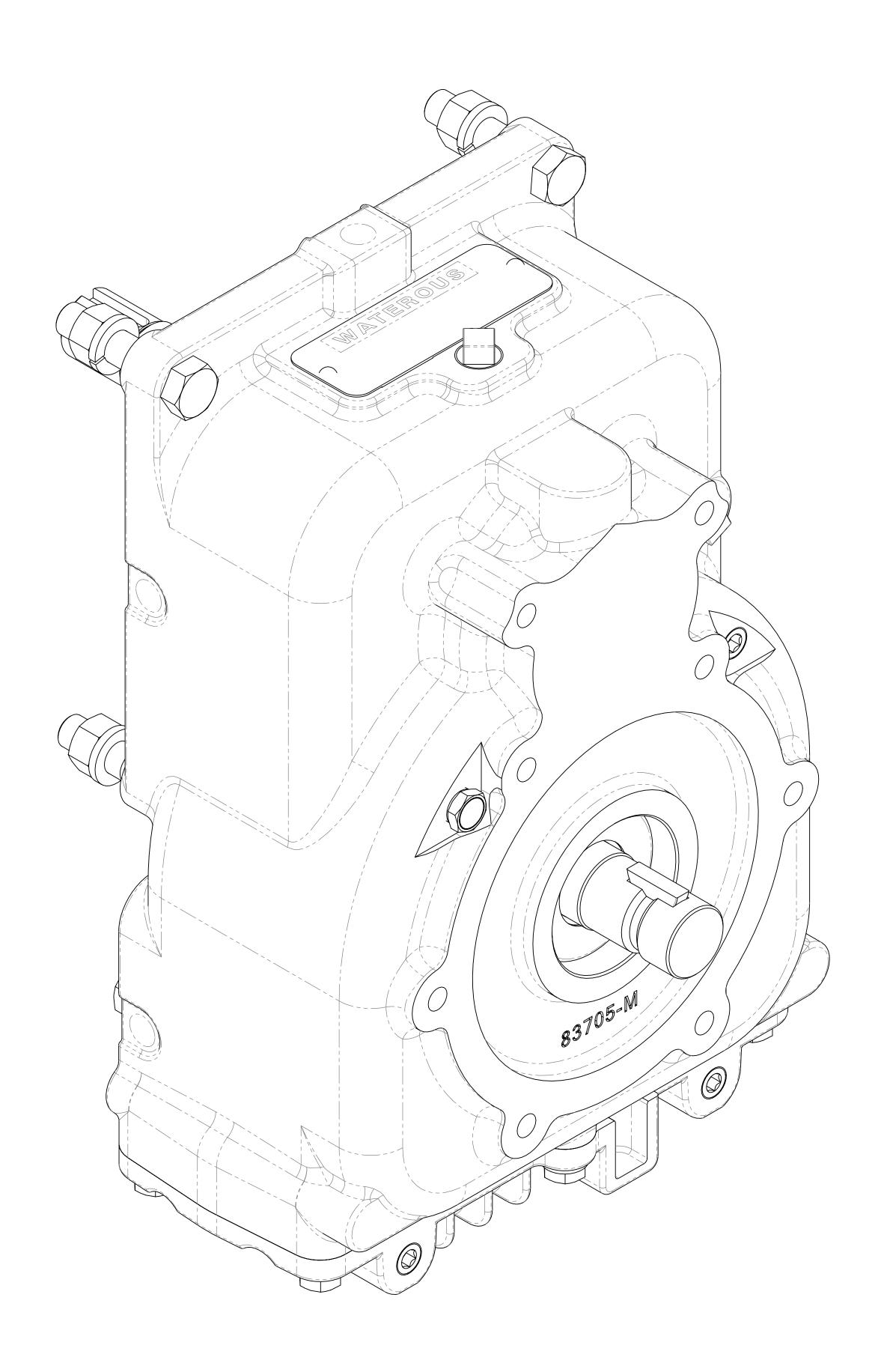
Document Number
 Issue Date
 Rev. Date

 SPL83740
 1/31/2020
 06/04/21

Medium Duty K Transmission Assy 83740

Pump Model	Impeller Shaft type	Extended Shaft for CAFS Drive	Input Type	See Sheet
CP-2, CP-4, CLR, CLV, CLS	One-Piece	No	Standard 1-1/8in. Keyed	2
			Hydraulic Flange Adapter	3
		Yes	Standard 1-1/8in. Keyed	4
CP-2 Combination Pump	One-Piece	N/A	SAE Class C Spline and Adatpter 72216	5
CP-3	Separable	N/A	Standard 1-1/8in. Keyed	6
			Hydraulic Flange Adapter	7
Oil Cooler Fittings - CP-4			8	
Pump Mounting Positions - Oil Level, Breather, Drain, and Vent locations			9-10	



Ref No.	Description		
T1	Gear-Driven		
T2	Gear-Drive		
Т3	Case-Transmission		
T4	Pan-Oil, Cooler		
T5	Housing-Bearing		
Т6	Cover-Bearing		
Т7	Gasket-Molded		
Т8	Shaft-Drive		
Т9	Bearing, Ball, Single Row, 30 x 72 x 19 mm	T24—	
T10	Spacer-Bearing	Serial plate installed on pump volute body for CLR, CLV, & CLS pumps.	
T11	O-Ring, 4-3/8 x 4-5/8 in	CLV, & CLS pumps.	
T12	O-Ring, 3-1/4 x 3-1/2 in		
T13	Seal-Oil, 1-3/16 x 2-7/16 in	T41	
T14	Seal-Oil, 1-3/16 x 1-11/16 in Ping Poteining External 1 3/16 in Shoft Die		
T15 T16	Ring-Retaining, External, 1-3/16 in Shaft Dia Key-Woodruff, 5/16 x 1 in		
T17	Washer-Plain, 3/4 in		
T18	Locknut-Flex Top, Thin, 3/4-16	T29— —T27	
T19	Key-Pinion Gear	T30—	
T24	Screw-Drive, #6 x 1/4 in		
T25	Screw-Brive, #6 x 1/4 iii Screw-Hex Hd, 3/8-16 x 1 in		
T26	Washer-Lock, 3/8 in	Apply Loctite #242	
T27	Screw-Hex Hd, 1/2-13 x 2-1/4 in	Apply Loctite #242 (Blue) to threads.	
T28	Stud-Coarse, 1/2-13 x 2-1/4 in	Apply Loctite #242 (Blue) to threads. Torque to 100 lb-ft— T18—	
T29	Washer-Lock, 1/2 in	T17	
T30	Nut-Hex, 1/2-13	T16— T17— — T13	
T41	Plate-Serial	T9—	
	T11— T19— Impeller shaft shown for reference. See impeller shaft service parts list.	T10	

Rei No.	Description	
T1	Gear-Driven	
T2	Gear-Drive	
Т3	Case-Transmission	
T4	Pan-Oil, Cooler	
T5	Housing-Bearing	
Т6	Cover-Bearing	
T7	Gasket-Molded	
T8	Shaft-Drive, Hydraulic	T24—
T9	Bearing, Ball, Single Row, 30 x 72 x 19 mm	T31—
T10	Spacer-Bearing	Serial plate installed on T32—
T11	O-Ring, 4-3/8 x 4-5/8 in	T41————————————————————————————————————
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, 1-3/16 x 1-11/16 in	
T15	Ring-Retaining, External, 1-3/16 in Shaft Dia	
T17	Washer-Plain, 3/4 in	
T18	Locknut-Flex Top, Thin, 3/4-16	T48—
T19	Key-Pinion Gear	
T24	Screw-Drive, #6 x 1/4 in	T29— T33
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	Apply Loctite #242 (Blue) to threads. Torque to 100 lb-ft T18
T30	Nut-Hex, 1/2-13	Torque to 100 lb-ft T187
T31	Bushing-Adapter	
T32	Adapter-Case Gear, Class C, Hyd Motor	T17— T8
T33	Screw-Cap, Hex Soc Hd, 7/16-14 x 1-1/4 in	T9—
T41	Plate-Serial	
T48	Key-Square, 5/16 x 2-5/16 in	
	T11— T19— Impeller shaft shown for reference. See impeller shaft service parts list.	T10 T10 T115 T115 T126 T126 T126 T126 T14 T15 T17 T17 T17 T17 T18 T19

Ref No.

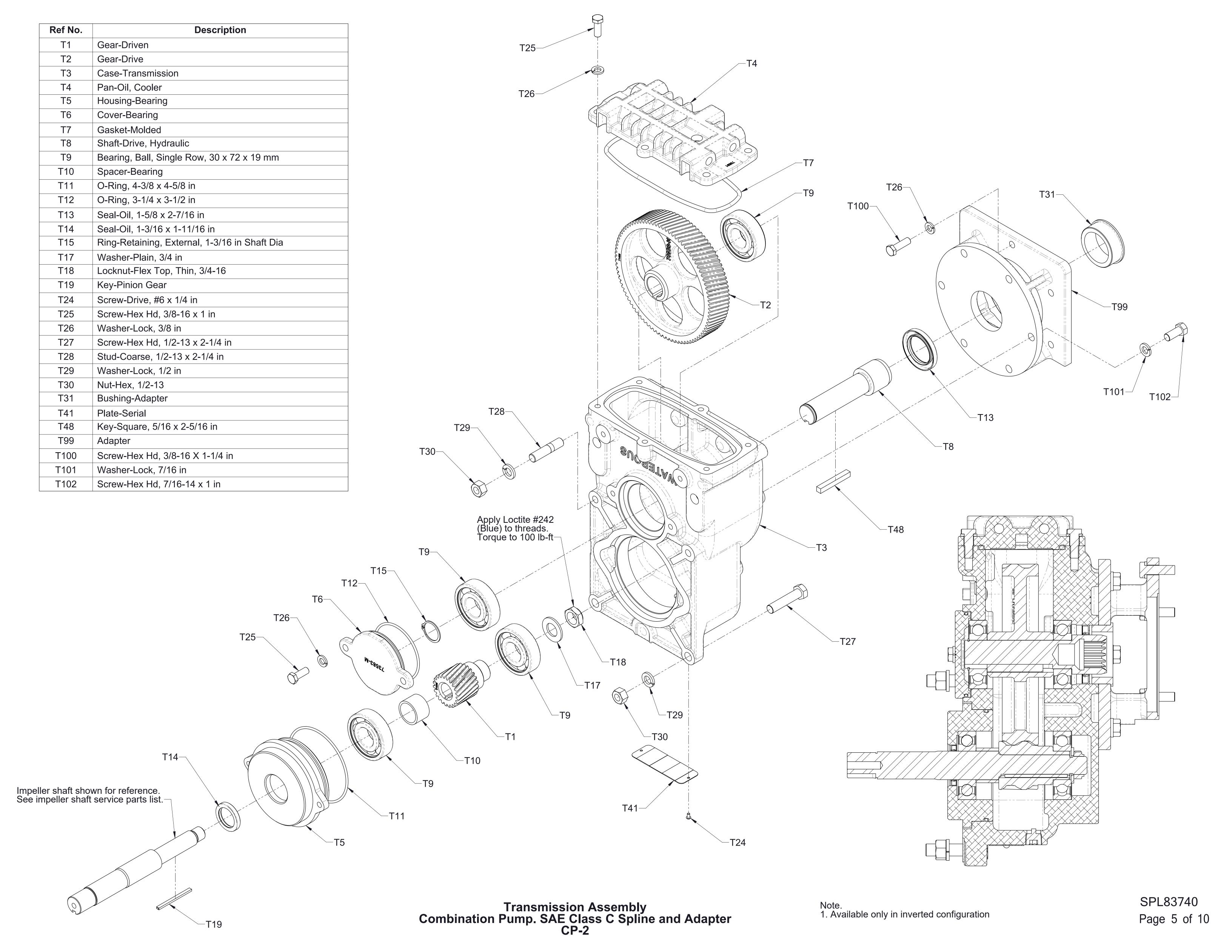
Description

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, 30 x 72 x 19 mm	T24———Serial plate installed on
T10	Spacer-Bearing	Serial plate installed on pump volute body for CLR & CLV pumps.
T11	O-Ring, 4-3/8 x 4-5/8 in	& CLV pumps.
T12	Gasket-Bearing, Cover	
T13	Seal-Oil, 1-3/16 x 2-7/16 in	
T14	Seal-Oil, 1-3/16 x 1-11/16 in	T41—
T16	Key-Woodruff, 5/16 x 1 in	
T19	Key-Square, 1/4 x 1-1/2 in	$\sqrt{-T37}$ $\sqrt{-T48}$
T24	Screw-Drive, #6 x 1/4 in	
T25	Screw-Hex Hd, 3/8-16 x 1 in	T29—
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	T13
T30	Nut-Hex, 1/2-13	
T35	Spacer-Bearing	
T36	Bearing, Spherical Roller, Single Row, 30 x 72 x 19 mm	
T37	Seal-Oil, 1-1/16 x 2 in	T38— —T8
T38	Nut-Lock, Bearing, N06	
T39	Washer-Lock, Bearing, W06	
T41	Plate-Serial	T35— T3
T48	Key-Square, 5/16 x 2-5/16 in	
	T11- T5- T14- T19- Impeller shaft shown for refe See impeller shaft service pa	T10 T36 T10 T38 T38 T738 T738 T738 T728 T728 T728 T726 T725 T74 T74

Ref No.

Gear-Driven

Description



Ref No.	Description	
T1	Gear-Driven	
T2	Gear-Drive	
Т3	Case-Transmission	
T4	Pan-Oil, Cooler	
T5	Housing-Bearing	
T6	Cover-Bearing	
T7	Gasket-Molded	
T8	Shaft-Drive	
T9	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	
T13	Seal-Oil, 1-3/16 x 2-7/16 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	Tan
T19	Key-Pinion Gear	T29— —T27
T24	Screw-Drive, #6 x 1/4 in	T30—
T25	Screw-Drive, #6 x 1/4 iii Screw-Hex Hd, 3/8-16 x 1 in	
T26	Washer-Lock, 3/8 in	Apply Loctite #242
T27	Screw-Hex Hd, 1/2-13 x 2-1/4 in	Apply Loctite #242 (Blue) to threads. Torque to 100 lb-ft
T28	Stud-Coarse, 1/2-13 x 2-1/4 in	Torque to 100 lb-It
T29	Washer-Lock, 1/2 in	-T18
T30	Nut-Hex, 1/2-13	T16— T17— \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
T34 T41	Shaft-Driven Plate-Serial	T9— T15
		T16————————————————————————————————————
		T10—
		T9
	T11 <i>─</i> \	
	T11—\	
	T11—	
	T5—	
	T5—	T8
	T5————————————————————————————————————	T8
	T5————————————————————————————————————	73683.M T15
	T5————————————————————————————————————	T12
T34—	T5————————————————————————————————————	T12 T28
T34—	T5————————————————————————————————————	T15 T12 T79 T70
T34—	T5————————————————————————————————————	T12 T28
T34—	T14— T19— 3888-M	T25 T30 T28 T28 T28
T34—	T5————————————————————————————————————	T12 T28 T28 T29 T29 T72
T34—	T14— T19— 3888-M	T15 T12 T12 T28 T29 T20

Transmission Assembly Separable Impeller Shaft, 1-1/8in. Keyed Input CP-3 SPL83740 Page 6 of 10

	Gear-Driven	
T2	Gear-Drive	
Т3	Case-Transmission	
T4	Pan-Oil, Cooler	
T5	Housing-Bearing	
T6	Cover-Bearing	
Т7	Gasket-Molded	
Т8	Shaft-Drive, Hydraulic	
Т9	Bearing, Ball, Single Row, 30 x 72 x 19 mm	T24
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	
T13	Seal-Oil, 1-5/8 x 2-7/16 in	
T14	Seal-Oil, 1-1/2 x 2-1/2 in	
T15	Ring-Retaining, External, 1-3/16 in Shaft Dia	
T17	Washer-Plain, 3/4 in	T48 -
T18	Locknut-Flex Top, Thin, 3/4-16	T29—
T19	Key-Pinion Gear	
T24	Screw-Drive, #6 x 1/4 in	T30— T33
T25	Screw-Hex Hd, 3/8-16 x 1 in	
T26	Washer-Lock, 3/8 in	Apply Loctite #242
T27	Screw-Hex Hd, 1/2-13 x 2-1/4 in	Apply Loctite #242 (Blue) to threads. Torque to 100 lb-ft—
T28	Stud-Coarse, 1/2-13 x 2-1/4 in	Torque to 100 lb-ft—
T29	Washer-Lock, 1/2 in	
T30	Nut-Hex, 1/2-13	
T31	Bushing-Adapter	
T32 T33	Adapter-Case Gear, Class C, Hyd Motor	T9—\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
T34	Screw-Cap, Hex Soc Hd, 7/16-14 x 1-1/4 in Shaft-Driven	
T41	Plate-Serial	
T48	Key-Square, 5/16 x 2-5/16 in	
	- 1 1 3 4 5 4 5 5 7 1 2	
	T11—	
	T5—\	
	T14—	
	T19—	
	058B-M	
т	34—	
•		
		-T26
		T25
		T7
		T25

Ref No.

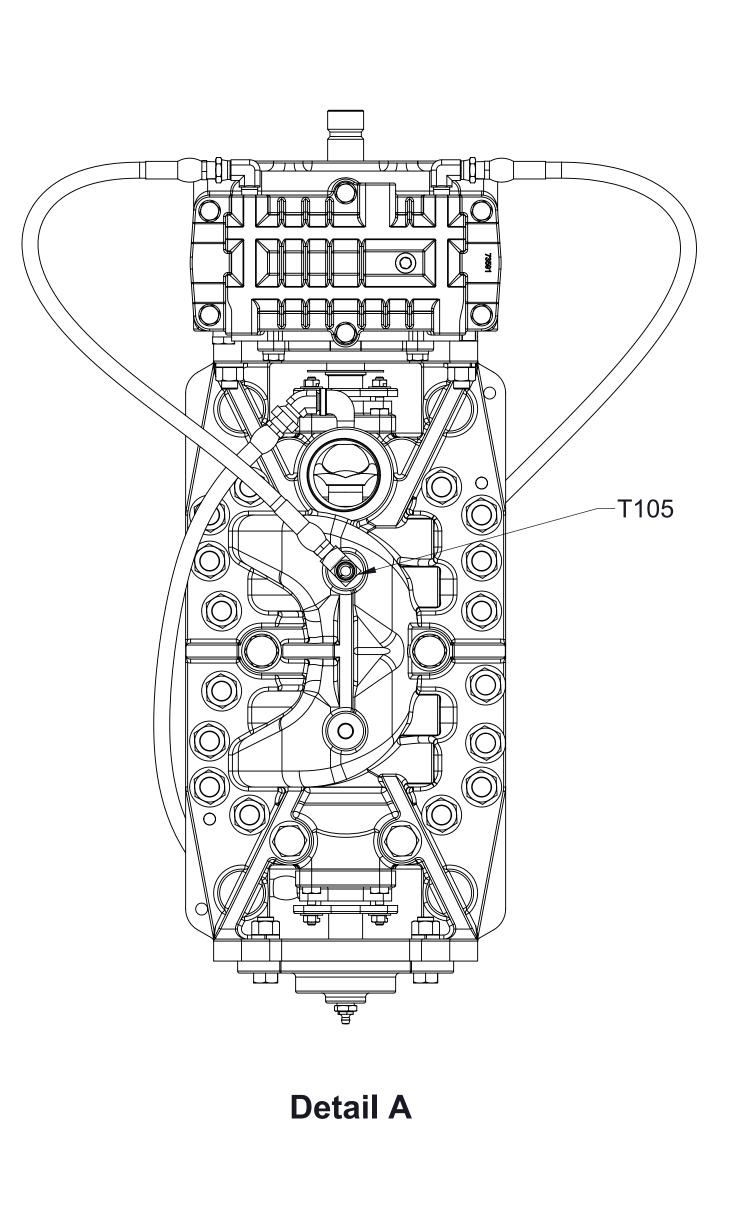
T1

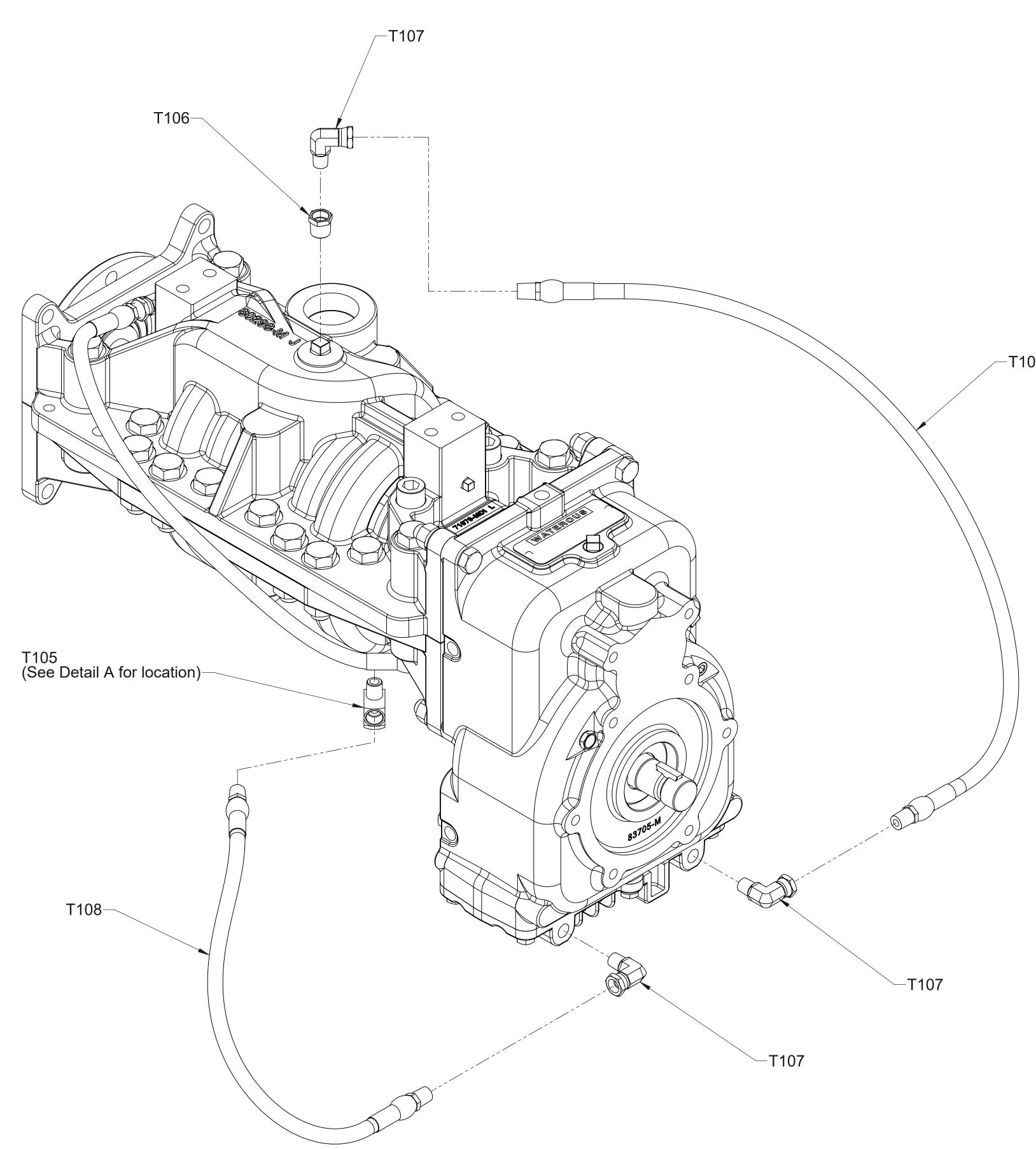
Gear-Driven

Description

Transmission Assembly Separable Impeller Shaft, 1-1/8in. SAE Class C Hydraulic Adapter CP-3

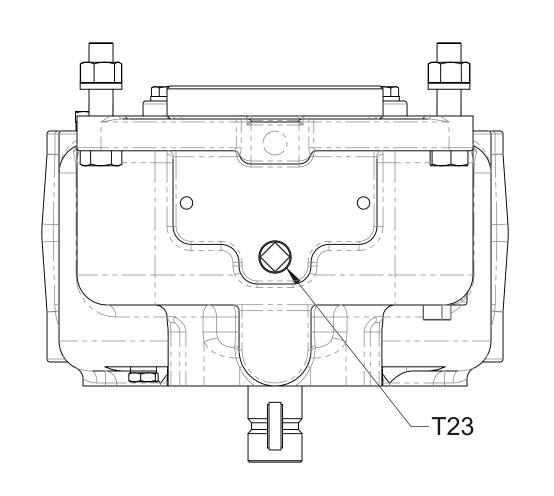
Ref No.	Description
T105	Tee-Street, 1/4 NPT
T106	Bushing-Reducing, Pipe, 3/8 x 1/4 NPT
T107	Elbow-Adapter, Union, 90deg, 1/4 NPT
T108	Hose, High Pressure, 1/4 NPT x 23 in
T109	Hose, High Pressure, 1/4 NPT x 31 in

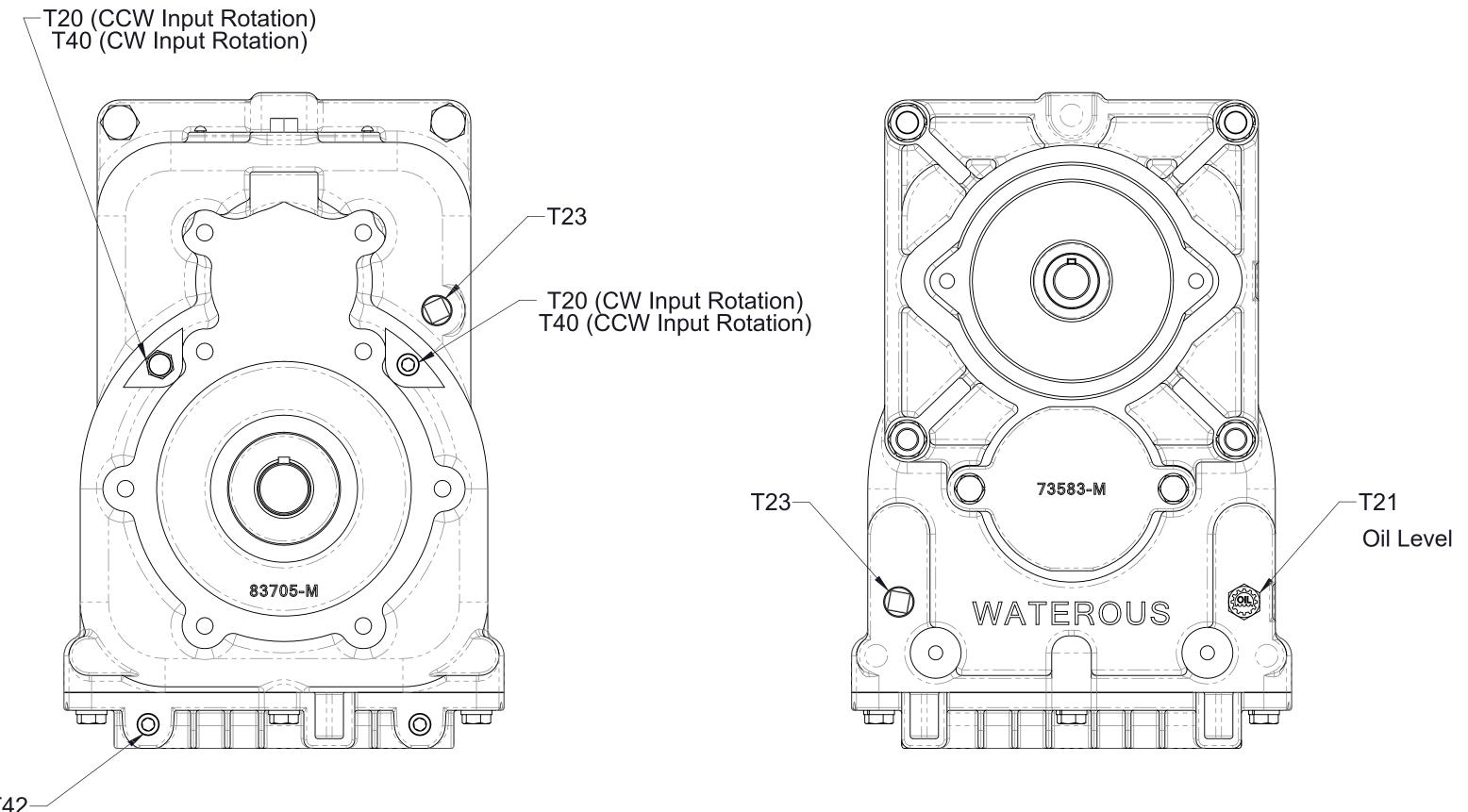


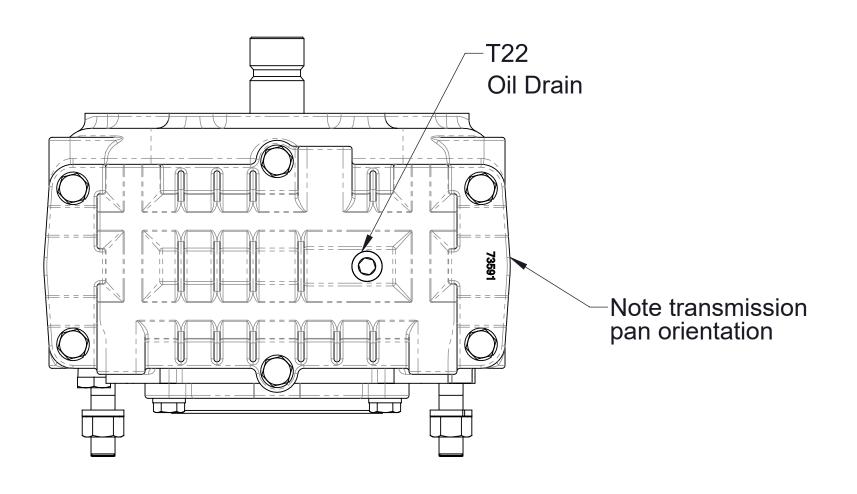


Note:
1. Route hoses so they drain through the transmission or pump. Draining is not required when pump is mounted with a horizontal or inverted discharge

Ref No.	Description
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



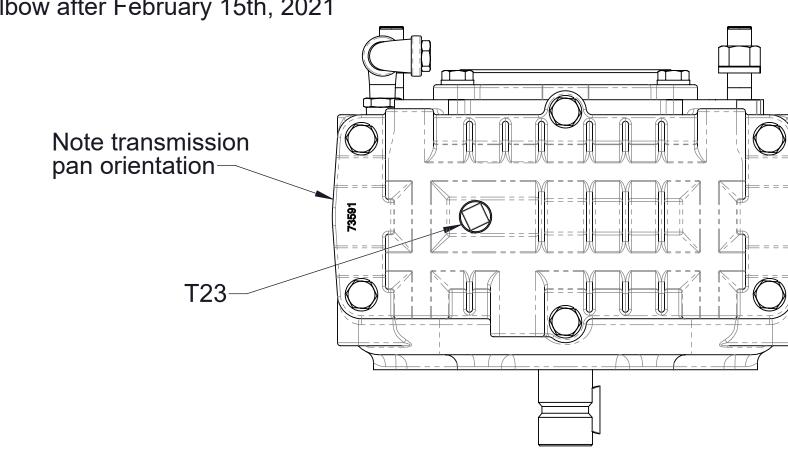


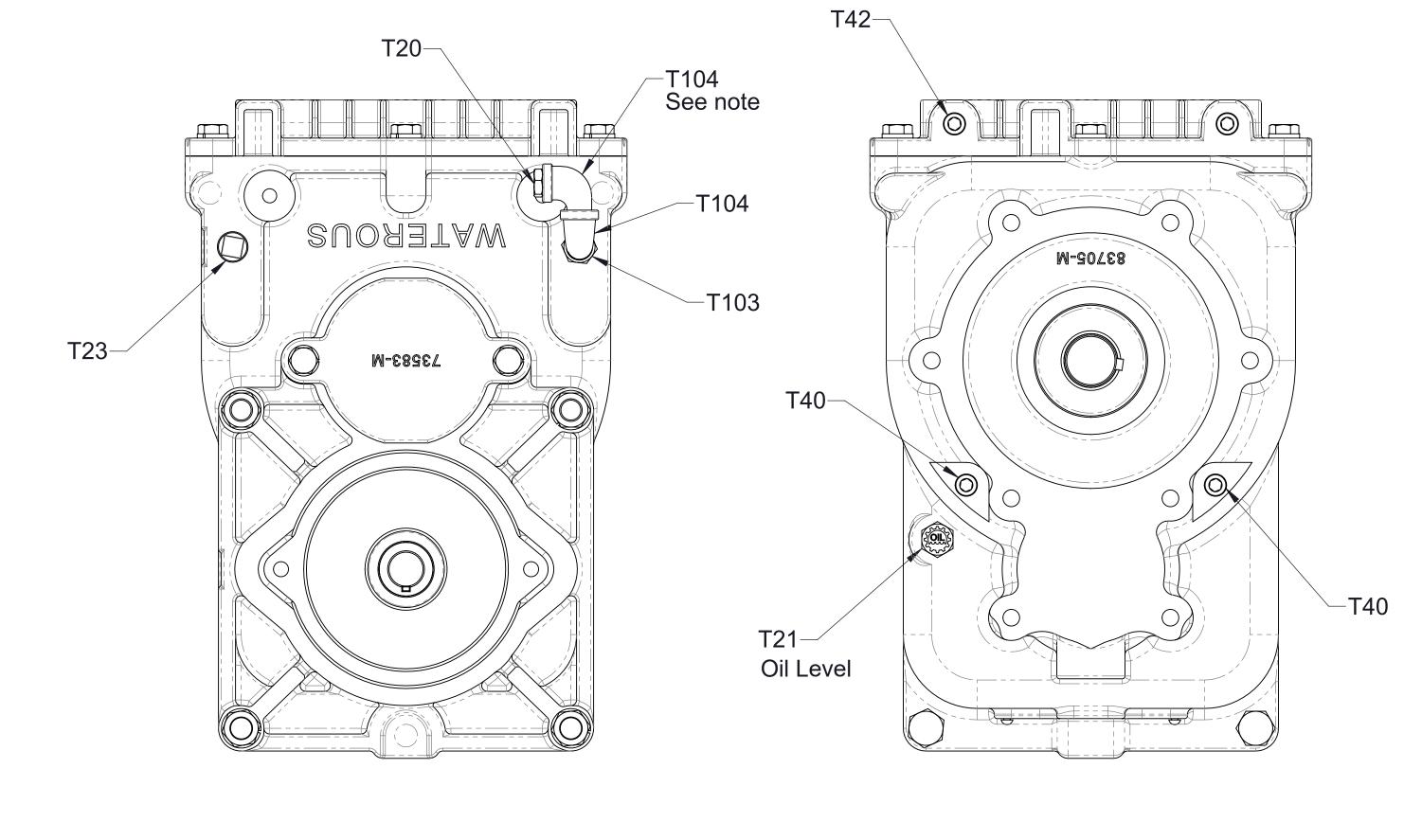


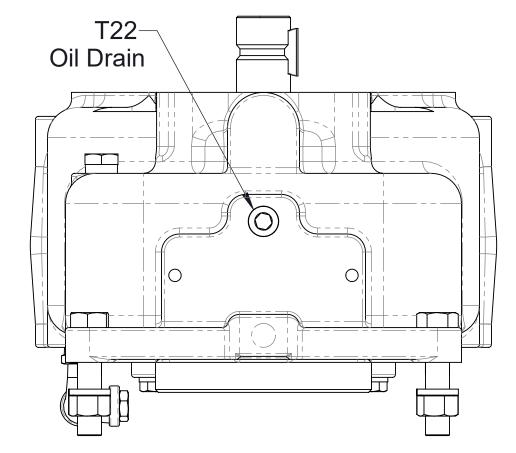
Vertical

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



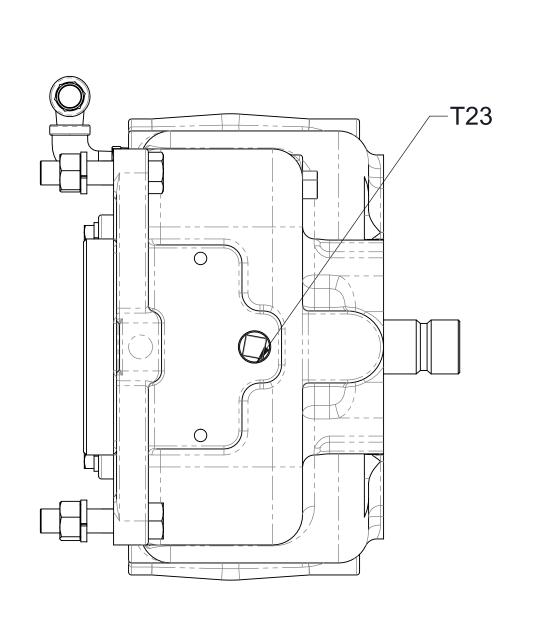


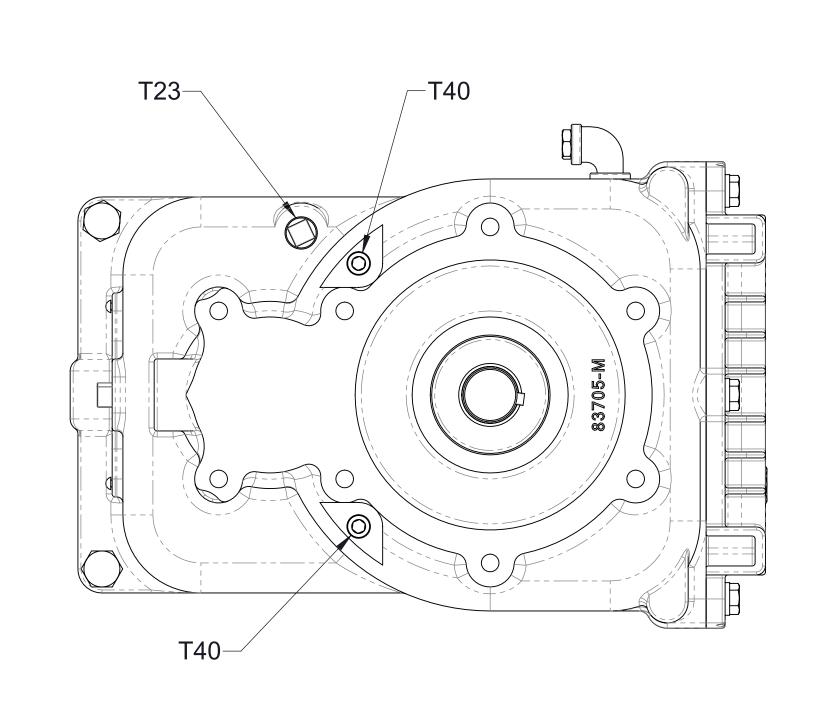


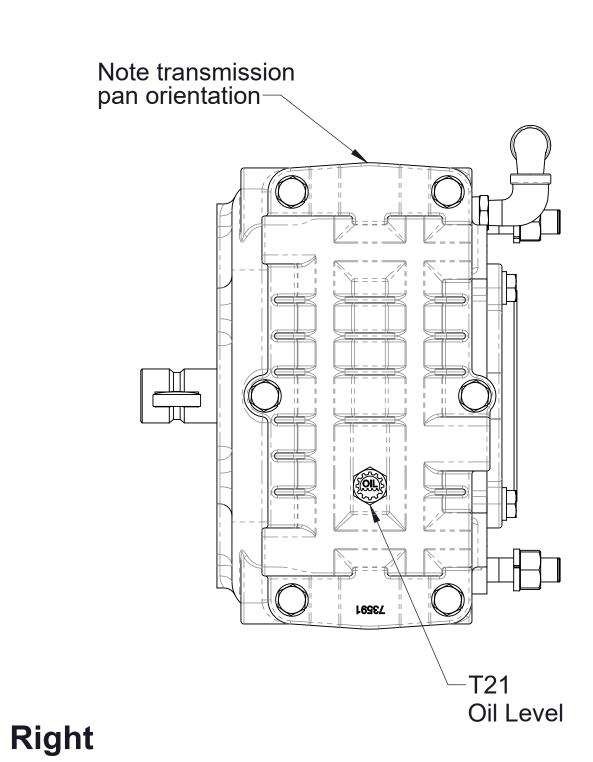
Inverted

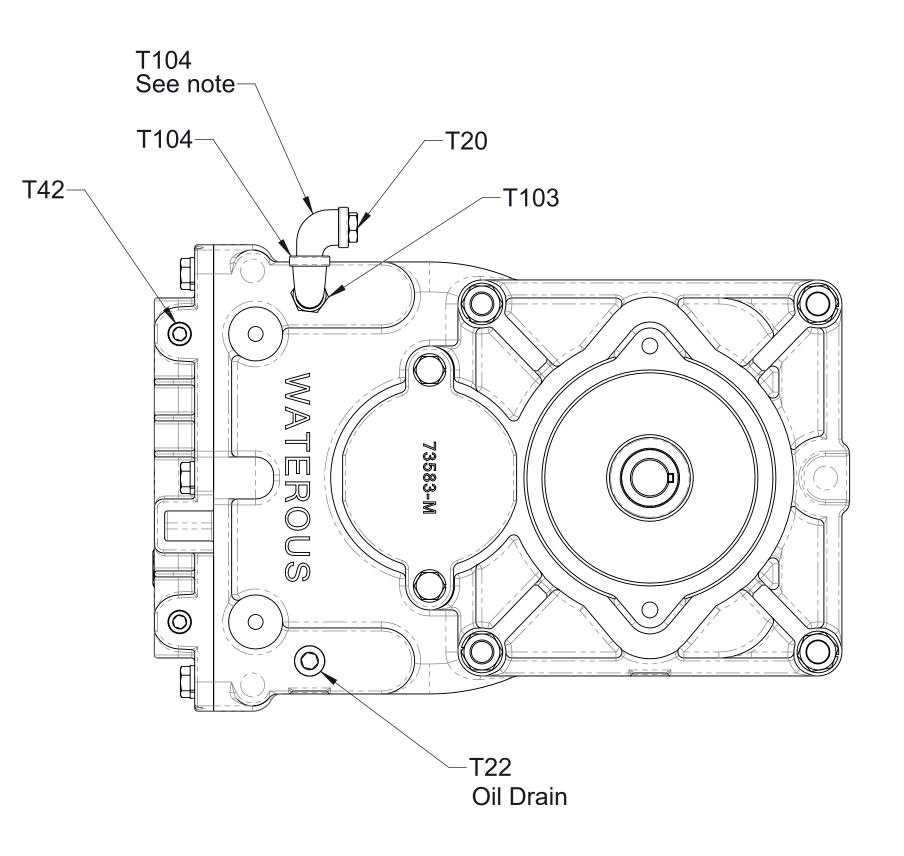
Ref No.	Description
T20	Breather, 1/4 NPT
T21	Plug-Level, Oil, 3/8
T22	Plug-Drain, Magnetic, 3/8, Headless
T23	Plug-Pipe, Square Hd, 3/8 NPT
T40	Plug-Pipe, Headless, 1/4 NPT
T42	Plug-Pipe, Headless, 1/4 NPT
T103	Bushing-Reducing, 3/8 MNPT x 1/4 FNPT
T104	Elbow-Street, 90°, 1/4 NPT

Note: Added second elbow after February 15th, 2021



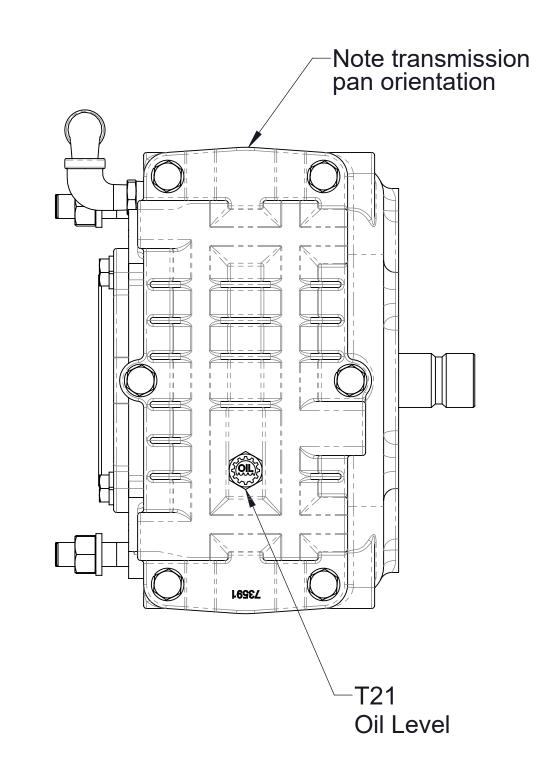


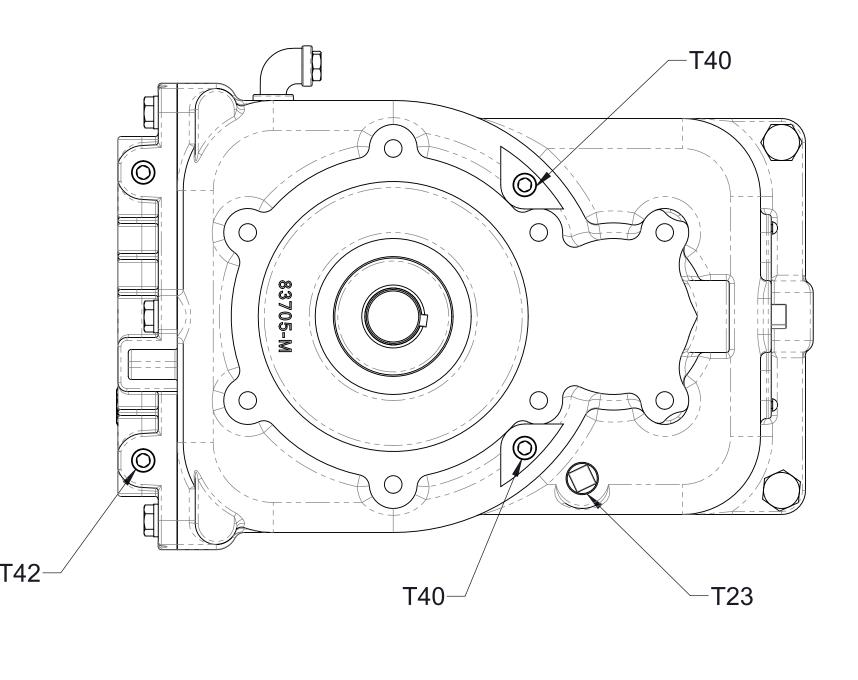


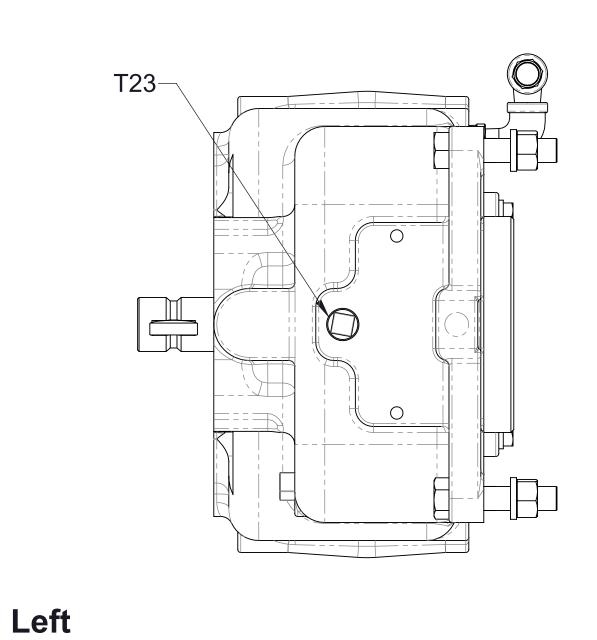


Ref No.	Description
T20	Breather, 1/4 NPT
T21	Plug-Level, Oil, 3/8
T22	Plug-Drain, Magnetic, 3/8, Headless
T23	Plug-Pipe, Square Hd, 3/8 NPT
T40	Plug-Pipe, Headless, 1/4 NPT
T42	Plug-Pipe, Headless, 1/4 NPT
T103	Bushing-Reducing, 3/8 MNPT x 1/4 FNPT
T104	Elbow-Street, 90°, 1/4 NPT

Note: Added second elbow after February 15th, 2021







Breather, Drain, Oil Level, and Plug Locations Left and Right Mounting Positions

