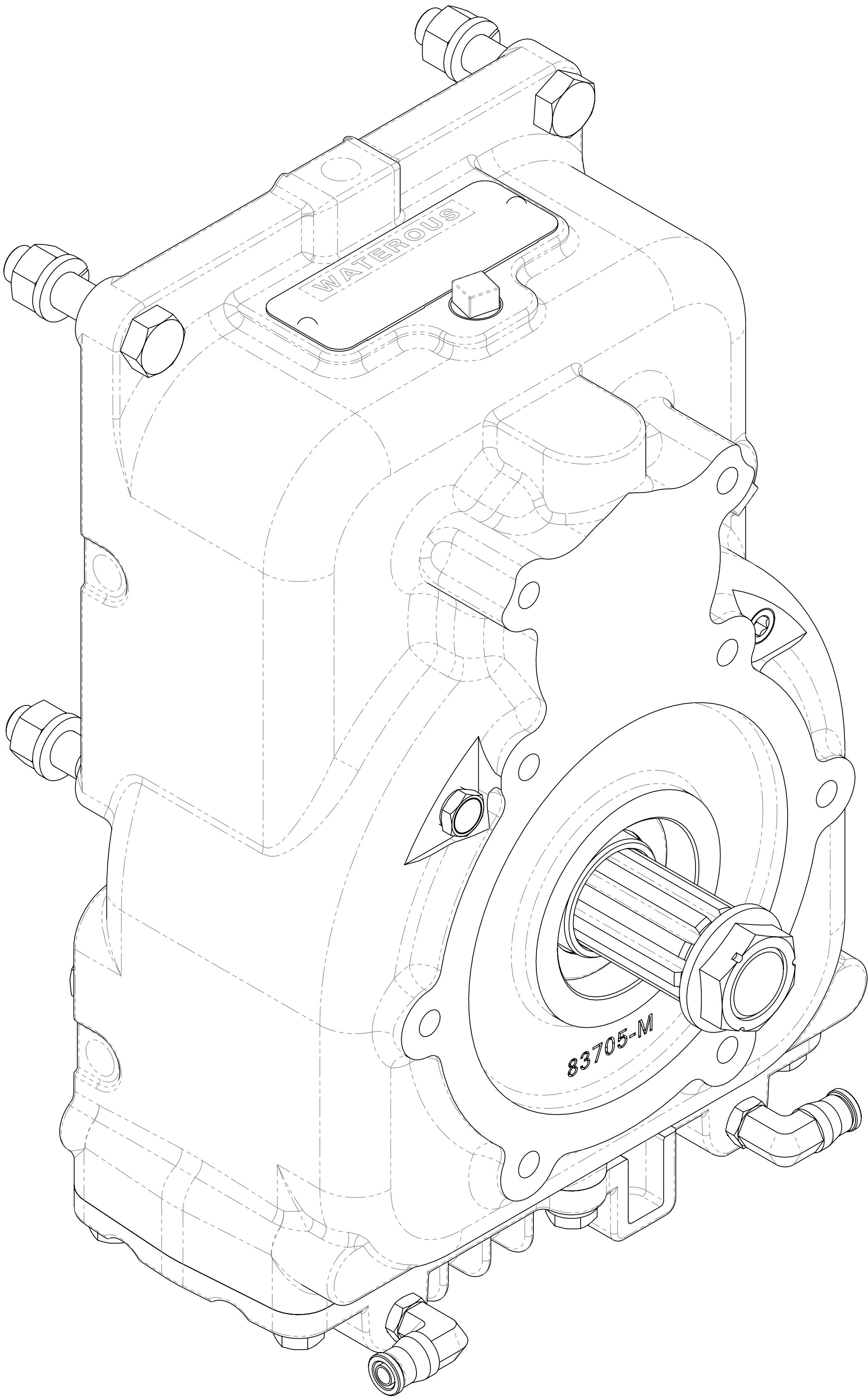
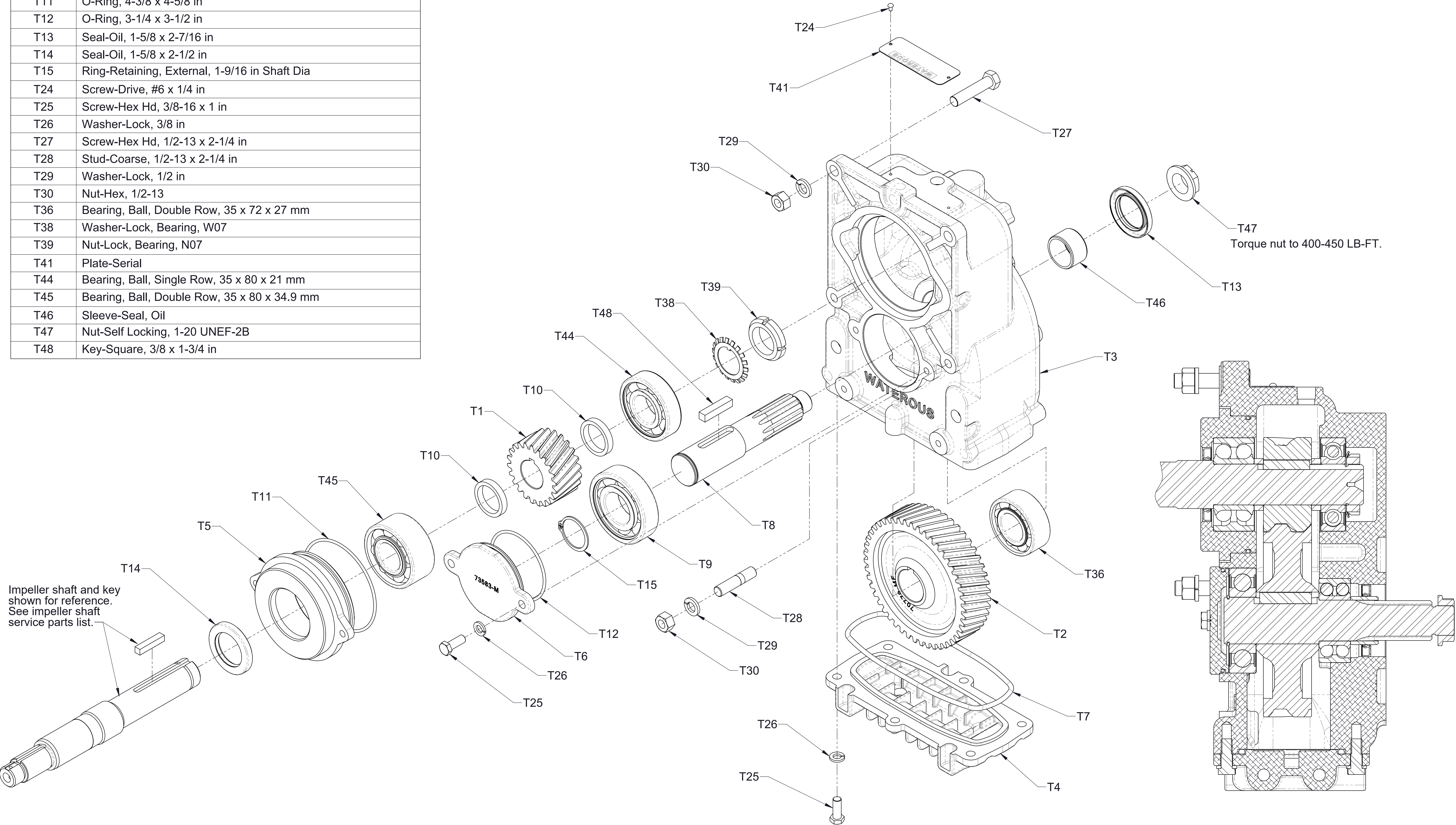


Heavy Duty K Transmission Assy 83741

Pump Model	Impeller Shaft type	Extended Shaft for CAFS Drive	Input Type	Mounting	See Sheet
CXN, CXS, CXV	One-Piece	No	Standard 1-3/8in. SAE Spline	All	2
			Hydraulic Flange Adapter	All	3
		Yes	Standard 1-3/8in. SAE Spline	Left	4
CGV, CGVR, CGVG	One-Piece	N/A	Standard 1-3/8in. SAE Spline	All	5
			Hydraulic Flange Adapter	All	6
CM, CS	Separable	N/A	Standard 1-3/8in. SAE Spline	All	7
HL200, HL300, HL400	Separable	No	Standard 1-3/8in. SAE Spline	All	8
		Yes	Standard 1-3/8in. SAE Spline	Vertical	9
				Left	10
Oil Cooler Fittings -- CX, CG					11
Oil Cooler Fittings -- HL200, HL300, HL400, HLU					12
Oil Cooler Fittings -- HL400, HLU with Short Intake Fitting					13
Oil Cooler Fittings -- CM, CS					14
Pump Mounting Positions -- Oil Level, Breather, Drain, and Vent locations					15-18

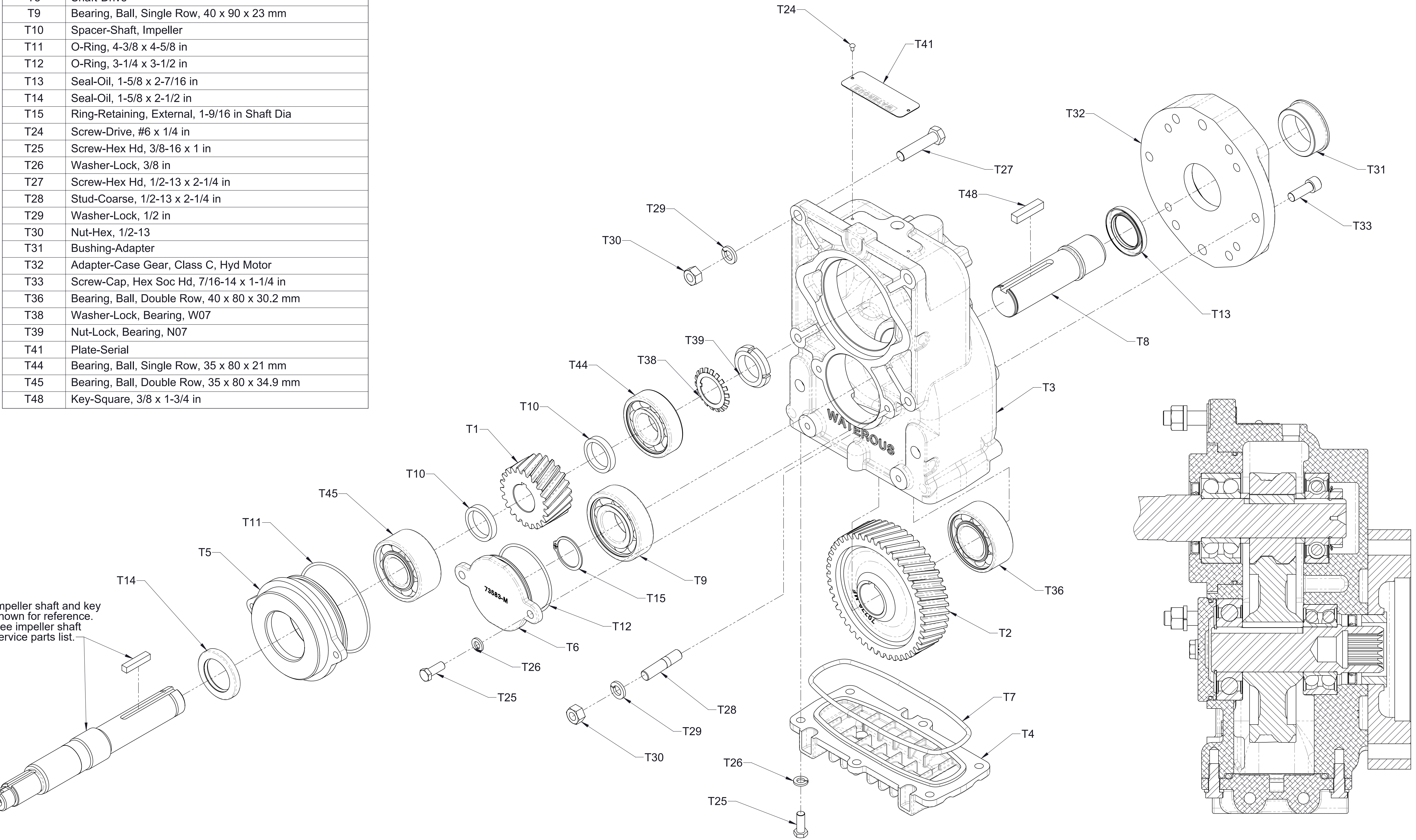


Ref No.	Description
T1	Gear-Driven
T2	Gear-Drive
T3	Case-Transmission
T4	Pan-Oil, Cooler
T5	Housing-Bearing
T6	Cover-Bearing
T7	Gasket-Molded
T8	Shaft-Drive
T9	Bearing, Ball, Single Row, 40 x 90 x 23 mm
T10	Spacer-Shaft, Impeller
T11	O-Ring, 4-3/8 x 4-5/8 in
T12	O-Ring, 3-1/4 x 3-1/2 in
T13	Seal-Oil, 1-5/8 x 2-7/16 in
T14	Seal-Oil, 1-5/8 x 2-1/2 in
T15	Ring-Retaining, External, 1-9/16 in Shaft Dia
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
T36	Bearing, Ball, Double Row, 35 x 72 x 27 mm
T38	Washer-Lock, Bearing, W07
T39	Nut-Lock, Bearing, N07
T41	Plate-Serial
T44	Bearing, Ball, Single Row, 35 x 80 x 21 mm
T45	Bearing, Ball, Double Row, 35 x 80 x 34.9 mm
T46	Sleeve-Seal, Oil
T47	Nut-Self Locking, 1-20 UNEF-2B
T48	Key-Square, 3/8 x 1-3/4 in



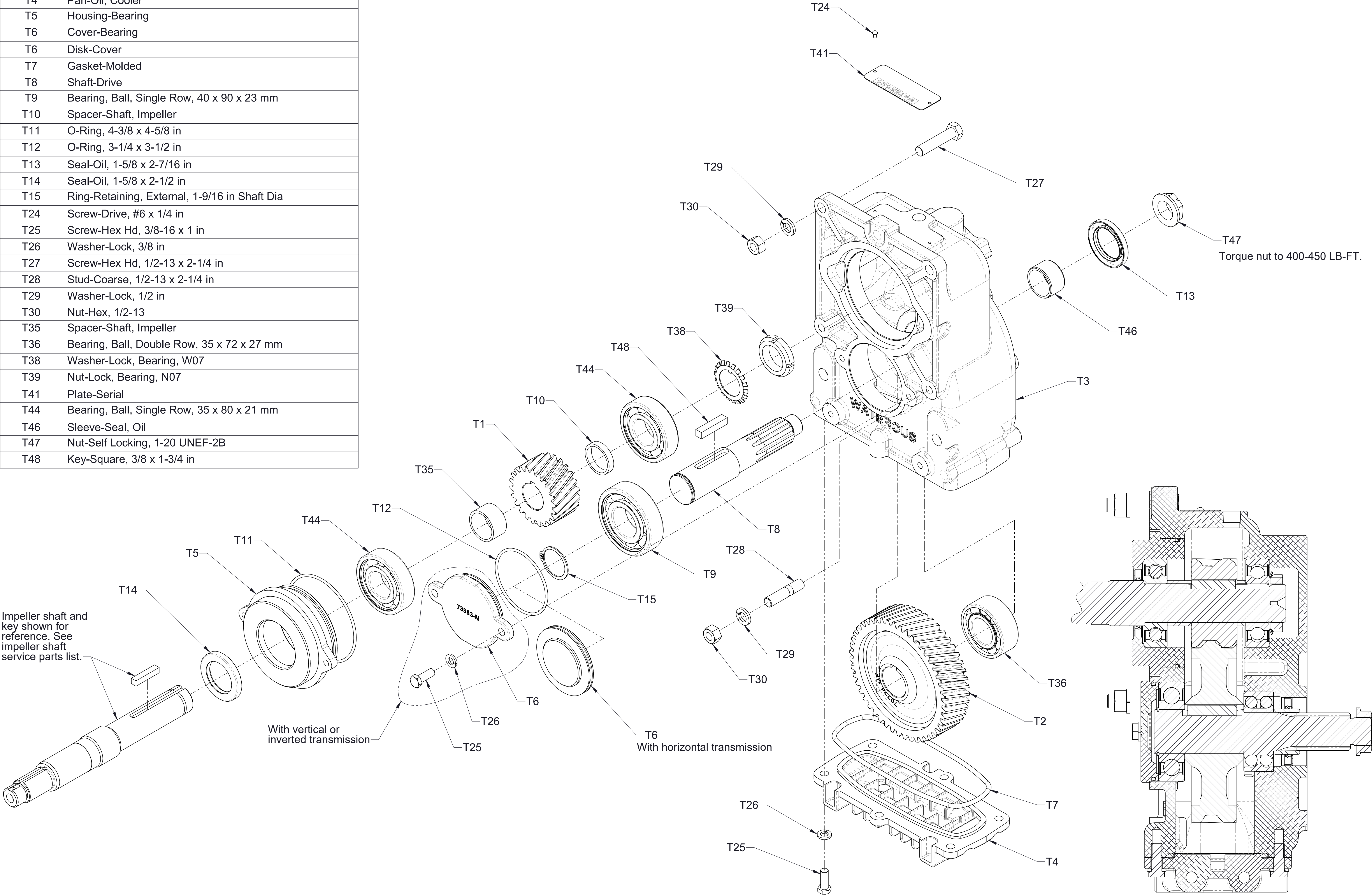
Transmission Assembly
 One Piece Impeller Shaft, 1-3/8in. SAE Splined Input
 Without Extended Shaft
 CXN, CXS, CXV

Ref No.	Description
T1	Gear-Driven
T2	Gear-Drive
T3	Case-Transmission
T4	Pan-Oil, Cooler
T5	Housing-Bearing
T6	Cover-Bearing
T7	Gasket-Molded
T8	Shaft-Drive
T9	Bearing, Ball, Single Row, 40 x 90 x 23 mm
T10	Spacer-Shaft, Impeller
T11	O-Ring, 4-3/8 x 4-5/8 in
T12	O-Ring, 3-1/4 x 3-1/2 in
T13	Seal-Oil, 1-5/8 x 2-7/16 in
T14	Seal-Oil, 1-5/8 x 2-1/2 in
T15	Ring-Retaining, External, 1-9/16 in Shaft Dia
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
T31	Bushing-Adapter
T32	Adapter-Case Gear, Class C, Hyd Motor
T33	Screw-Cap, Hex Soc Hd, 7/16-14 x 1-1/4 in
T36	Bearing, Ball, Double Row, 40 x 80 x 30.2 mm
T38	Washer-Lock, Bearing, W07
T39	Nut-Lock, Bearing, N07
T41	Plate-Serial
T44	Bearing, Ball, Single Row, 35 x 80 x 21 mm
T45	Bearing, Ball, Double Row, 35 x 80 x 34.9 mm
T48	Key-Square, 3/8 x 1-3/4 in



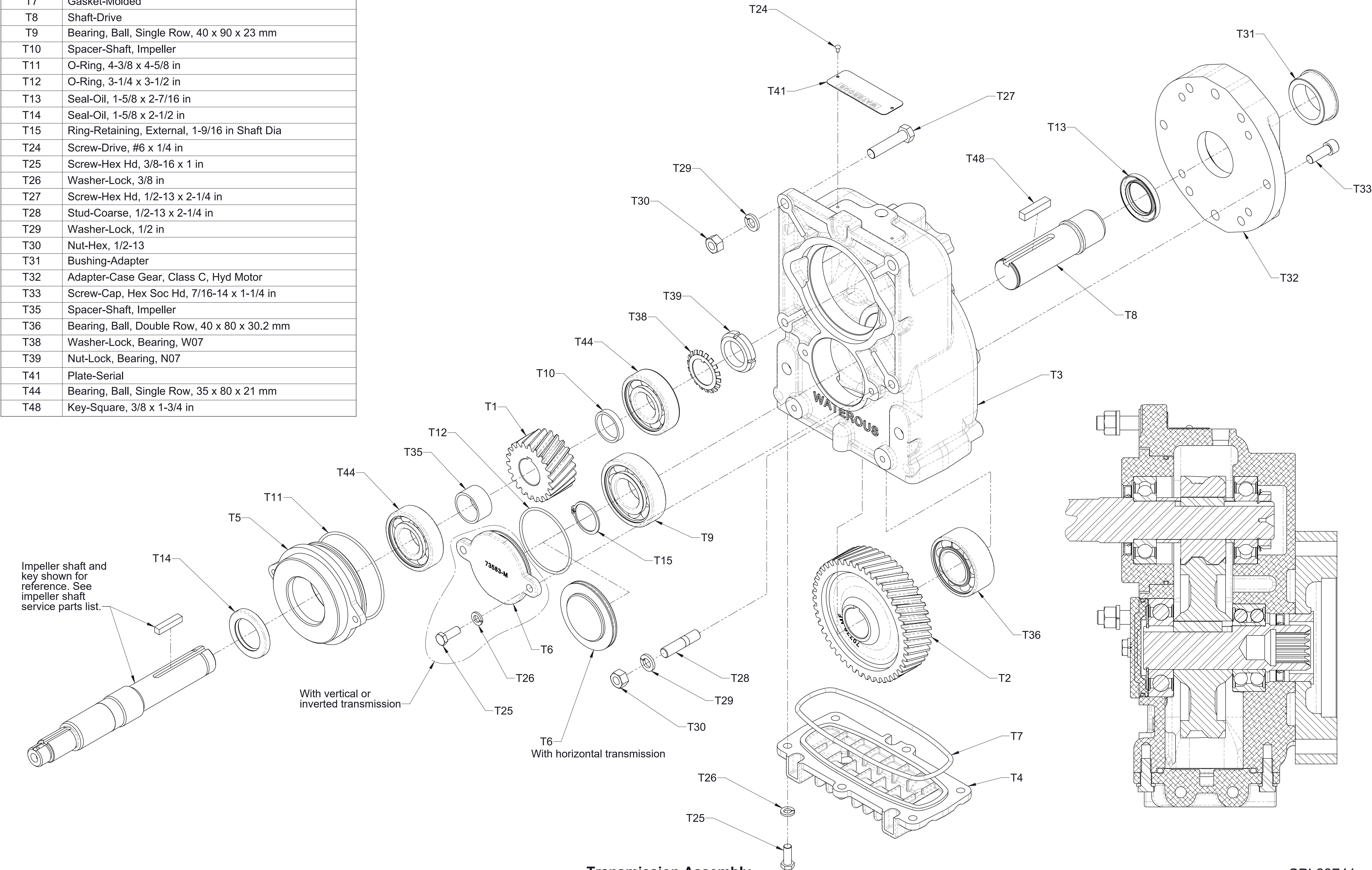
Transmission Assembly
 One Piece Impeller Shaft, SAE Class C Hydraulic Adapter
 Without Extended Shaft
 CXN, CXS, CXV

Ref No.	Description
T1	Gear-Driven
T2	Gear-Drive
T3	Case-Transmission
T4	Pan-Oil, Cooler
T5	Housing-Bearing
T6	Cover-Bearing
T6	Disk-Cover
T7	Gasket-Molded
T8	Shaft-Drive
T9	Bearing, Ball, Single Row, 40 x 90 x 23 mm
T10	Spacer-Shaft, Impeller
T11	O-Ring, 4-3/8 x 4-5/8 in
T12	O-Ring, 3-1/4 x 3-1/2 in
T13	Seal-Oil, 1-5/8 x 2-7/16 in
T14	Seal-Oil, 1-5/8 x 2-1/2 in
T15	Ring-Retaining, External, 1-9/16 in Shaft Dia
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
T35	Spacer-Shaft, Impeller
T36	Bearing, Ball, Double Row, 35 x 72 x 27 mm
T38	Washer-Lock, Bearing, W07
T39	Nut-Lock, Bearing, N07
T41	Plate-Serial
T44	Bearing, Ball, Single Row, 35 x 80 x 21 mm
T46	Sleeve-Seal, Oil
T47	Nut-Self Locking, 1-20 UNEF-2B
T48	Key-Square, 3/8 x 1-3/4 in

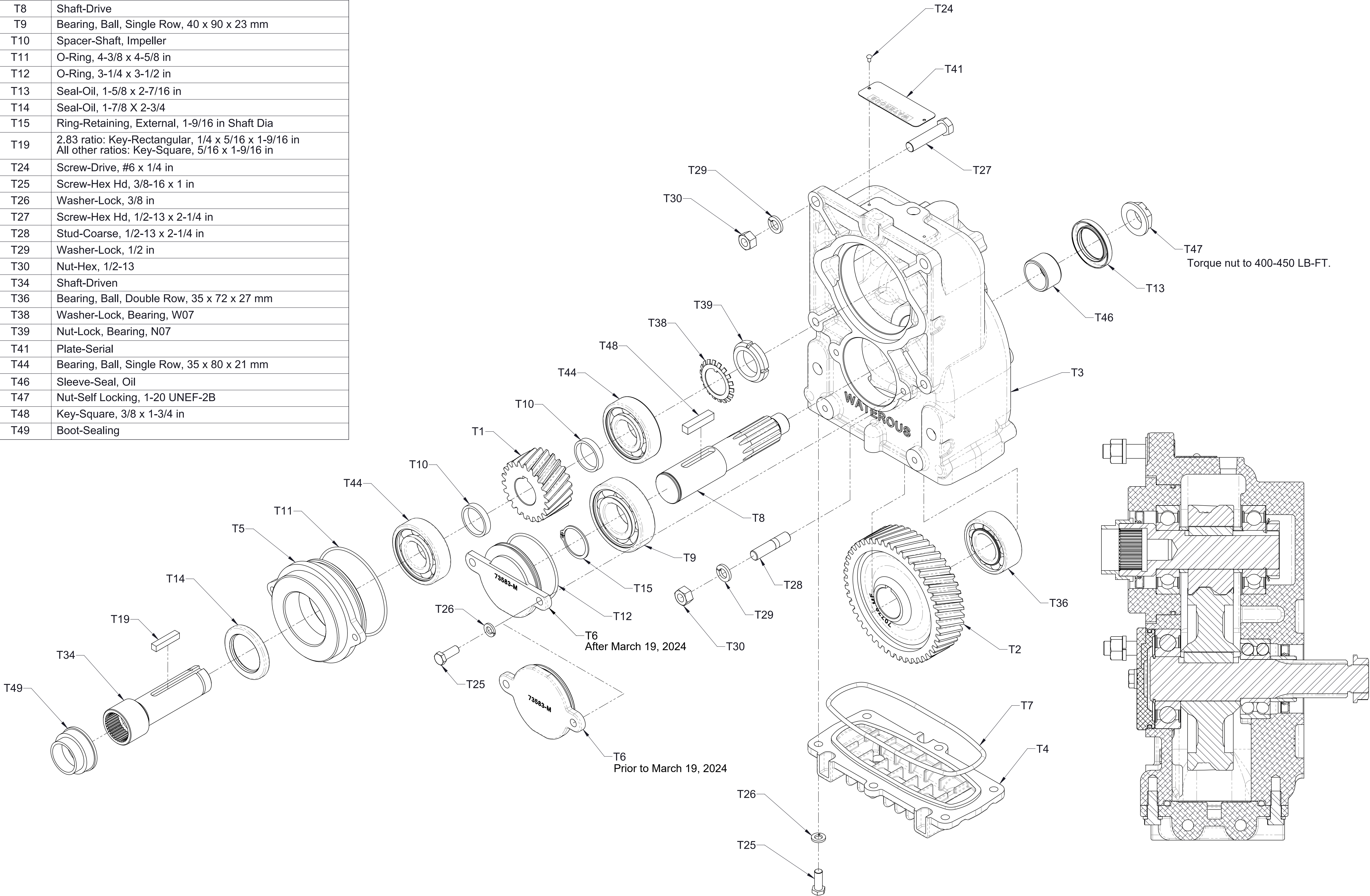


Transmission Assembly
 One Piece Impeller Shaft, 1-3/8in. SAE Splined Input
 Without Extended Shaft
 CGV, CGVG, CGVR

Ref No.	Description
T1	Gear-Driven
T2	Gear-Drive
T3	Case-Transmission
T4	Pan-Oil, Cooler
T5	Housing-Bearing
T6	Disk-Cover
T6	Cover-Bearing
T7	Gasket-Molded
T8	Shaft-Drive
T9	Bearing, Ball, Single Row, 40 x 90 x 23 mm
T10	Spacer-Shaft, Impeller
T11	O-Ring, 4-3/8 x 4-5/8 in
T12	O-Ring, 3-1/4 x 3-1/2 in
T13	Seal-Oil, 1-5/8 x 2-7/16 in
T14	Seal-Oil, 1-5/8 x 2-1/2 in
T15	Ring-Retaining, External, 1-9/16 in Shaft Dia
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
T31	Bushing-Adapter
T32	Adapter-Case Gear, Class C, Hyd Motor
T33	Screw-Cap, Hex Soc Hd, 7/16-14 x 1-1/4 in
T35	Spacer-Shaft, Impeller
T36	Bearing, Ball, Double Row, 40 x 80 x 30.2 mm
T38	Washer-Lock, Bearing, W07
T39	Nut-Lock, Bearing, N07
T41	Plate-Serial
T44	Bearing, Ball, Single Row, 35 x 80 x 21 mm
T48	Key-Square, 3/8 x 1-3/4 in

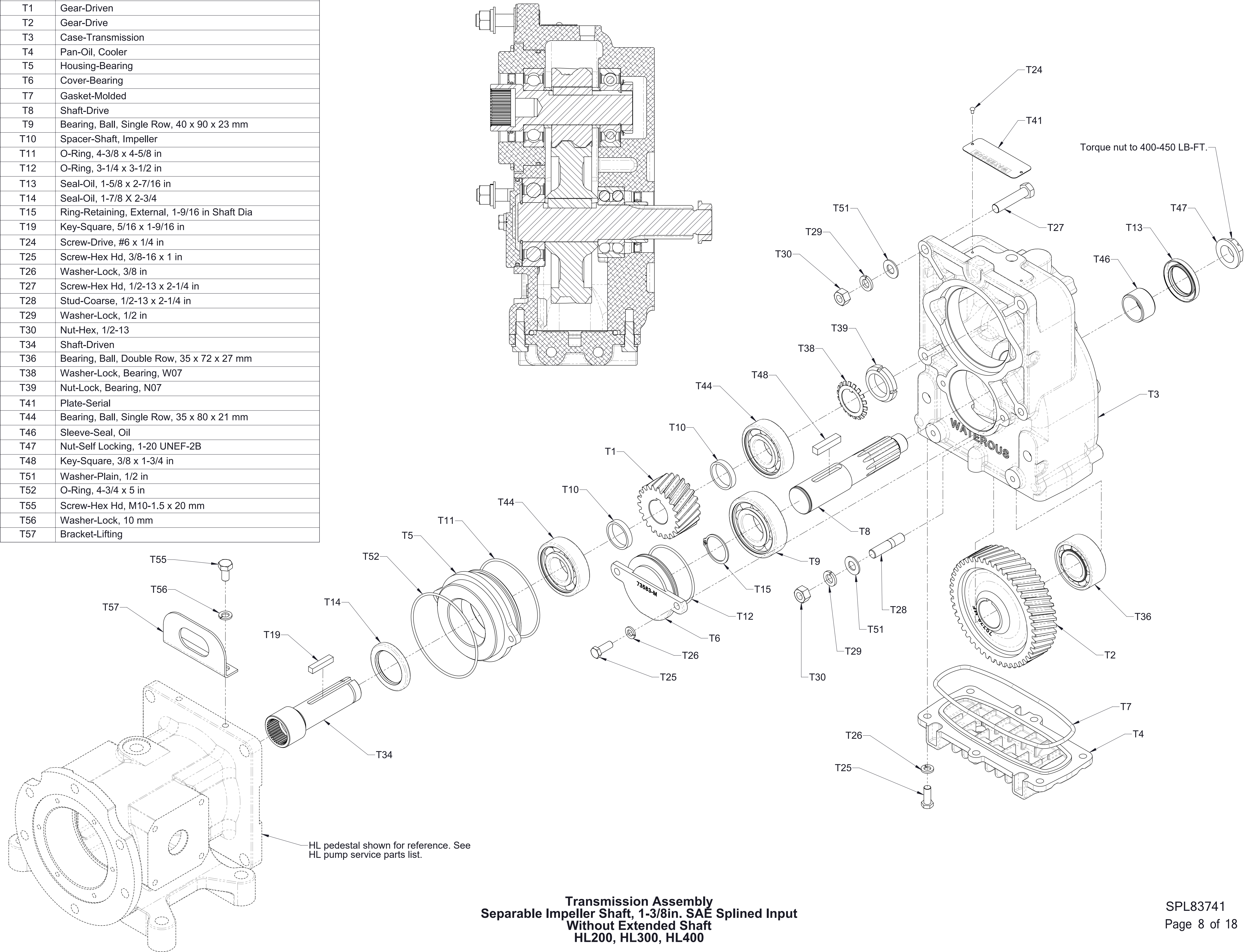


Ref No.	Description
T1	Gear-Driven
T2	Gear-Drive
T3	Case-Transmission
T4	Pan-Oil, Cooler
T5	Housing-Bearing
T6	Cover-Bearing
T7	Gasket-Molded
T8	Shaft-Drive
T9	Bearing, Ball, Single Row, 40 x 90 x 23 mm
T10	Spacer-Shaft, Impeller
T11	O-Ring, 4-3/8 x 4-5/8 in
T12	O-Ring, 3-1/4 x 3-1/2 in
T13	Seal-Oil, 1-5/8 x 2-7/16 in
T14	Seal-Oil, 1-7/8 X 2-3/4
T15	Ring-Retaining, External, 1-9/16 in Shaft Dia
T19	2.83 ratio: Key-Rectangular, 1/4 x 5/16 x 1-9/16 in All other ratios: Key-Square, 5/16 x 1-9/16 in
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
T34	Shaft-Driven
T36	Bearing, Ball, Double Row, 35 x 72 x 27 mm
T38	Washer-Lock, Bearing, W07
T39	Nut-Lock, Bearing, N07
T41	Plate-Serial
T44	Bearing, Ball, Single Row, 35 x 80 x 21 mm
T46	Sleeve-Seal, Oil
T47	Nut-Self Locking, 1-20 UNEF-2B
T48	Key-Square, 3/8 x 1-3/4 in
T49	Boot-Sealing



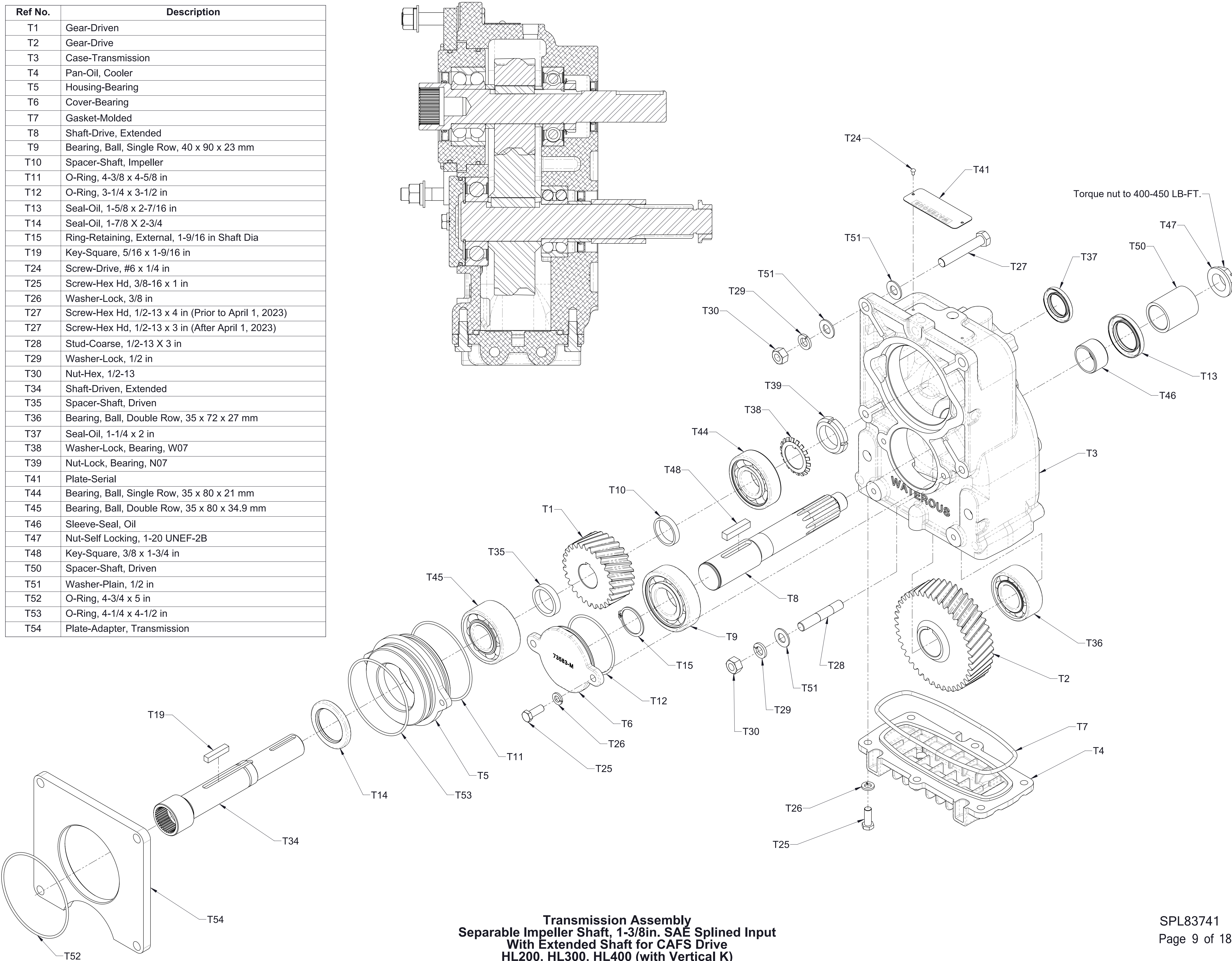
Transmission Assembly
Separable Impeller Shaft, 1-3/8in. SAE Splined Input
Without Extended Shaft
CM, CS

Ref No.	Description
T1	Gear-Driven
T2	Gear-Drive
T3	Case-Transmission
T4	Pan-Oil, Cooler
T5	Housing-Bearing
T6	Cover-Bearing
T7	Gasket-Molded
T8	Shaft-Drive
T9	Bearing, Ball, Single Row, 40 x 90 x 23 mm
T10	Spacer-Shaft, Impeller
T11	O-Ring, 4-3/8 x 4-5/8 in
T12	O-Ring, 3-1/4 x 3-1/2 in
T13	Seal-Oil, 1-5/8 x 2-7/16 in
T14	Seal-Oil, 1-7/8 X 2-3/4
T15	Ring-Retaining, External, 1-9/16 in Shaft Dia
T19	Key-Square, 5/16 x 1-9/16 in
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
T34	Shaft-Driven
T36	Bearing, Ball, Double Row, 35 x 72 x 27 mm
T38	Washer-Lock, Bearing, W07
T39	Nut-Lock, Bearing, N07
T41	Plate-Serial
T44	Bearing, Ball, Single Row, 35 x 80 x 21 mm
T46	Sleeve-Seal, Oil
T47	Nut-Self Locking, 1-20 UNEF-2B
T48	Key-Square, 3/8 x 1-3/4 in
T51	Washer-Plain, 1/2 in
T52	O-Ring, 4-3/4 x 5 in
T55	Screw-Hex Hd, M10-1.5 x 20 mm
T56	Washer-Lock, 10 mm
T57	Bracket-Lifting



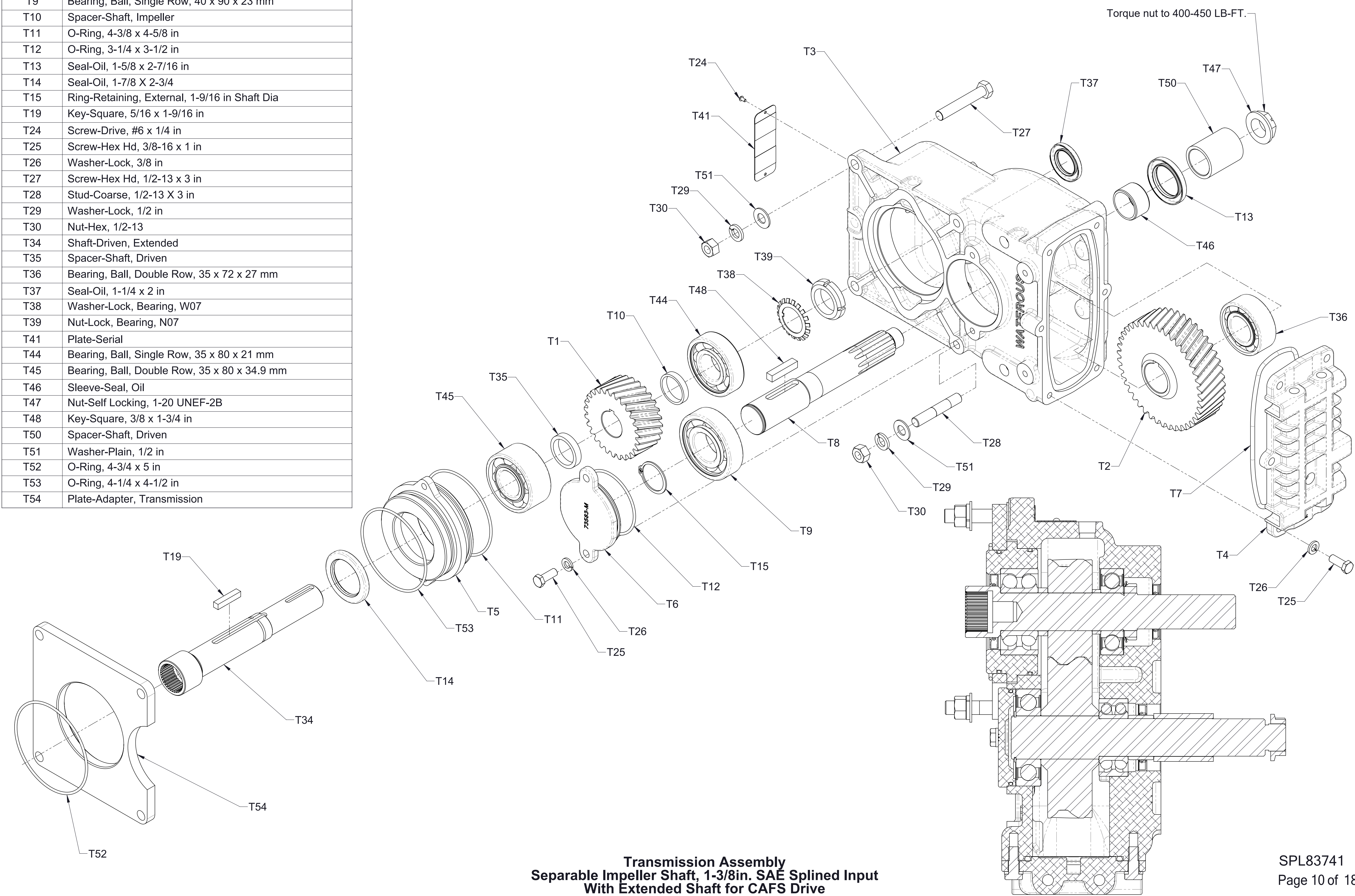
Transmission Assembly
Separable Impeller Shaft, 1-3/8in. SAE Splined Input
Without Extended Shaft
HL200, HL300, HL400

Ref No.	Description
T1	Gear-Driven
T2	Gear-Drive
T3	Case-Transmission
T4	Pan-Oil, Cooler
T5	Housing-Bearing
T6	Cover-Bearing
T7	Gasket-Molded
T8	Shaft-Drive, Extended
T9	Bearing, Ball, Single Row, 40 x 90 x 23 mm
T10	Spacer-Shaft, Impeller
T11	O-Ring, 4-3/8 x 4-5/8 in
T12	O-Ring, 3-1/4 x 3-1/2 in
T13	Seal-Oil, 1-5/8 x 2-7/16 in
T14	Seal-Oil, 1-7/8 X 2-3/4
T15	Ring-Retaining, External, 1-9/16 in Shaft Dia
T19	Key-Square, 5/16 x 1-9/16 in
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 4 in (Prior to April 1, 2023)
T27	Screw-Hex Hd, 1/2-13 x 3 in (After April 1, 2023)
T28	Stud-Coarse, 1/2-13 X 3 in
T29	Washer-Lock, 1/2 in
T30	Nut-Hex, 1/2-13
T34	Shaft-Driven, Extended
T35	Spacer-Shaft, Driven
T36	Bearing, Ball, Double Row, 35 x 72 x 27 mm
T37	Seal-Oil, 1-1/4 x 2 in
T38	Washer-Lock, Bearing, W07
T39	Nut-Lock, Bearing, N07
T41	Plate-Serial
T44	Bearing, Ball, Single Row, 35 x 80 x 21 mm
T45	Bearing, Ball, Double Row, 35 x 80 x 34.9 mm
T46	Sleeve-Seal, Oil
T47	Nut-Self Locking, 1-20 UNEF-2B
T48	Key-Square, 3/8 x 1-3/4 in
T50	Spacer-Shaft, Driven
T51	Washer-Plain, 1/2 in
T52	O-Ring, 4-3/4 x 5 in
T53	O-Ring, 4-1/4 x 4-1/2 in
T54	Plate-Adapter, Transmission



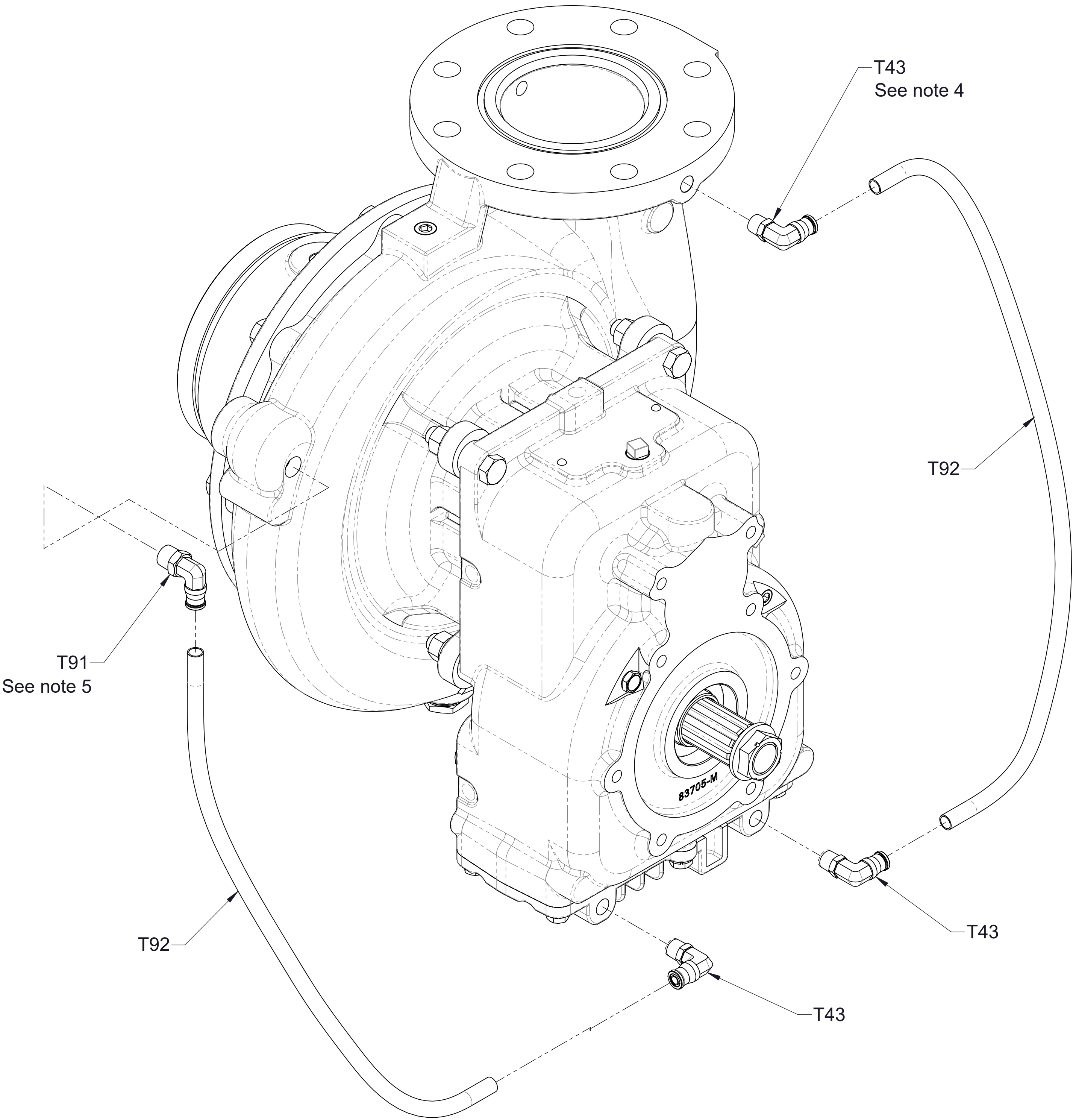
Transmission Assembly
Separable Impeller Shaft, 1-3/8in. SAE Splined Input
With Extended Shaft for CAFS Drive
HL200, HL300, HL400 (with Vertical K)

Ref No.	Description
T1	Gear-Driven
T2	Gear-Drive
T3	Case-Transmission
T4	Pan-Oil, Cooler
T5	Housing-Bearing
T6	Cover-Bearing
T7	Gasket-Molded
T8	Shaft-Drive, Extended
T9	Bearing, Ball, Single Row, 40 x 90 x 23 mm
T10	Spacer-Shaft, Impeller
T11	O-Ring, 4-3/8 x 4-5/8 in
T12	O-Ring, 3-1/4 x 3-1/2 in
T13	Seal-Oil, 1-5/8 x 2-7/16 in
T14	Seal-Oil, 1-7/8 X 2-3/4
T15	Ring-Retaining, External, 1-9/16 in Shaft Dia
T19	Key-Square, 5/16 x 1-9/16 in
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 3 in
T28	Stud-Coarse, 1/2-13 X 3 in
T29	Washer-Lock, 1/2 in
T30	Nut-Hex, 1/2-13
T34	Shaft-Driven, Extended
T35	Spacer-Shaft, Driven
T36	Bearing, Ball, Double Row, 35 x 72 x 27 mm
T37	Seal-Oil, 1-1/4 x 2 in
T38	Washer-Lock, Bearing, W07
T39	Nut-Lock, Bearing, N07
T41	Plate-Serial
T44	Bearing, Ball, Single Row, 35 x 80 x 21 mm
T45	Bearing, Ball, Double Row, 35 x 80 x 34.9 mm
T46	Sleeve-Seal, Oil
T47	Nut-Self Locking, 1-20 UNEF-2B
T48	Key-Square, 3/8 x 1-3/4 in
T50	Spacer-Shaft, Driven
T51	Washer-Plain, 1/2 in
T52	O-Ring, 4-3/4 x 5 in
T53	O-Ring, 4-1/4 x 4-1/2 in
T54	Plate-Adapter, Transmission



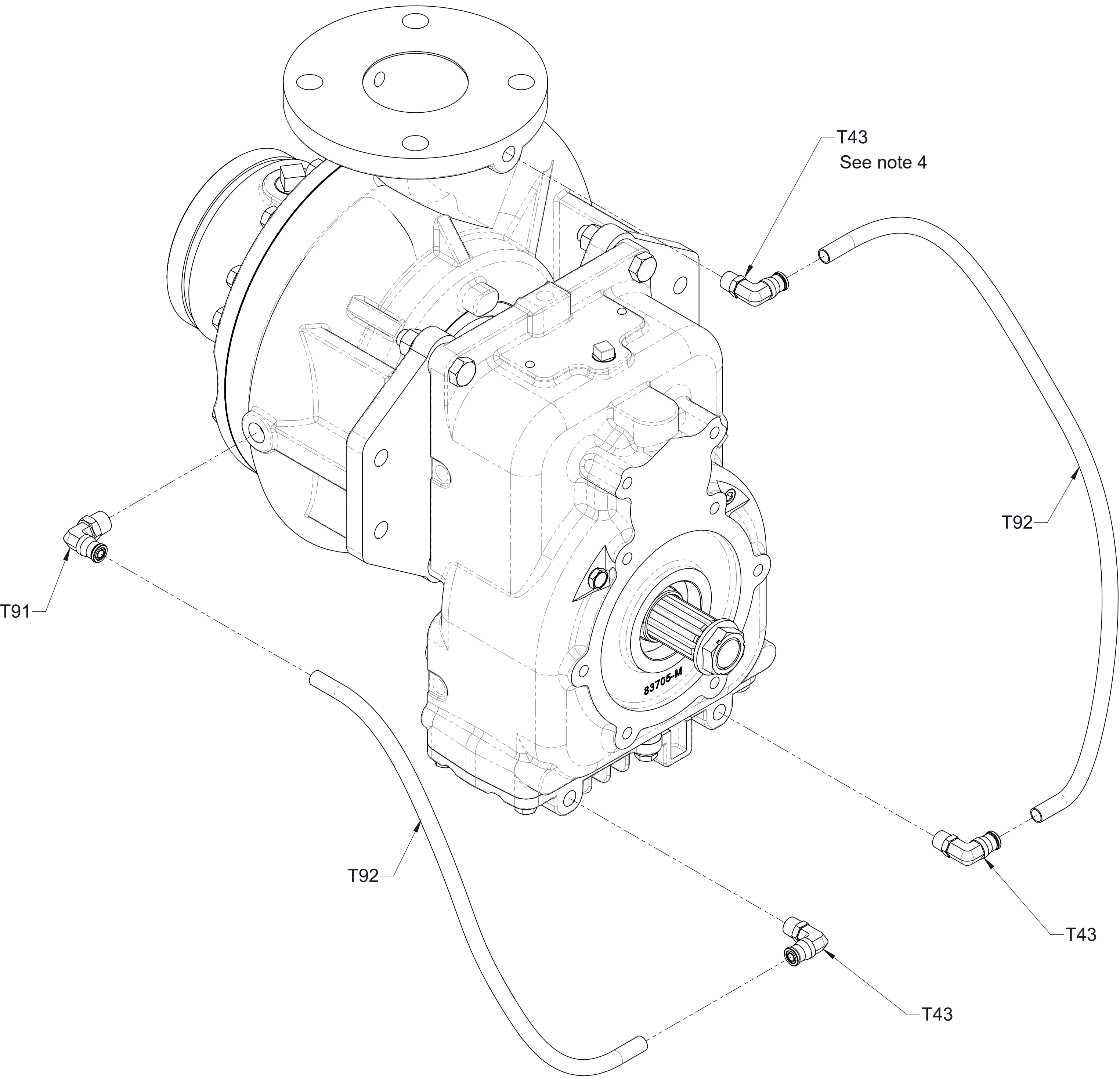
Transmission Assembly
Separable Impeller Shaft, 1-3/8in. SAE Splined Input
With Extended Shaft for CAFS Drive
HL200, HL300, HL400 (with Left K)

Ref No.	Description
T43	Fitting-Elbow, 3/8 PTC x 1/4 MNPT, 90°
T91	Fitting-Elbow, 3/8 PTC X 3/8 MNPT, 90°
T92	Tubing, 3/8, Green



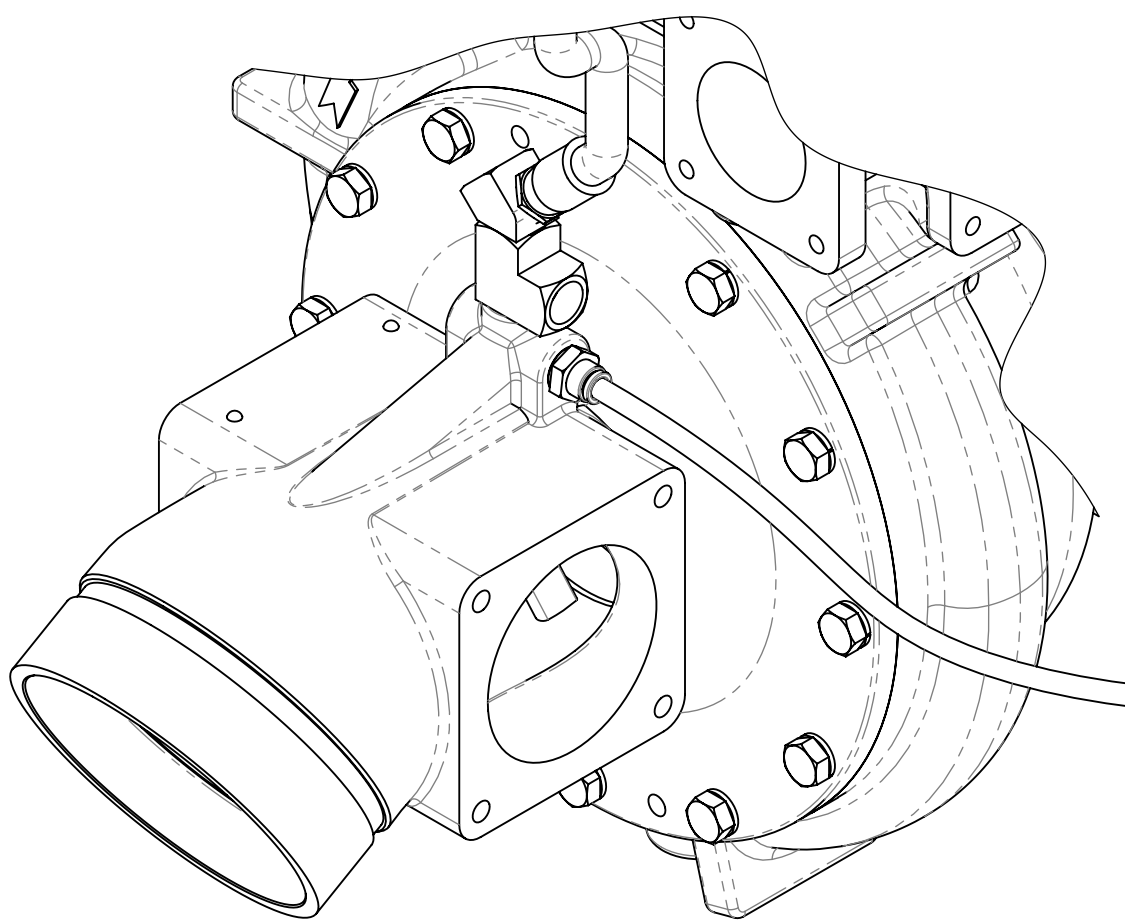
- Notes:
1. CW input, vertical transmission, discharge UP shown.
 2. Tubing to be cut to required length depending on input rotation and pump/transmission orientation.
 3. Route hoses so water drains either through pump or oil cooler
 4. Elbow on discharge flange may need to be mounted on opposite side of flange if there is interference with the transmission in certain configurations.
 5. Prior to July 22, 2020 T91 elbow was T89 3/8 PTC x 3/8 NPT straight adapter.

Ref No.	Description
T43	Fitting-Elbow, 3/8 PTC x 1/4 MNPT, 90°
T91	Fitting-Elbow, 3/8 PTC X 3/8 MNPT, 90°
T92	Tubing, 3/8, Green

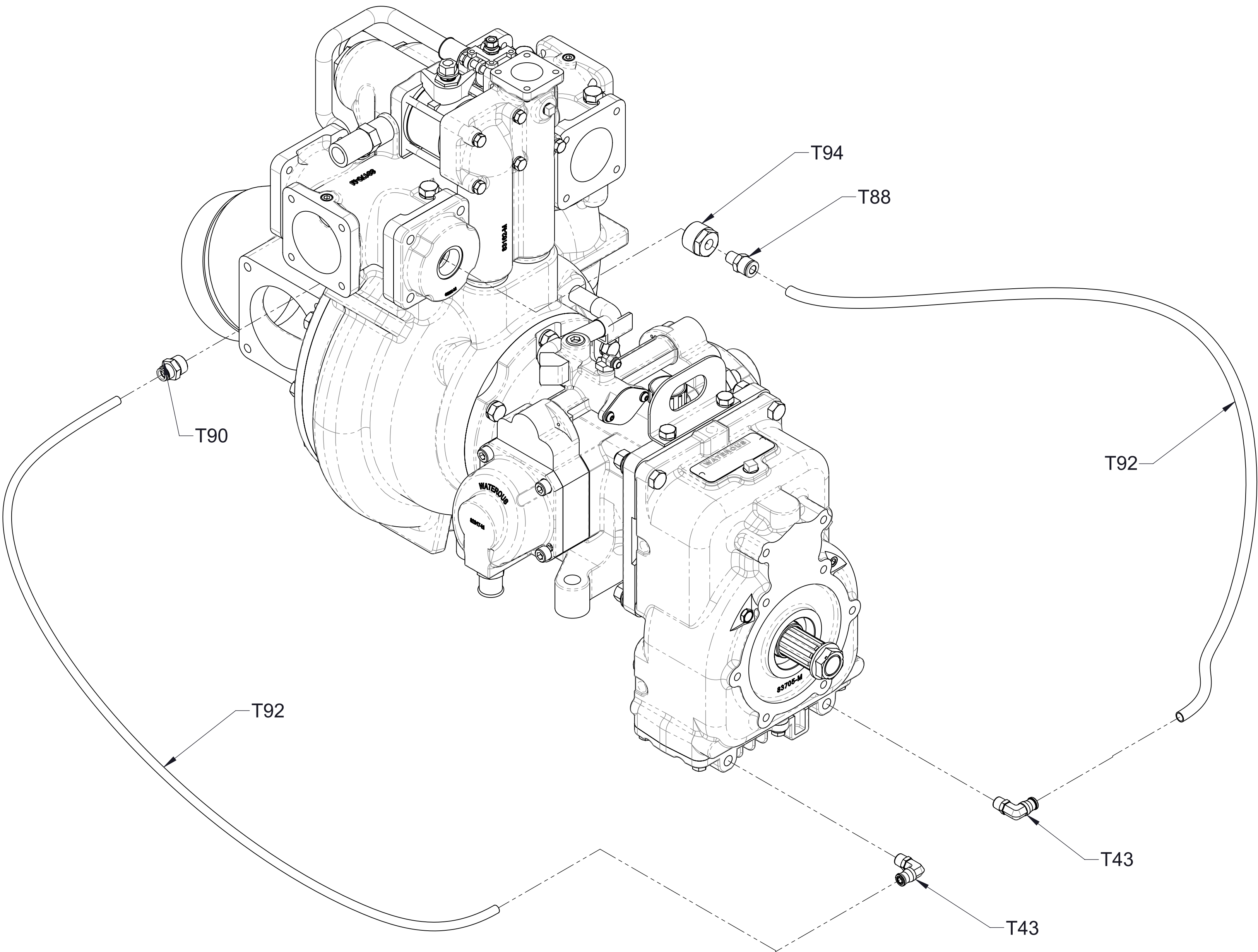


- Notes:
1. CW input, vertical transmission, discharge UP shown.
 2. Tubing to be cut to required length depending on input rotation and pump/transmission orientation.
 3. Route hoses so water drains either through pump or oil cooler
 4. Elbow on discharge flange may be mounted on opposite side of flange if it provides a better hose route depending on the pump and transmission configurations.

Ref No.	Description
T43	Fitting-Elbow, 3/8 PTC x 1/4 MNPT, 90°
T88	Adapter-3/8 PTC x 1/4 MNPT
T90	Adapter-Straight 3/8 PTC x 1/2 MNPT
T92	Tubing, 3/8, Green
T94	Bushing-Reducing, 1 MNPT x 1/4 FNPT

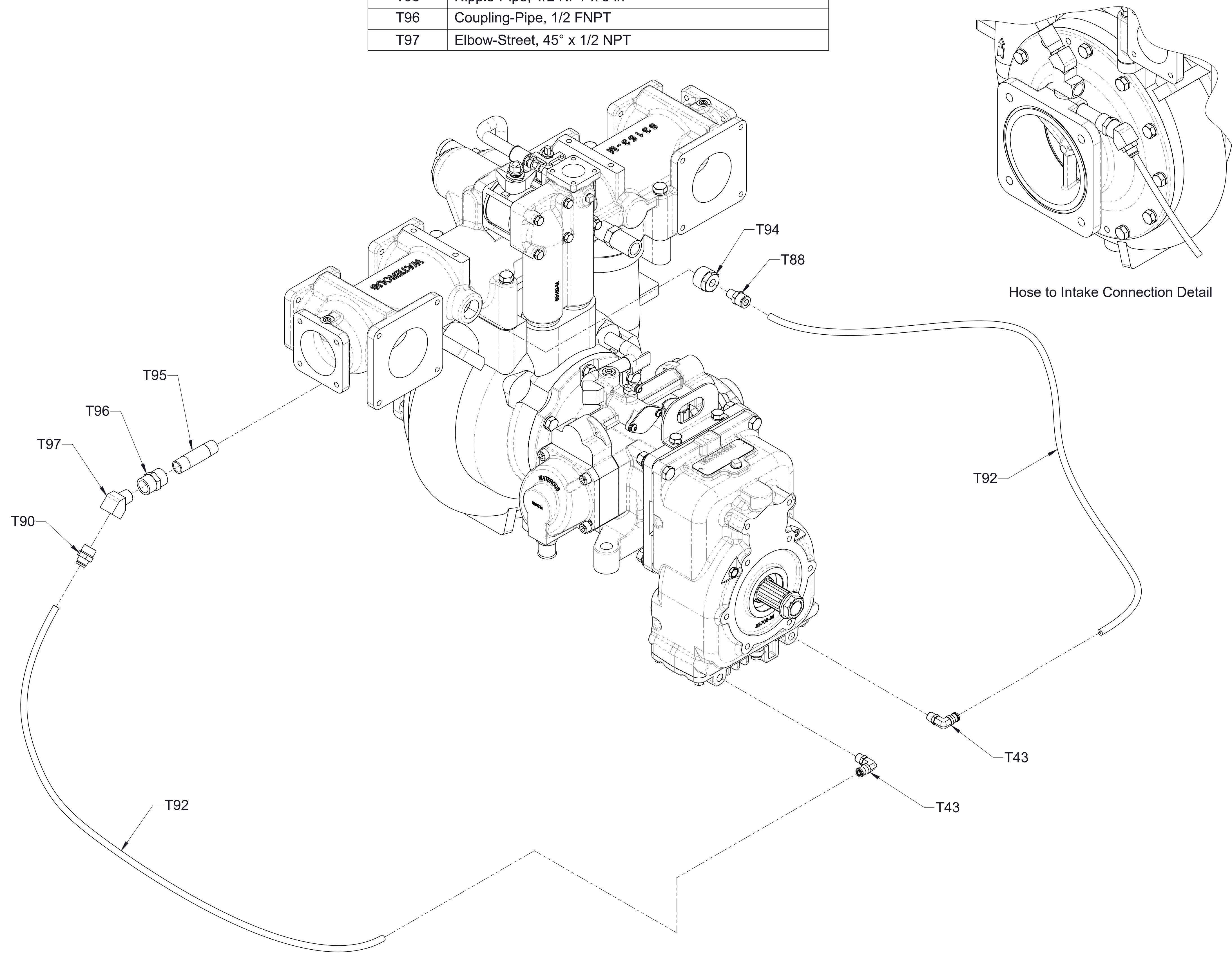


Hose to Intake Connection Detail



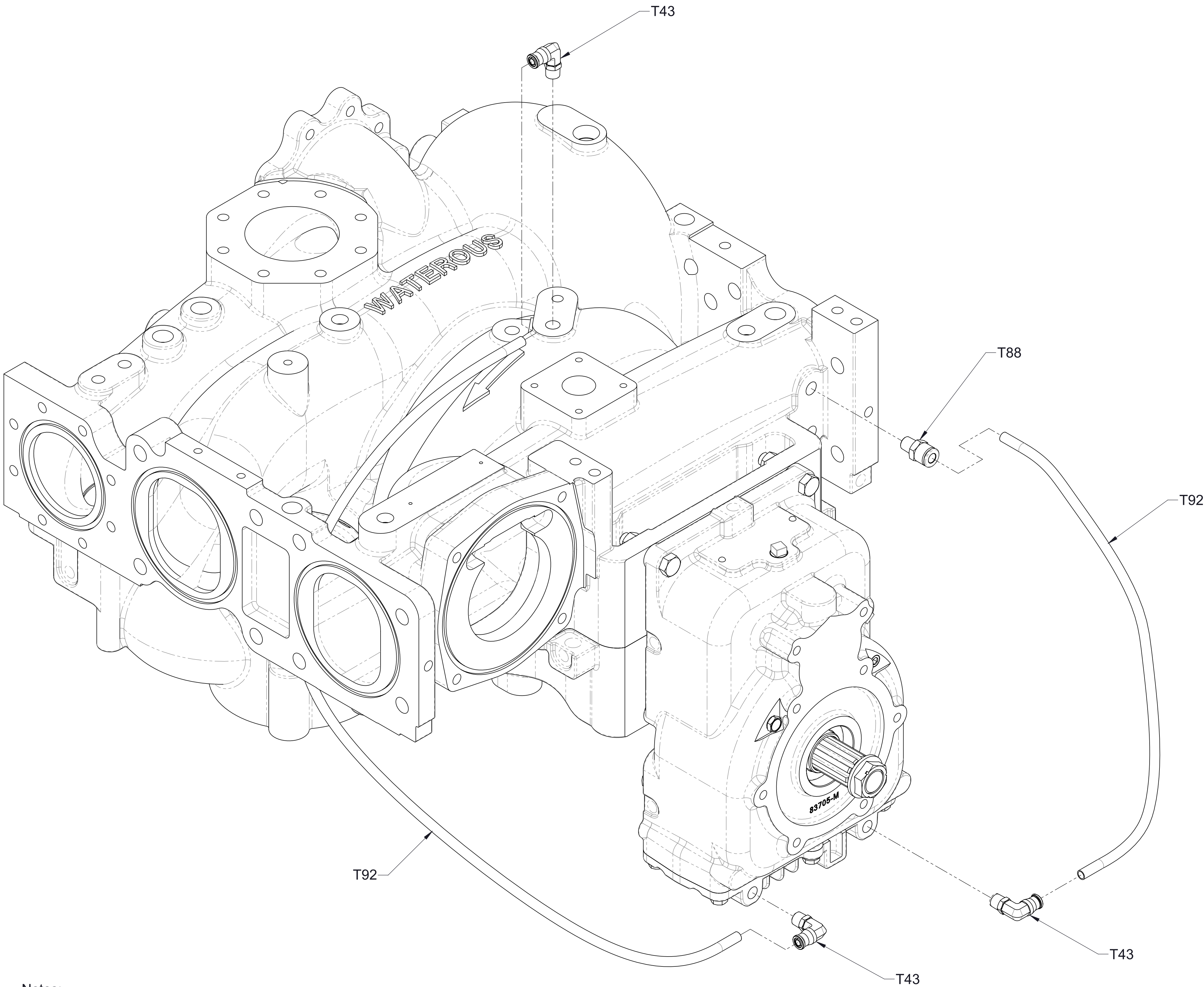
- Notes:
1. CW input and vertical transmission shown.
 2. Tubing to be cut to required length depending on input rotation and transmission orientation.
 3. Route hoses so water drains either through pump or oil cooler
 4. Cooler lines feeding into oil cooler may be swapped for a better hose routing in certain configurations.

Ref No.	Description
T43	Fitting-Elbow, 3/8 PTC x 1/4 MNPT, 90°
T88	Adapter-3/8 PTC x 1/4 MNPT
T90	Adapter-Straight 3/8 PTC x 1/2 MNPT
T92	Tubing-Air Brake, 3/8 in, Green
T94	Bushing-Reducing, 1 MNPT x 1/4 FNPT
T95	Nipple-Pipe, 1/2 NPT x 3 in
T96	Coupling-Pipe, 1/2 FNPT
T97	Elbow-Street, 45° x 1/2 NPT



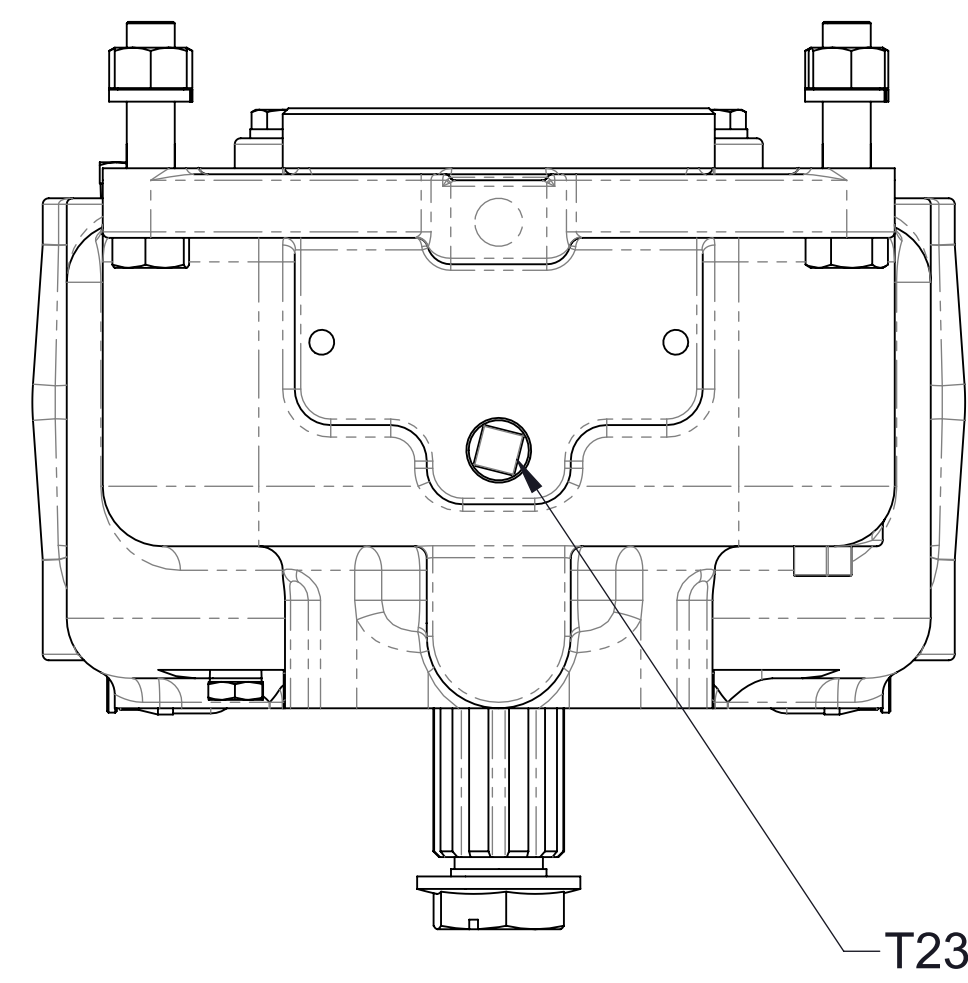
- Notes:
1. CW input and vertical transmission shown.
 2. Tubing to be cut to required length depending on input rotation and transmission orientation.
 3. Route hoses so water drains either through pump or oil cooler
 4. Cooler lines feeding into oil cooler may be swapped for a better hose routing in certain configurations.

Ref No.	Description
T43	Fitting-Elbow, 3/8 PTC x 1/4 MNPT, 90°
T88	Adapter-3/8 PTC x 1/4 MNPT
T92	Tubing, 3/8, Green

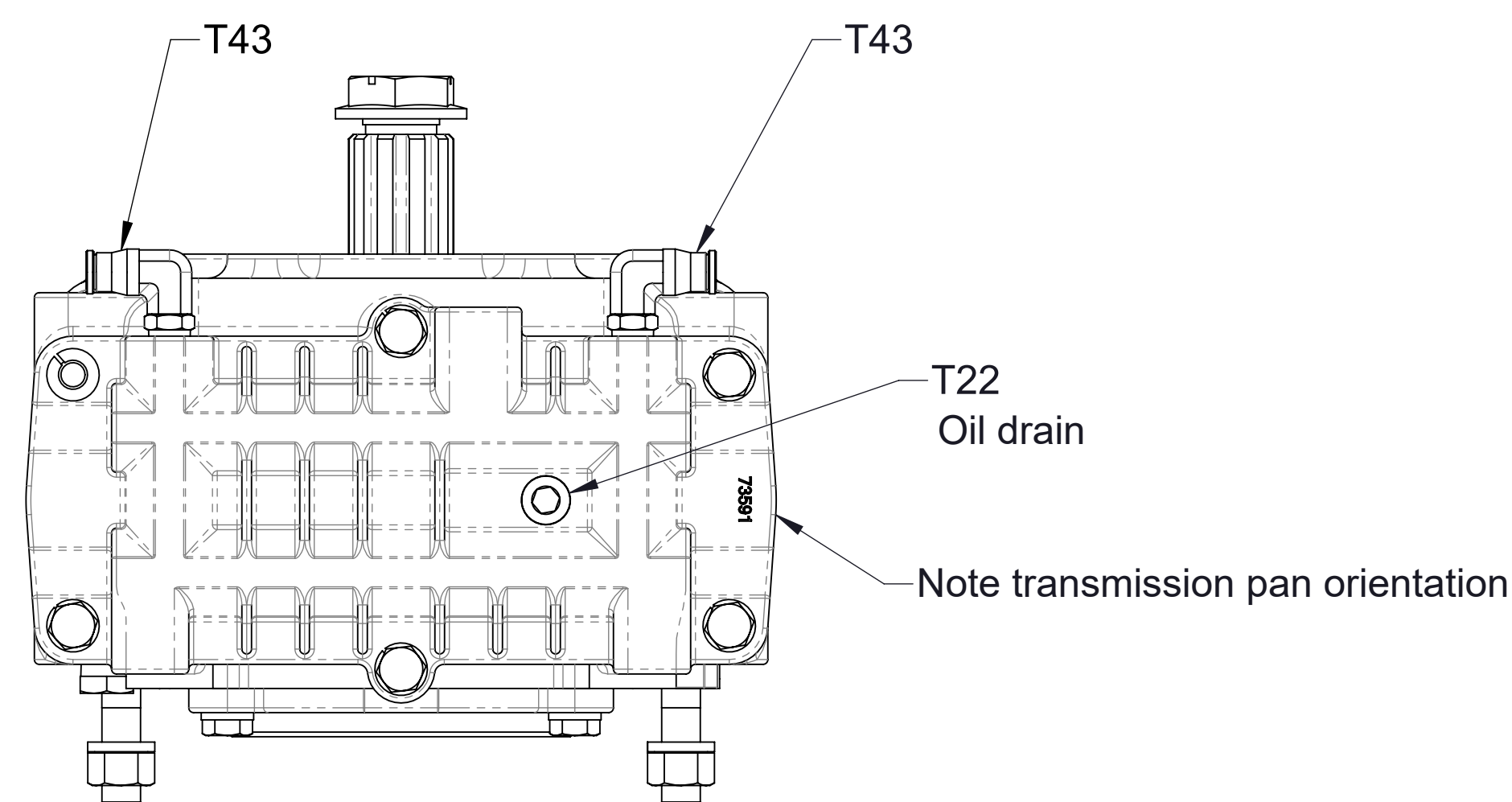
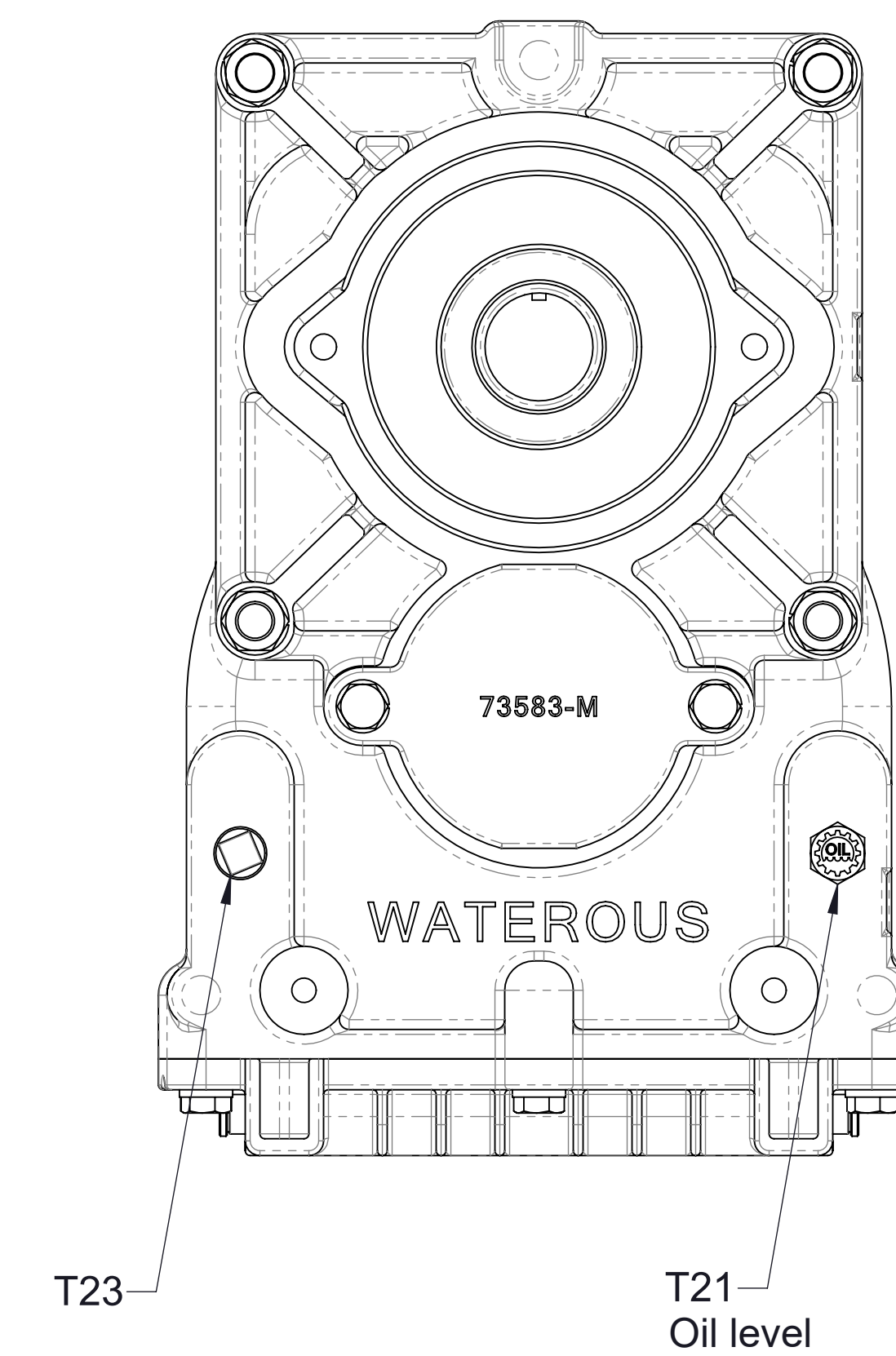
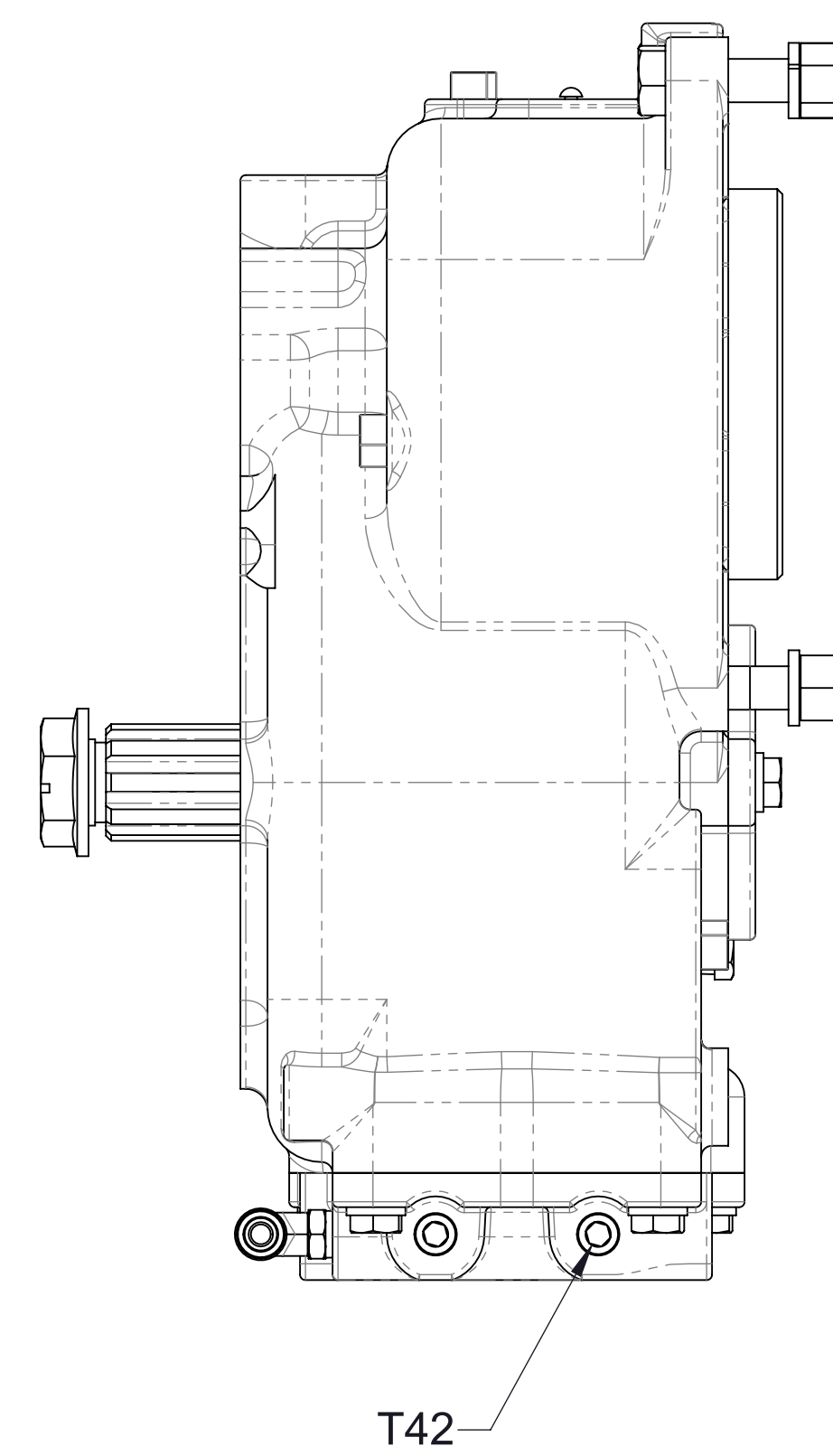
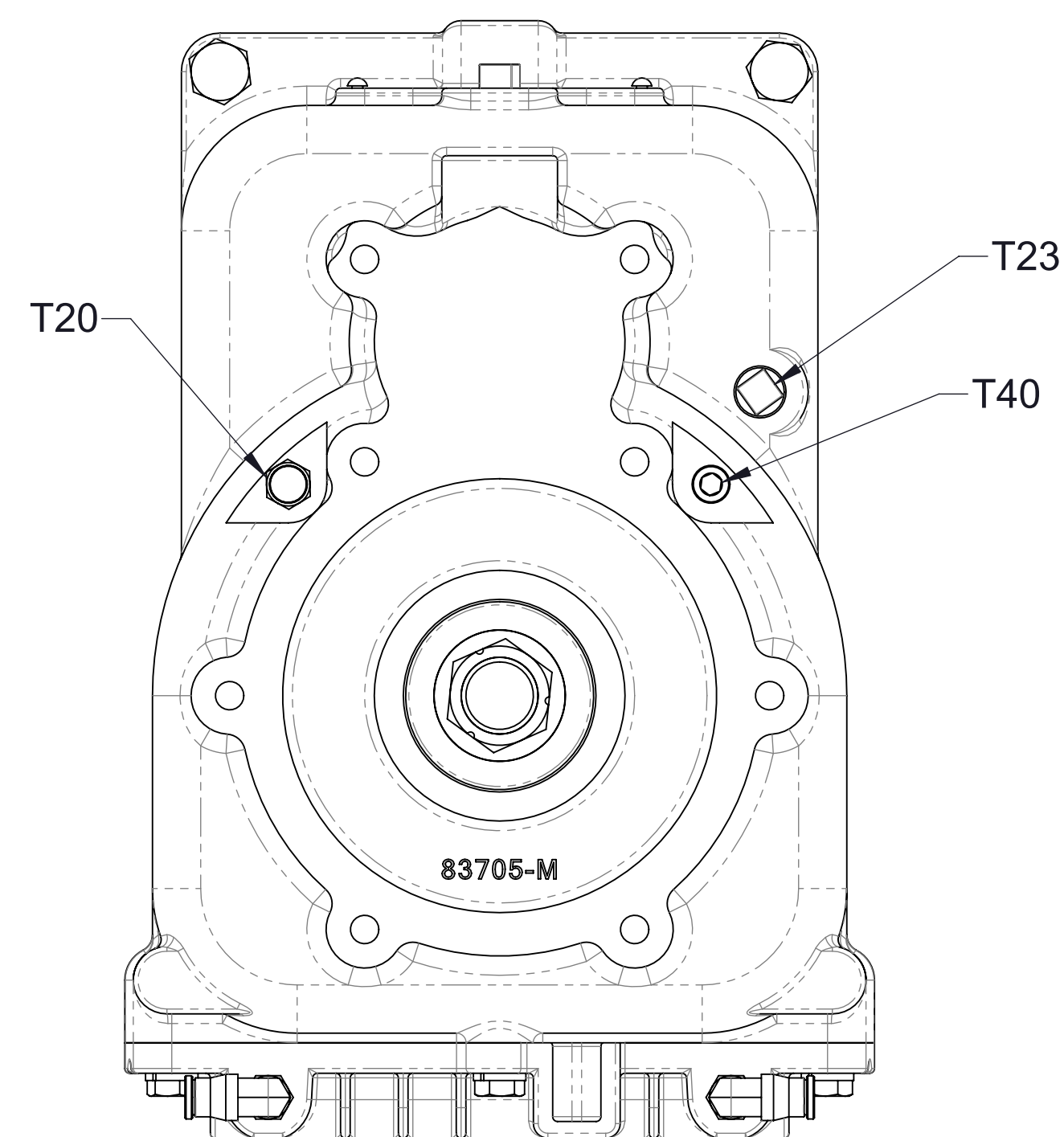


Notes:
1. Tubing to be cut to required length.
2. Route hoses so water drains either through pump or oil cooler

Oil Cooler Lines and Fittings
CM, CS



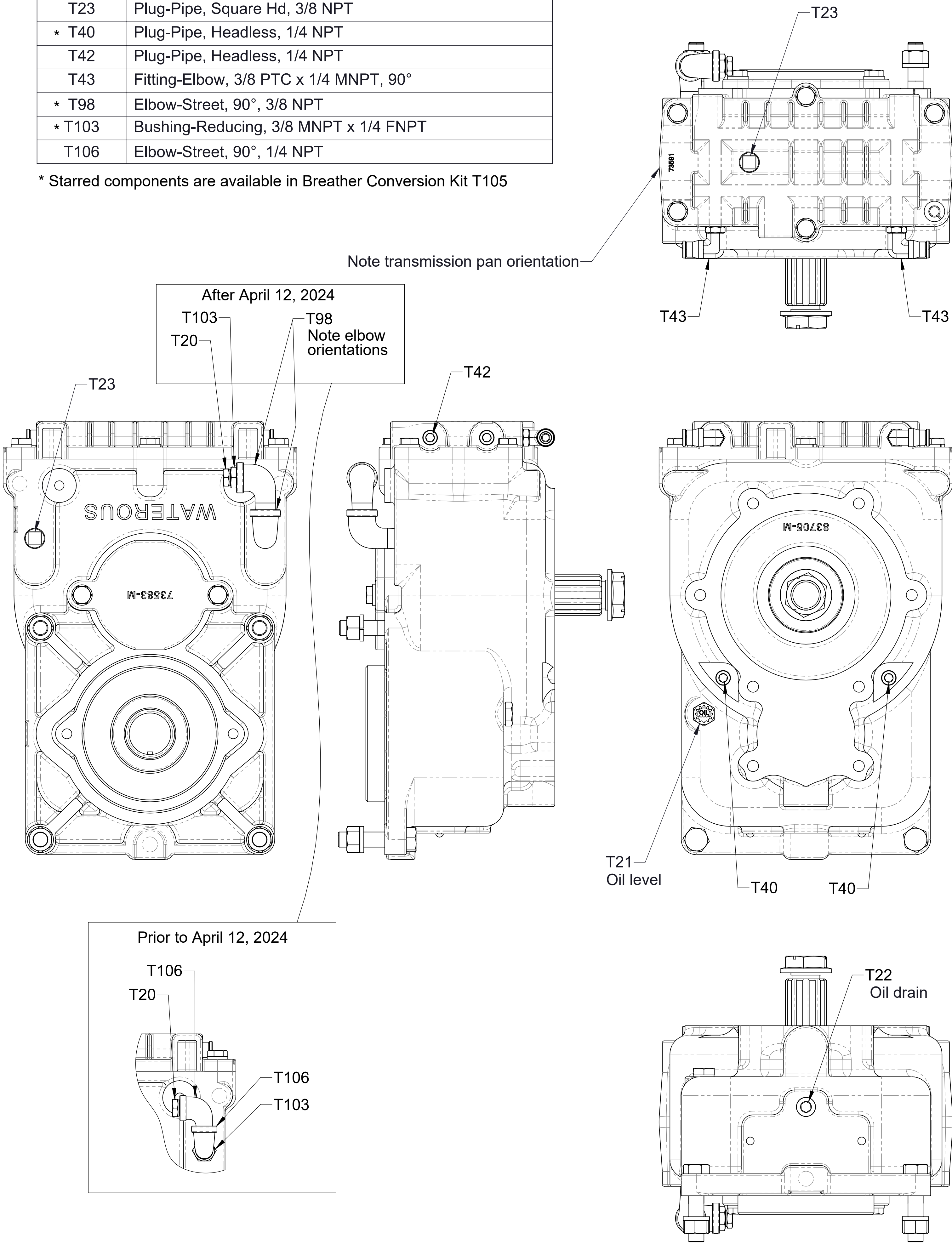
Ref No.	Description
T20	Breather, 1/4 NPT
T21	Plug-Level, Oil, 3/8
T22	Plug-Drain, Magnetic, 3/8, Headless
T23	Plug-Pipe, Square Hd, 3/8 NPT
T40	Plug-Pipe, Headless, 1/4 NPT
T42	Plug-Pipe, Headless, 1/4 NPT
T43	Fitting-Elbow, 3/8 PTC x 1/4 MNPT, 90°



Vertical
Breather, Drain, Oil Level, Plug, and Cooler Elbow Locations
Vertical Mounting Position

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
T43	Fitting-Elbow, 3/8 PTC x 1/4 MNPT, 90°
* T98	Elbow-Street, 90°, 3/8 NPT
* T103	Bushing-Reducing, 3/8 MNPT x 1/4 FNPT
T106	Elbow-Street, 90°, 1/4 NPT

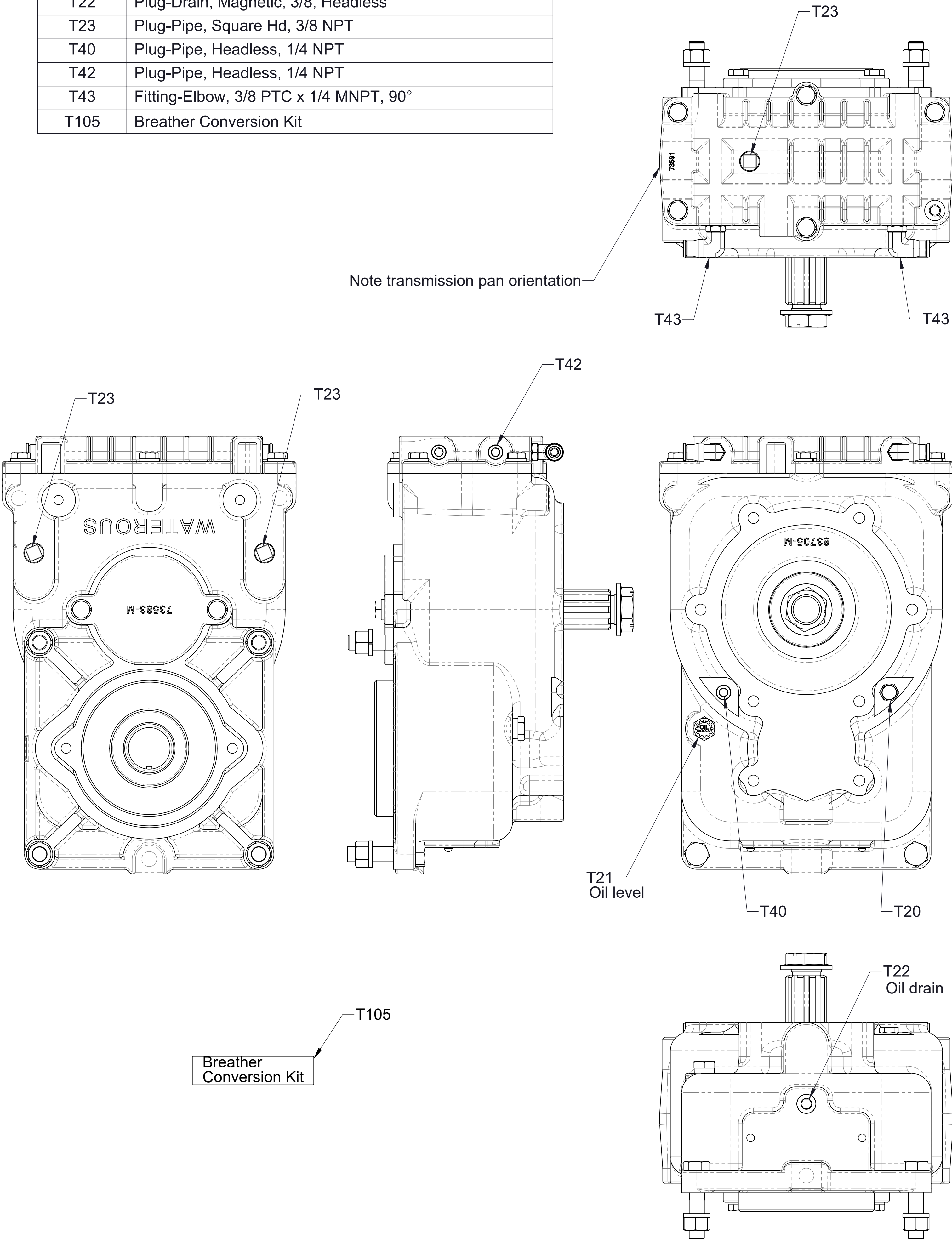
* Starred components are available in Breather Conversion Kit T105



After December 7, 2023

Breather, Drain, Oil Level, Plug, and Cooler Elbow Locations
Inverted Mounting Position

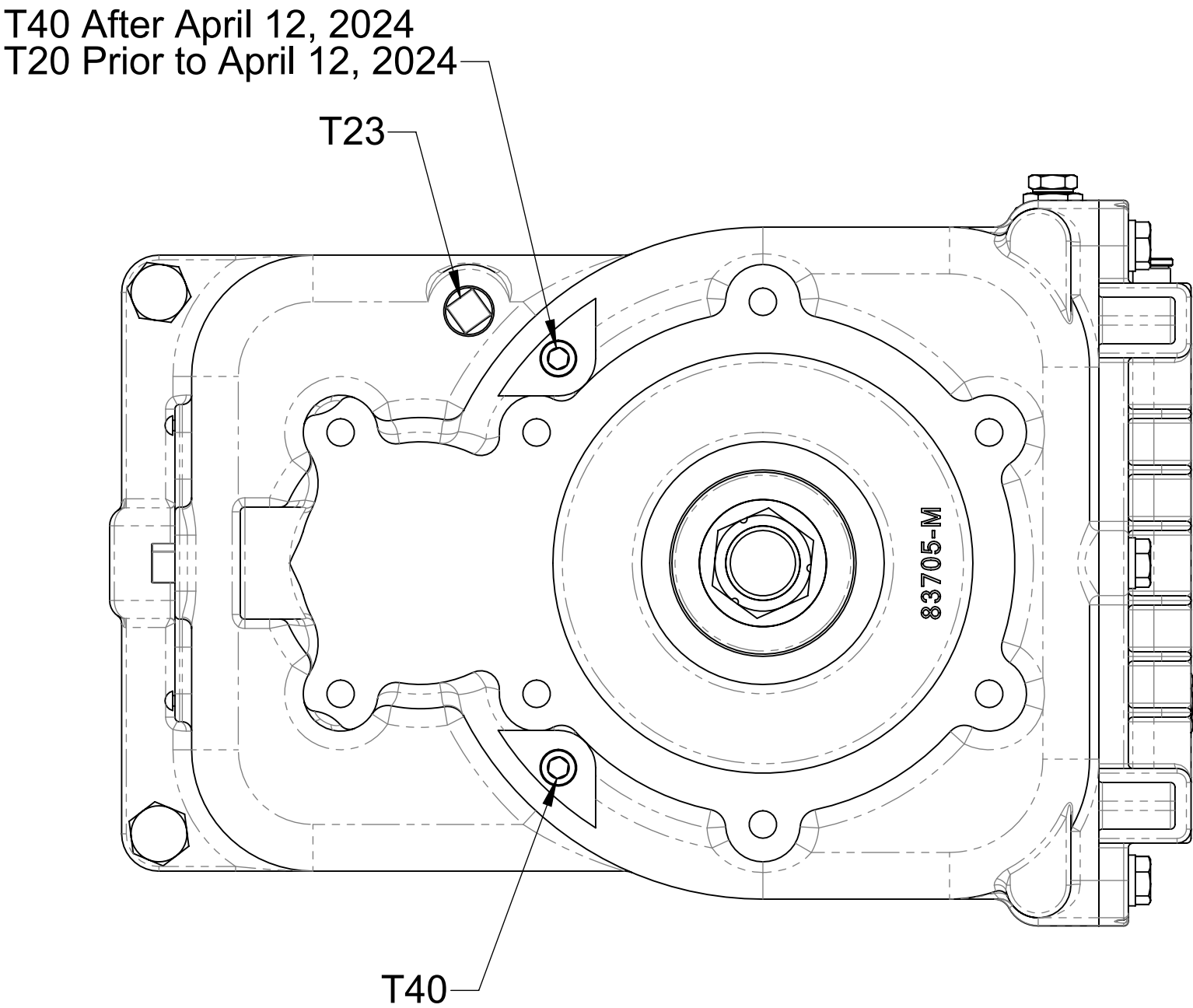
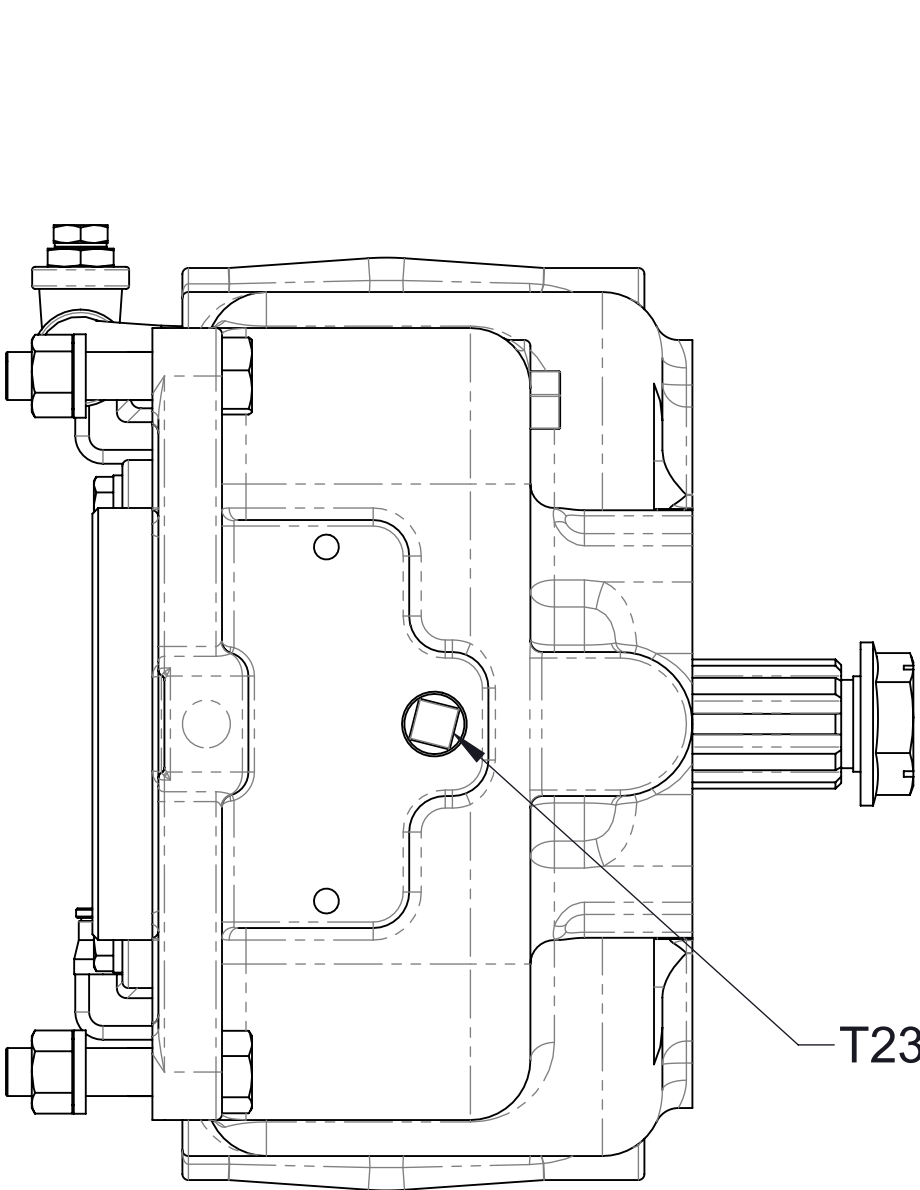
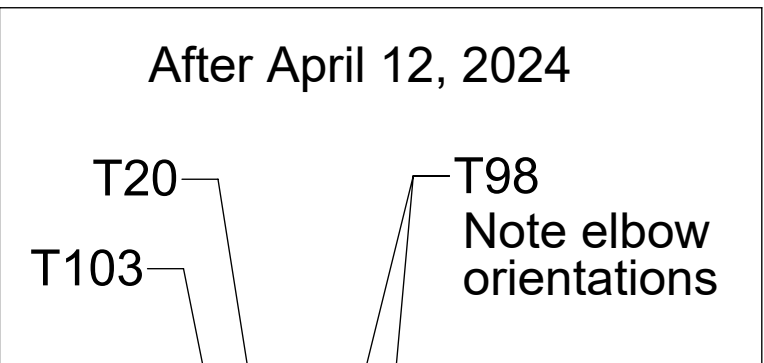
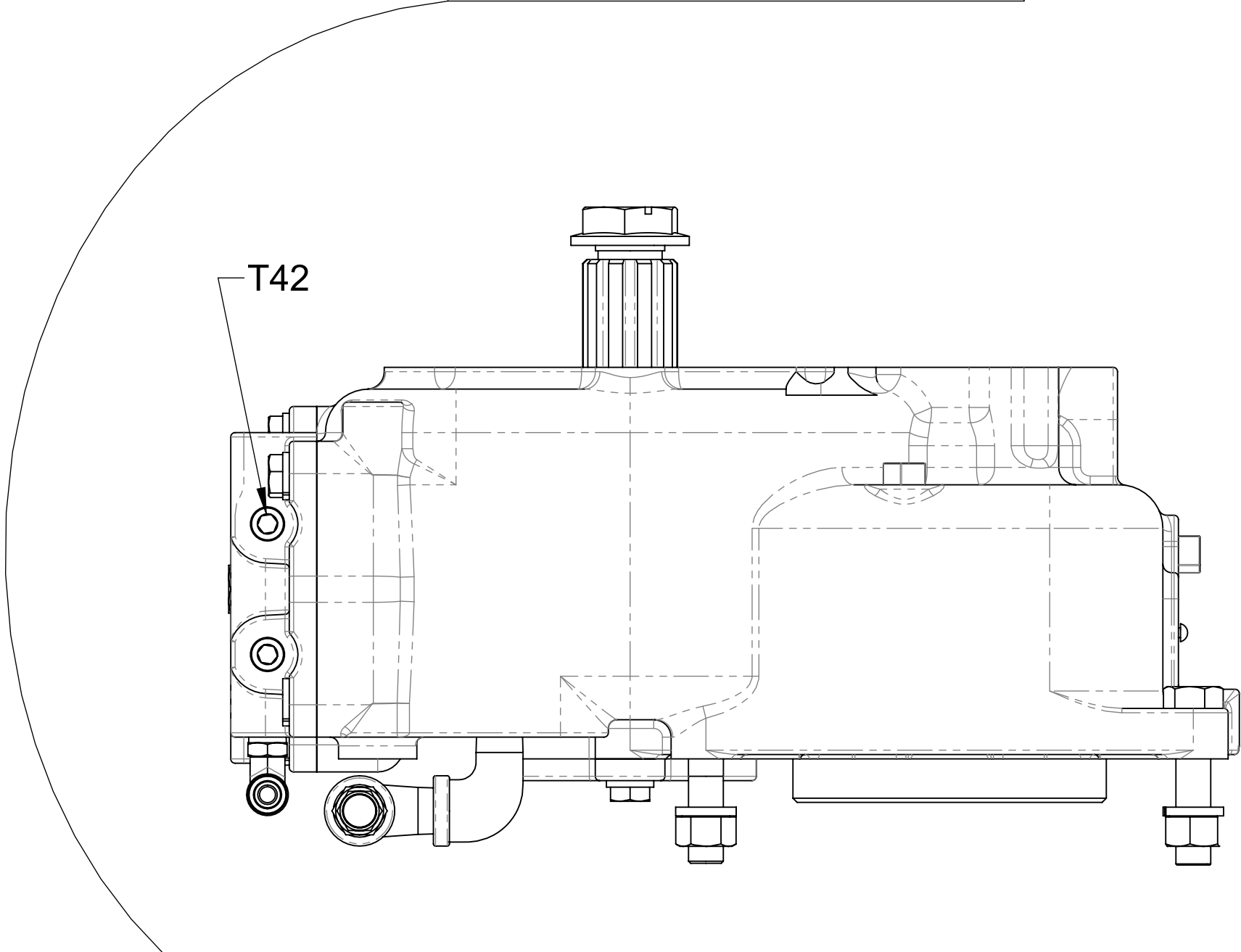
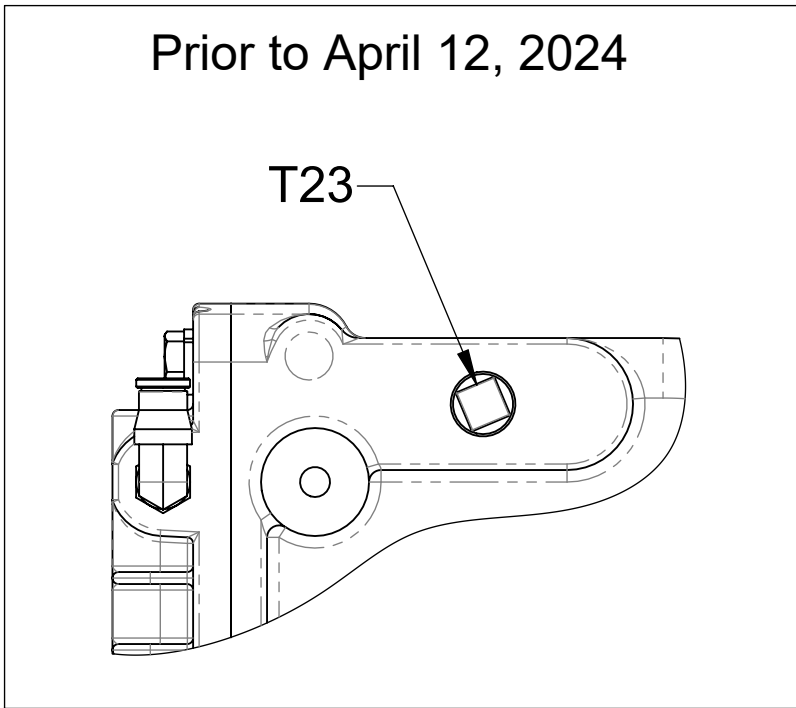
Ref No.	Description
T20	Breather, 1/4 NPT
T21	Plug-Level, Oil, 3/8
T22	Plug-Drain, Magnetic, 3/8, Headless
T23	Plug-Pipe, Square Hd, 3/8 NPT
T40	Plug-Pipe, Headless, 1/4 NPT
T42	Plug-Pipe, Headless, 1/4 NPT
T43	Fitting-Elbow, 3/8 PTC x 1/4 MNPT, 90°
T105	Breather Conversion Kit



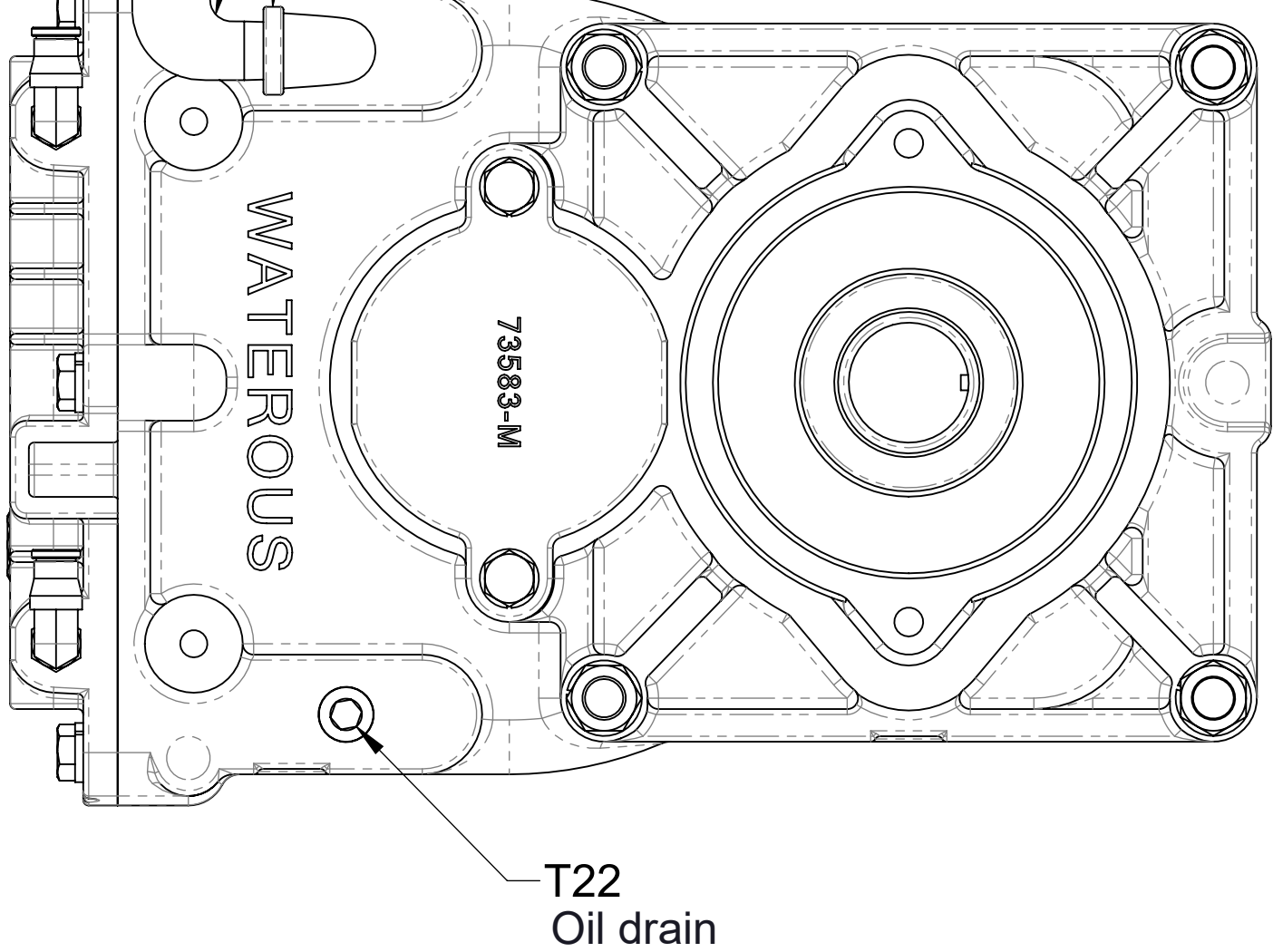
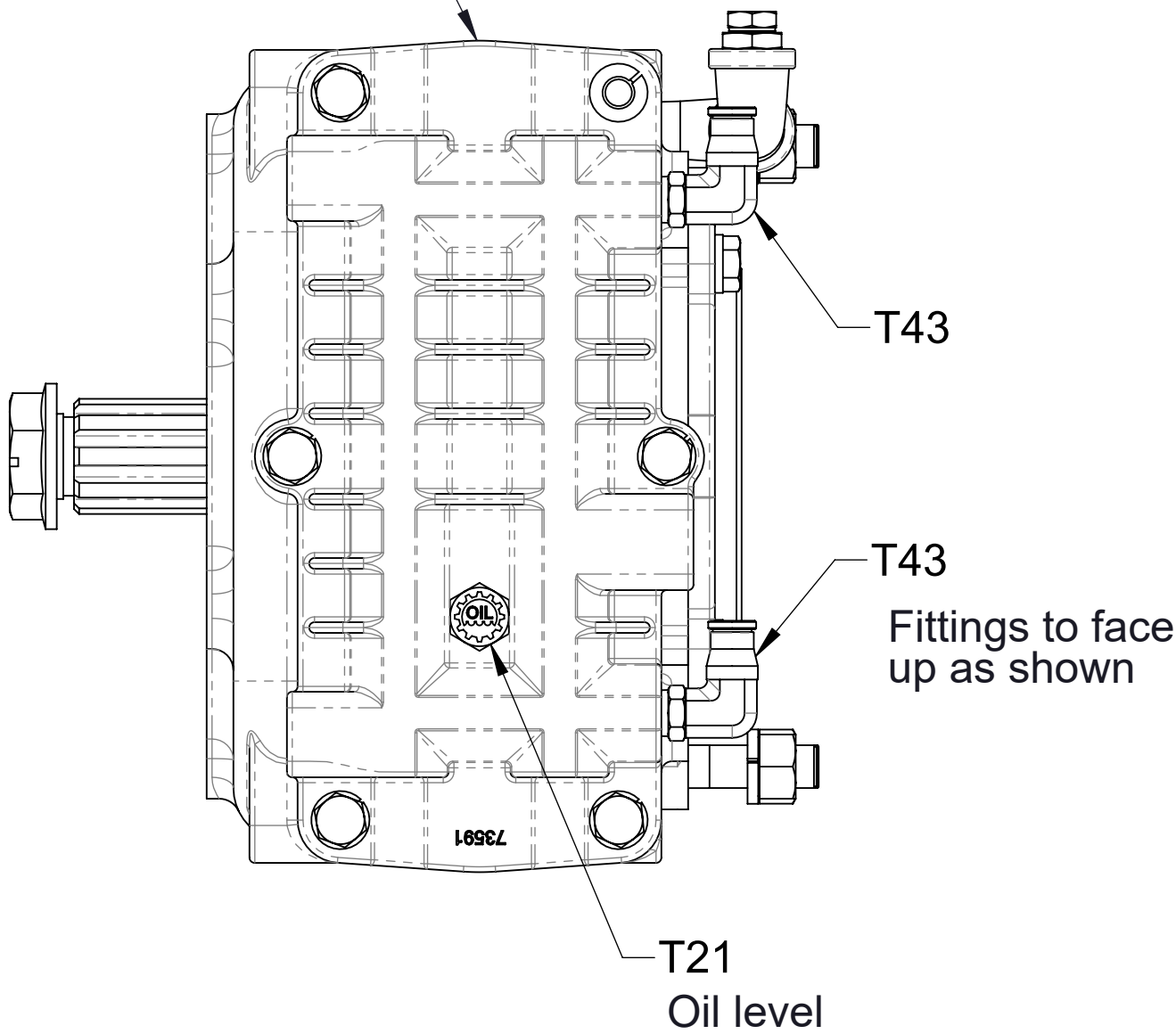
Prior to December 7, 2023

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
T43	Fitting-Elbow, 3/8 PTC x 1/4 MNPT, 90°
* T98	Elbow-Street, 90°, 3/8 NPT
* T103	Bushing-Reducing, 3/8 MNPT x 1/4 FNPT
T105	Breather Conversion Kit

* Starred components are available in Breather Conversion Kit T105

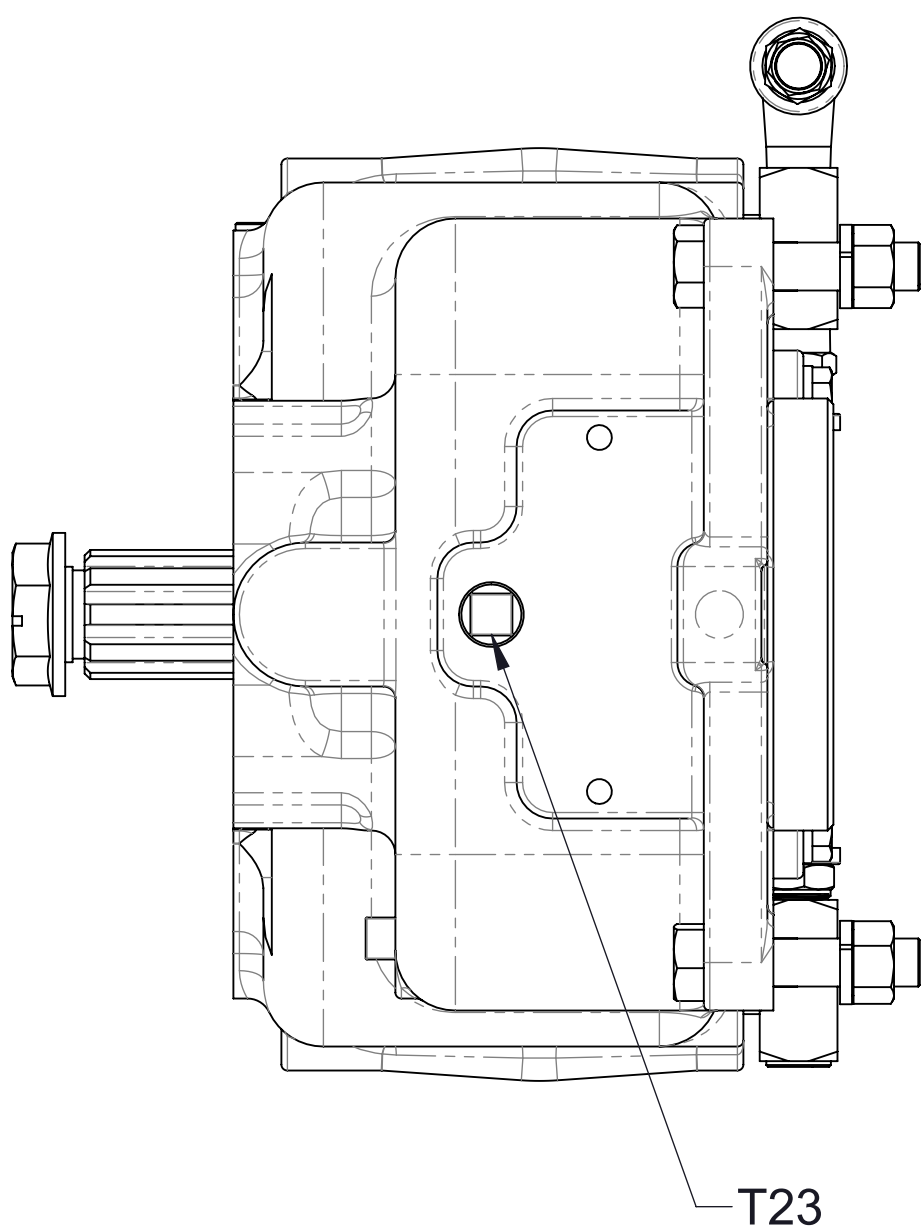
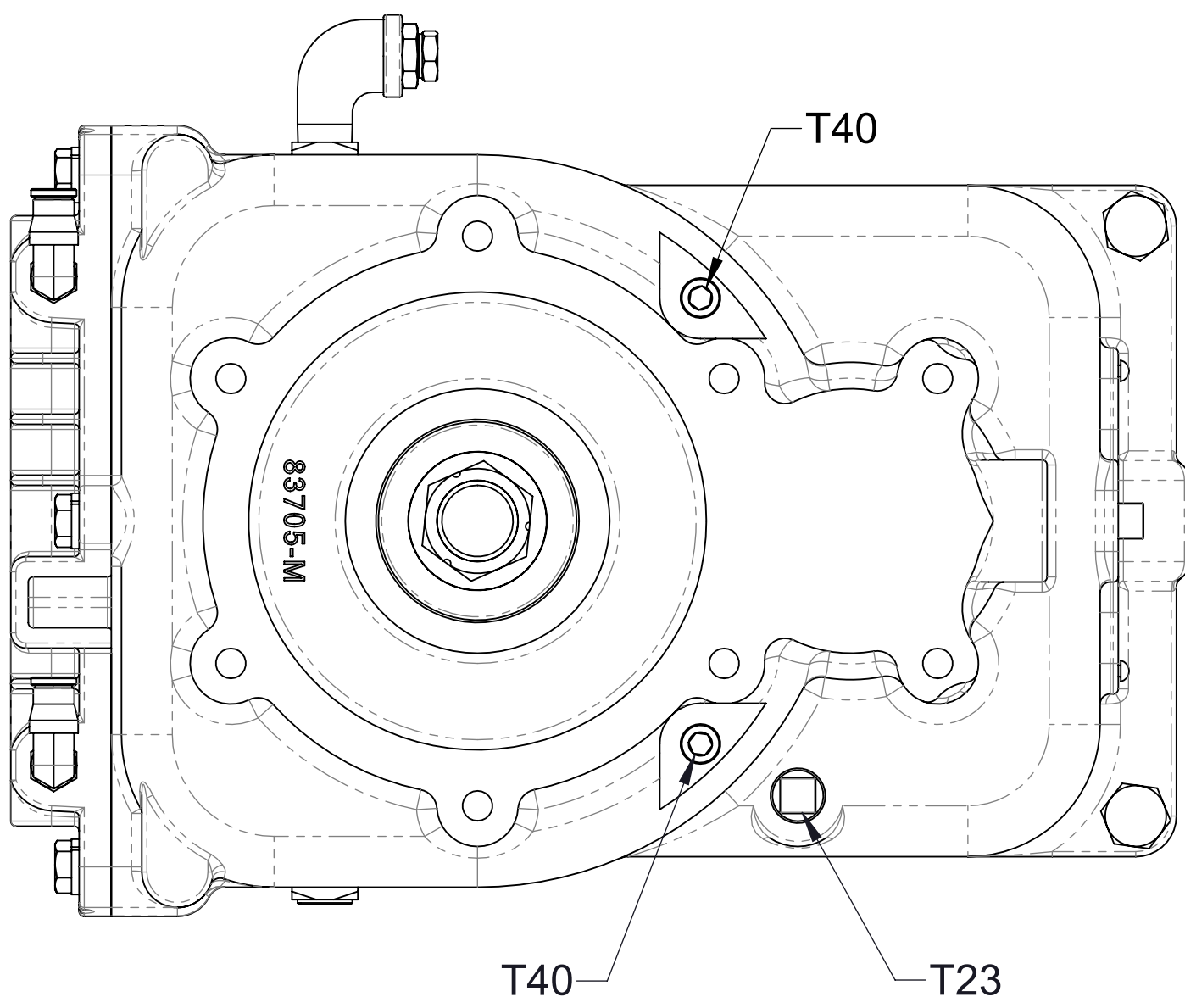
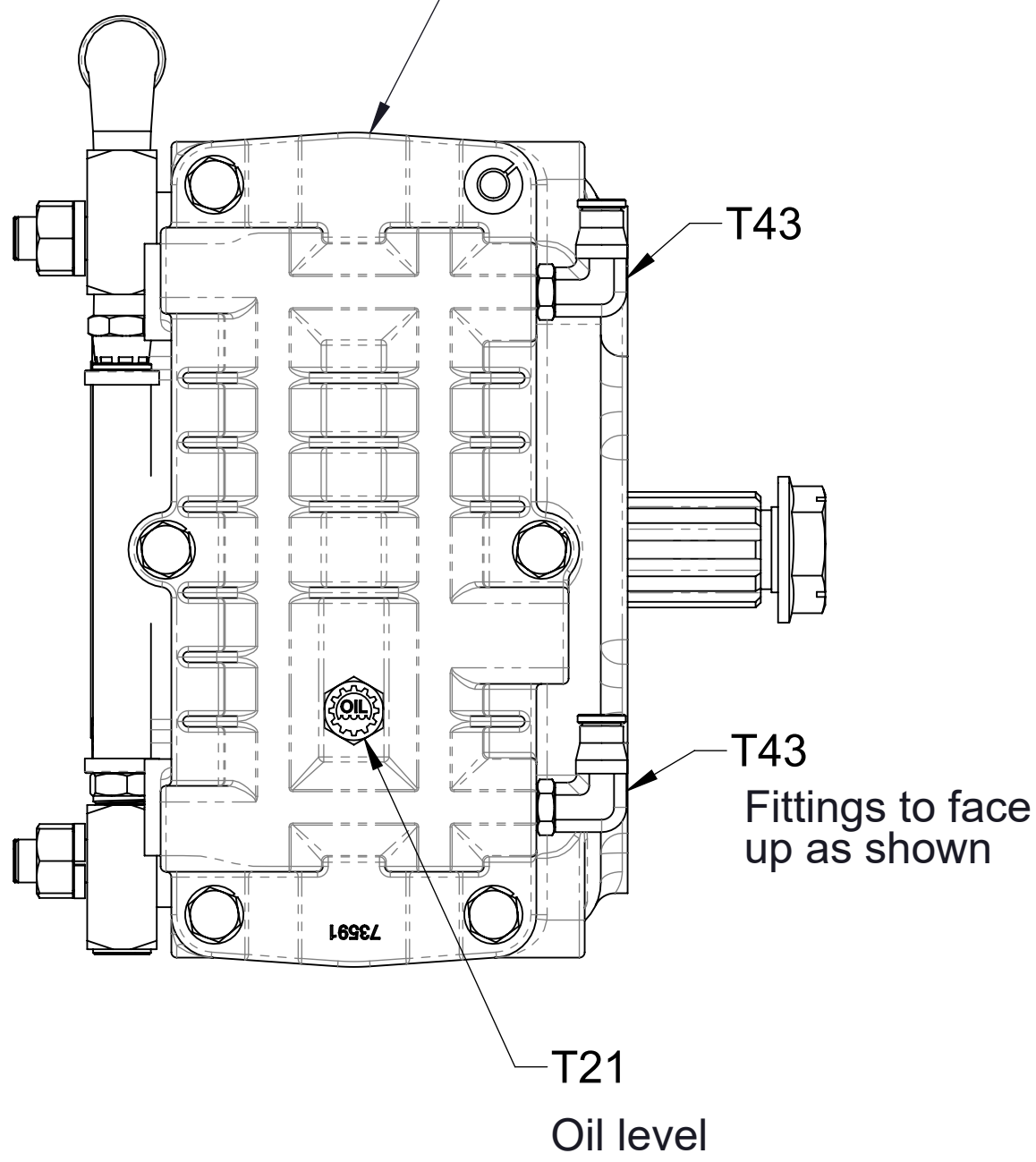


Note transmission pan orientation

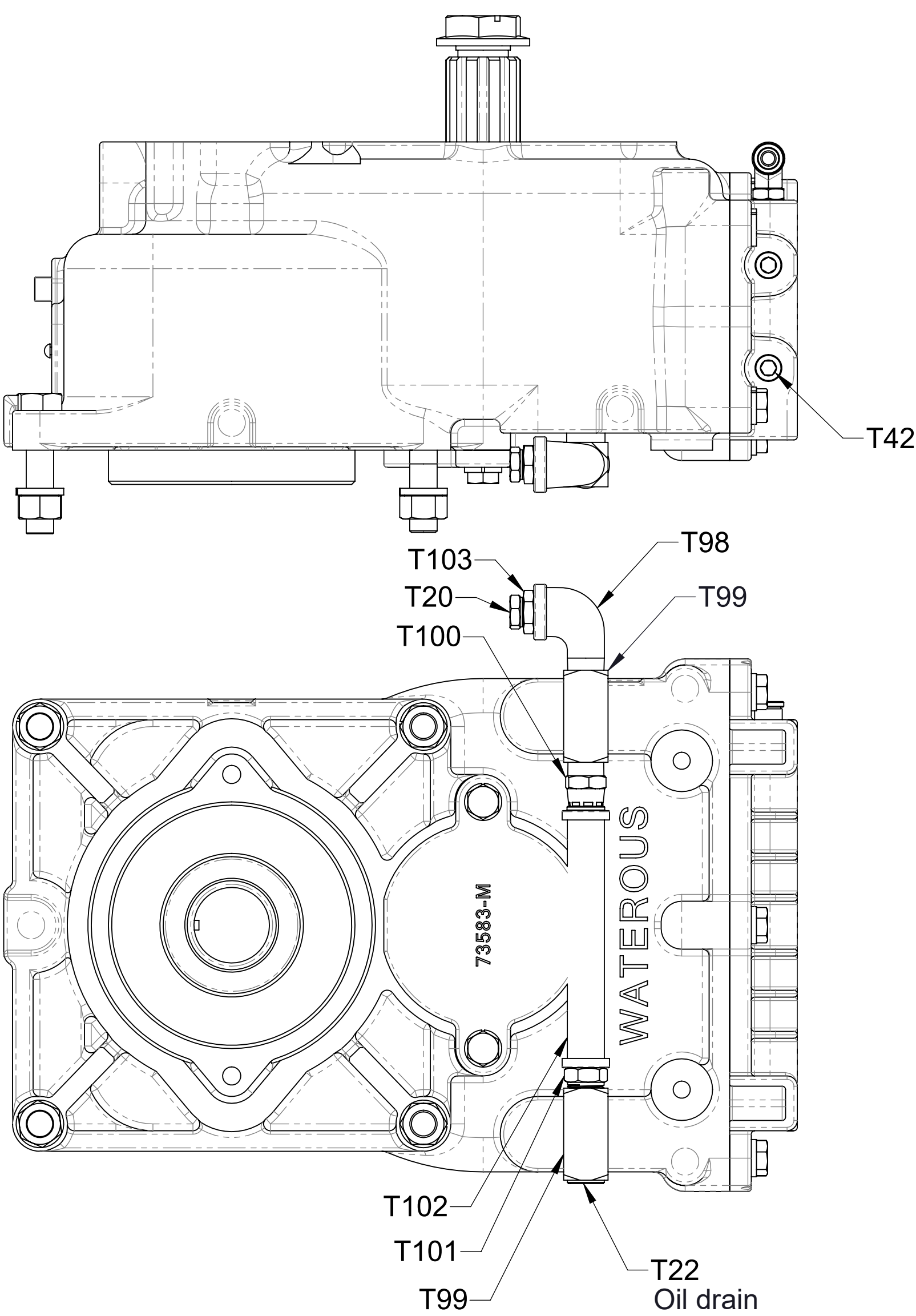


Ref No.	Description	Ref No.	Description
* T20	Breather, 1/4 NPT	* T98	Elbow-Street, 90°, 3/8 NPT
T21	Plug-Level, Oil, 3/8	* T99	Tee, 3/8 FNPT x 3/8 FNPT x 3/8 MNPT
* T22	Plug-Drain, Magnetic, 3/8, Headless	* T100	Fitting-Barbed, 3/8 Hose x 3/8 MNPT, Swivel
T23	Plug-Pipe, Square Hd, 3/8 NPT	* T101	Fitting-Barbed, 3/8 Hose x 3/8 MNPT
T40	Plug-Pipe, Headless, 1/4 NPT	* T102	Hose-Push On, 3/8
T42	Plug-Pipe, Headless, 1/4 NPT	* T103	Bushing-Reducing, 3/8 MNPT x 1/4 FNPT
T43	Fitting-Elbow, 3/8 PTC x 1/4 MNPT, 90°	* Starred components are available in Breather Conversion Kit T104	

Note transmission pan orientation



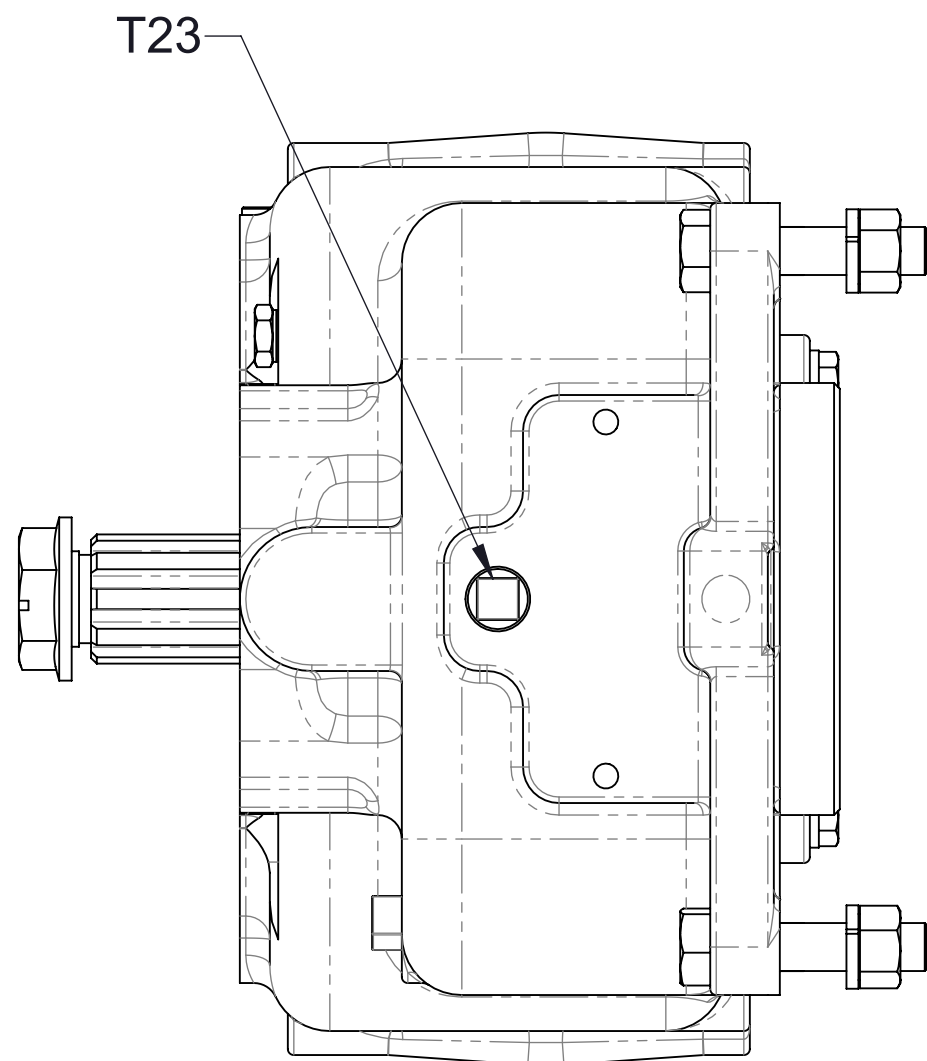
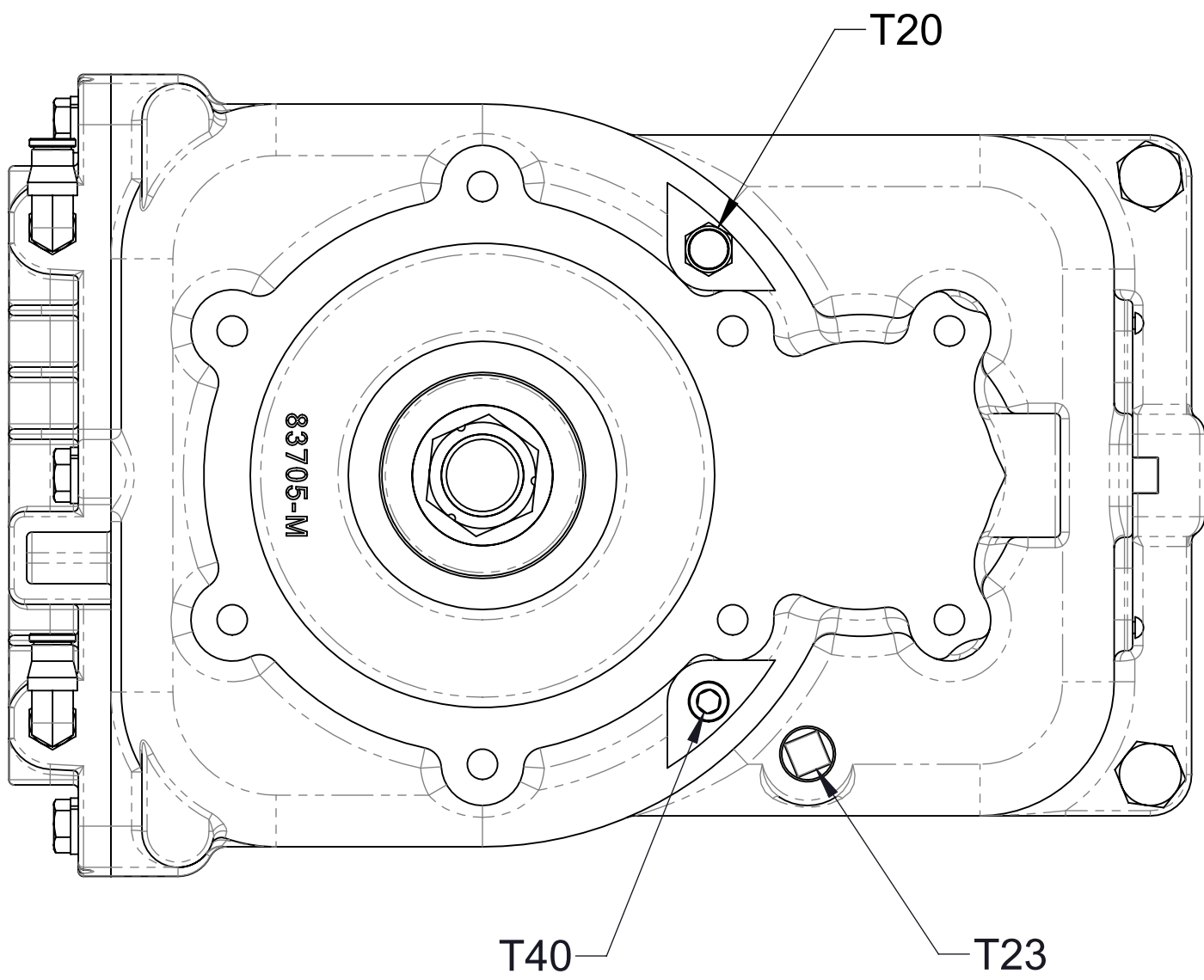
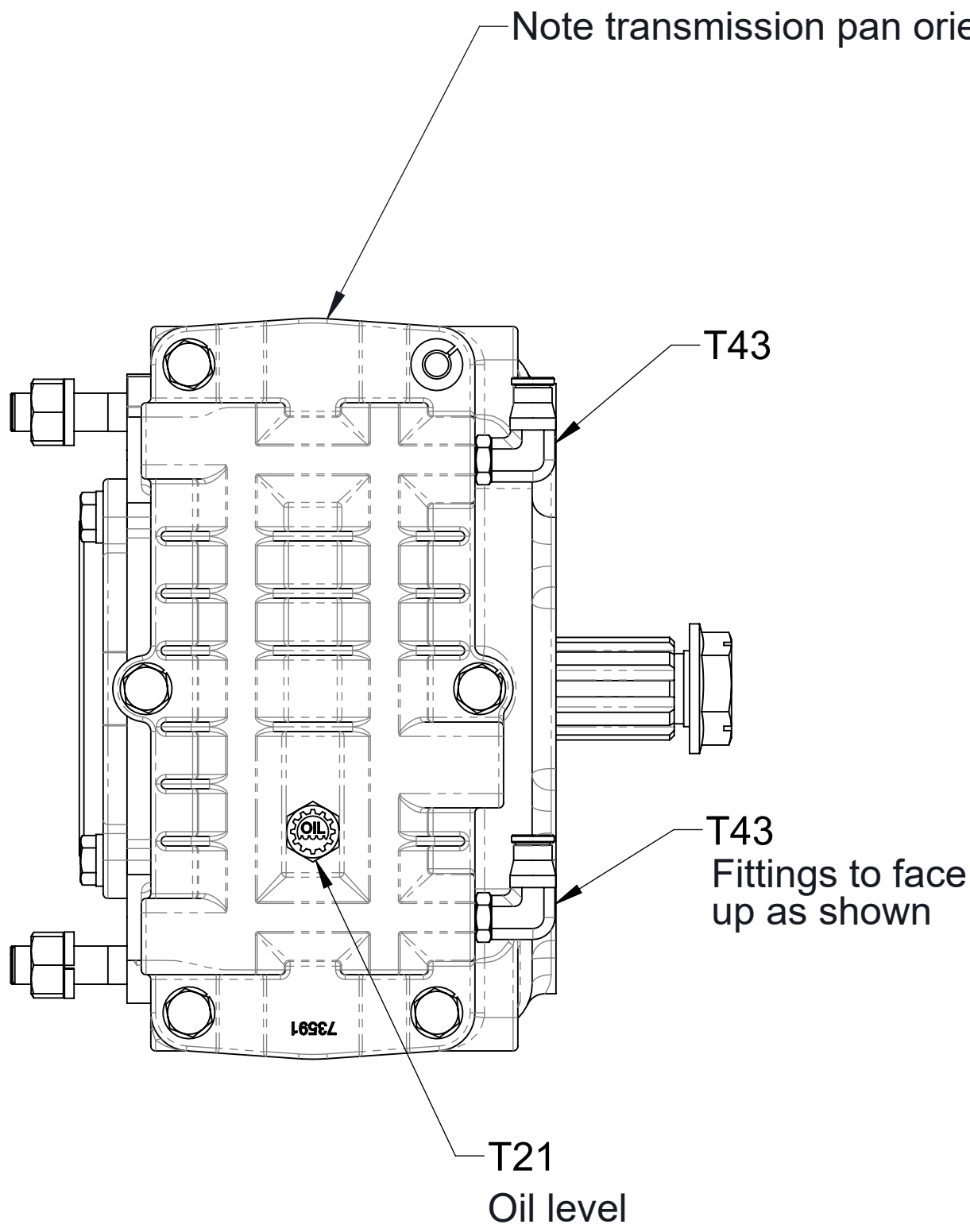
After December 7, 2023



Breather
Conversion Kit

T104

Note transmission pan orientation



Prior to December 7, 2023

