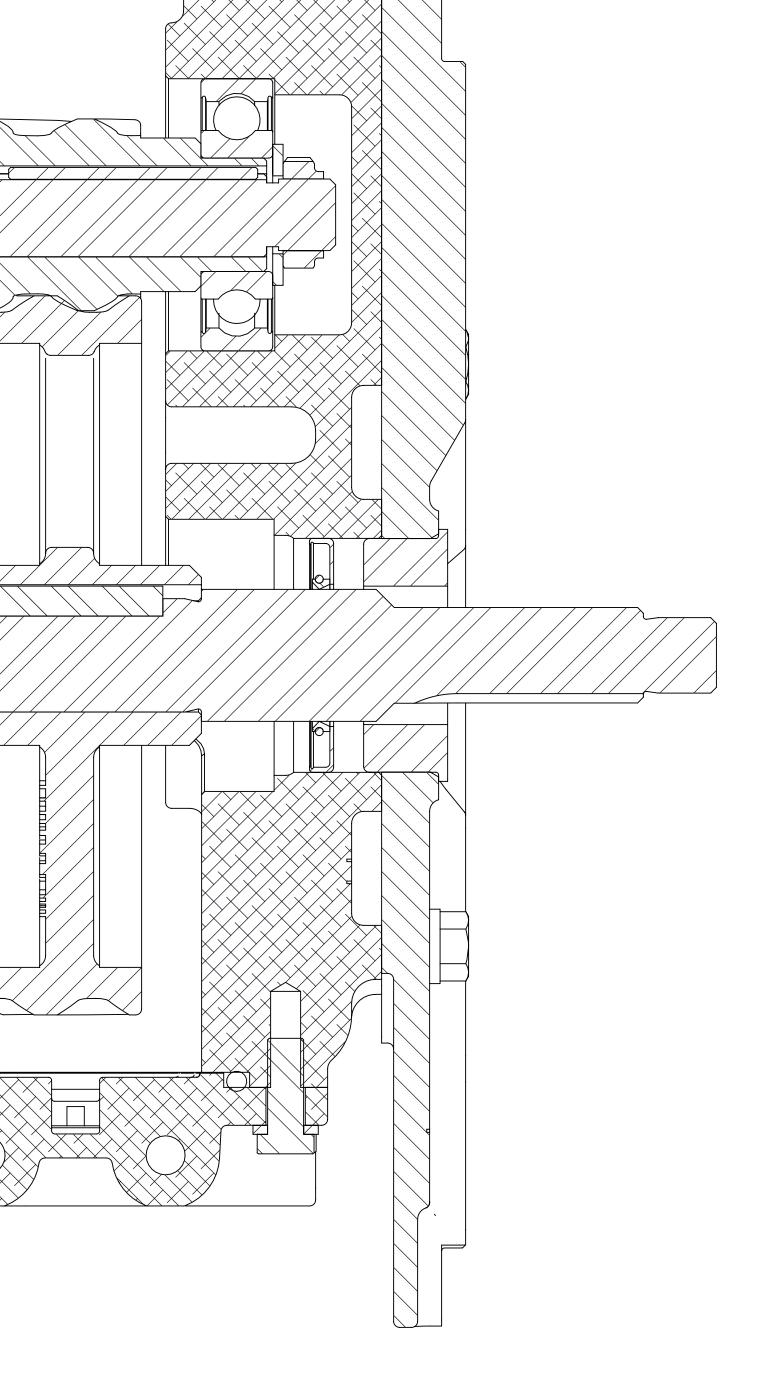
| Ref No. | Description |
|---------|---|
| T13 | Seal-Oil, 1-3/8 x 2-7/16 in |
| T58 | Bushing-Bellhousing Adapter |
| T59 | Cover-Access Port |
| T60 | Adapter-Bellhousing, SAE 5 |
| T61 | Screw-Hex Hd, 7/16-14 x 1-1/4 in |
| T62 | Washer-Lock, 7/16 in |
| T63 | Screw-Machine, Pan Hd, 1/4-20 x 3/8 in |
| T64 | Washer-Lock, 1/4 in |
| T65 | Screw-Cap, Hex Soc Hd, 7/16-14 x 3/4 in |



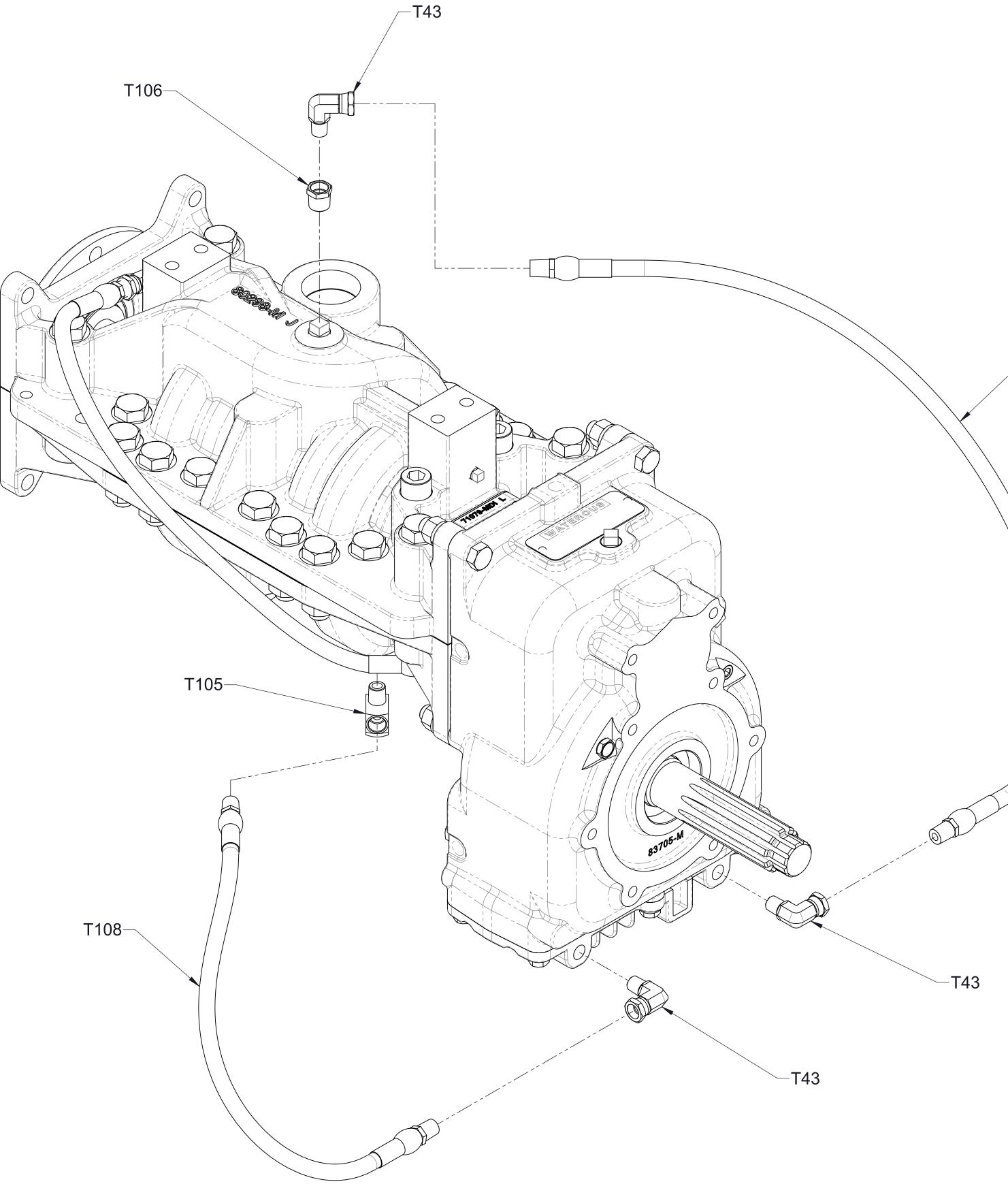




Transmission Assembly SAE - 5 Bellhousing Adapter



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∕**−**T109

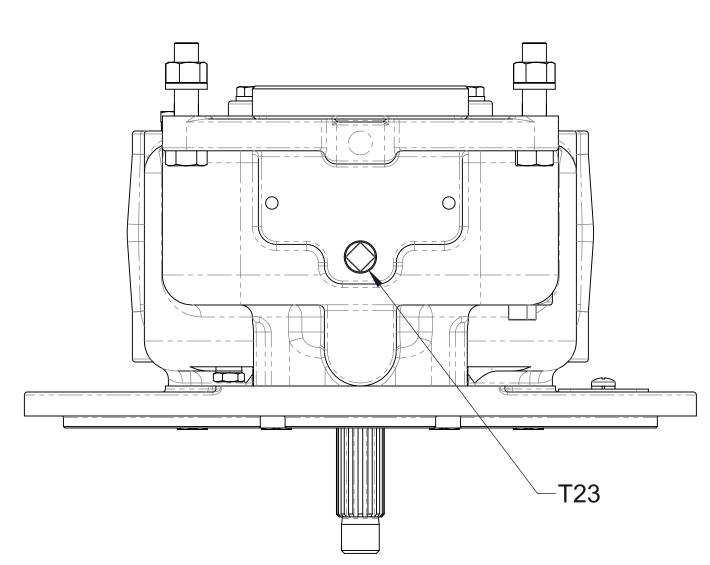
Note: 1. Route hoses so they drain through the transmission or pump. Draining is not required when pump is mounted with a horizontal or inverted discharge

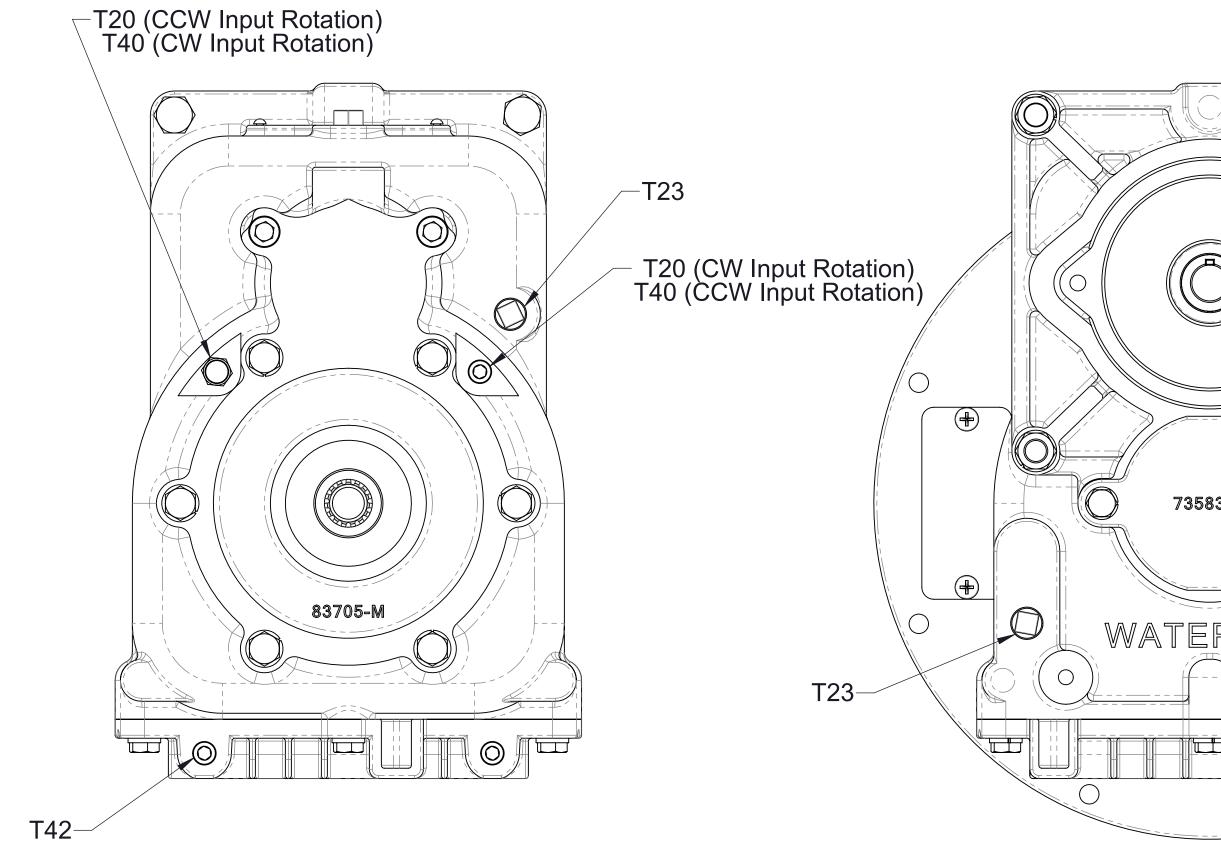
| Ref No. | Description |
|---------|---------------------------------------|
| T43 | Elbow-Adapter, Union, 90deg, 1/4 NPT |
| T105 | Tee-Street, 1/4 NPT |
| T106 | Bushing-Reducing, Pipe, 3/8 x 1/4 NPT |
| T108 | Hose, High Pressure, 1/4 NPT x 23 in |
| T109 | Hose, High Pressure, 1/4 NPT x 31 in |

Oil Cooler Lines and Fittings CP-4 Only

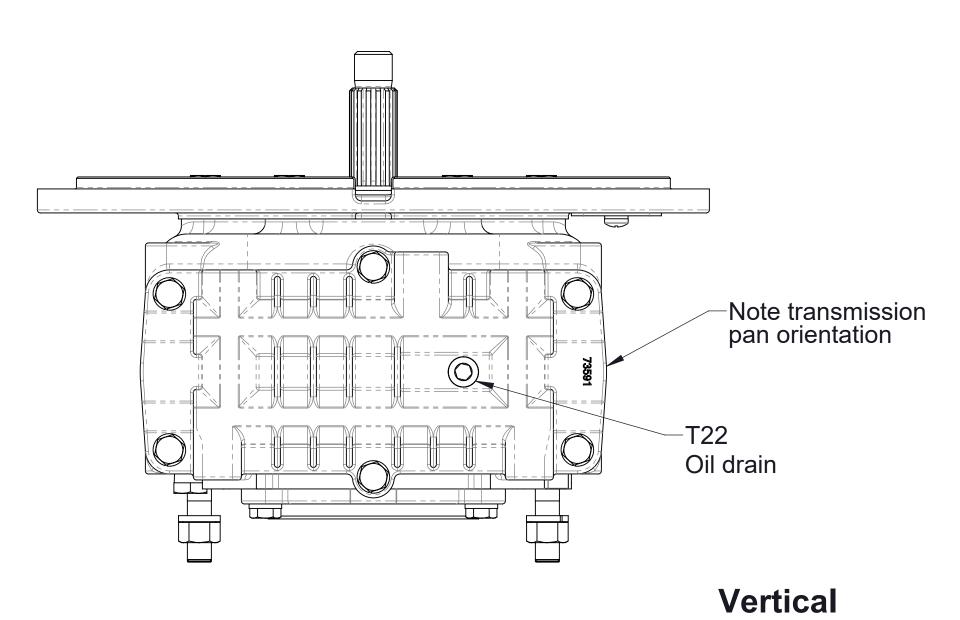
SPL83742 Page 7 of 10

| Ref No. | Description |
|---------|-------------------------------------|
| T20 | Breather, 1/4 NPT |
| T21 | Plug-Level, Oil, 3/8 |
| T22 | Plug-Drain, Magnetic, 3/8, Headless |
| T23 | Plug-Pipe, Square Hd, 3/8 NPT |
| T40 | Plug-Pipe, Headless, 1/4 NPT |
| T42 | Plug-Pipe, Headless, 1/4 NPT |



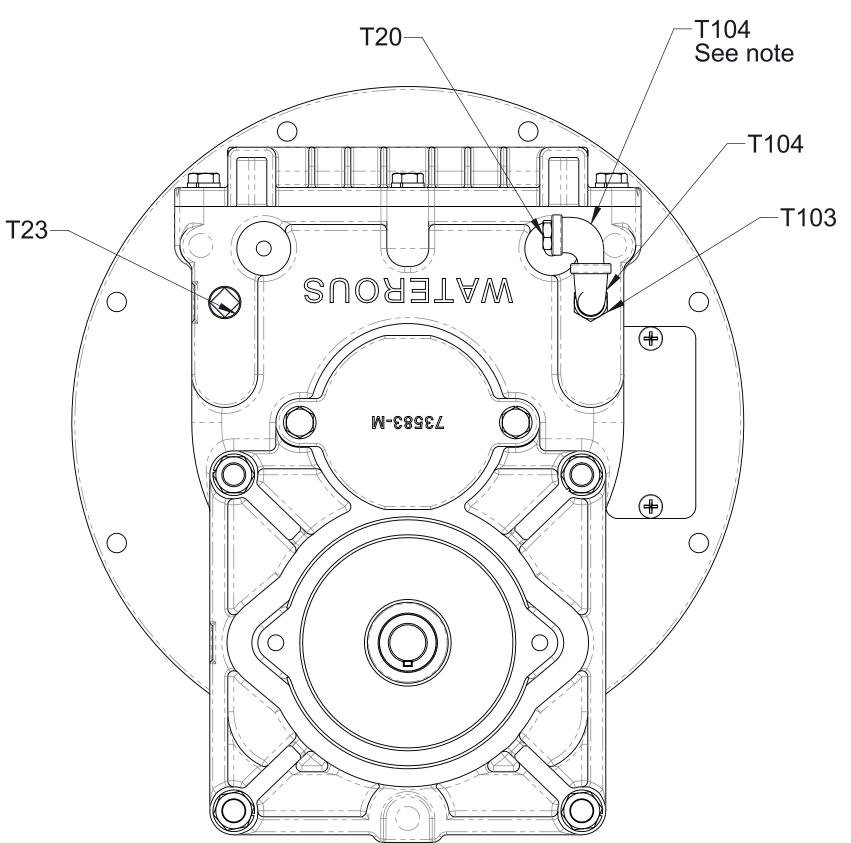


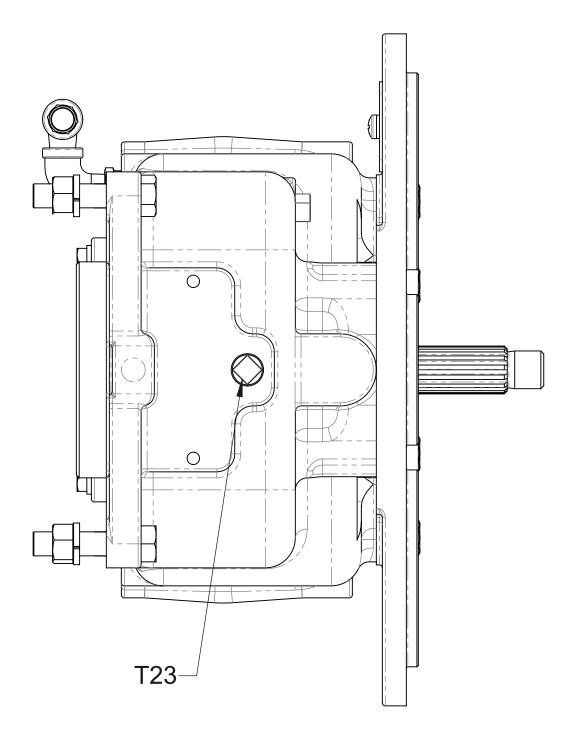
Bellhousing adapter removed for clarity

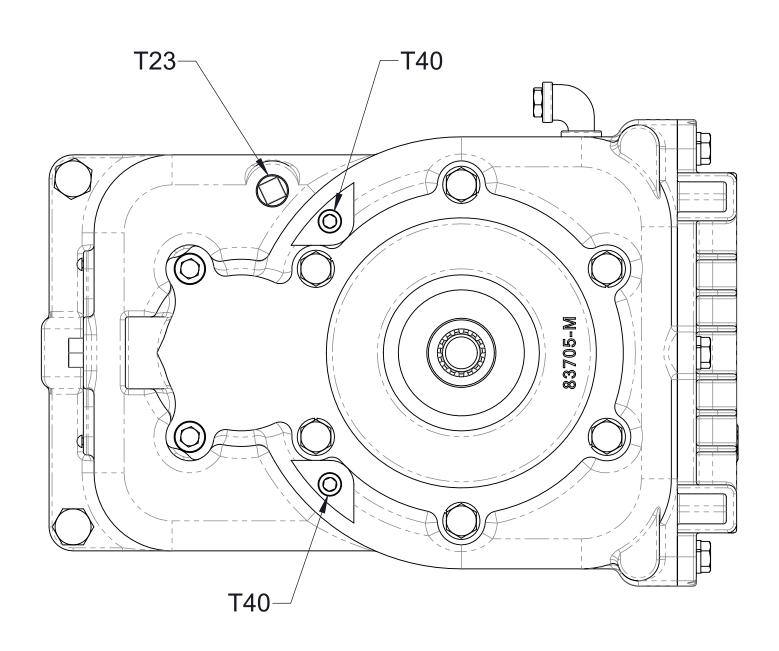


| | | T23Plug-Pipe, SquarT40Plug-Pipe, Head | 3/8 netic, 3/8, Headless re Hd, 3/8 NPT less, 1/4 NPT ng, 3/8 MNPT x 1/4 FNPT °, 1/4 NPT |
|-----------------------|-------------------------|---------------------------------------|---|
| | T23 | Note | e transmission orientation |
| TIEROUS | T40 T21 Oil level | T20 | |
| TIO | Bellhousing adapter rer | noved for clarity | |
| Broothar Drain Oillaw | A and Plug Locations | T22 Oil drain | Inverted |

Breather, Drain, Oil Level, and Plug Locations Vertical and Inverted Mounting Positions



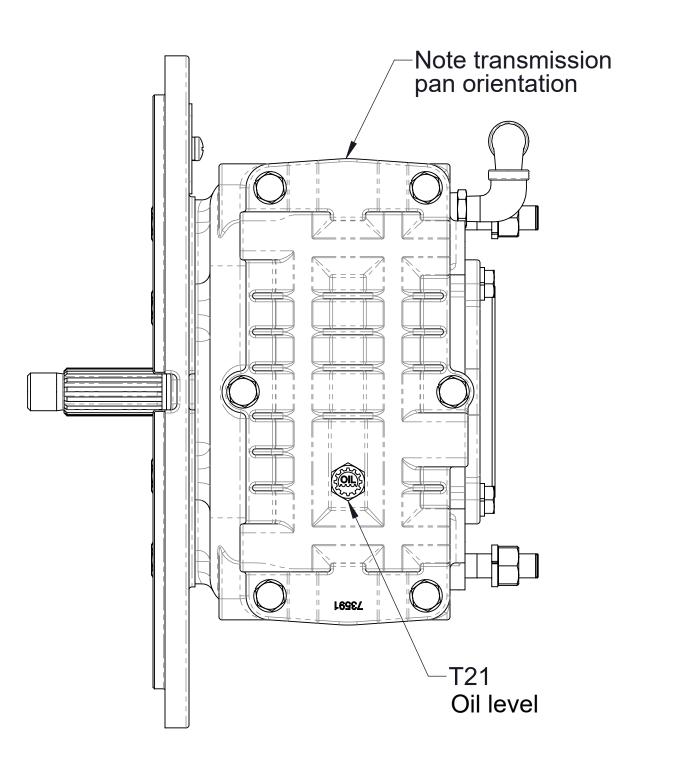


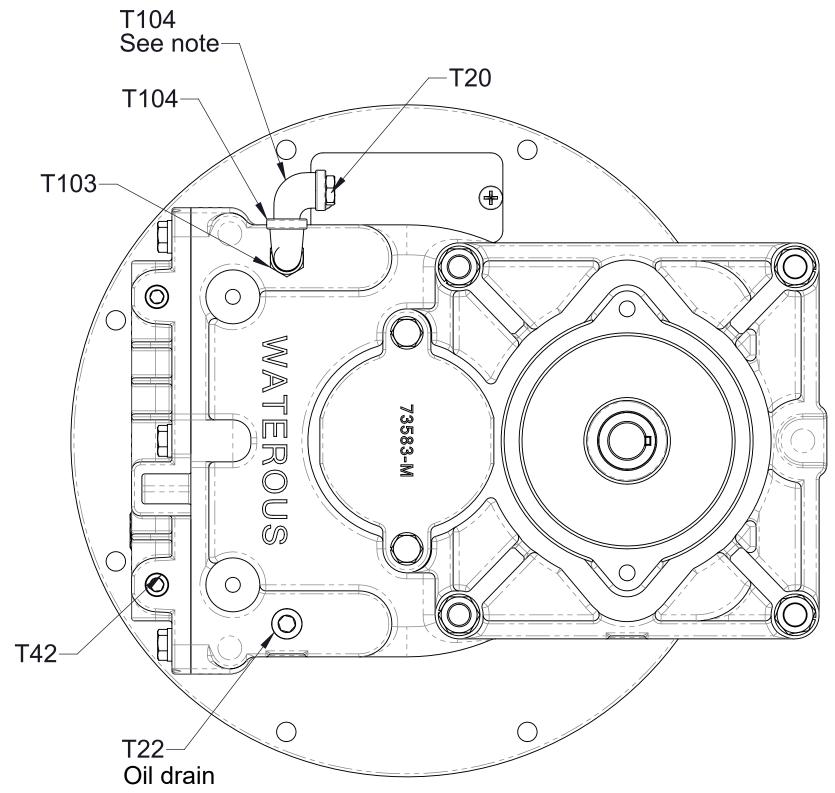


Bellhousing adapter removed for clarity

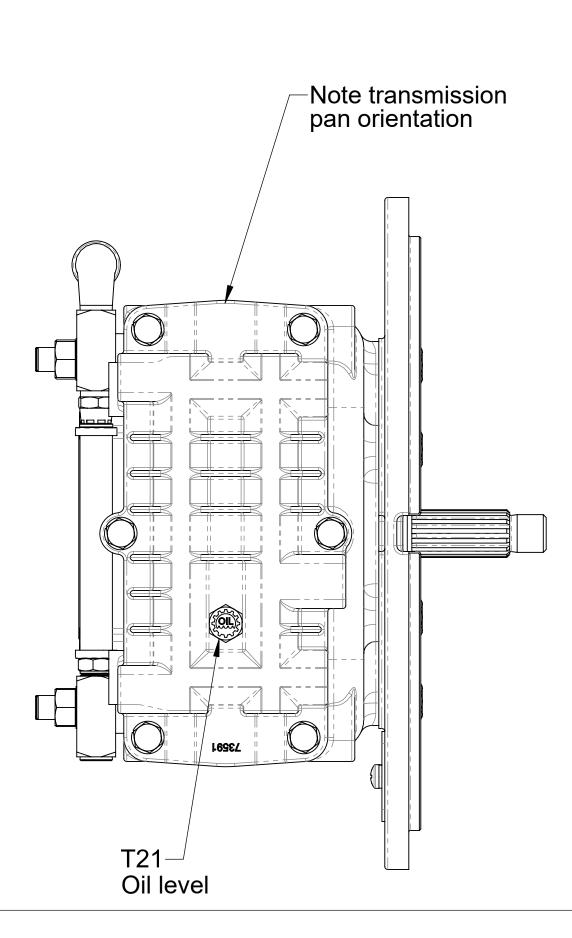
| Ref No. | Description |
|---------|---------------------------------------|
| T20 | Breather, 1/4 NPT |
| T21 | Plug-Level, Oil, 3/8 |
| T22 | Plug-Drain, Magnetic, 3/8, Headless |
| T23 | Plug-Pipe, Square Hd, 3/8 NPT |
| T40 | Plug-Pipe, Headless, 1/4 NPT |
| T42 | Plug-Pipe, Headless, 1/4 NPT |
| T103 | Bushing-Reducing, 3/8 MNPT x 1/4 FNPT |
| T104 | Elbow-Street, 90°, 1/4 NPT |

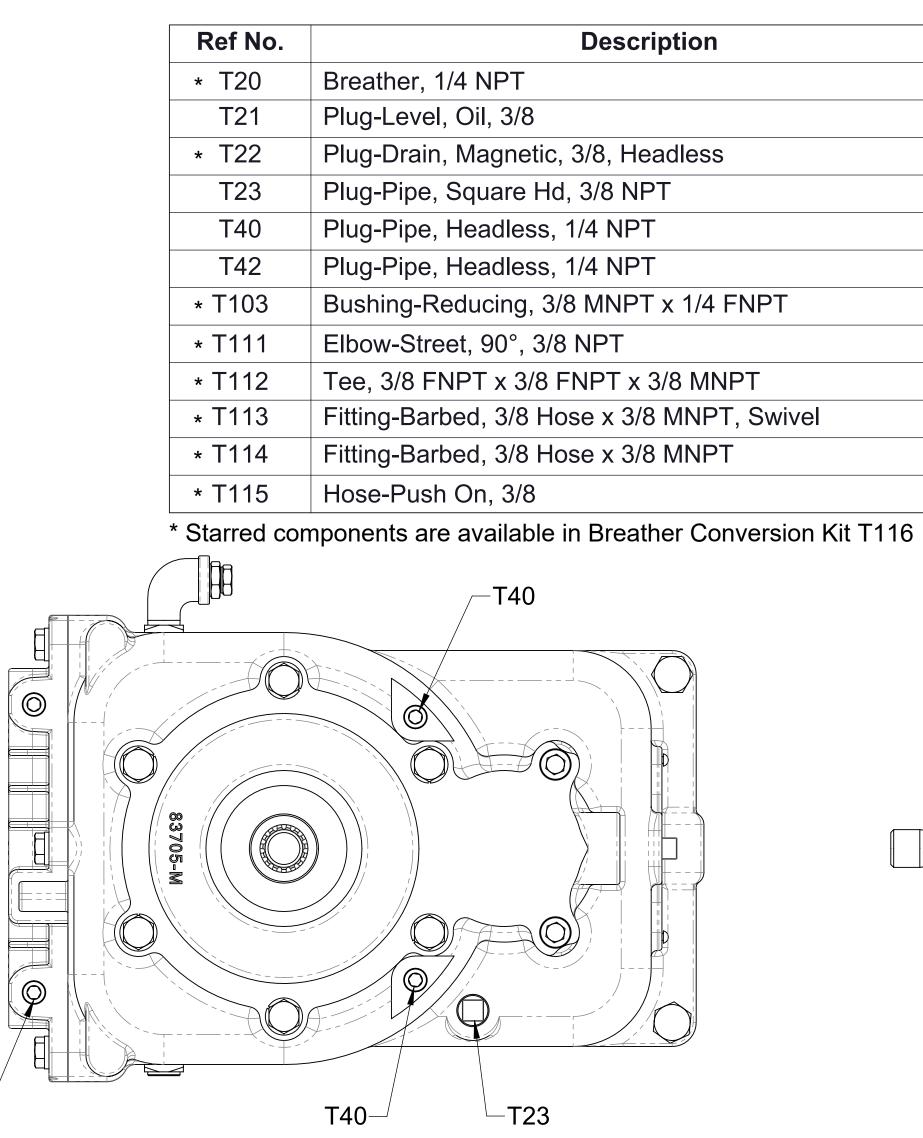
Note: Added second elbow after February 15th, 2021.





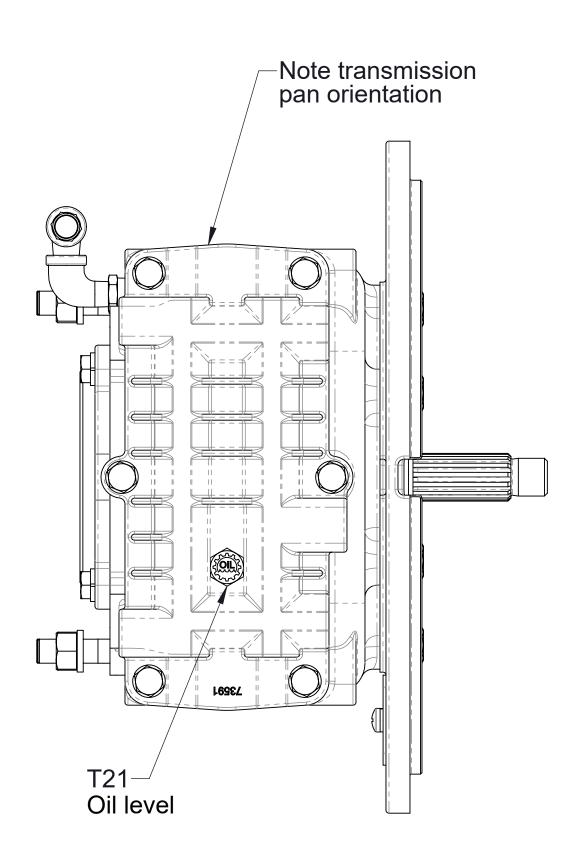
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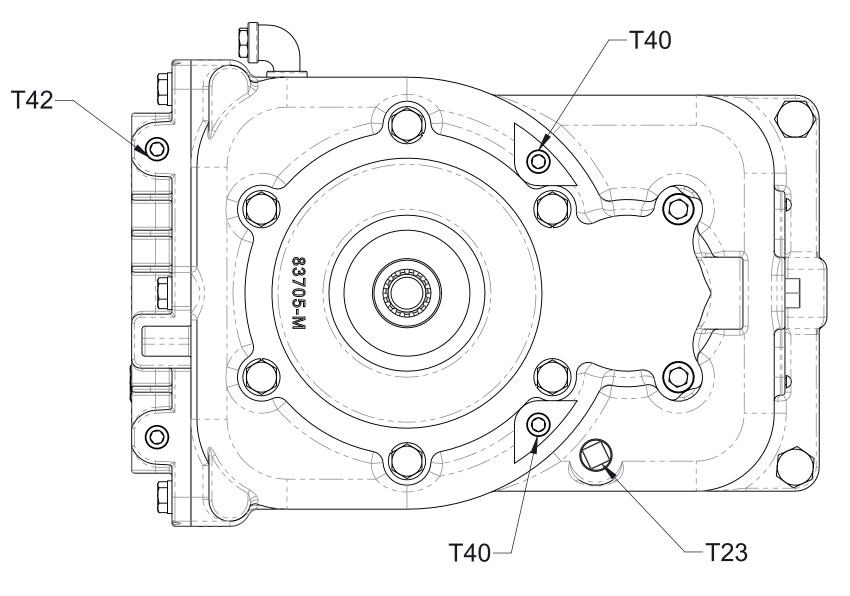




Bellhousing adapter removed for clarity

T42-





Bellhousing adapter removed for clarity

| Description |
|------------------------------------|
| r, 1/4 NPT |
| vel, Oil, 3/8 |
| ain, Magnetic, 3/8, Headless |
| e, Square Hd, 3/8 NPT |
| e, Headless, 1/4 NPT |
| e, Headless, 1/4 NPT |
| -Reducing, 3/8 MNPT x 1/4 FNPT |
| treet, 90°, 3/8 NPT |
| FNPT x 3/8 FNPT x 3/8 MNPT |
| arbed, 3/8 Hose x 3/8 MNPT, Swivel |
| arbed, 3/8 Hose x 3/8 MNPT |
| ush On. 3/8 |

T23–

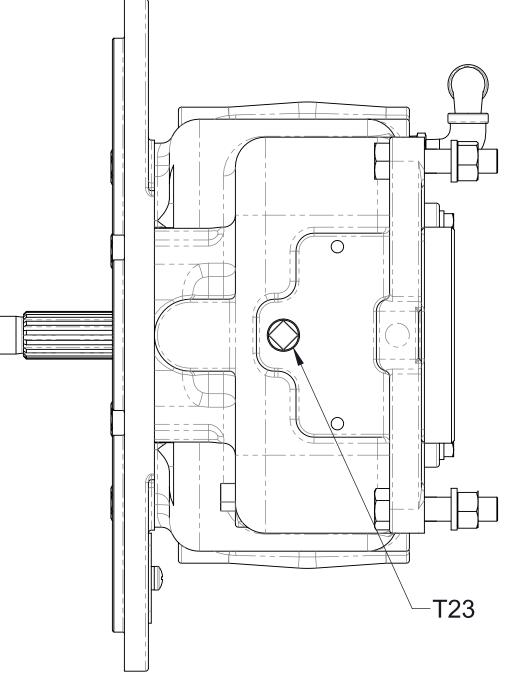
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After February 2, 2024

Note: Added second elbow after February 15th, 2021.

| Ref No. | Description |
|---------|---------------------------------------|
| T20 | Breather, 1/4 NPT |
| T21 | Plug-Level, Oil, 3/8 |
| T22 | Plug-Drain, Magnetic, 3/8, Headless |
| T23 | Plug-Pipe, Square Hd, 3/8 NPT |
| T40 | Plug-Pipe, Headless, 1/4 NPT |
| T42 | Plug-Pipe, Headless, 1/4 NPT |
| T103 | Bushing-Reducing, 3/8 MNPT x 1/4 FNPT |
| T104 | Elbow-Street, 90°, 1/4 NPT |
| T116 | Breather Conversion Kit |



Prior to February 2, 2024 Breather, Drain, Oil Level, and Plug Locations Left Mounting Position

