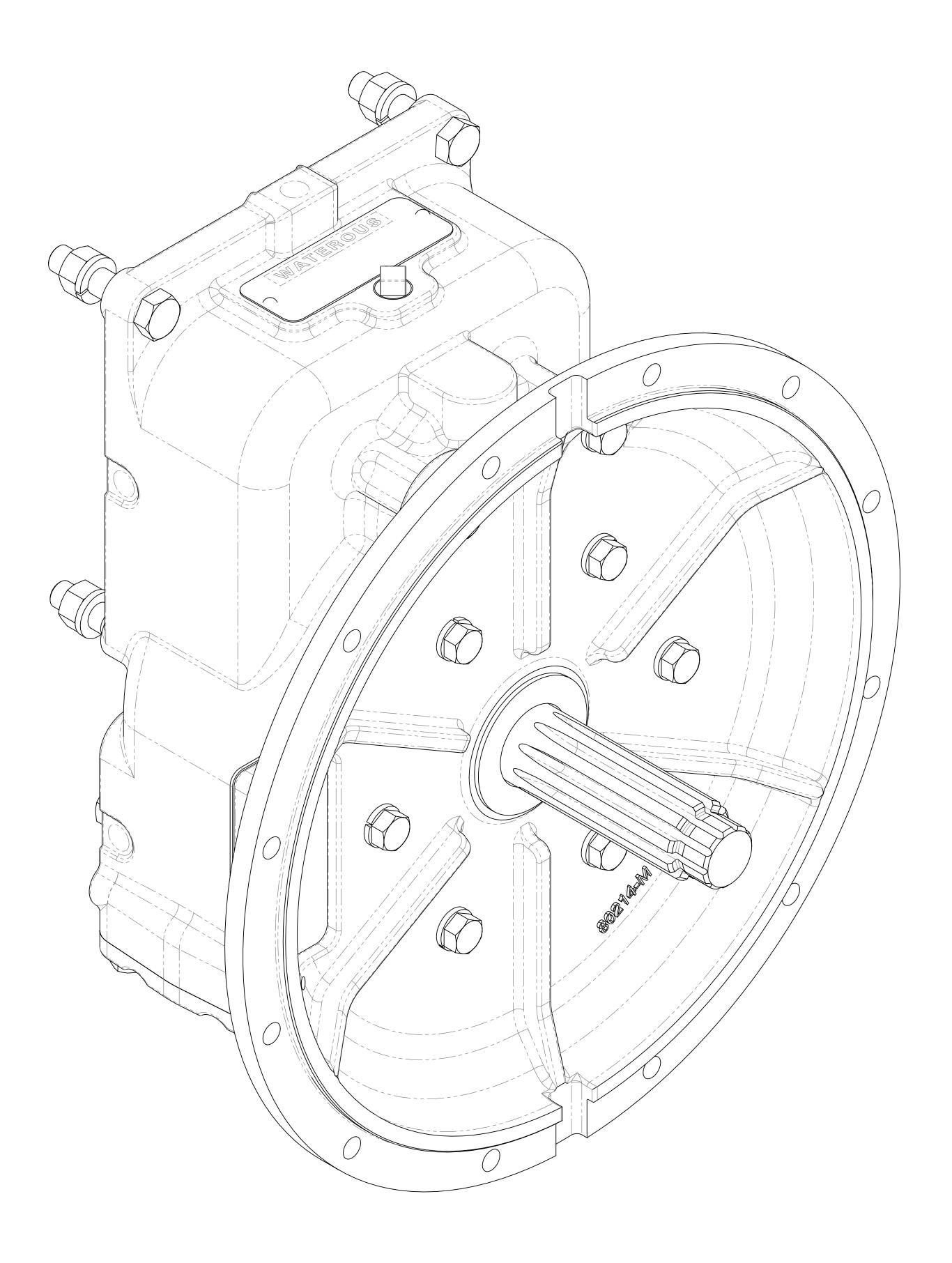
WATEROUS

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.





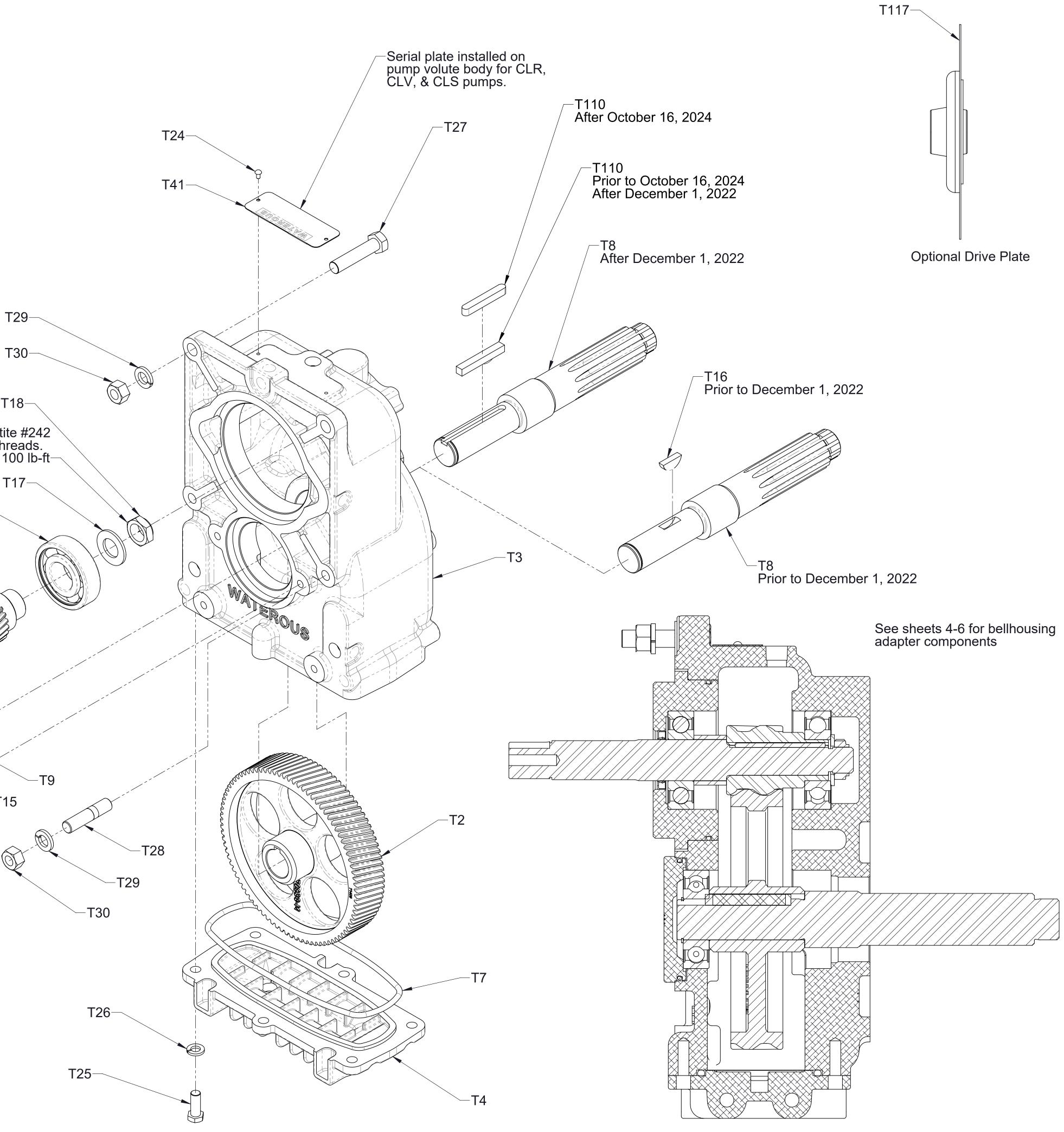
Issue Date 1/31/2020

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

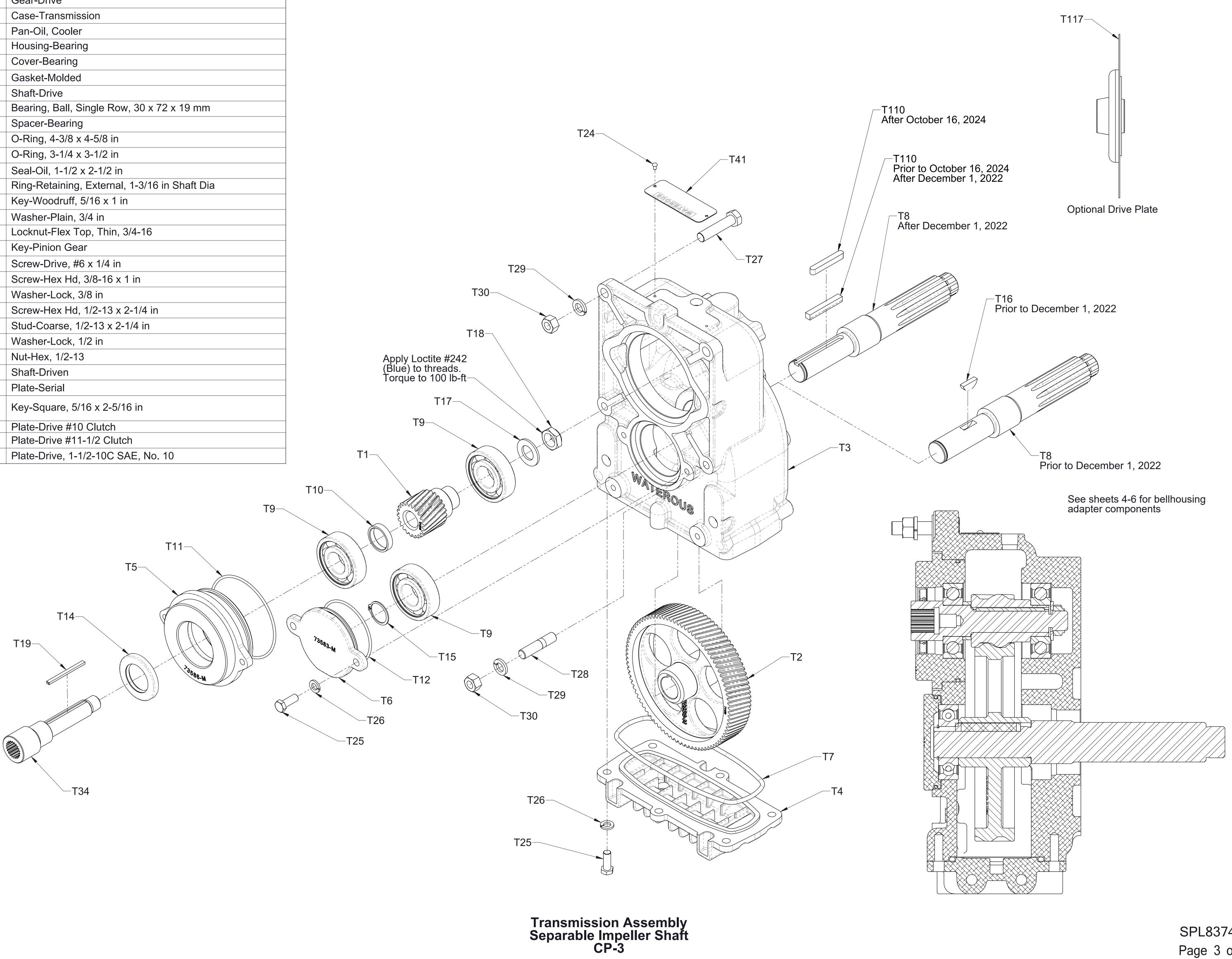


Transmission Assembly One Piece Impeller Shaft CP-2, CP-4, CLR, CLV, CLS

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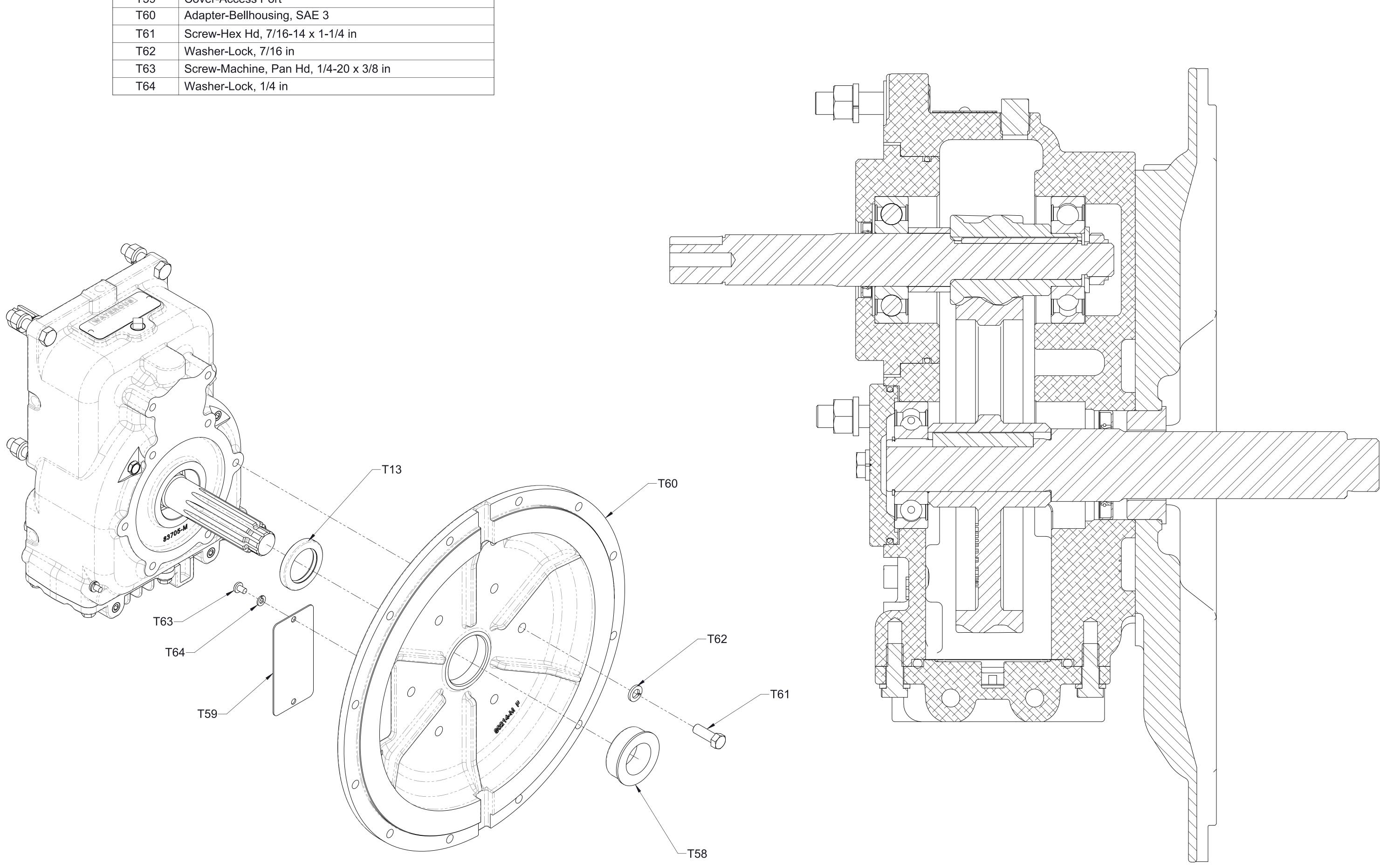
Ref No.	Description	
T1	Gear-Driven	
T2	Gear-Drive	
Т3	Case-Transmission	
T4	Pan-Oil, Cooler	
T5	Housing-Bearing	
T6	Cover-Bearing	
Τ7	Gasket-Molded	
Т8	Shaft-Drive	
Т9	Bearing, Ball, Single Row, 30 x 72 x 19 mm	
T10	Spacer-Bearing	
T11	O-Ring, 4-3/8 x 4-5/8 in	
T12	O-Ring, 3-1/4 x 3-1/2 in	
T14	Seal-Oil, 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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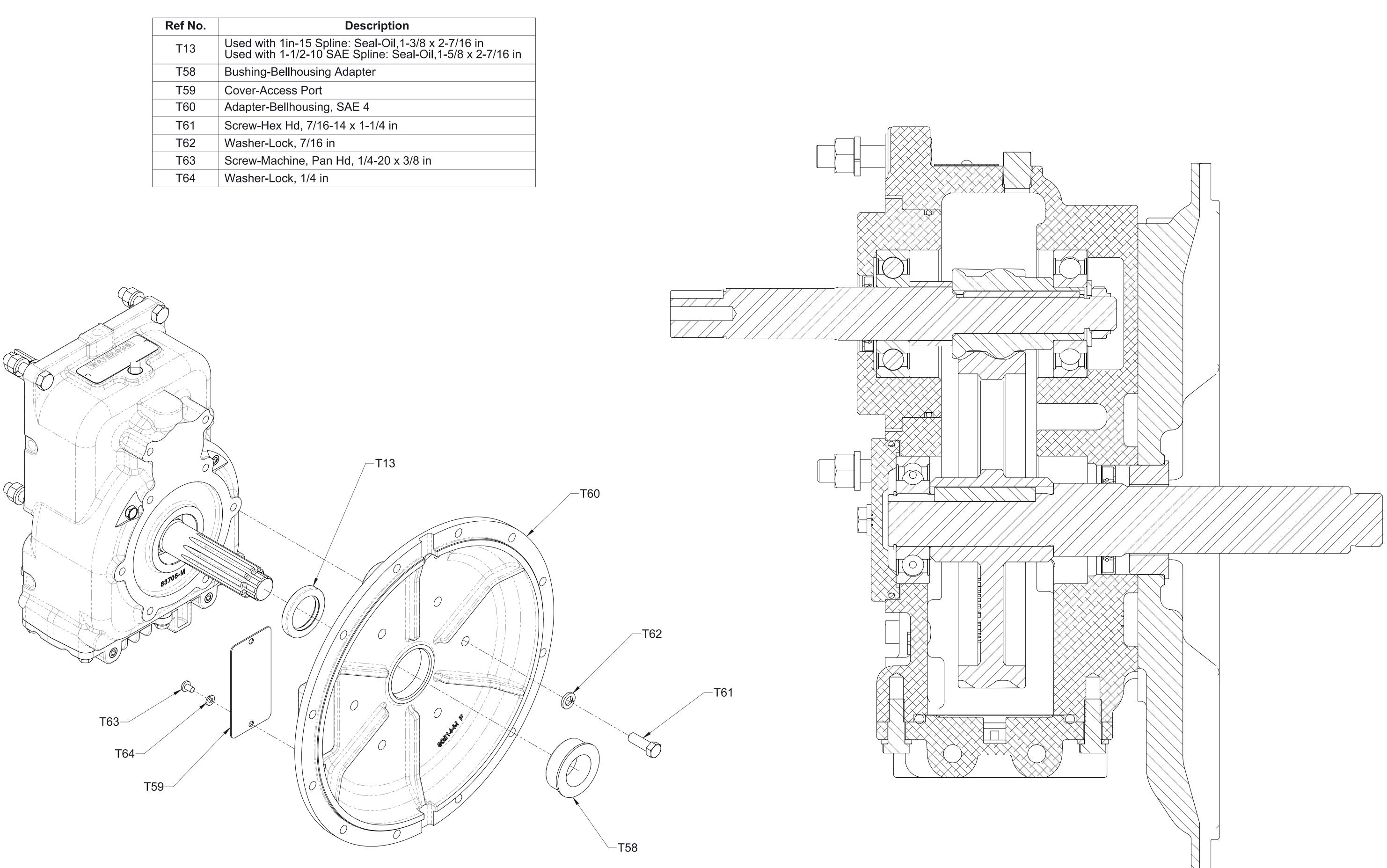
Ref No.	Description
T13	Seal-Oil, 1-5/8 x 2-7/16 in
T58	Bushing-Bellhousing Adapter
T59	Cover-Access Port
T60	Adapter-Bellhousing, SAE 3
T61	Screw-Hex Hd, 7/16-14 x 1-1/4 in
T62	Washer-Lock, 7/16 in
T63	Screw-Machine, Pan Hd, 1/4-20 x 3/8 in
T64	Washer-Lock, 1/4 in



Transmission Assembly SAE - 3 Bellhousing Adapter

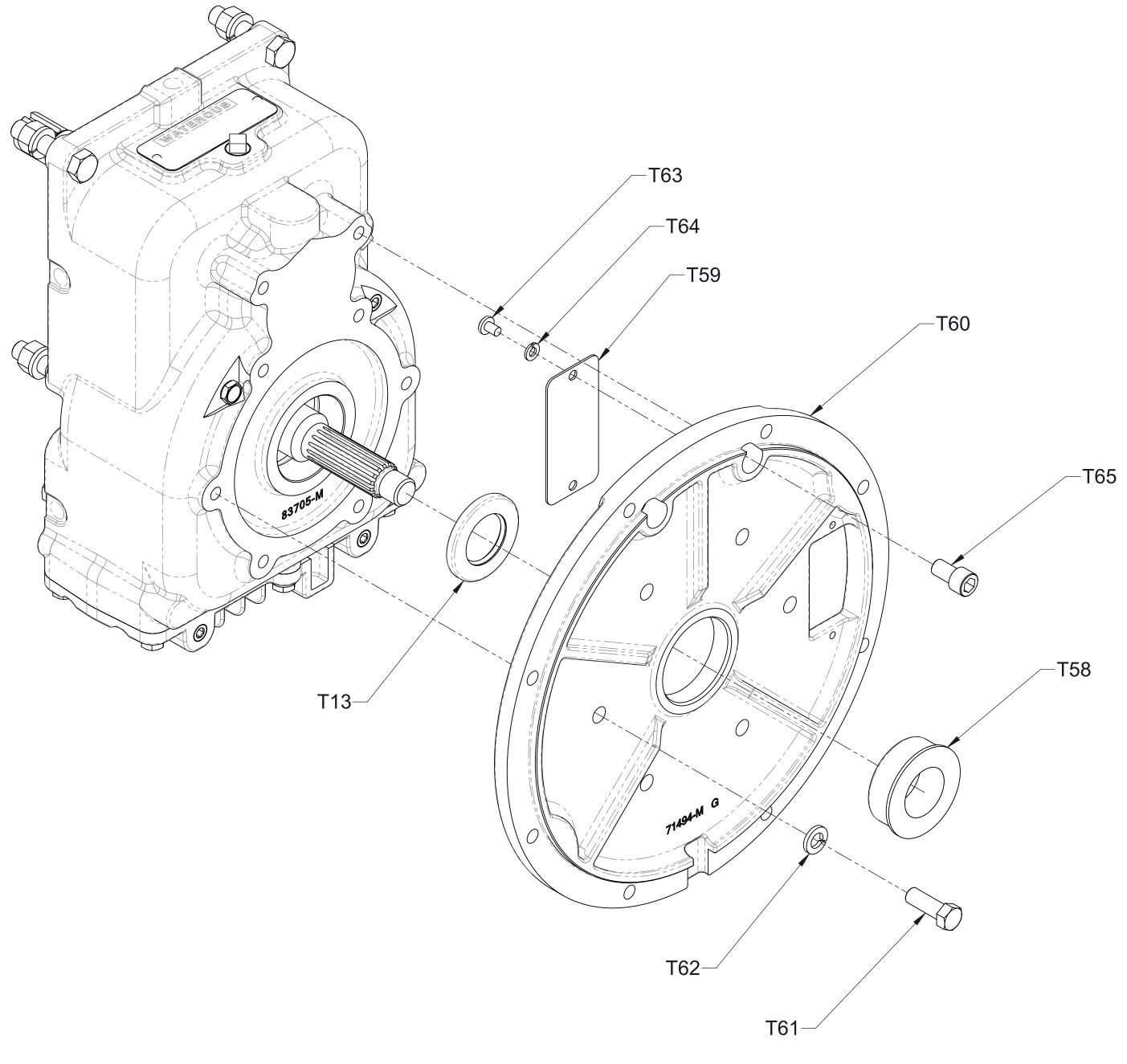
SPL83742 Page 4 of 10

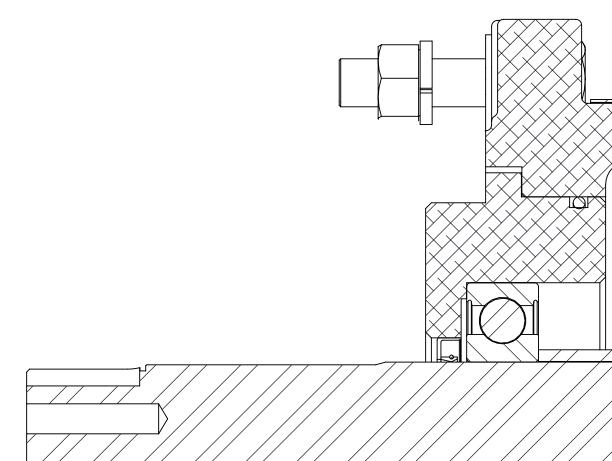
Ref No.	Description
T13	Used with 1in-15 Spline: Seal-Oil,1-3/8 x 2-7 Used with 1-1/2-10 SAE Spline: Seal-Oil,1-5/
T58	Bushing-Bellhousing Adapter
T59	Cover-Access Port
T60	Adapter-Bellhousing, SAE 4
T61	Screw-Hex Hd, 7/16-14 x 1-1/4 in
T62	Washer-Lock, 7/16 in
T63	Screw-Machine, Pan Hd, 1/4-20 x 3/8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

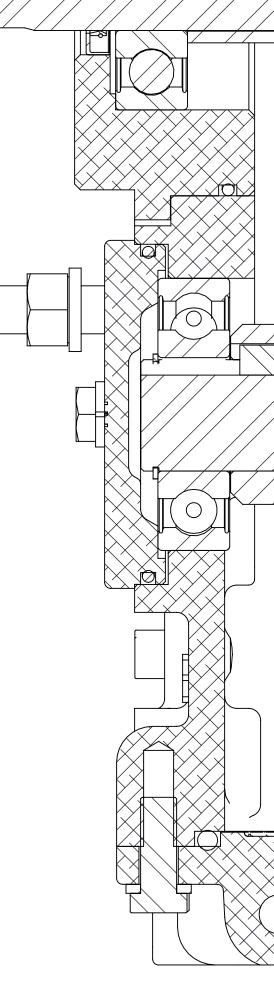


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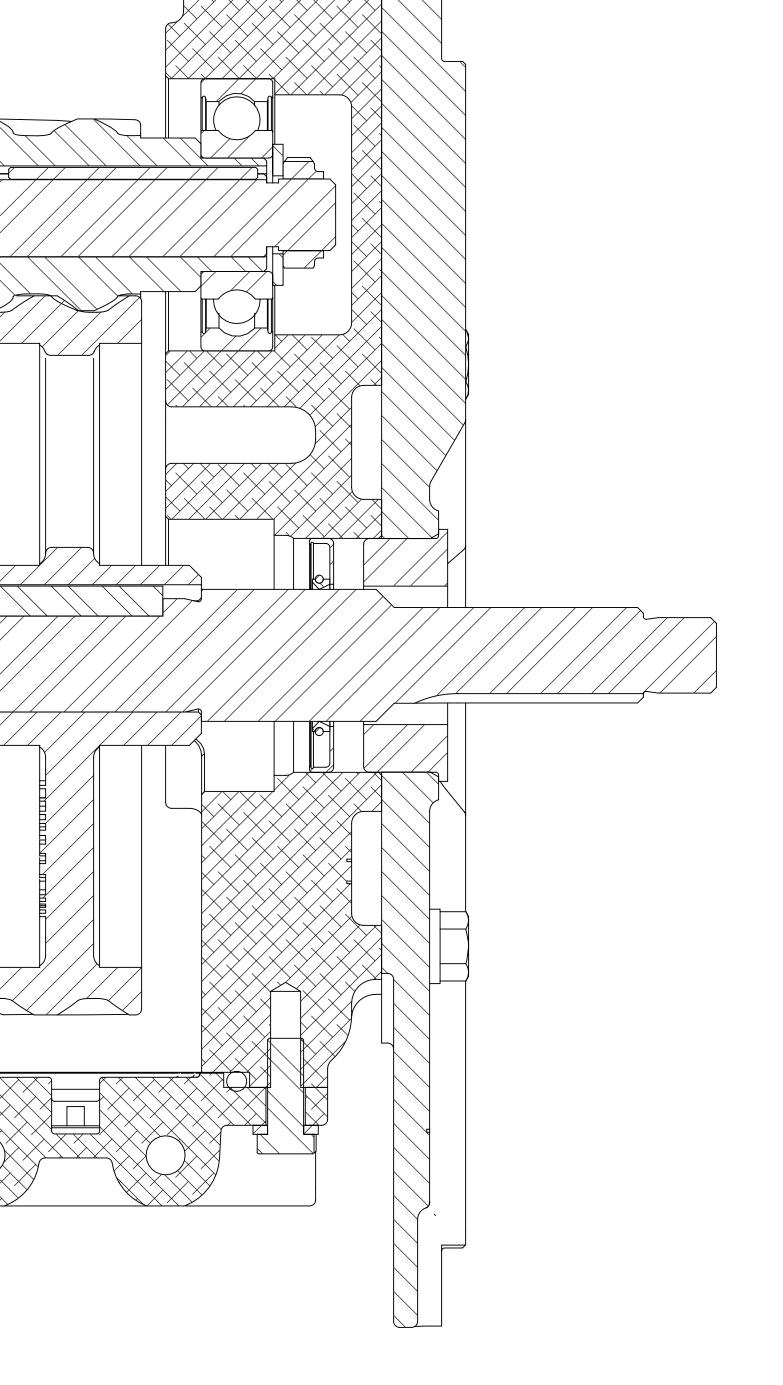
Ref No.	Description
T13	Seal-Oil, 1-3/8 x 2-7/16 in
T58	Bushing-Bellhousing Adapter
T59	Cover-Access Port
T60	Adapter-Bellhousing, SAE 5
T61	Screw-Hex Hd, 7/16-14 x 1-1/4 in
T62	Washer-Lock, 7/16 in
T63	Screw-Machine, Pan Hd, 1/4-20 x 3/8 in
T64	Washer-Lock, 1/4 in
T65	Screw-Cap, Hex Soc Hd, 7/16-14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



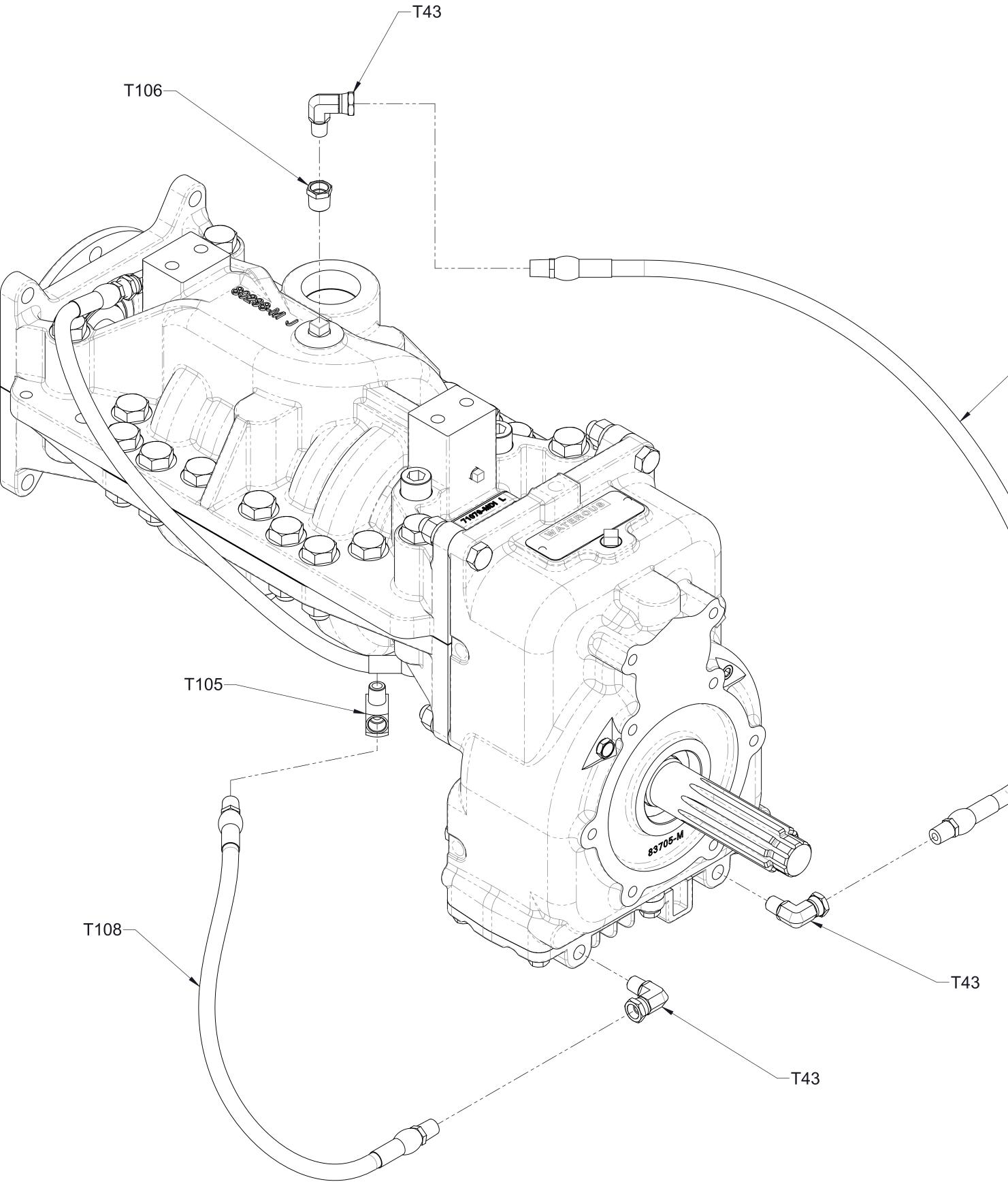




Transmission Assembly SAE - 5 Bellhousing Adapter



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∕**−**T109

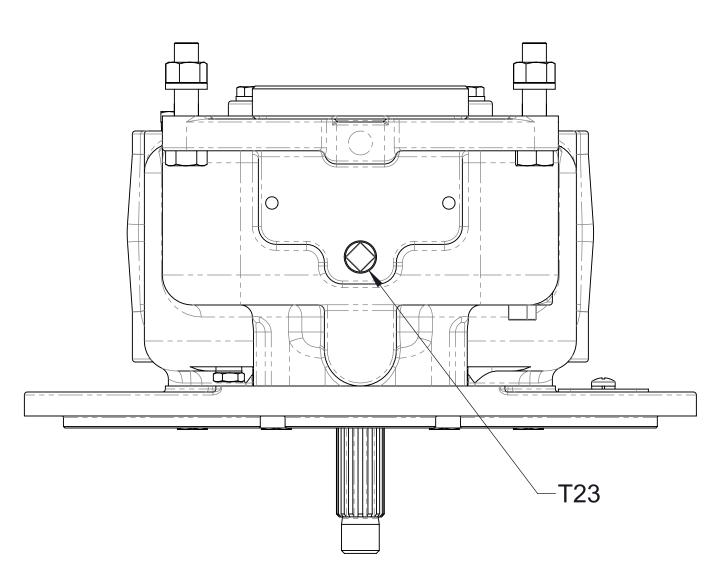
Note: 1. Route hoses so they drain through the transmission or pump. Draining is not required when pump is mounted with a horizontal or inverted discharge

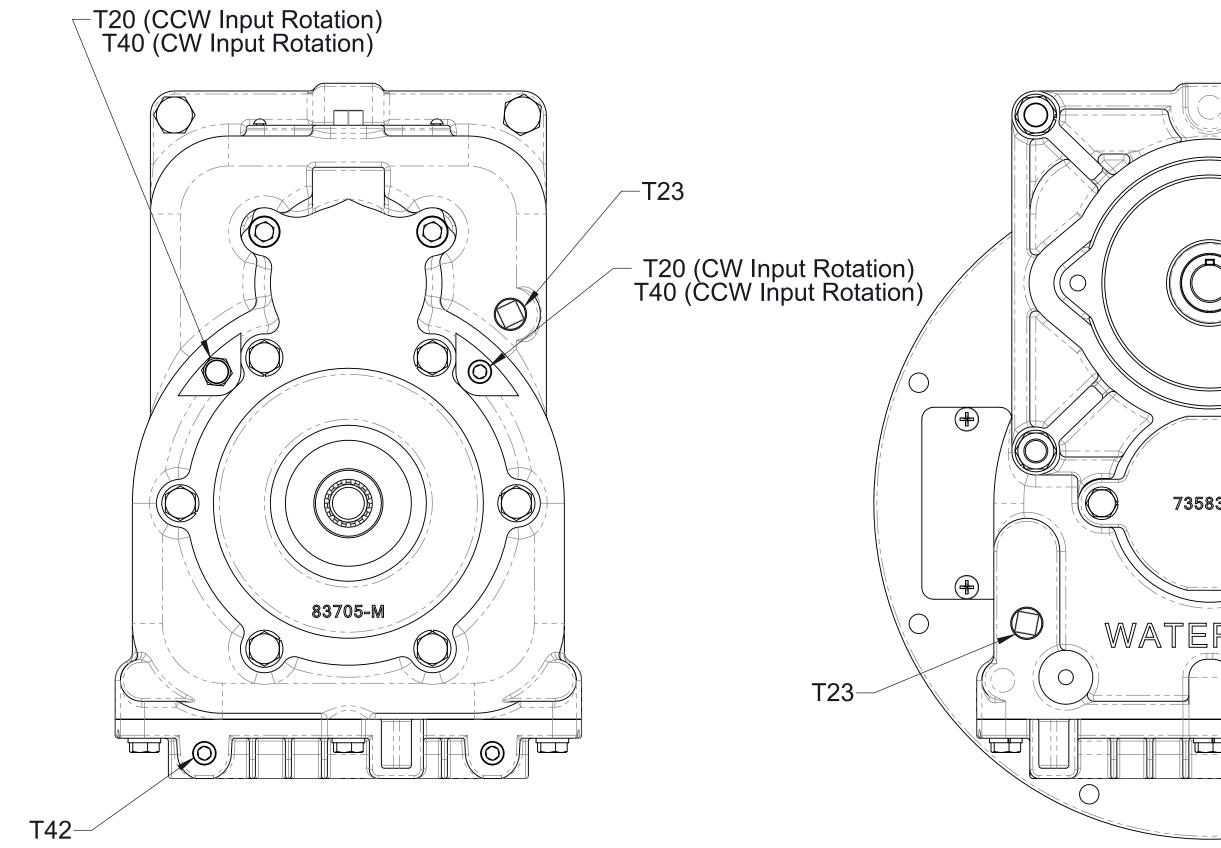
Ref No.	Description
T43	Elbow-Adapter, Union, 90deg, 1/4 NPT
T105	Tee-Street, 1/4 NPT
T106	Bushing-Reducing, Pipe, 3/8 x 1/4 NPT
T108	Hose, High Pressure, 1/4 NPT x 23 in
T109	Hose, High Pressure, 1/4 NPT x 31 in

Oil Cooler Lines and Fittings CP-4 Only

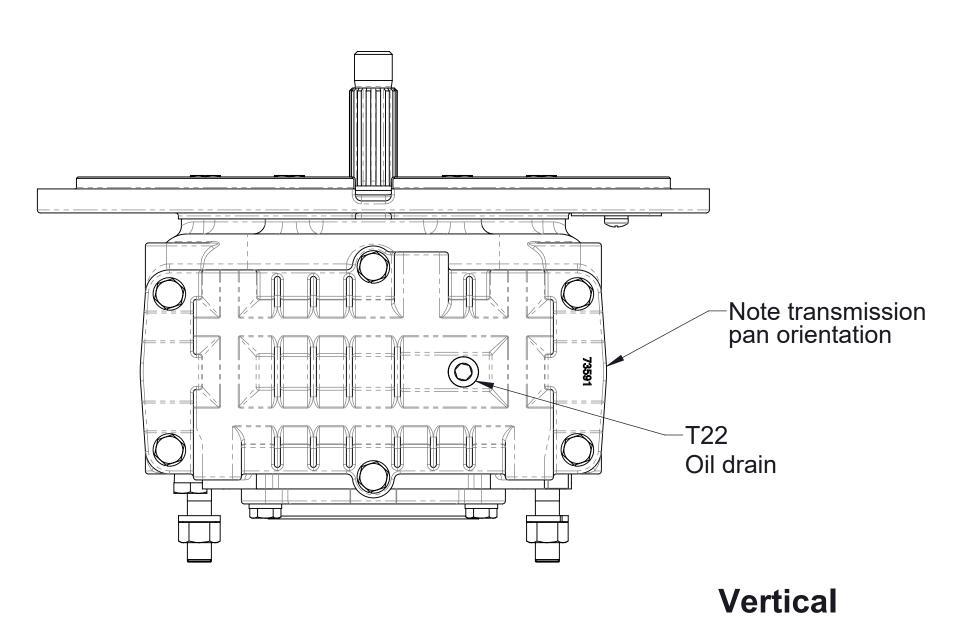
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Ref No.	Description
T20	Breather, 1/4 NPT
T21	Plug-Level, Oil, 3/8
T22	Plug-Drain, Magnetic, 3/8, Headless
T23	Plug-Pipe, Square Hd, 3/8 NPT
T40	Plug-Pipe, Headless, 1/4 NPT
T42	Plug-Pipe, Headless, 1/4 NPT



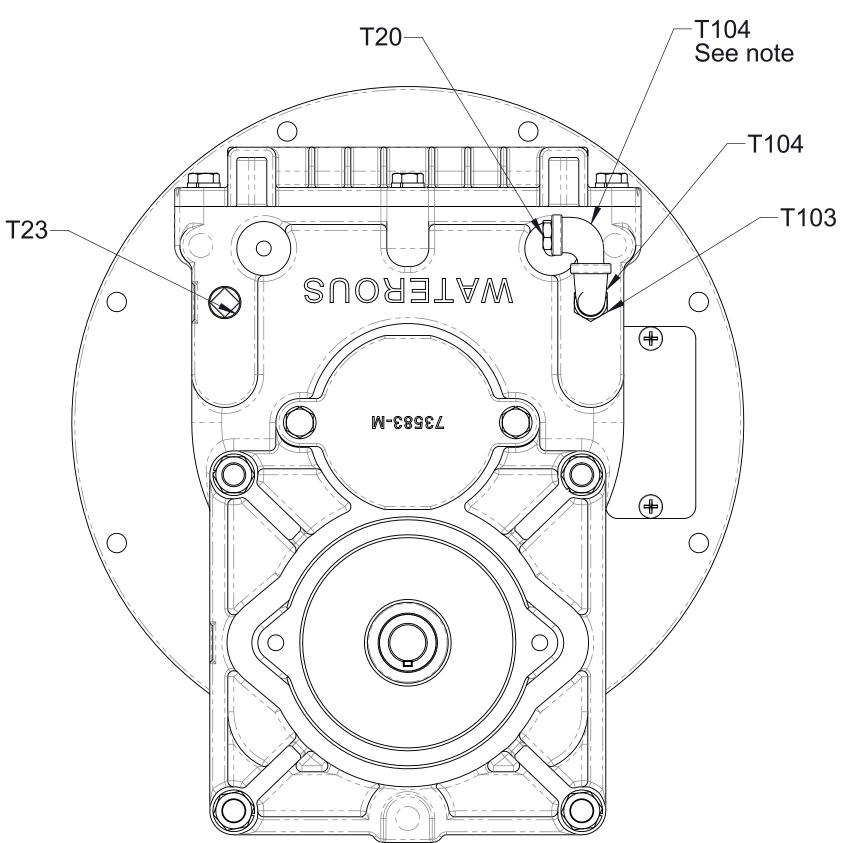


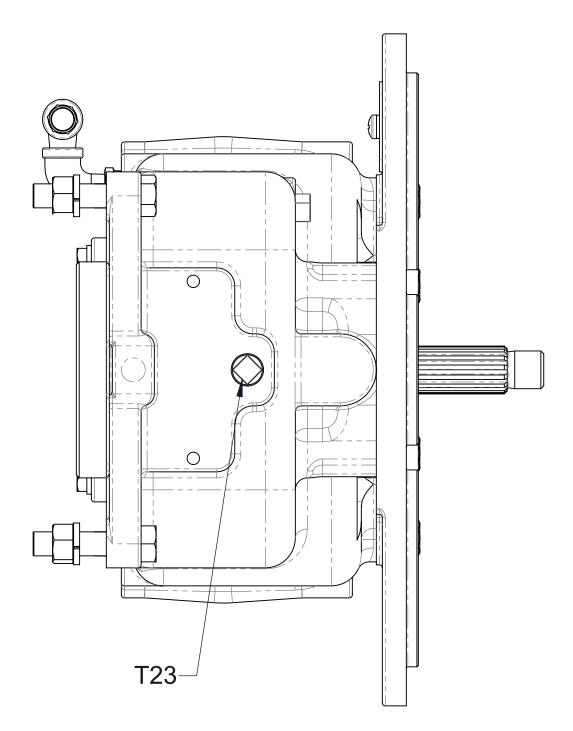
Bellhousing adapter removed for clarity

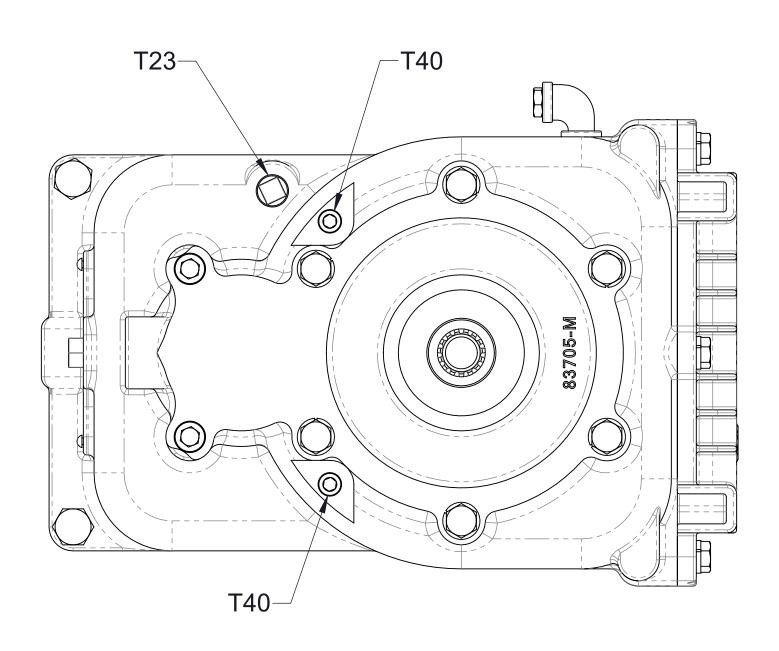


		T23Plug-Pipe, SquarT40Plug-Pipe, Head	3/8 netic, 3/8, Headless re Hd, 3/8 NPT less, 1/4 NPT ng, 3/8 MNPT x 1/4 FNPT °, 1/4 NPT
	T23	Note	e transmission orientation
TIEROUS	T40 T21 Oil level	T20	
TIO	Bellhousing adapter rer	noved for clarity	
Broothar Drain Oillaw	A and Plug Locations	T22 Oil drain	Inverted

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



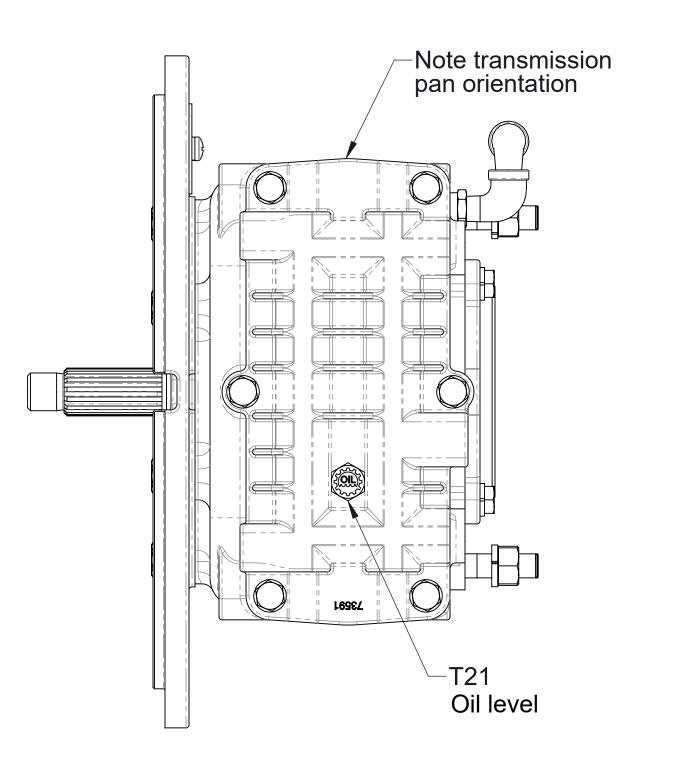


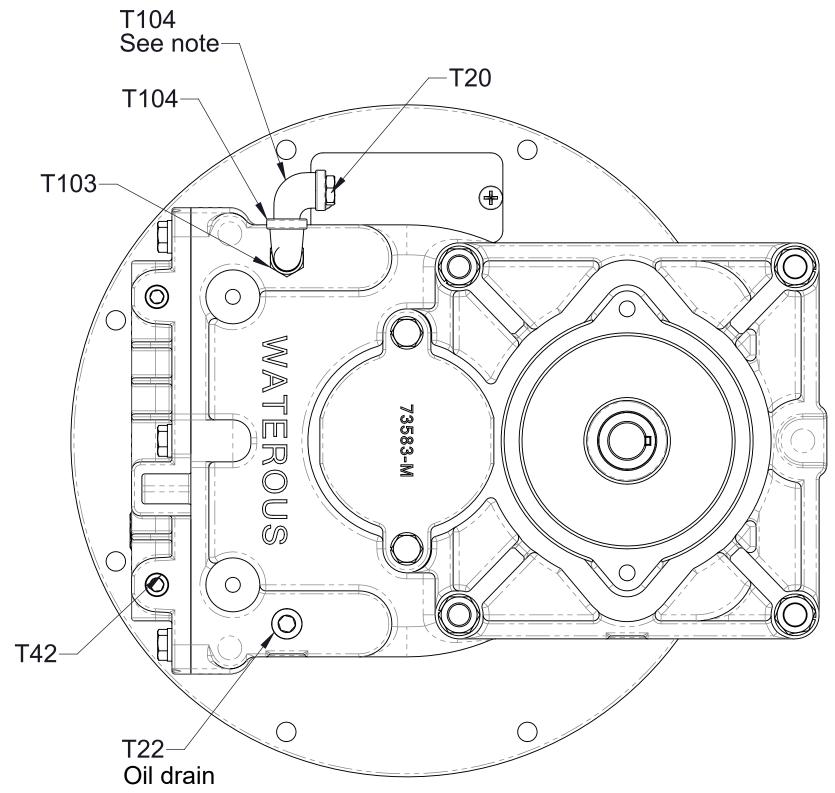


Bellhousing adapter removed for clarity

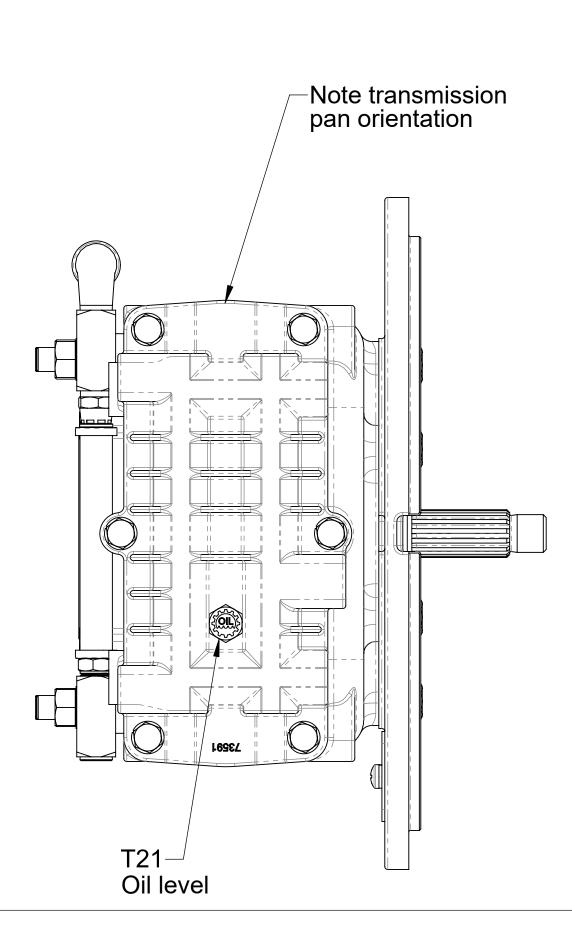
Ref No.	Description
T20	Breather, 1/4 NPT
T21	Plug-Level, Oil, 3/8
T22	Plug-Drain, Magnetic, 3/8, Headless
T23	Plug-Pipe, Square Hd, 3/8 NPT
T40	Plug-Pipe, Headless, 1/4 NPT
T42	Plug-Pipe, Headless, 1/4 NPT
T103	Bushing-Reducing, 3/8 MNPT x 1/4 FNPT
T104	Elbow-Street, 90°, 1/4 NPT

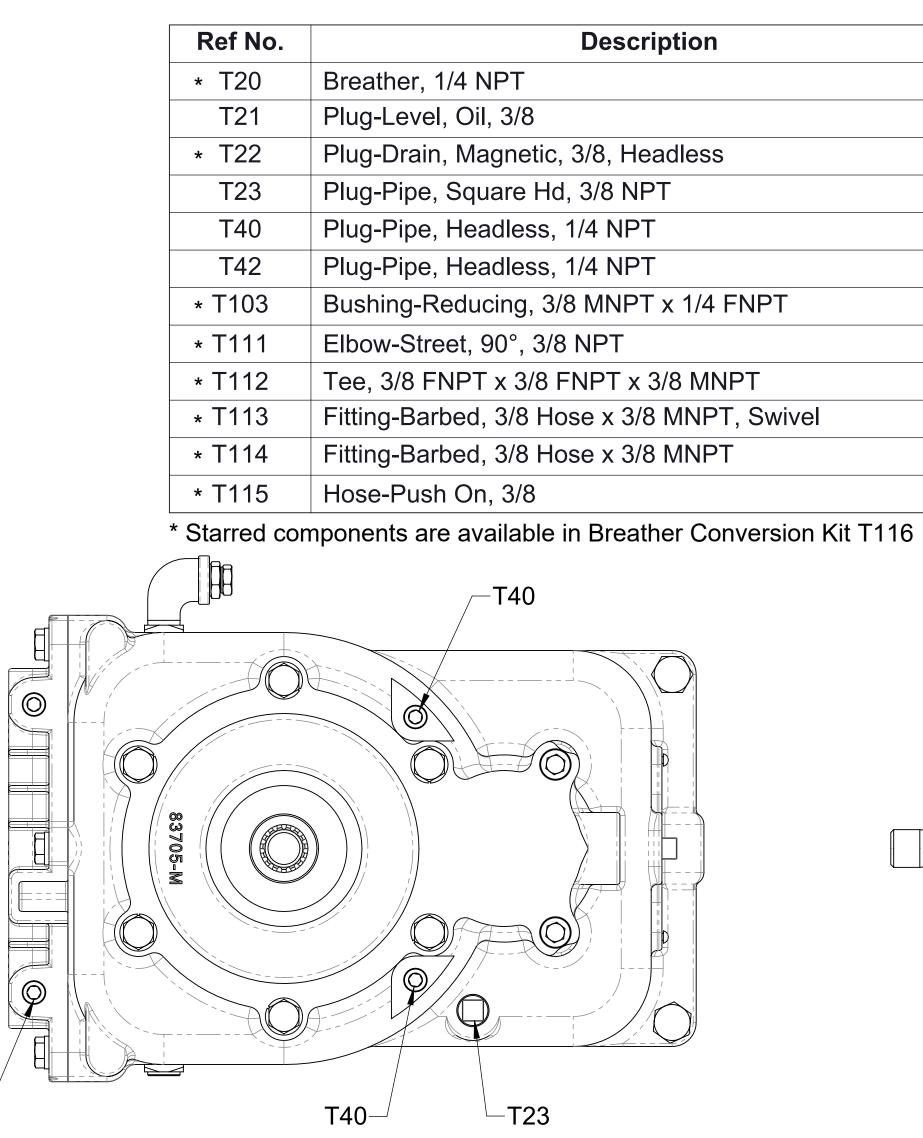
Note: Added second elbow after February 15th, 2021.





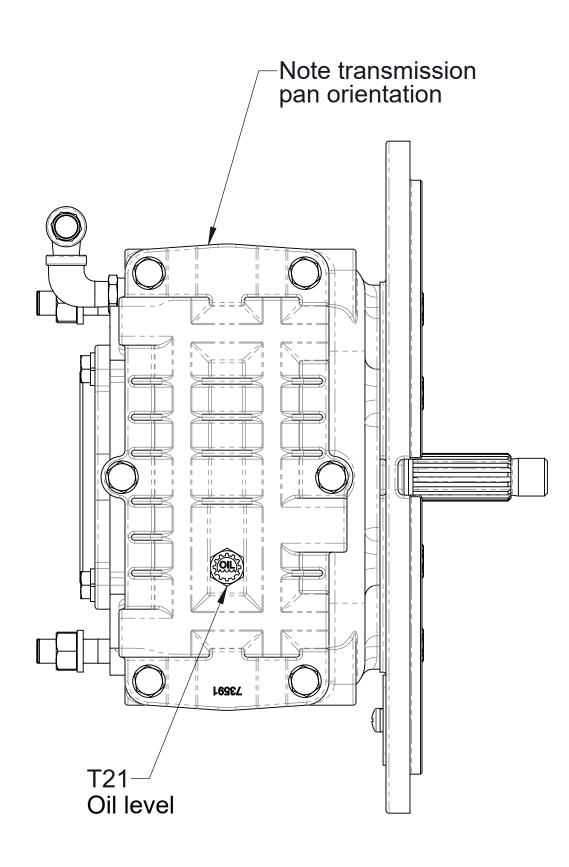
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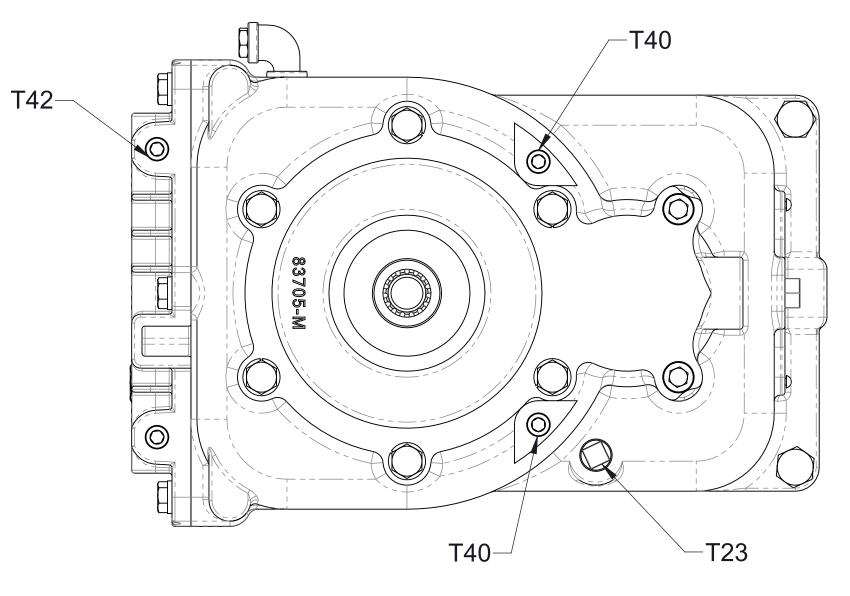




Bellhousing adapter removed for clarity

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–

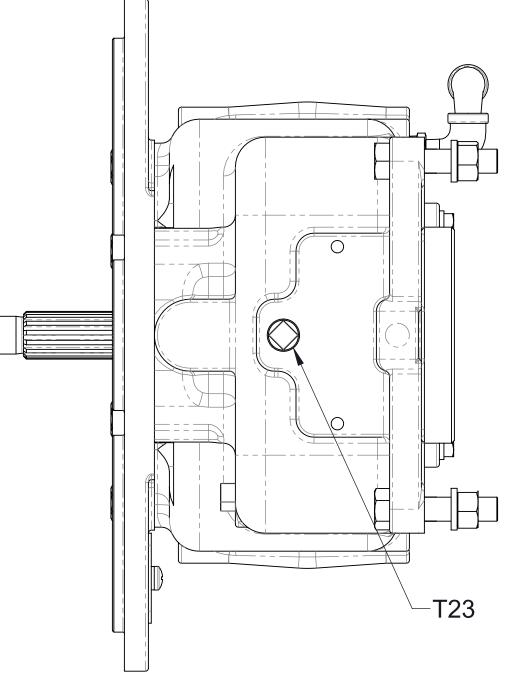
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After February 2, 2024

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

