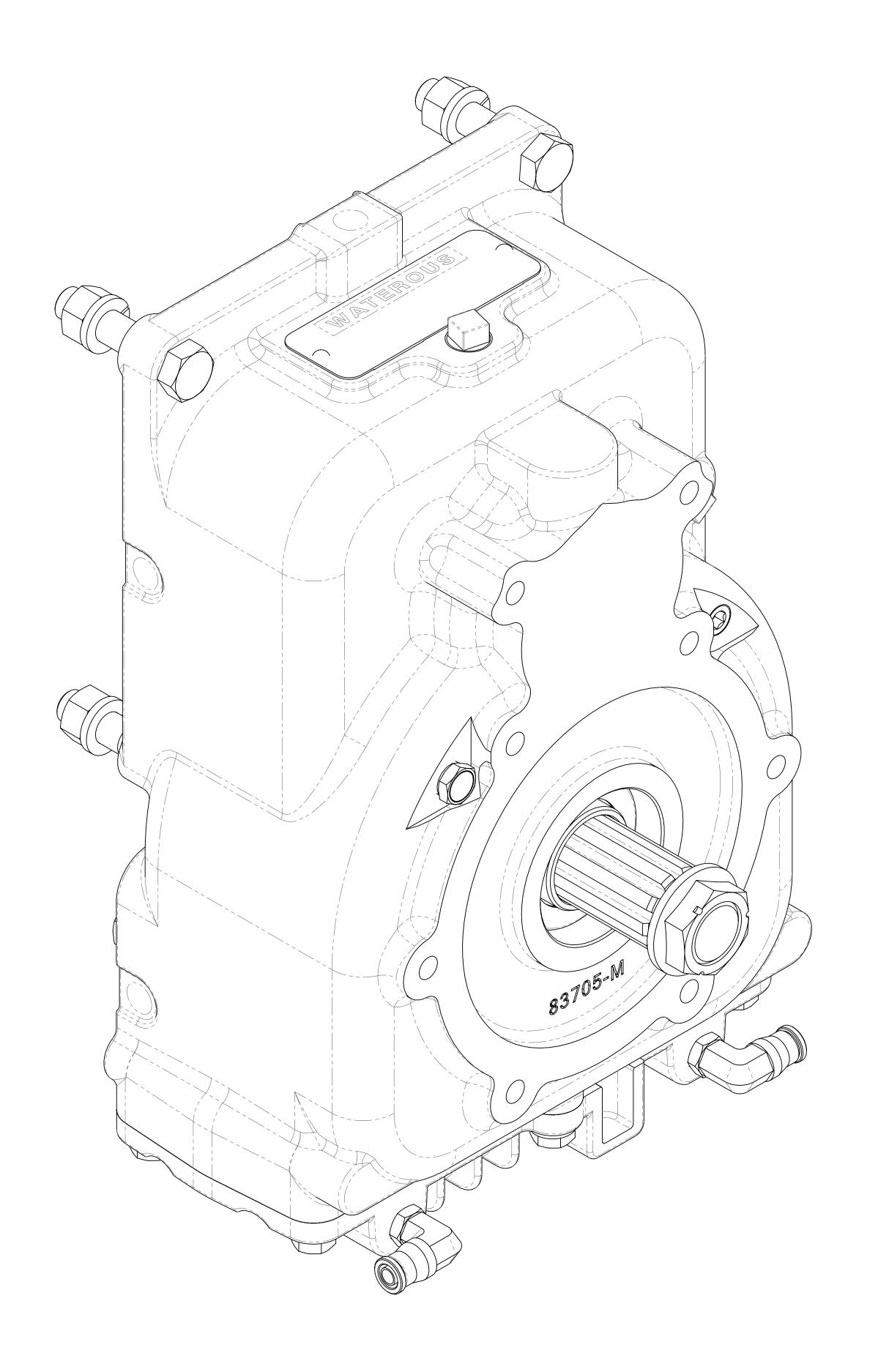
Document Number
 Issue Date
 Rev. Date

 SPL83741
 1/31/2020
 4/30/2024

Heavy Duty K Transmission Assy 83741

Pump Model	Impeller Shaft type	Extended Shaft for CAFS Drive	Input Type	Mounting	See Sheet
		No	Standard 1-3/8in. SAE Spline	All	2
CXN, CXS, CXV	One-Piece	No	Hydraulic Flange Adapter	All	3
		Yes	Standard 1-3/8in. SAE Spline	Left	4
CGV, CGVR,	One Diese	NI/A	Standard 1-3/8in. SAE Spline	All	5
CGVG	One-Piece	N/A	Hydraulic Flange Adapter	All	6
CM, CS	Separable	N/A	Standard 1-3/8in. SAE Spline	All	7
		No	Standard 1-3/8in. SAE Spline	All	8
HL200, HL300, HL400	Separable	Vaa	Yes Standard 1-3/8in. SAE Spline	Vertical	9
		res		Left	10
		Oil Cooler Fittings 0	CX, CG		11
	Oil Coole	r Fittings HL200, HL	300, HL400, HLU		12
	Oil Cooler Fit	tings HL400, HLU wi	th Short Intake Fitting		13
		Oil Cooler Fittings 0	CM, CS		14
	Pump Mounting Positi	ons Oil Level, Brea	ther, Drain, and Vent locations		15-18



11	Gear-Driven	
T2	Gear-Drive	
Т3	Case-Transmission	
T4	Pan-Oil, Cooler	
T5	Housing-Bearing	
T6	Cover-Bearing	
T7	Gasket-Molded	
Т8	Shaft-Drive	
Т9	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	T24
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	T41
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	T29—
T28	Stud-Coarse, 1/2-13 x 2-1/4 in	
T29	Washer-Lock, 1/2 in	T30
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	Torque nut to 400-450 LB-FT.
T41	Plate-Serial	Torque nat to 400 400 EB 11.
T44	Bearing, Ball, Single Row, 35 x 80 x 21 mm	
T45	Bearing, Ball, Single Row, 35 x 80 x 21 mm	T39— T13
		T38— T46
T46	Sleeve-Seal, Oil	
T47	Nut-Self Locking, 1-20 UNEF-2B	T44
T48	Key-Square, 3/8 x 1-3/4 in	-T3
	T45—	
	T11—	
	T5—	T8
	T14—	
Impeller shaf		T15
shown for ref	ference \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
See impeller service parts	shaft	T28
corvice parte		-T12
		T29
		T26
		T25
		T26— T7
		T25
		T4

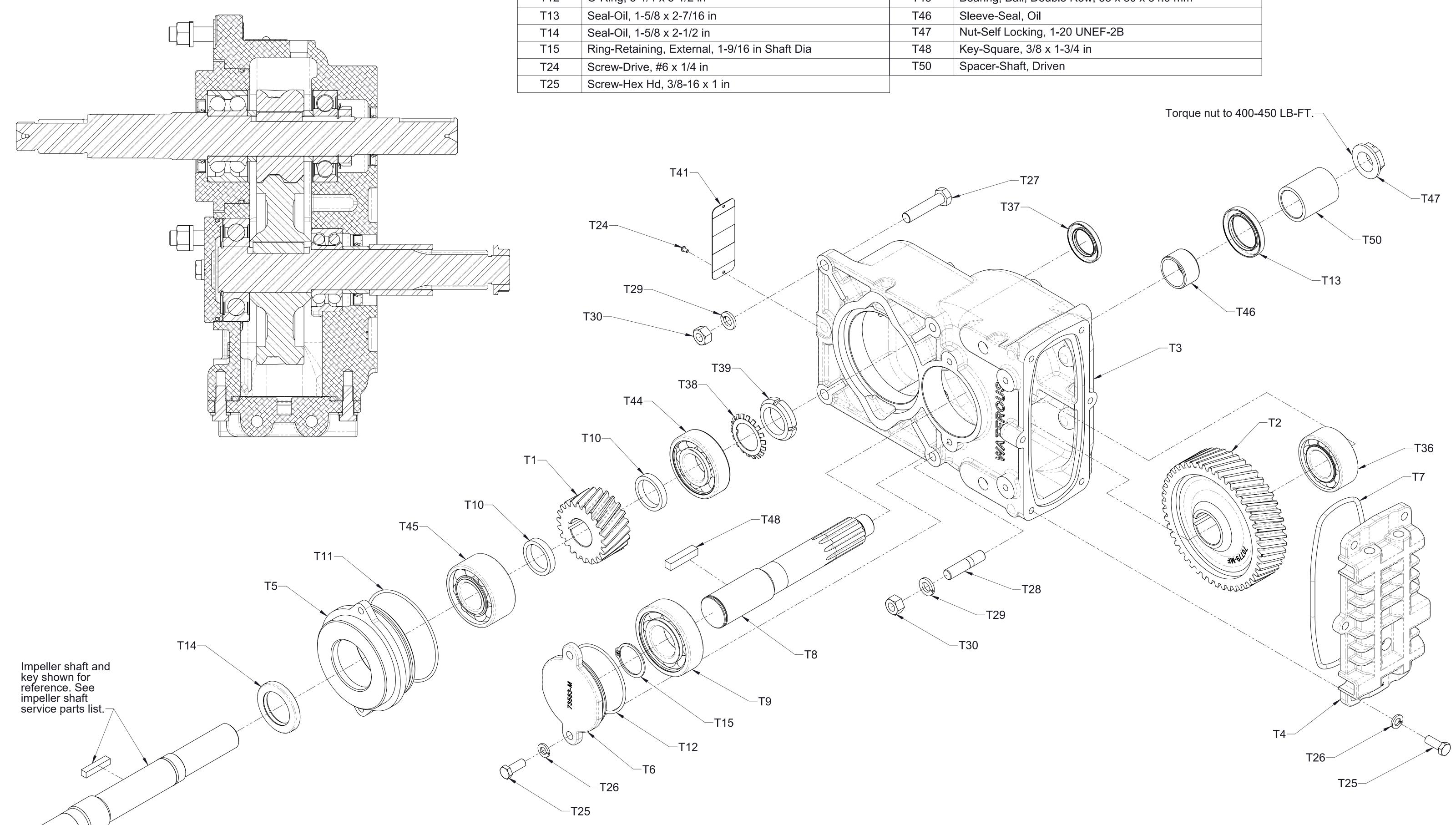
T1

Gear-Driven

11	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, 40 x 90 x 23 mm	T24
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	T32—
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
T27	Screw-Hex Hd, 1/2-13 x 2-1/4 in	
T28	Stud-Coarse, 1/2-13 x 2-1/4 in	T48
T29	Washer-Lock, 1/2 in	T29—
T30	Nut-Hex, 1/2-13	T33
T31	Bushing-Adapter	T30
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	T39— — T8
T41	Plate-Serial	
T44	Bearing, Ball, Single Row, 35 x 80 x 21 mm	T44— T38— T2
T45	Bearing, Ball, Double Row, 35 x 80 x 34.9 mm	T3
T48	Key-Square, 3/8 x 1-3/4 in	
	T45—	
	T11—	The second of th
	T5—	
	T14—	
		T15
Impeller shaft shown for refe	and key	
See impeller s service parts I	shaft	T12
service parts l	list.	
		T26
		T25
		-T29
		T30 T26
		T25

Gear-Driven

Ref No.	Description	Ref No.	Description
T1	Gear-Driven	T26	Washer-Lock, 3/8 in
T2	Gear-Drive	T27	Screw-Hex Hd, 1/2-13 x 2-1/4 in
T3	Case-Transmission	T28	Stud-Coarse, 1/2-13 x 2-1/4 in
T4	Pan-Oil, Cooler	T29	Washer-Lock, 1/2 in
T5	Housing-Bearing	T30	Nut-Hex, 1/2-13
T6	Cover-Bearing	T36	Bearing, Ball, Double Row, 35 x 72 x 27 mm
T7	Gasket-Molded	T37	Seal-Oil, 1-1/4 x 2 in
Т8	Shaft-Drive, Extended	T38	Washer-Lock, Bearing, W07
T9	Bearing, Ball, Single Row, 40 x 90 x 23 mm	T39	Nut-Lock, Bearing, N07
T10	Spacer-Shaft, Impeller	T41	Plate-Serial
T11	O-Ring, 4-3/8 x 4-5/8 in	T44	Bearing, Ball, Single Row, 35 x 80 x 21 mm
T12	O-Ring, 3-1/4 x 3-1/2 in	T45	Bearing, Ball, Double Row, 35 x 80 x 34.9 mm
T13	Seal-Oil, 1-5/8 x 2-7/16 in	T46	Sleeve-Seal, Oil
T14	Seal-Oil, 1-5/8 x 2-1/2 in	T47	Nut-Self Locking, 1-20 UNEF-2B
T15	Ring-Retaining, External, 1-9/16 in Shaft Dia	T48	Key-Square, 3/8 x 1-3/4 in
T24	Screw-Drive, #6 x 1/4 in	T50	Spacer-Shaft, Driven
T25	Screw-Hex Hd, 3/8-16 x 1 in		



Transmission Assembly
One Piece Impeller Shaft, 1-3/8in. SAE Splined Input
With Extended Shaft for CAFS Drive
CXN, CXS, CXV

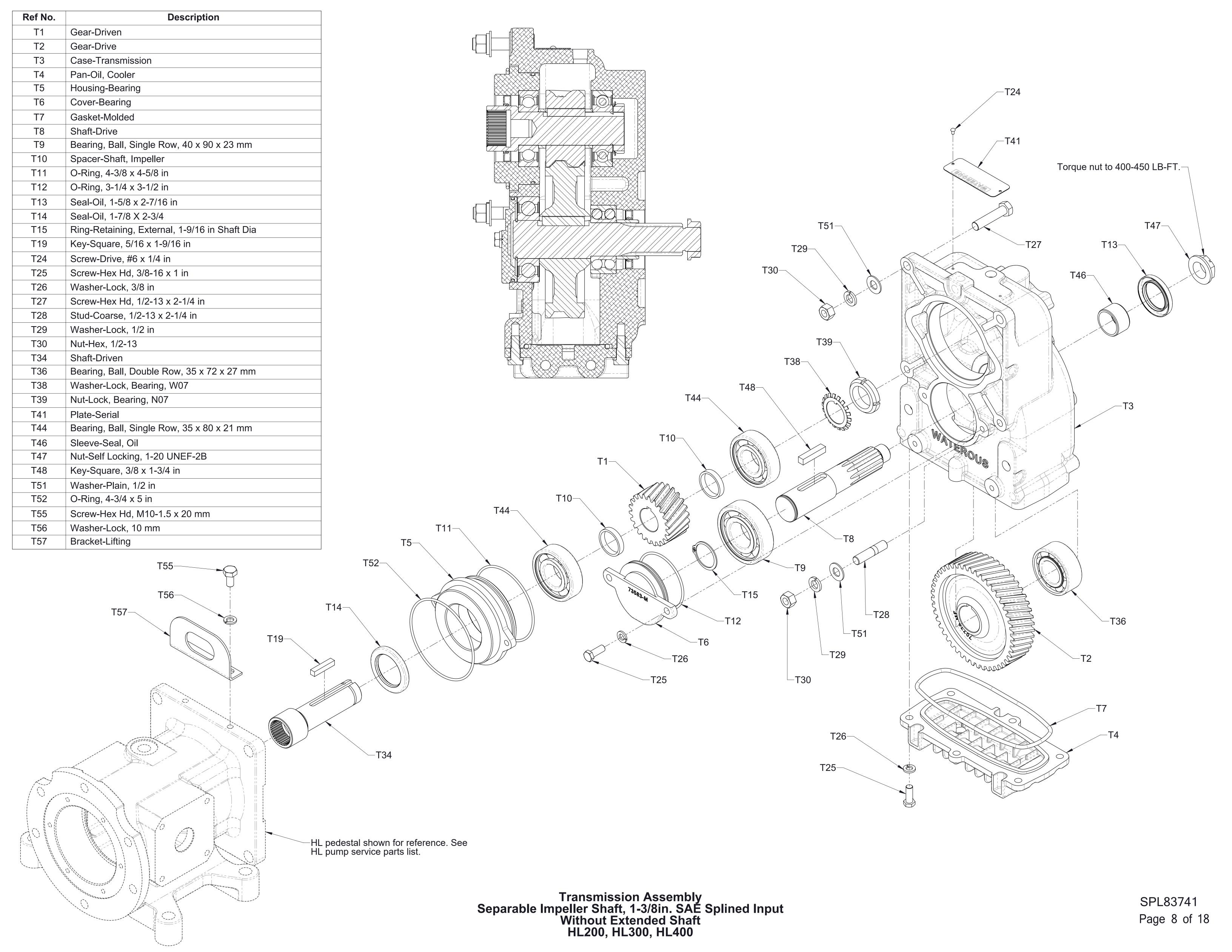
SPL83741 Page 4 of 18

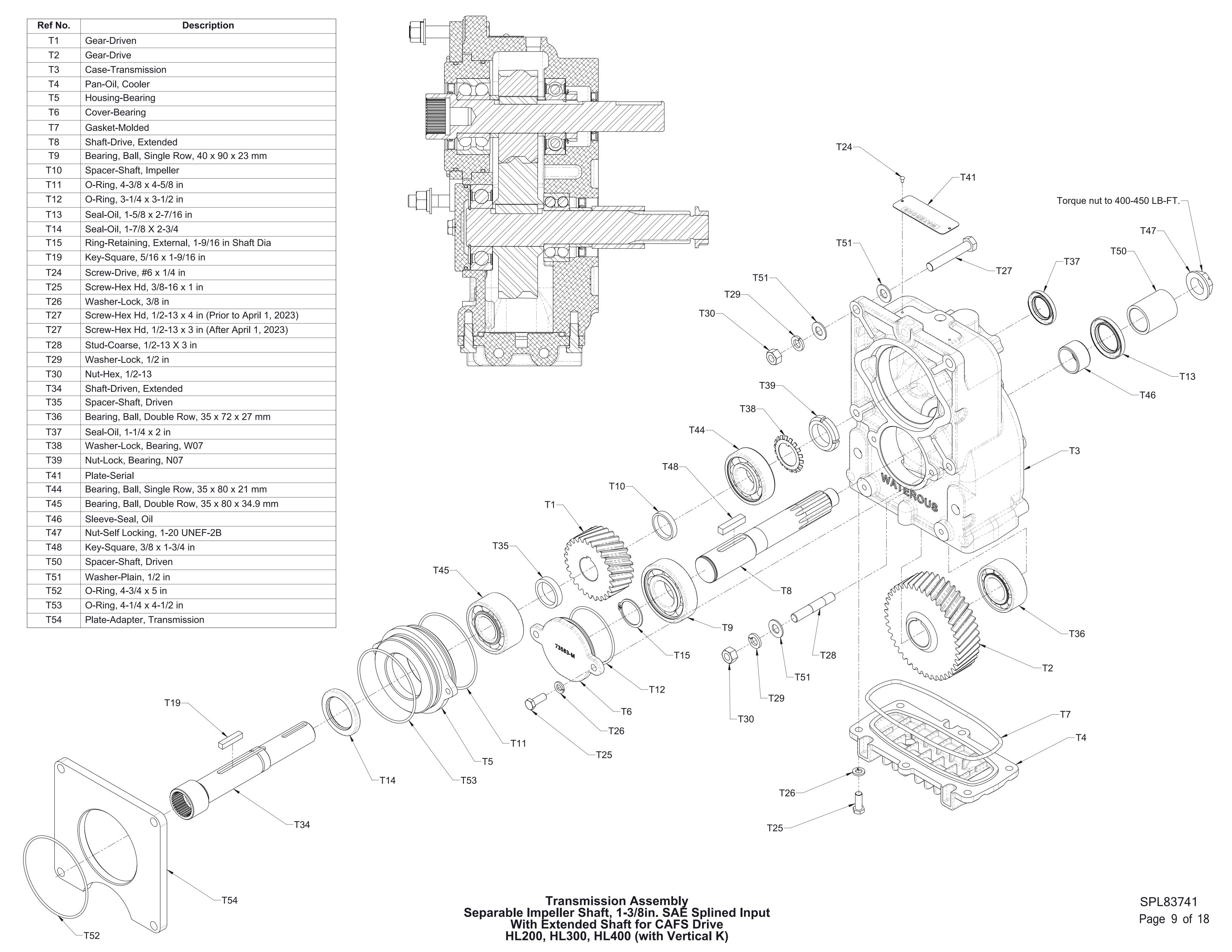
et No.	Description
T1	Gear-Driven
T2	Gear-Drive
Т3	Case-Transmission
T4	Pan-Oil, Cooler
T5	Housing-Bearing
Т6	Cover-Bearing
T6	Disk-Cover
Т7	Gasket-Molded
Т8	Shaft-Drive
Т9	Bearing, Ball, Single Row, 40 x 90 x 23 mm
T10	Spacer-Shaft, Impeller
T11	O-Ring, 4-3/8 x 4-5/8 in
T12	O-Ring, 3-1/4 x 3-1/2 in
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
	T 4 4
	T44—
	T11—
	T5—
	T14—
Impoller ob	off and
Impeller sh key shown reference. impeller sh	aft and for
reference.	See \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
service par	ts list.
	With vertical or inverted transmis
C	

T2 T3 T4 T5 T6 T6 T7 T8 T9 T10 T11 T12 T13 T14	Gear-Drive Gear-Drive Case-Transmission Pan-Oil, Cooler Housing-Bearing Disk-Cover Cover-Bearing Gasket-Molded Shaft-Drive Bearing, Ball, Single Row, 40 x 90 x 23 mm Spacer-Shaft, Impeller O-Ring, 4-3/8 x 4-5/8 in O-Ring, 3-1/4 x 3-1/2 in Seal-Oil, 1-5/8 x 2-7/16 in Seal-Oil, 1-5/8 x 2-1/2 in Ring-Retaining, External, 1-9/16 in Shaft Dia	T24— T31— T13	
	Screw-Drive, #6 x 1/4 in Screw-Hex Hd, 3/8-16 x 1 in	T29	
	Washer-Lock, 3/8 in Screw-Hex Hd, 1/2-13 x 2-1/4 in		_Т33
	Stud-Coarse, 1/2-13 x 2-1/4 in		
T29	Washer-Lock, 1/2 in		
	Nut-Hex, 1/2-13		
	Bushing-Adapter Adapter Cose Cose Class C. Hyd Meter		Taa
	Adapter-Case Gear, Class C, Hyd Motor Screw-Cap, Hex Soc Hd, 7/16-14 x 1-1/4 in		−T32
	Spacer-Shaft, Impeller	T39	
	Bearing, Ball, Double Row, 40 x 80 x 30.2 mm	T38—	
T38	Washer-Lock, Bearing, W07	T44	
	Nut-Lock, Bearing, N07		
	Plate-Serial	T10————————————————————————————————————	
	Bearing, Ball, Single Row, 35 x 80 x 21 mm Key-Square, 3/8 x 1-3/4 in		
kev shov	shaft and vn for e. See shaft parts list. With vertical inverted train	T16 T28 T28	
		Transmission Assembly One Piece Impeller Shaft, SAE Class C Hydraulic Adapter Without Extended Shaft CGV, CGVG, CGVR	SPL83741 Page 6 of 18

Ref No.

T1	Gear-Driven		
T2	Gear-Drive		
Т3	Case-Transmission		
T4	Pan-Oil, Cooler		
T5	Housing-Bearing		
T6	Cover-Bearing		
T7	Gasket-Molded	$ au \circ A$	
T8	Shaft-Drive Pooring Poll Single Pow 40 x 00 x 22 mm	T24	
T9 T10	Bearing, Ball, Single Row, 40 x 90 x 23 mm Spacer-Shaft, Impeller		
T11	O-Ring, 4-3/8 x 4-5/8 in		
T12	O-Ring, 4-3/8 x 4-3/8 in		
T13	Seal-Oil, 1-5/8 x 2-7/16 in		
T14	Seal-Oil, 1-3/8 X 2-7/10 III 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	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		
T29	Washer-Lock, 1/2 in		D ET
T30	Nut-Hex, 1/2-13	Torque nut to 400-450 LI	B-FI.
T34	Shaft-Driven	T13	
T36	Bearing, Ball, Double Row, 35 x 72 x 27 mm	T39—	
T38	Washer-Lock, Bearing, W07	T38— \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
T39	Nut-Lock, Bearing, N07	T48—	
T41 T44	Plate-Serial Pooring Pall Single Pow 35 x 90 x 21 mm		
T46	Bearing, Ball, Single Row, 35 x 80 x 21 mm Sleeve-Seal, Oil	T44	
T47	Nut-Self Locking, 1-20 UNEF-2B	T10	
T48	Key-Square, 3/8 x 1-3/4 in	T10	
T49	Boot-Sealing		
T49	T11— T19— T34— T19— T19— T19— T19— T19— T19— T19— T19	T10— T26 T12 T29 T25 T6 Prior to March 19, 2024 T26 T26 T27 T7	
		Concroble Impeller Chaft 1 2/0in CAE Calined Input	PL83741 age 7 of 18



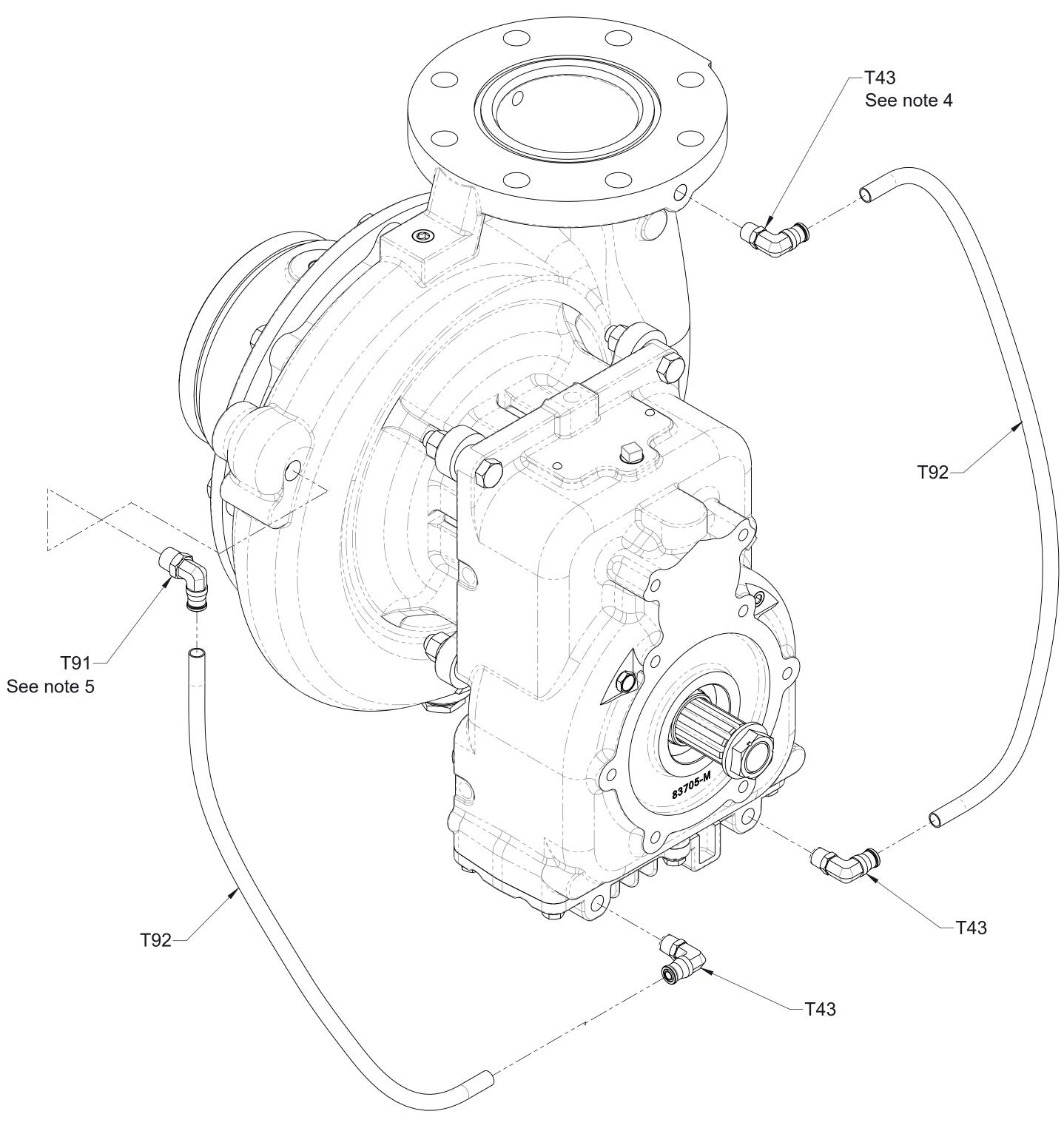


Ret No.	Description		
T1	Gear-Driven		
T2	Gear-Drive		
Т3	Case-Transmission		
T4	Pan-Oil, Cooler		
T5	Housing-Bearing		
T6	Cover-Bearing		
T7	Gasket-Molded		
T8	Shaft-Drive, Extended		
T9	Bearing, Ball, Single Row, 40 x 90 x 23 mm		T
T10	Spacer-Shaft, Impeller		Torque nut to 400-450 LB-FT.
T11	O-Ring, 4-3/8 x 4-5/8 in		
T12	O-Ring, 3-1/4 x 3-1/2 in	T3—	
T13	Seal-Oil, 1-5/8 x 2-7/16 in	T24—	T 4 7
			T47—
T14	Seal-Oil, 1-7/8 X 2-3/4	$ ag{T37}$	T50—\
T15	Ring-Retaining, External, 1-9/16 in Shaft Dia		
	Key-Square, 5/16 x 1-9/16 in	T41—	The state of the s
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	T51—	
T28	Stud-Coarse, 1/2-13 X 3 in	T29—	
T29	Washer-Lock, 1/2 in	T30—	
T30	Nut-Hex, 1/2-13		
T34	Shaft-Driven, Extended	T39—	T46
T35	Spacer-Shaft, Driven	T39	
T36	Bearing, Ball, Double Row, 35 x 72 x 27 mm	T38—	
T37	Seal-Oil, 1-1/4 x 2 in		
T38	Washer-Lock, Bearing, W07		
T39	Nut-Lock, Bearing, N07		T36
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	T35—	
T46	Sleeve-Seal, Oil	T45—	
T47	Nut-Self Locking, 1-20 UNEF-2B		
T48	Key-Square, 3/8 x 1-3/4 in		
T50	Spacer-Shaft, Driven	TO TOO	
T51	Washer-Plain, 1/2 in	T8	
T52	O-Ring, 4-3/4 x 5 in		2—
T53	O-Ring, 4-1/4 x 4-1/2 in		
T54	Plate-Adapter, Transmission	T29	T7-
104	Tiate-Adapter, Transmission		
	T19—		T4-/
		T15	
		T12	T26-
			T25—
		T_{5}	
		T53 T11 \ T56	
0 ~			
		T14	
	TO 4		
	T34		
	[_] _T52	Transmission Assembly	SPL83741
		Transmission Assembly Separable Impeller Shaft, 1-3/8in. SAE Splined Input	
		With Extended Shaft for CAFS Drive	Page 10 of 18
		HL200, HL300, HL400 (with Left K)	

Description

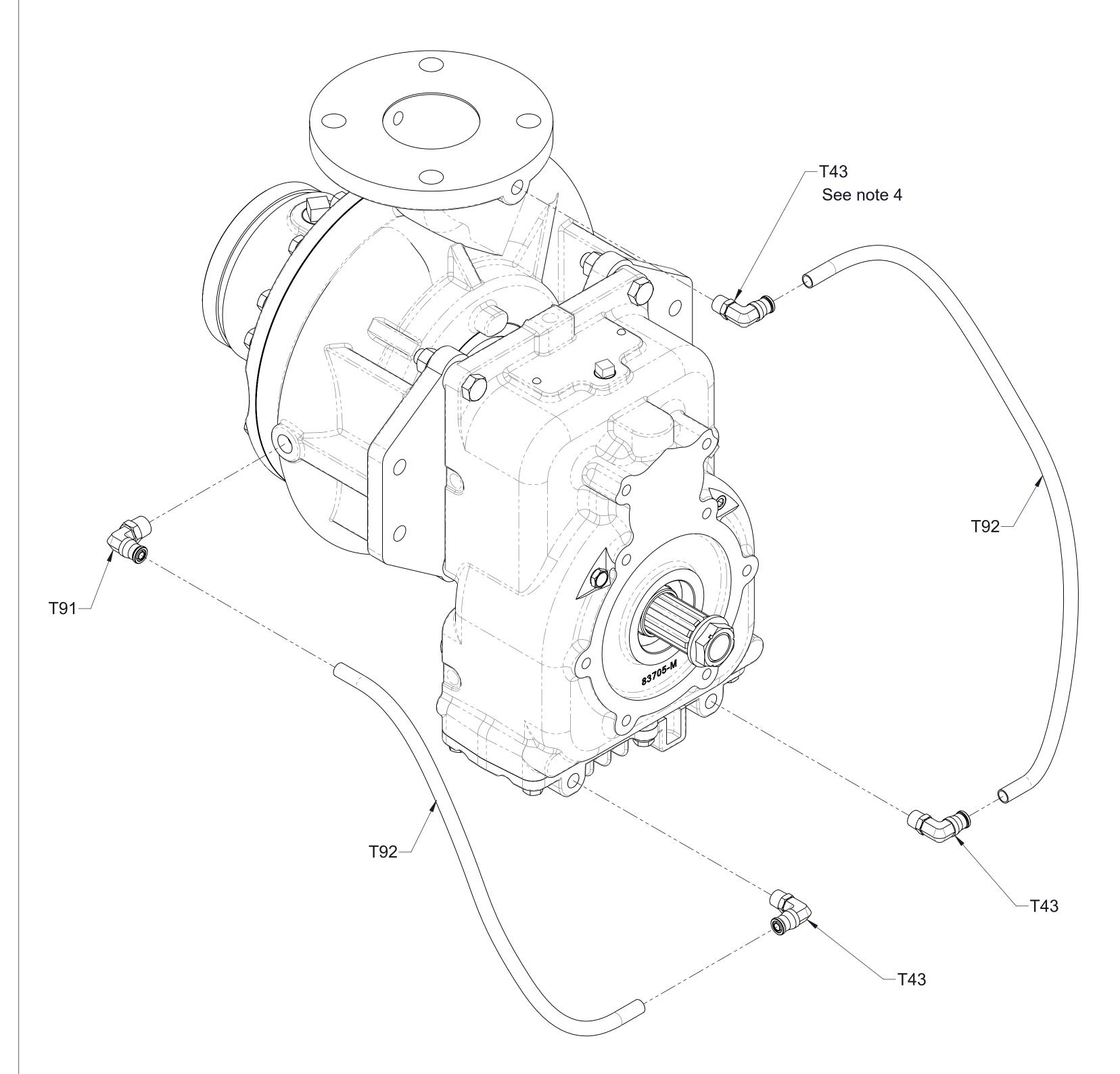
Ref No.

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



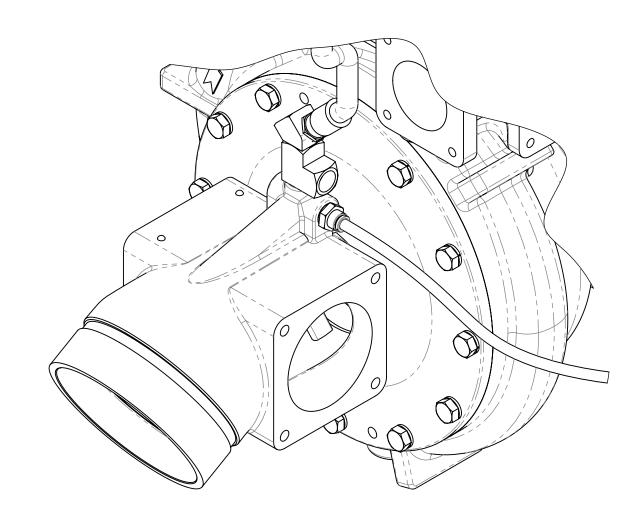
- Notes:
 CW input, vertical transmission, discharge UP shown.
 Tubing to be cut to required length depending on input rotation and pump/transmission orientation.
 Route hoses so water drains either through pump or oil cooler
 Elbow on disharge flange may need to be mounted on opposite side of flange if there is interferance with the transmission in certain configurations.
 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

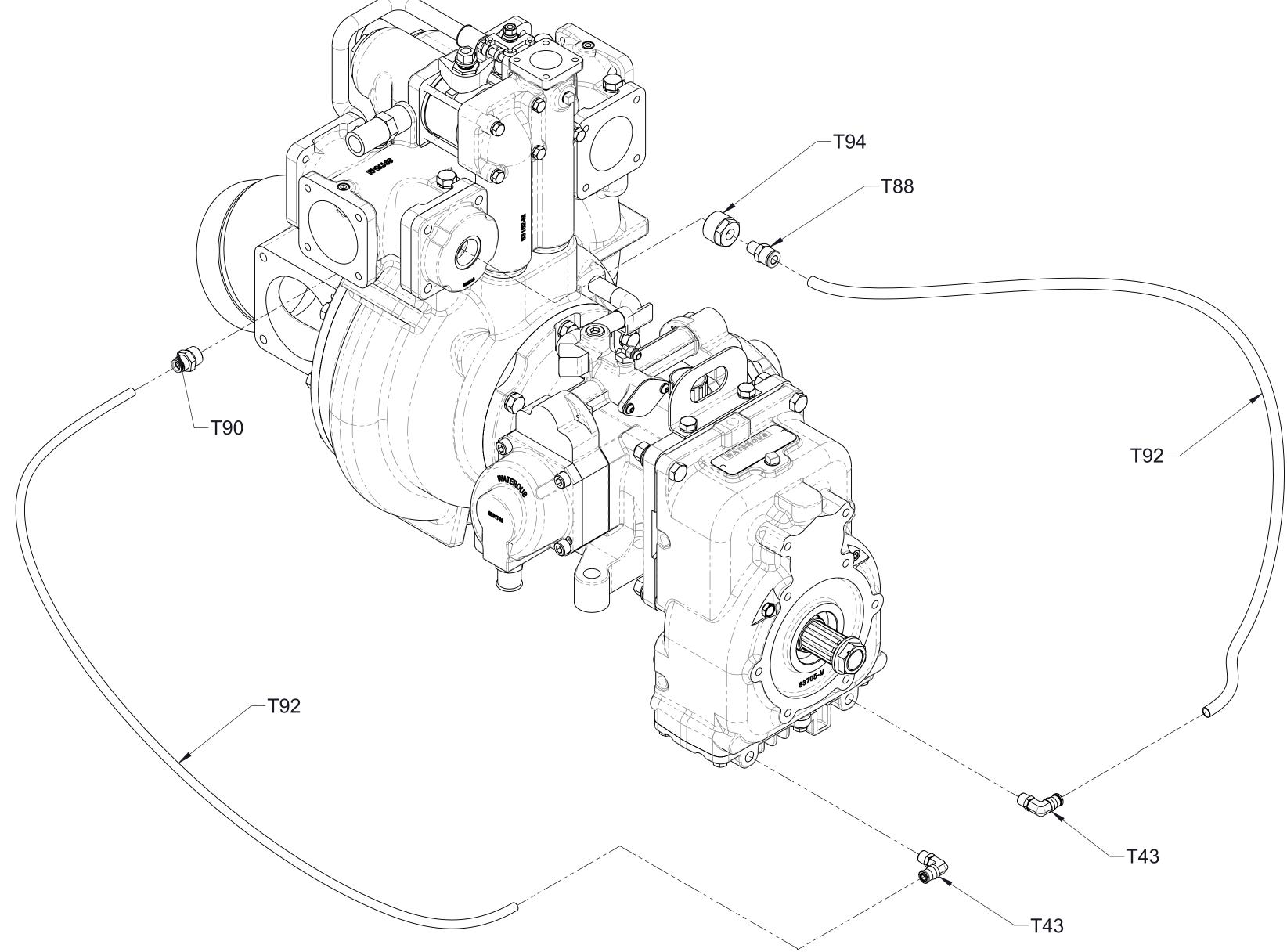


- CW input, vertical transmission, discharge UP shown.
 Tubing to be cut to required length depending on input rotation and pump/transmission orientation.
 Route hoses so water drains either through pump or oil cooler
 Elbow on disharge flange may be mounted on opposite side of flange if it provides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

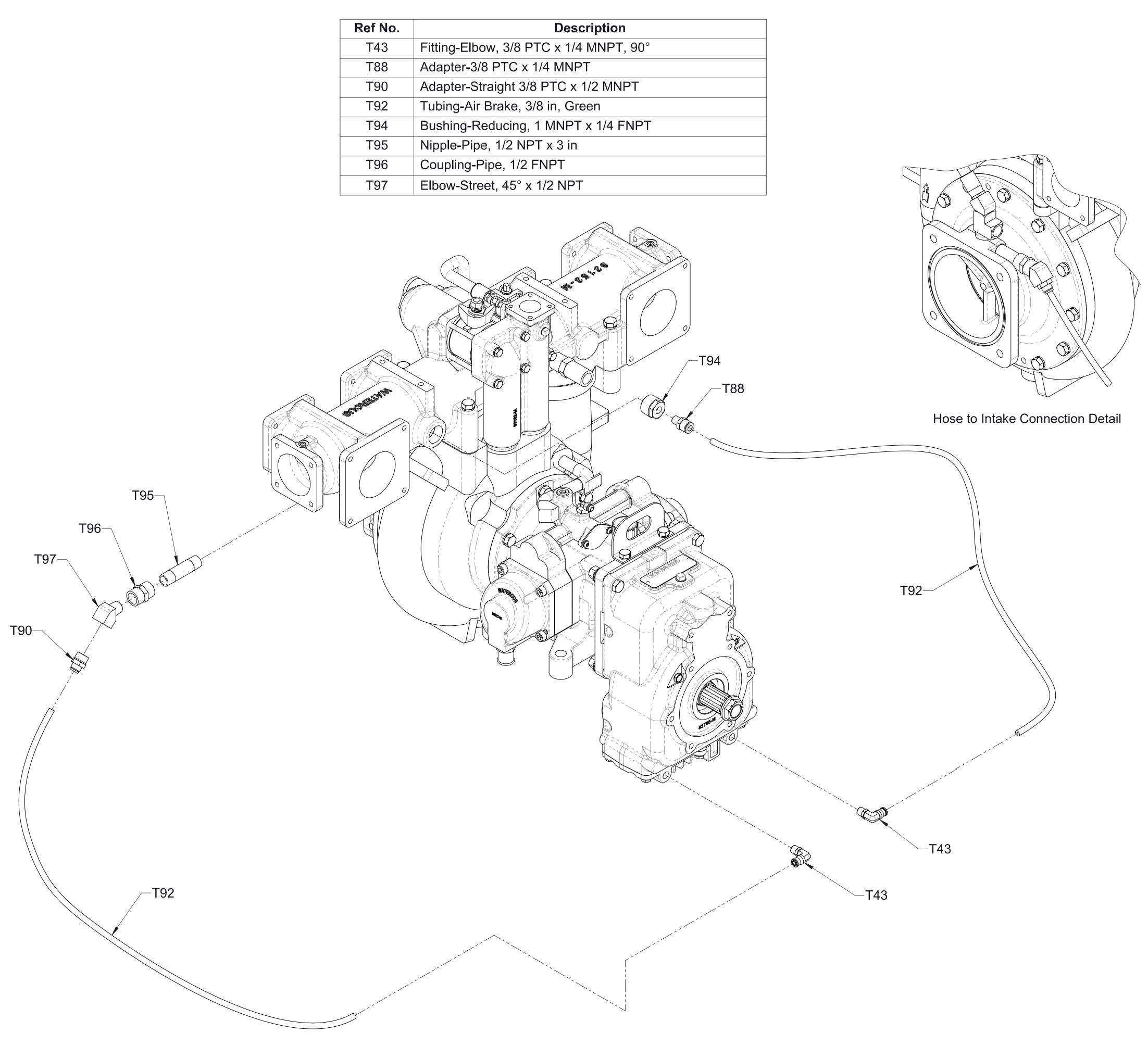
Ref No.	Description
T43	Fitting-Elbow, 3/8 PTC x 1/4 MNPT, 90°
T88	Adapter-3/8 PTC x 1/4 MNPT
T90	Adapter-Straight 3/8 PTC x 1/2 MNPT
T92	Tubing, 3/8, Green
T94	Bushing-Reducing, 1 MNPT x 1/4 FNPT



Hose to Intake Connection Detail

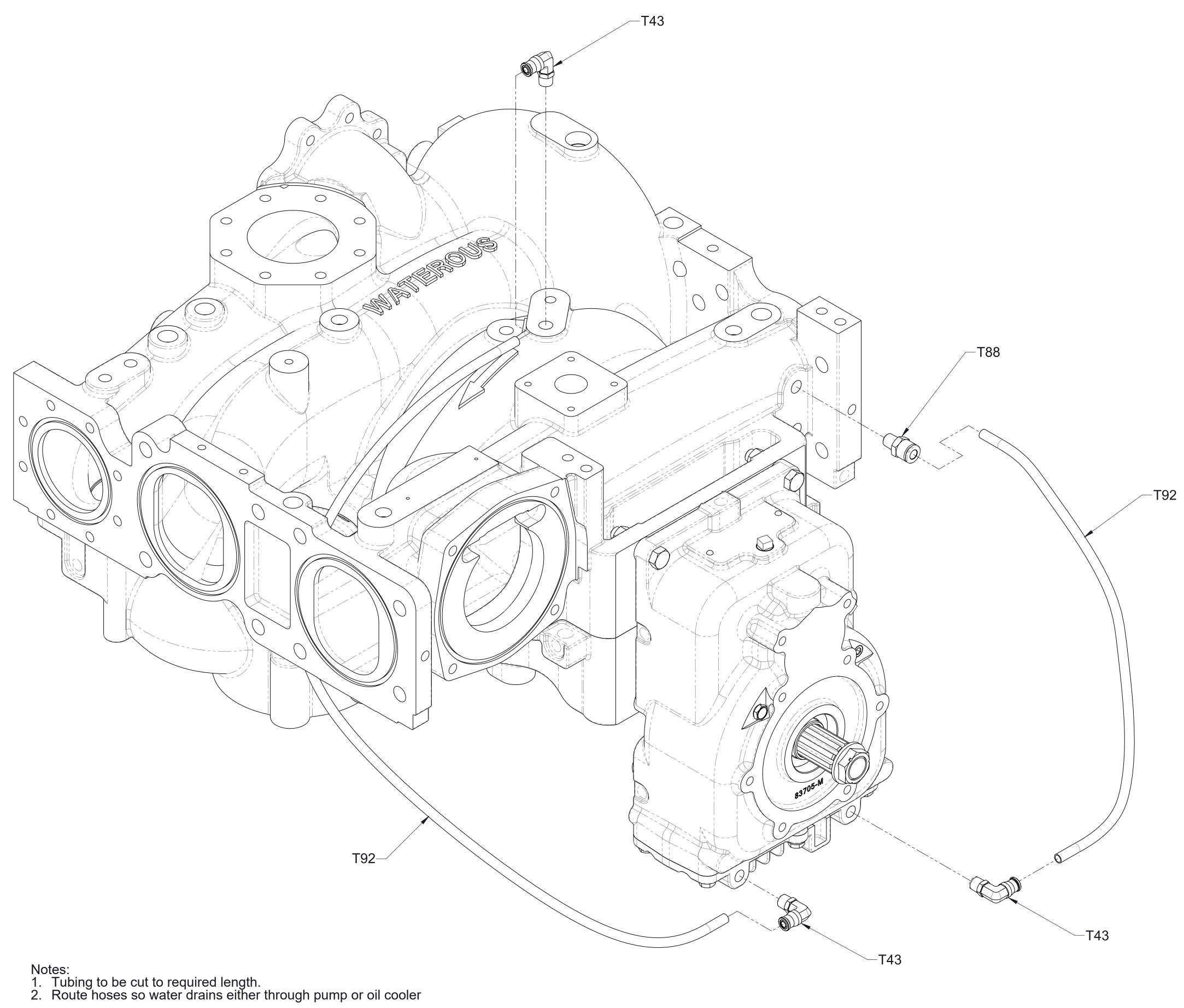


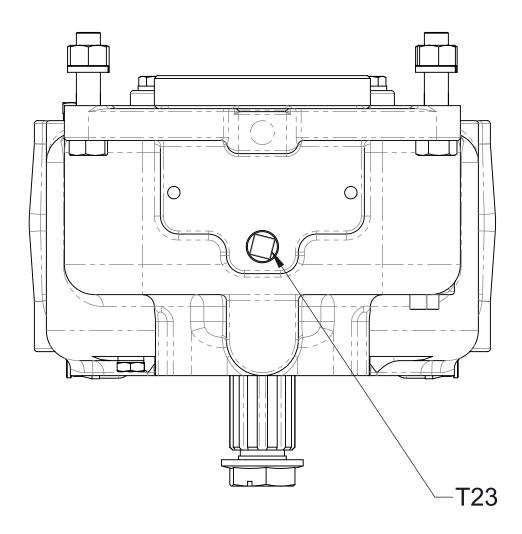
- Notes:
 1. CW input and vertical transmission shown.
 2. Tubing to be cut to required length depending on input rotation and transmission orientation.
 3. Route hoses so water drains either through pump or oil cooler
 4. Cooler lines feeding into oil cooler may be swapped for a better hose routing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



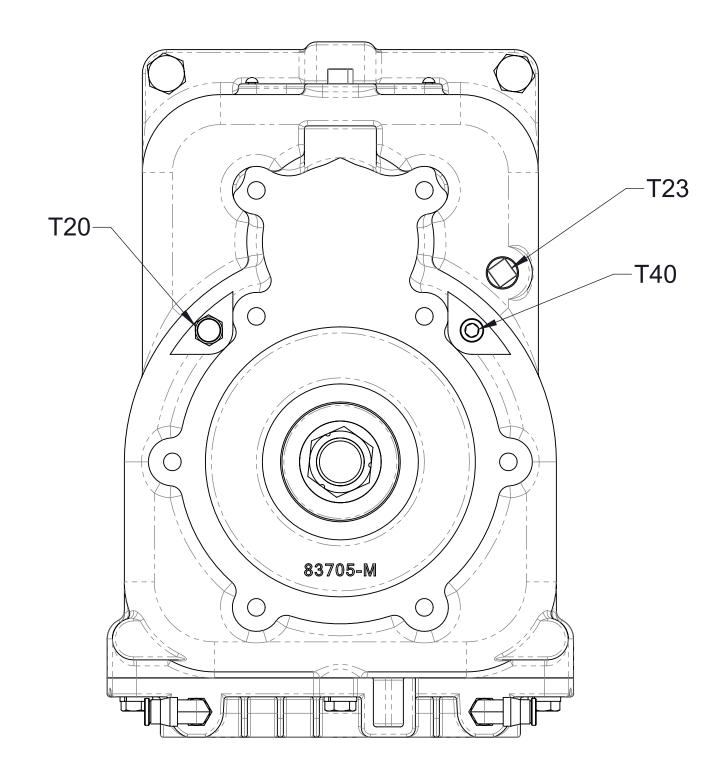
- Notes:
 1. CW input and vertical transmission shown.
 2. Tubing to be cut to required length depending on input rotation and transmission orientation.
 3. Route hoses so water drains either through pump or oil cooler
 4. Cooler lines feeding into oil cooler may be swapped for a better hose routing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

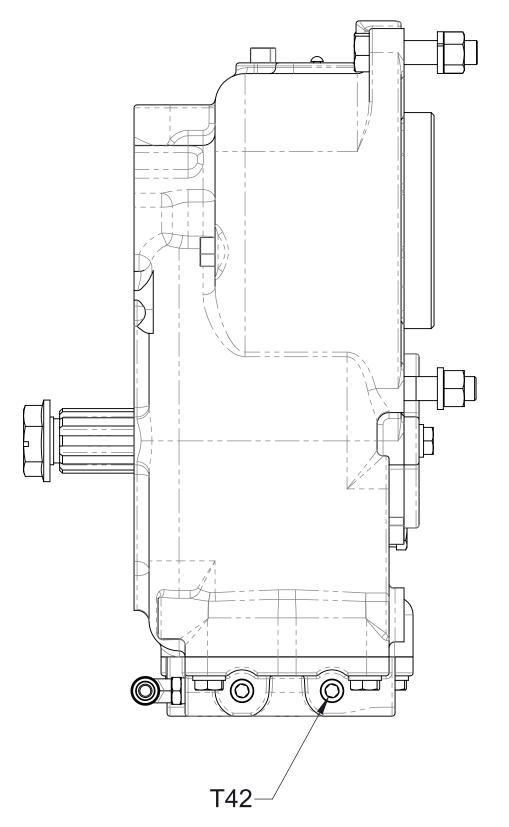
Ref No.	Description
T43	Fitting-Elbow, 3/8 PTC x 1/4 MNPT, 90°
T88	Adapter-3/8 PTC x 1/4 MNPT
T92	Tubing, 3/8, Green

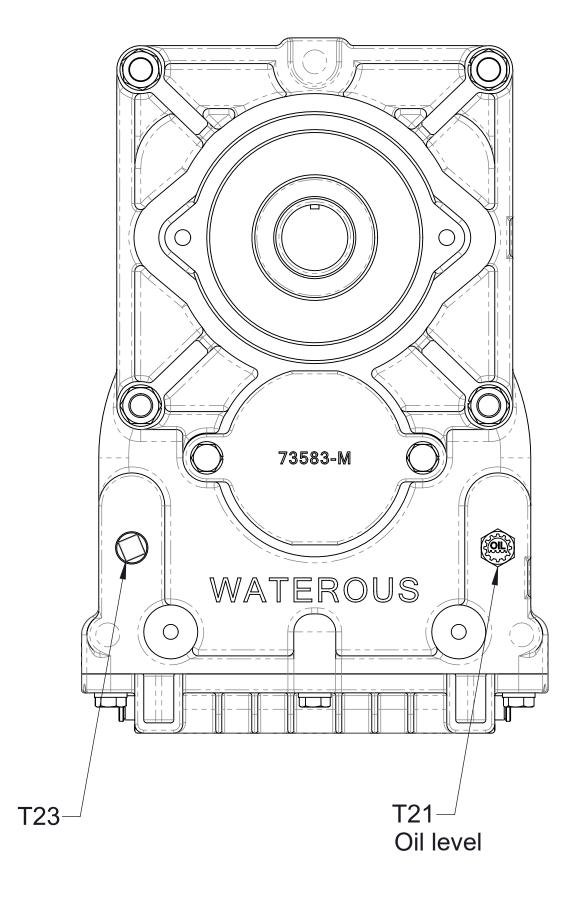


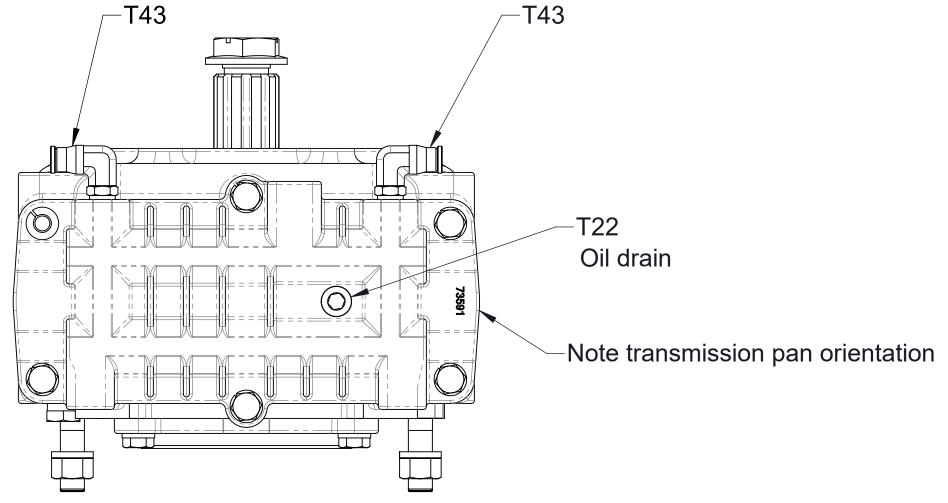


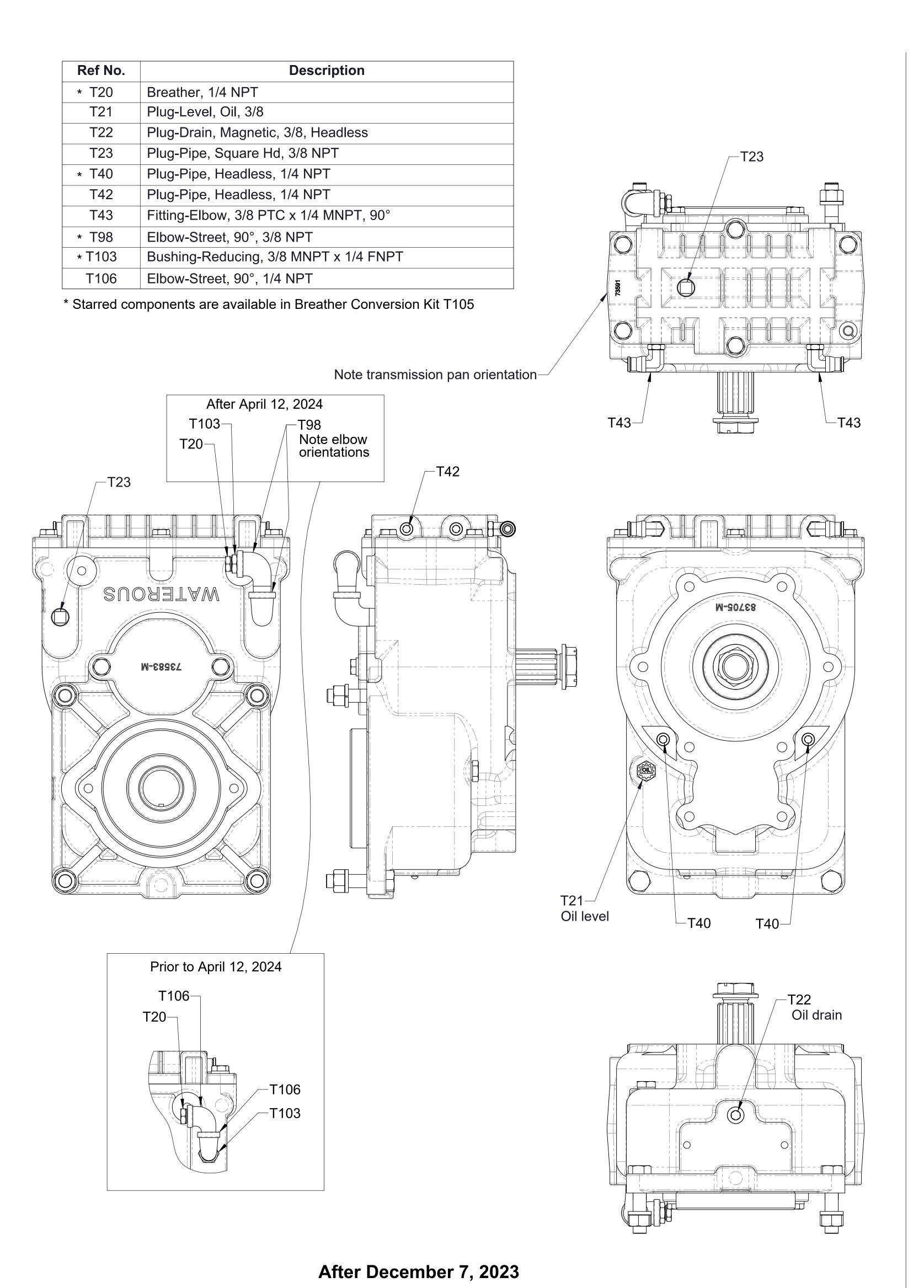
Ref No.	Description
T20	Breather, 1/4 NPT
T21	Plug-Level, Oil, 3/8
T22	Plug-Drain, Magnetic, 3/8, Headless
T23	Plug-Pipe, Square Hd, 3/8 NPT
T40	Plug-Pipe, Headless, 1/4 NPT
T42	Plug-Pipe, Headless, 1/4 NPT
T43	Fitting-Elbow, 3/8 PTC x 1/4 MNPT, 90°

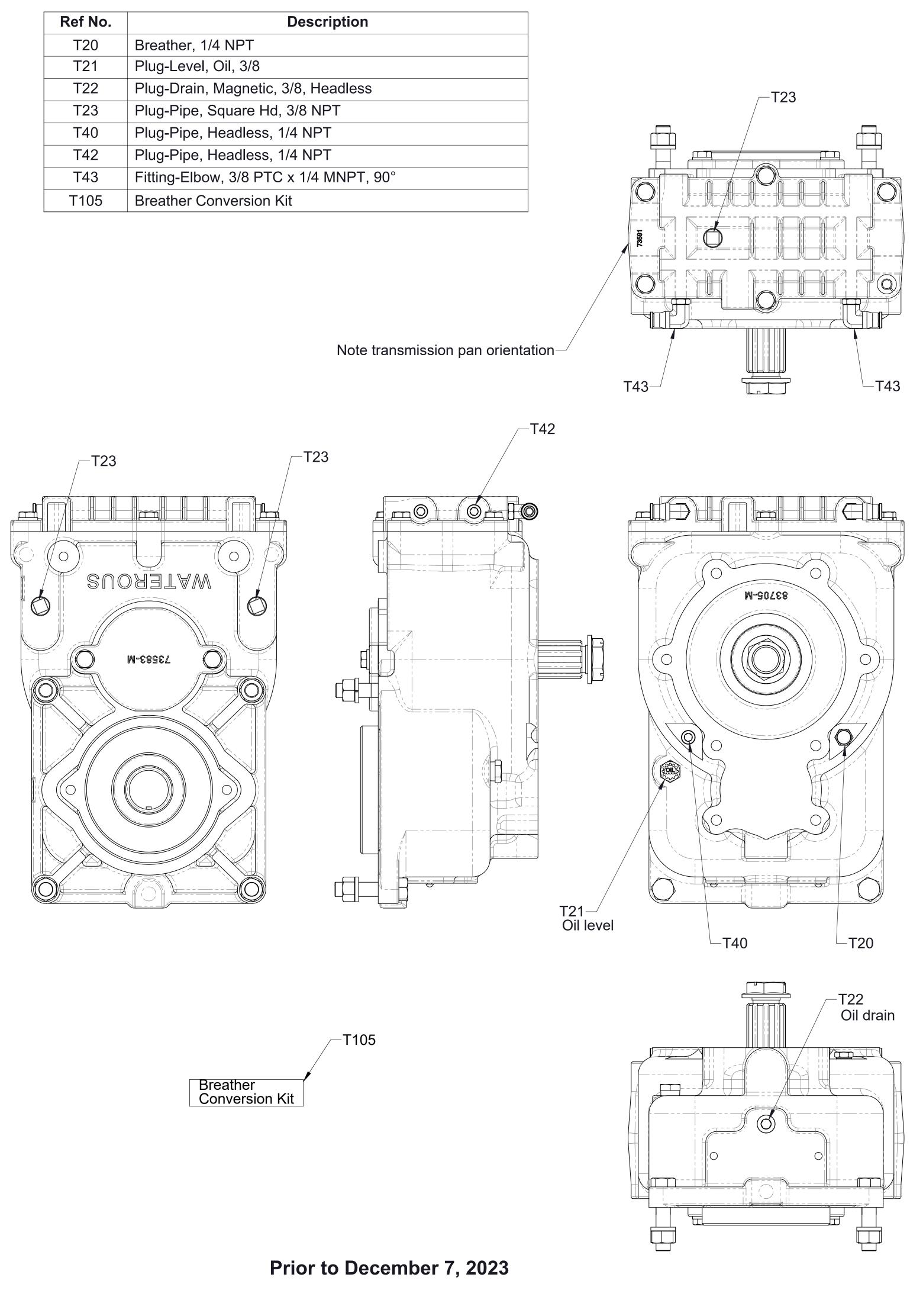








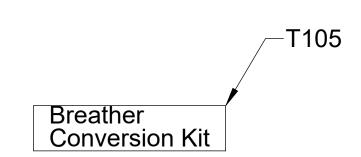


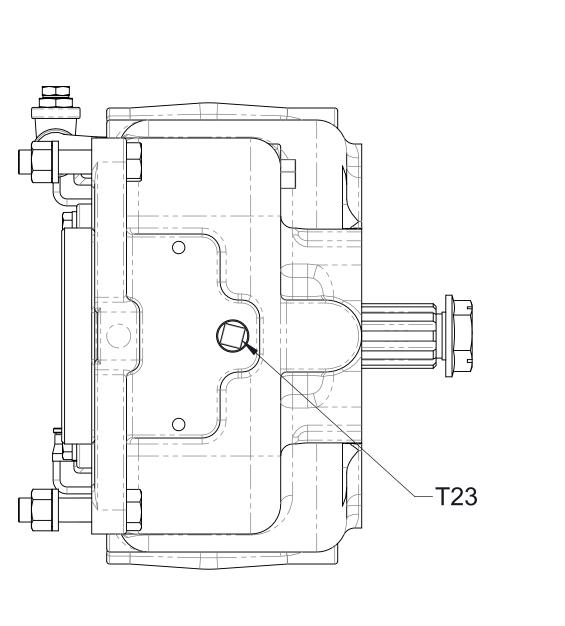


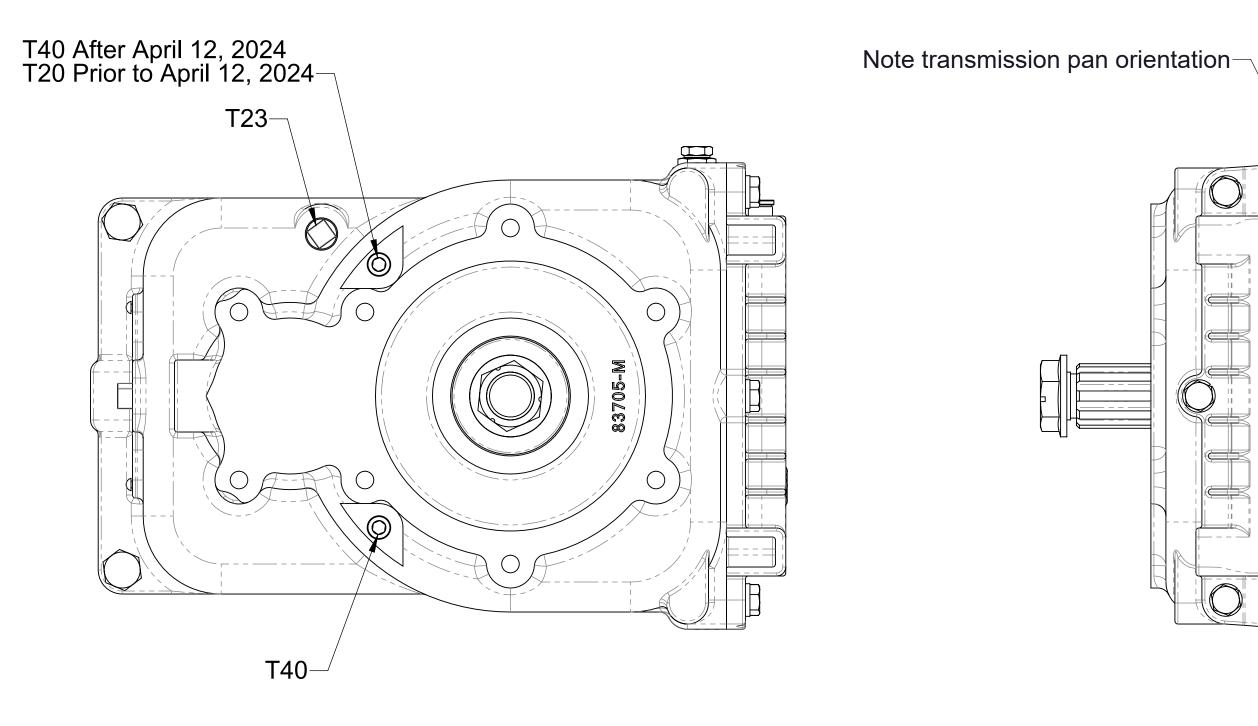
Breather, Drain, Oil Level, Plug, and Cooler Elbow Locations Inverted Mounting Position

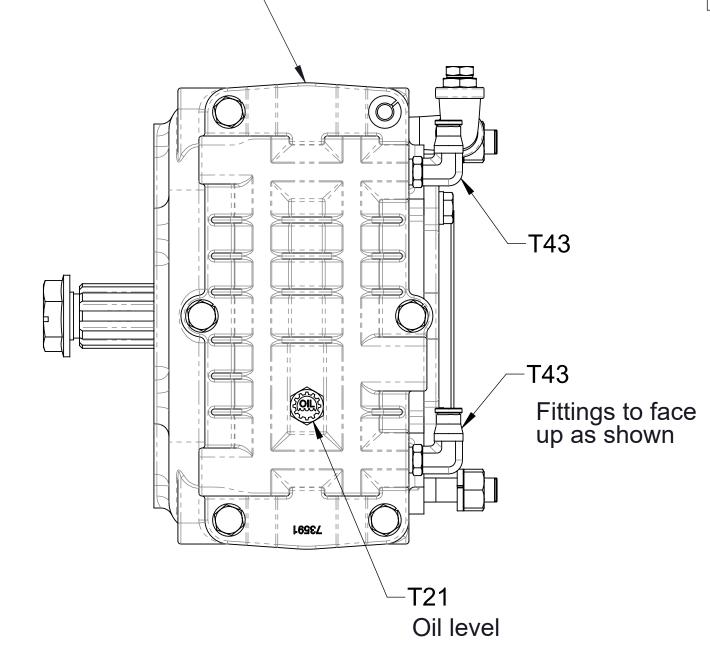
Ref No.	Description	
* T20	Breather, 1/4 NPT	
T21	Plug-Level, Oil, 3/8	
T22	Plug-Drain, Magnetic, 3/8, Headless	
T23	Plug-Pipe, Square Hd, 3/8 NPT	
* T40	Plug-Pipe, Headless, 1/4 NPT	
T42	Plug-Pipe, Headless, 1/4 NPT	
T43	Fitting-Elbow, 3/8 PTC x 1/4 MNPT, 90°	
* T98	Elbow-Street, 90°, 3/8 NPT	
* T103	Bushing-Reducing, 3/8 MNPT x 1/4 FNPT	
T105	Breather Conversion Kit	

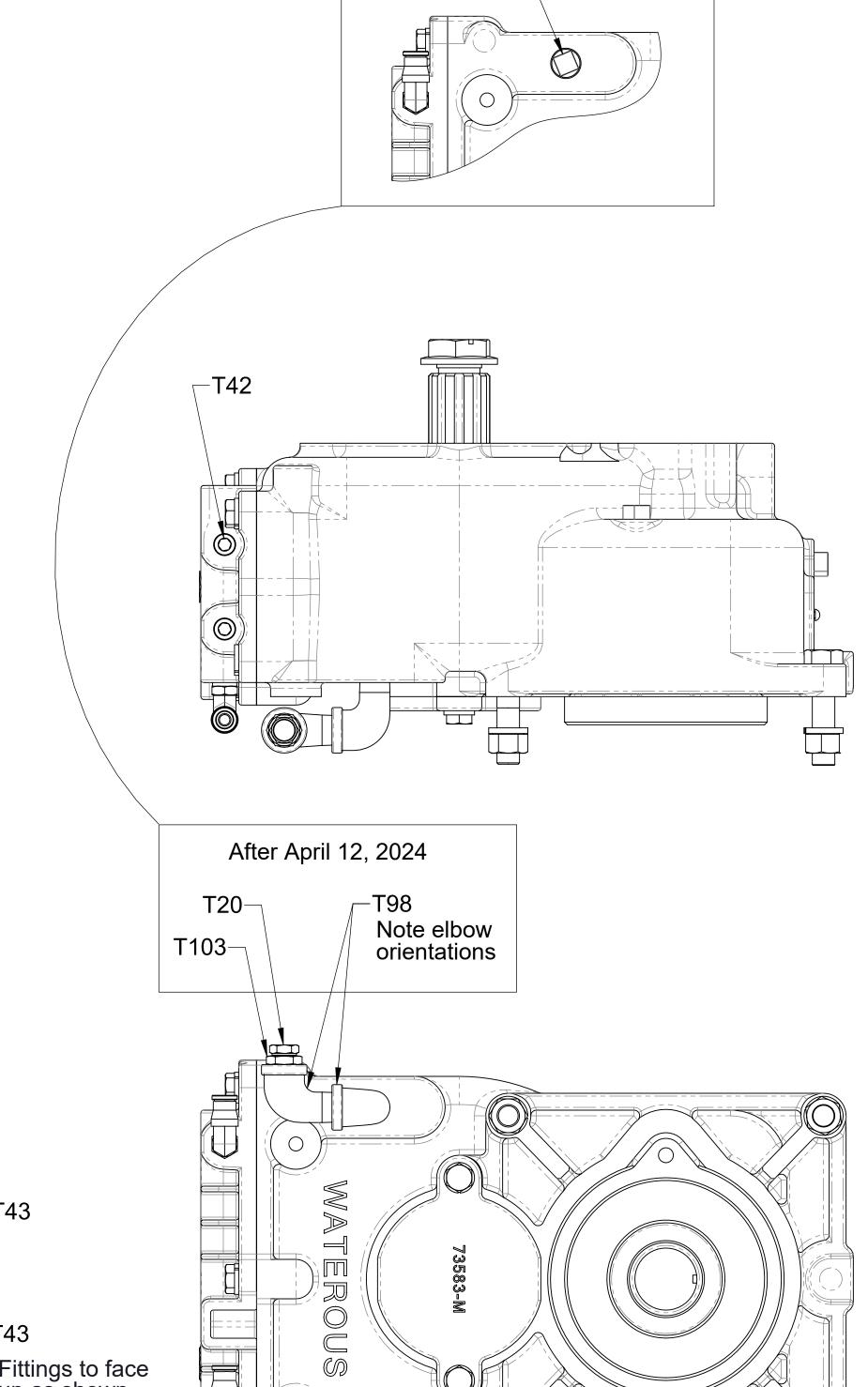
^{*} Starred components are available in Breather Conversion Kit T105









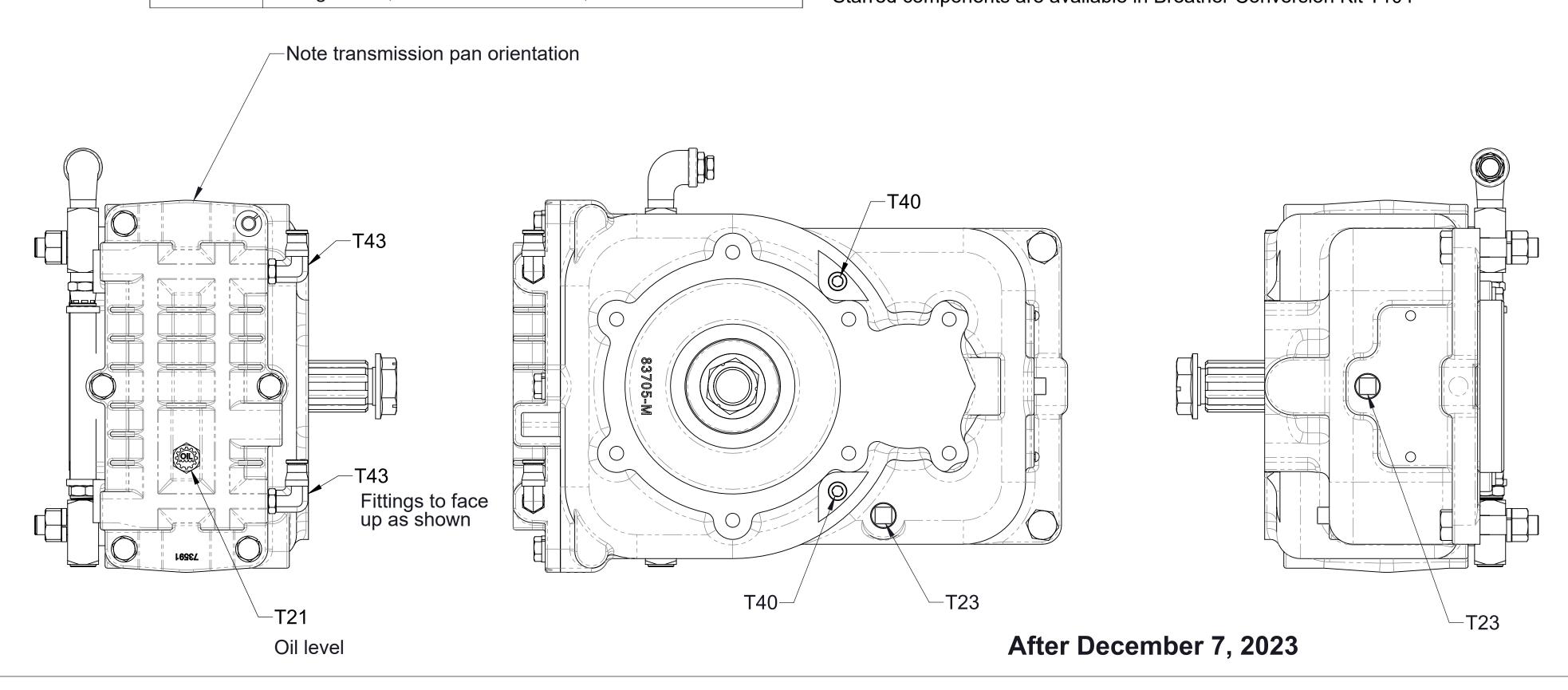


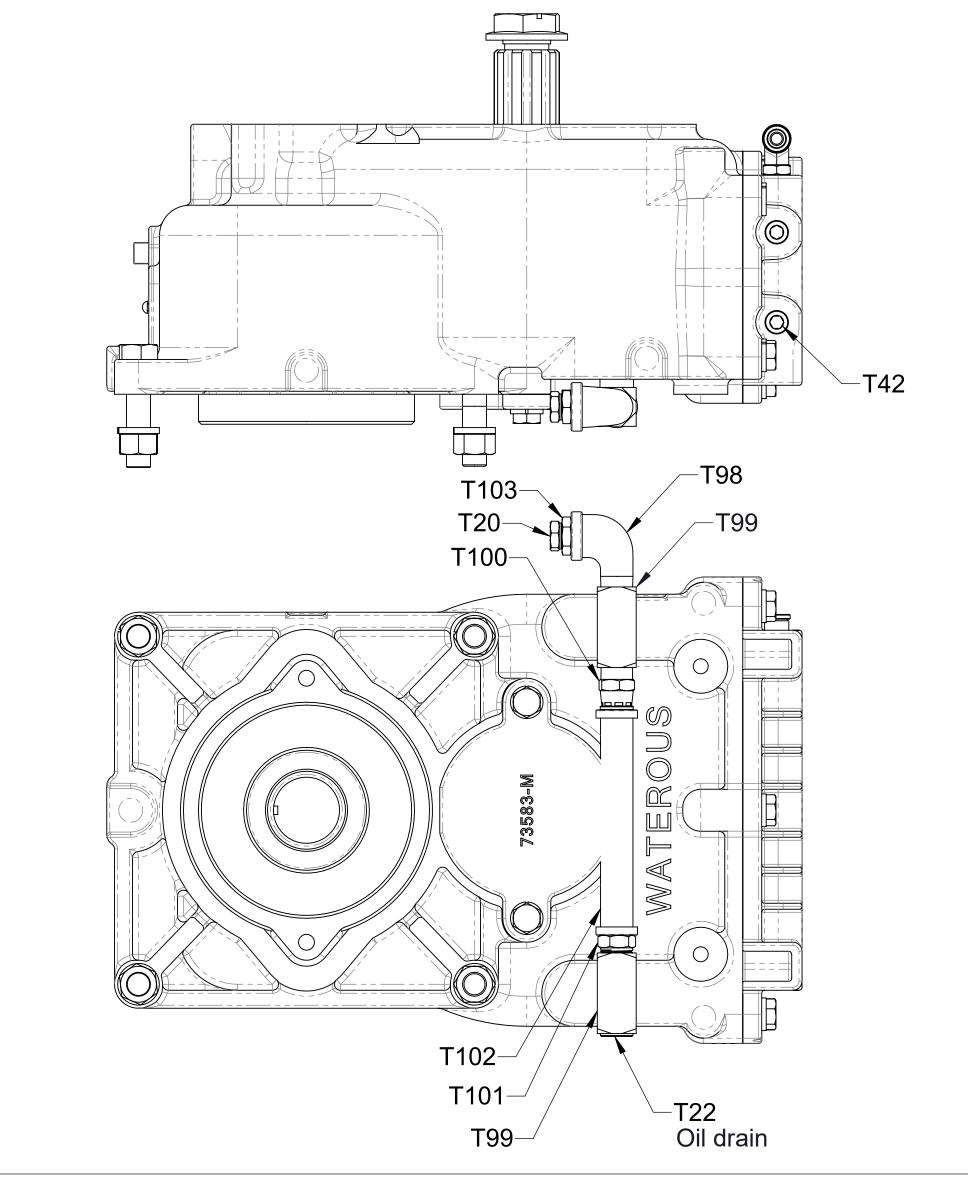
−T22 Oil drain

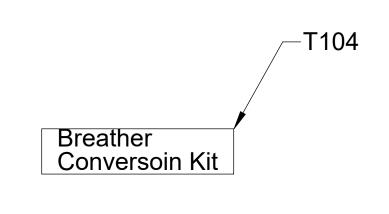
Prior to April 12, 2024

T23-

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 o	components are available in Breather Conversion Kit T104

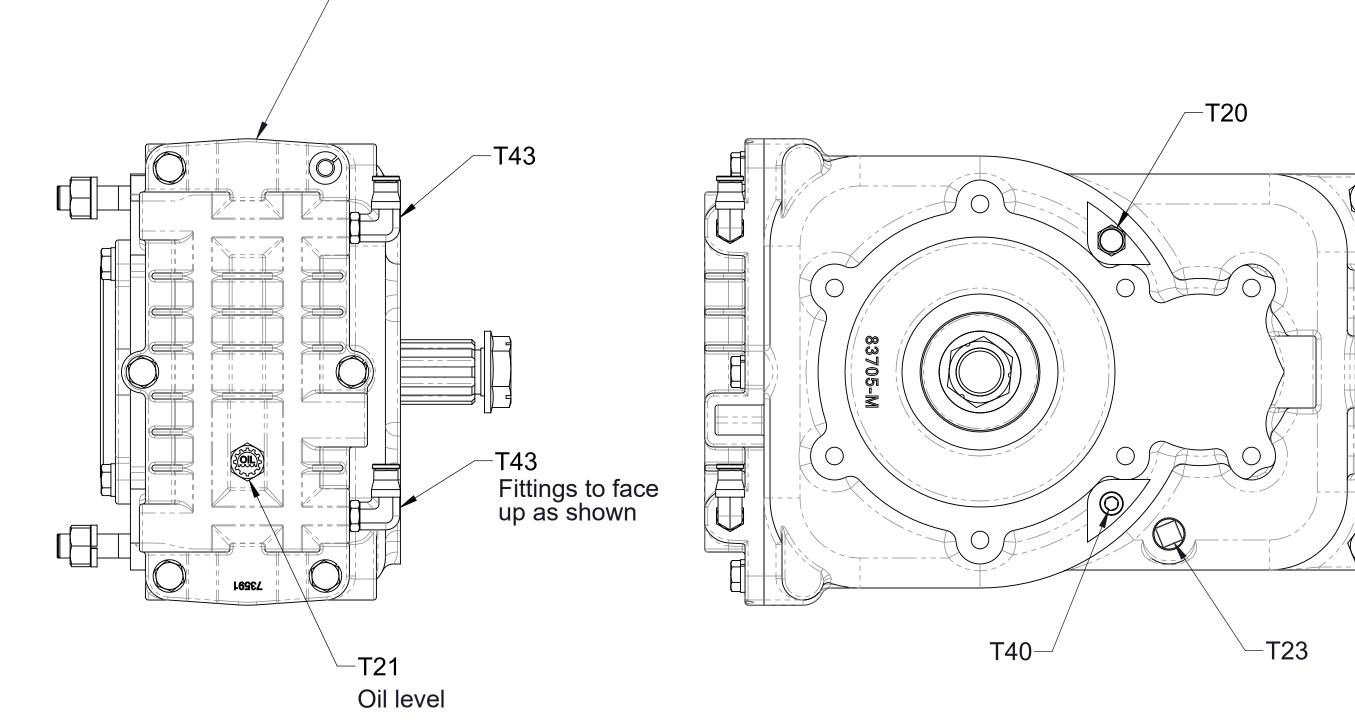


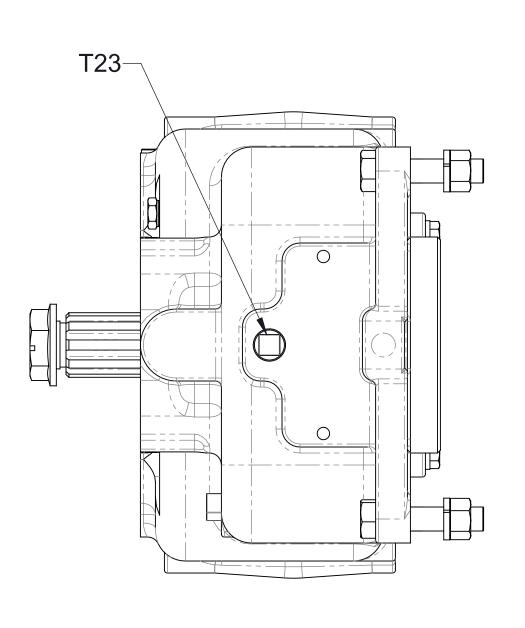




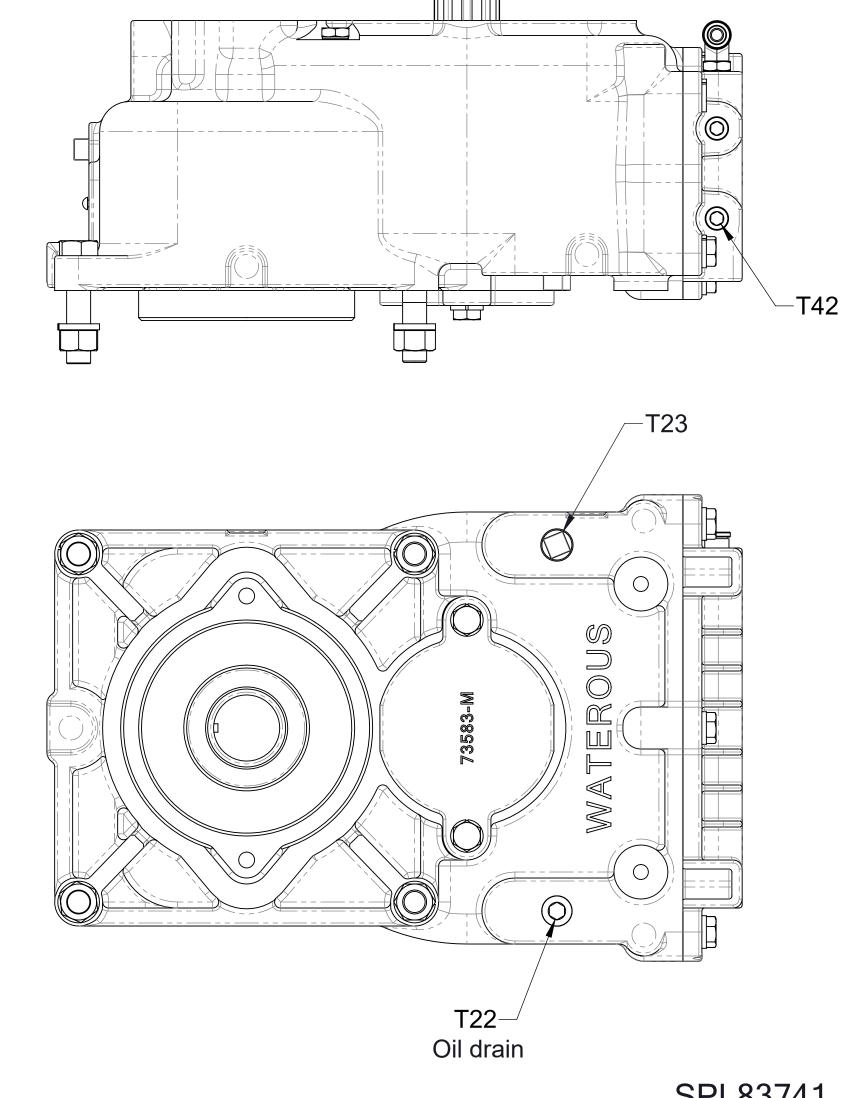
Note transmission pan orientation

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°	
T104	Breather Conversion Kit	





Prior to December 7, 2023



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