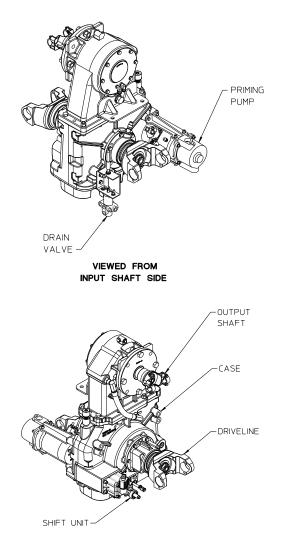


Document Number	Issue Date	Rev. Date
SPL83385	11/23/15	8/17/20

TC21 Series Power Take-Off Service Parts List

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VIEWED FROM OUTPUT SHAFT SIDE

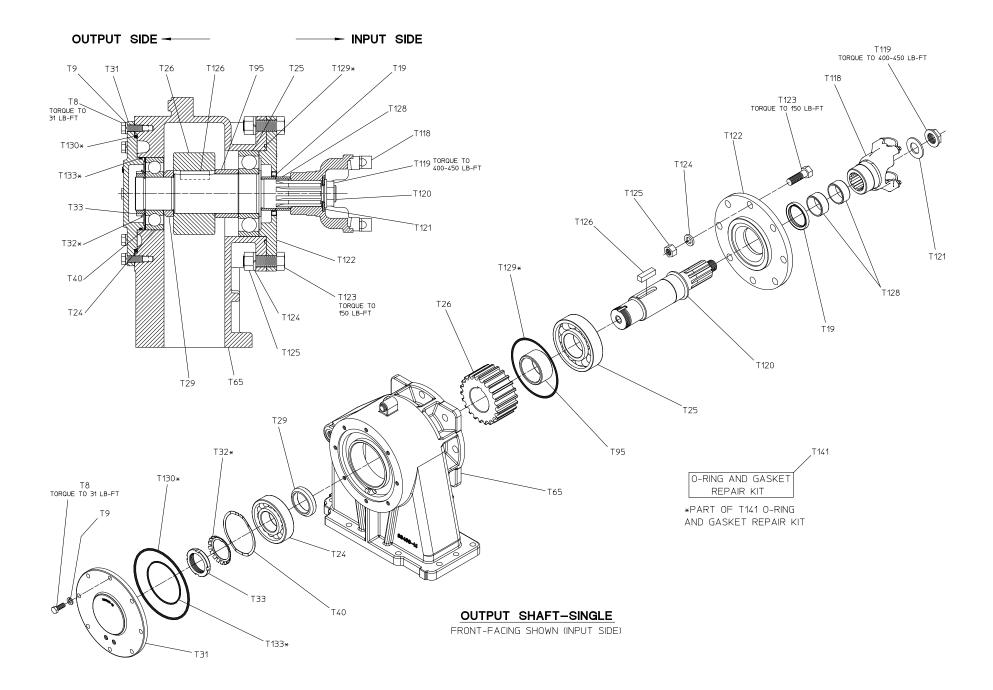
Components			6	
	Туре	Front Shaft	Rear Shaft	See Page
		(Input Side of Case)	(Output Side of Case)	_
	Single	1550 Series End Yoke	None (Blank)	2, 3
	Jingle	None (Blank)	1550 Series End Yoke	4, 5
Output Shaft		1550 Series End Yoke	Hydraulic Pump (SAE Class C 4-Bolt Hydraulic Flange)	6, 7
	Dual	Hydraulic Pump (SAE Class C 4-Bolt Hydraulic Flange)	1550 Series End Yoke	8, 9
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Driveline			Cross-Section View	12, 13
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6	Viewed from Output Side		16, 17	
Case	Cap Sealant Application & Hardware		Front Facing Output Shaft	18, 19
			Rear Facing Output Shaft	20, 21
Optional	PTO Mounted Drain Valve Model VPO Priming Pump		See Drain Valve Service List	
Accessories (Fire Pump Applications Only)			See Priming Pump Service Par	ts List

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

REF. NO.	DESCRIPTION
T8	Hex Hd Screw, 3/8-16 x 1 in.
Т9	Lock Washer, 3/8 in.
T19	Oil Seal, 2 x 2-5/8 in.
T24	Single Row Ball Bearing
T25	Single Row Ball Bearing
T26	Driven Sprocket
T29	Bearing Spacer, .590 in. Long
T31	Bearing Cover
T32	Bearing Lock Nut Washer (W10)
T33	Bearing Lock Nut (N10)
T40	Wave Spring, 110 mm
T65	Transmission Cap, Front Facing
T95	Bearing Spacer, 1.405 in. Long
T118	End Yoke – 1550 Series

REF. NO.	DESCRIPTION
T119	Self-Locking Nut, 1-20 UNEF
T120	Driven Shaft
T121	Plain Washer, 1 in.
T122	Oil Seal Housing
T123	Hex Hd Screw, 5/8-11 x 2 in.
T124	Lock Washer, 5/8 in.
T125	Hex Nut, 5/8 in.
T126	Square Key, 1/2 x 1-3/4
T128	Oil Seal Sleeve
T129	O-ring, 5-5/8 x 5-7/8 in.
T130	O-ring, 6-3/4 x 7-1/8 in.
T133	O-ring, 4 x 4-1/4 in.
T141	O-ring and Gasket Repair Kit

Screw Size	Torque Specification
5/16-18 UNC	17 lb-ft
3/8-16 UNC	31 lb-ft
1/2-13 UNC	75 lb-ft
1/2-20 UNF	85 lb-ft
5/8-11 UNC	150 lb-ft

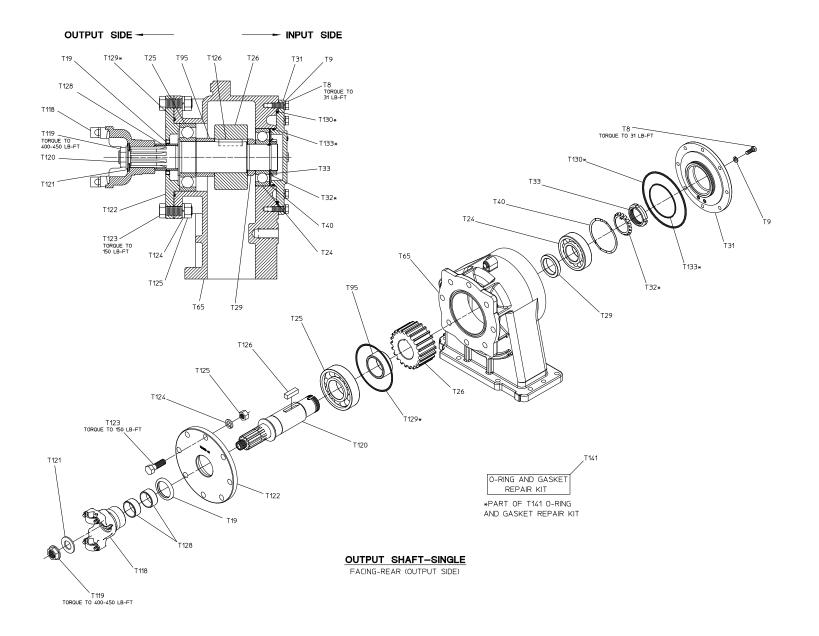


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REF. NO.	DESCRIPTION
T8	Hex Hd Screw, 3/8-16 x 1 in.
Т9	Lock Washer, 3/8 in.
T19	Oil Seal, 2 x 2-5/8 in.
T24	Single Row Ball Bearing
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T118	End Yoke – 1550 Series

REF. NO.	DESCRIPTION
T119	Self-Locking Nut, 1-20 UNEF
T120	Driven Shaft
T121	Plain Washer, 1 in.
T122	Oil Seal Housing
T123	Hex Hd Screw, 5/8-11 x 2 in.
T124	Lock Washer, 5/8 in.
T125	Hex Nut, 5/8 in.
T126	Square Key, 1/2 x 1-3/4
T128	Oil Seal Sleeve
T129	O-ring, 5-5/8 x 5-7/8 in.
T130	O-ring, 6-3/4 x 7-1/8 in.
T133	O-ring, 4 x 4-1/4 in.
T141	O-ring and Gasket Repair Kit

Screw Size	Torque Specification
5/16-18 UNC	17 lb-ft
3/8-16 UNC	31 lb-ft
1/2-13 UNC	75 lb-ft
1/2-20 UNF	85 lb-ft
5/8-11 UNC	150 lb-ft



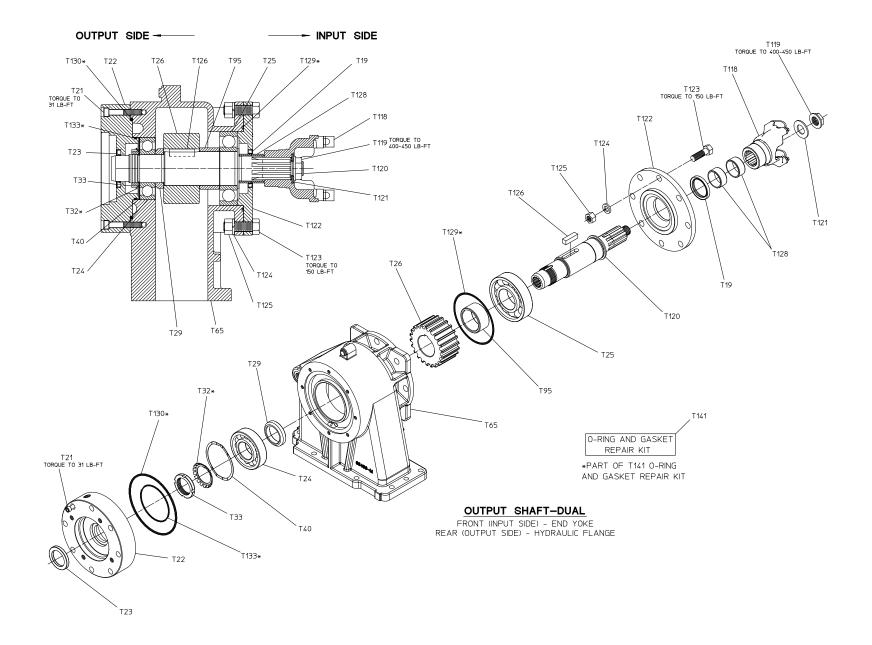
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Output Shaft – Dual Front (Input Side) – End Yoke Rear (Output Side) – Hydraulic Flange

REF. NO.	DESCRIPTION
T19	Oil Seal, 3 x 3-3/4 in.
T21	Skt Hd Screw, 3/8-16 x 2-1/4
T22	Hydraulic Adapter
T23	Oil Seal, 1-25/32 x 2-5/8
T24	Single Row Ball Bearing
T25	Single Row Ball Bearing
T26	Driven Sprocket
T29	Bearing Spacer, .590 in. Long
T32	Bearing Lock Nut Washer (W10)
T33	Bearing Lock Nut (N10)
T40	Wave Spring, 110 mm
T65	Transmission Cap, Rear Facing
T95	Bearing Spacer, 1.405 in. Long
T118	End Yoke – 1550 Series

REF. NO.	DESCRIPTION
T119	Self-Locking Nut, 1-20 UNEF
T120	Driven Shaft
T121	Plain Washer, 1 in.
T122	Oil Seal Housing
T123	Hex Hd Screw, 5/8-11 x 2 in.
T124	Lock Washer, 5/8 in.
T125	Hex Nut, 5/8 in.
T126	Square Key, 1/2 x 1-3/4
T128	Oil Seal Sleeve
T129	O-ring, 5-5/8 x 5-7/8 in.
T130	O-ring, 6-3/4 x 7-1/8 in.
T133	O-ring, 4 x 4-1/4 in.
T141	O-ring and Gasket Repair Kit

Screw Size	Torque Specification
5/16-18 UNC	17 lb-ft
3/8-16 UNC	31 lb-ft
1/2-13 UNC	75 lb-ft
1/2-20 UNF	85 lb-ft
5/8-11 UNC	150 lb-ft

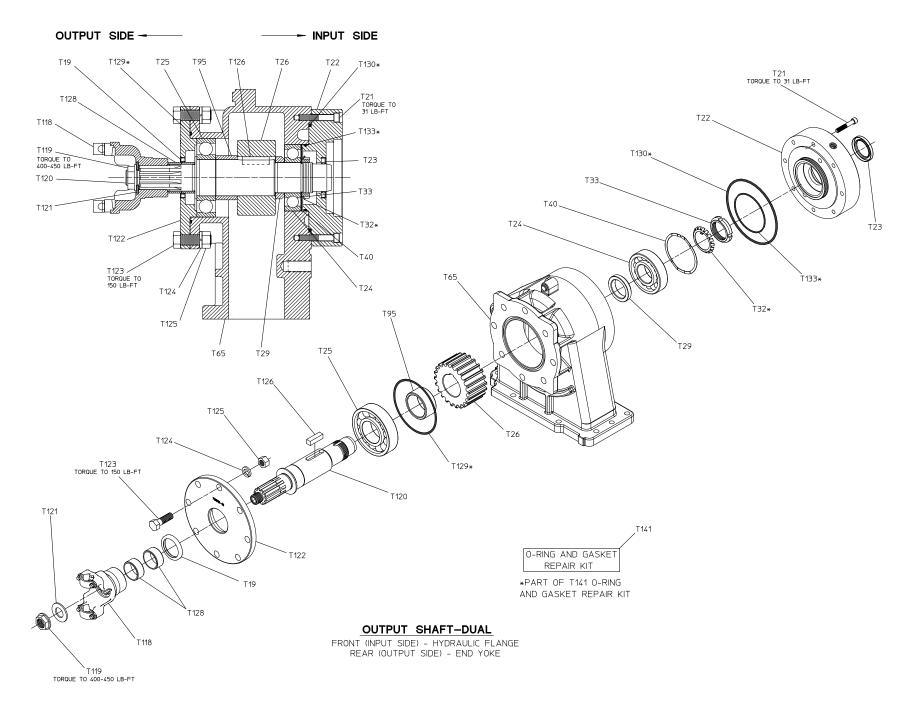


Output Shaft – Dual Front (Input Side) – Hydraulic Flange Rear (Output Side) – End Yoke

REF. NO.	DESCRIPTION
T19	Oil Seal, 2 x 2-5/8 in.
T21	Skt Hd Screw, 3/8-16 x 2-1/4
T22	Hydraulic Adapter
T23	Oil Seal, 1-25/32 x 2-5/8
T24	Single Row Ball Bearing
T25	Single Row Ball Bearing
T26	Driven Sprocket
T29	Bearing Spacer, .590 in. Long
T32	Bearing Lock Nut Washer (W10)
T33	Bearing Lock Nut (N10)
T40	Wave Spring, 110 mm
T65	Transmission Cap, Rear Facing
T95	Bearing Spacer, 1.405 in. Long
T118	End Yoke – 1550 Series

REF. NO.	DESCRIPTION
T119	Self-Locking Nut, 1-20 UNEF
T120	Driven Shaft
T121	Plain Washer, 1 in.
T122	Oil Seal Housing
T123	Hex Hd Screw, 5/8-11 x 2 in.
T124	Lock Washer, 5/8 in.
T125	Hex Nut, 5/8 in.
T126	Square Key, 1/2 x 1-3/4
T128	Oil Seal Sleeve
T129	O-ring, 5-5/8 x 5-7/8 in.
T130	O-ring, 6-3/4 x 7-1/8 in.
T133	O-ring, 4 x 4-1/4 in.
T141	O-ring and Gasket Repair Kit

Screw Size	Torque Specification
5/16-18 UNC	17 lb-ft
3/8-16 UNC	31 lb-ft
1/2-13 UNC	75 lb-ft
1/2-20 UNF	85 lb-ft
5/8-11 UNC	150 lb-ft



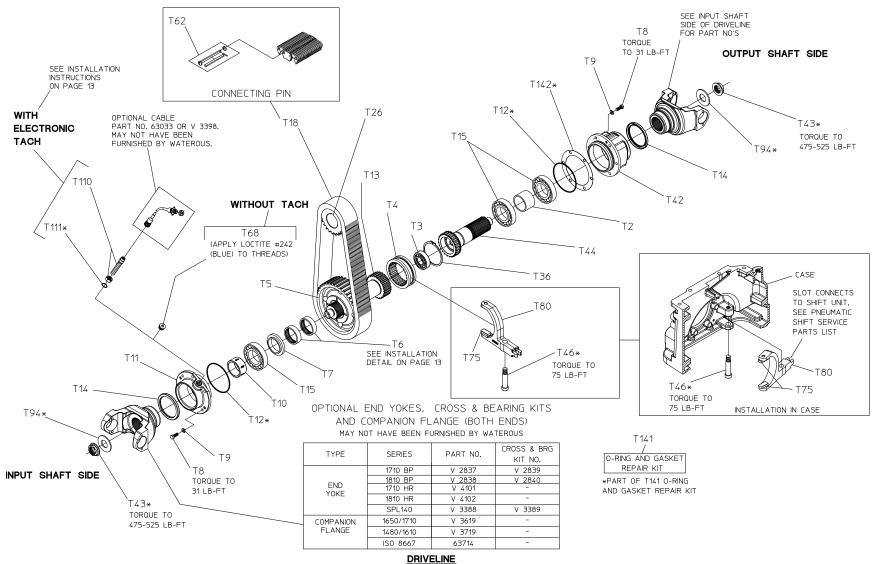
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Drive Line – Input and Output Shafts (Exploded View)

REF. NO.	DESCRIPTION
T2	Coupling Shaft Spacer
Т3	Single Row Ball Bearing
T4	Shift Collar
T5	Drive Sprocket
T6	Needle Bearing
T7	Thrust Washer
T8	Hex Hd Screw, 3/8-16 x 1 in.
Т9	Lock Washer, 3/8 in.
T10	Tachometer Pulse Generator
T11	Drive Shaft Housing
T12	O-ring, 4-3/4 x 5 in.
T13	Drive Shaft
T14	Oil Seal, 3-1/2 x 4-3/8 in.
T15	Single Row Ball Bearing
T18	Chain
T26	Driven Sprocket
T36	Retaining Ring
T42	Coupling Shaft Housing

REF. NO.	DESCRIPTION
T43	Self-Locking Nut, 1-1/4-18 in.
T44	Coupling Shaft (Includes T36)
T46	Shoulder Screw, 3/4 x 2-1/2
T62	Chain Connecting Pin Set
T68	Set Screw, 5/8-18 x 5/8 in.
T75	Shift Shoe
T80	Shift Fork
T94	Plain Washer, 1-1/4 in.
T110	Magnetic Tachometer Pick-up
T111	O-ring, 5/8 x 3/4 in.
T141	O-ring and Gasket Repair Kit
T142	Aluminum Shim

Screw Size	Torque Specification
5/16-18 UNC	17 lb-ft
3/8-16 UNC	31 lb-ft
1/2-13 UNC	75 lb-ft
1/2-20 UNF	85 lb-ft
5/8-11 UNC	150 lb-ft



INPUT AND OUTPUT SHAFTS

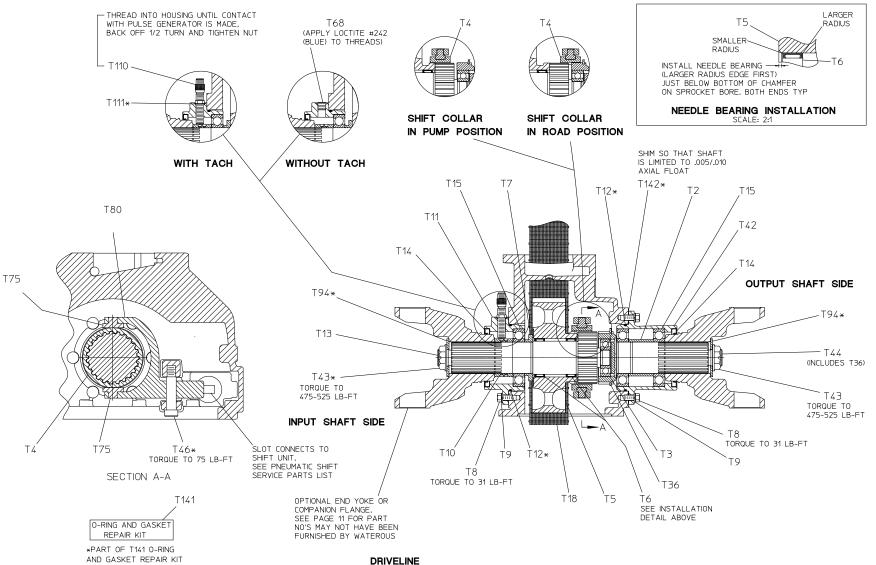
Drive Line – Input and Output Shafts

(Cross-Section View)

REF. NO.	DESCRIPTION
T2	Coupling Shaft Spacer
Т3	Single Row Ball Bearing
T4	Shift Collar
T5	Drive Sprocket
T6	Needle Bearing
T7	Thrust Washer
T8	Hex Hd Screw, 3/8-16 x 1 in.
Т9	Lock Washer, 3/8 in.
T10	Tachometer Pulse Generator
T11	Drive Shaft Housing
T12	O-ring, 4-3/4 x 5 in.
T13	Drive Shaft
T14	Oil Seal, 3-1/2 x 4-3/8 in.
T15	Single Row Ball Bearing
T18	Chain
T36	Retaining Ring

REF. NO.	DESCRIPTION
T42	Coupling Shaft Housing
T43	Self-Locking Nut, 1-1/4-18 in.
T44	Coupling Shaft (Includes T36)
T46	Shoulder Screw, 3/4 x 2-1/2
T68	Set Screw, 5/8-18 x 5/8 in.
T75	Shift Shoe
T80	Shift Fork
T94	Plain Washer, 1-1/4 in.
T110	Magnetic Tachometer Pick-up
T111	O-ring, 5/8 x 3/4 in.
T141	O-ring and Gasket Repair Kit
T142	Aluminum Shim

Screw Size	Torque Specification
5/16-18 UNC	17 lb-ft
3/8-16 UNC	31 lb-ft
1/2-13 UNC	75 lb-ft
1/2-20 UNF	85 lb-ft
5/8-11 UNC	150 lb-ft



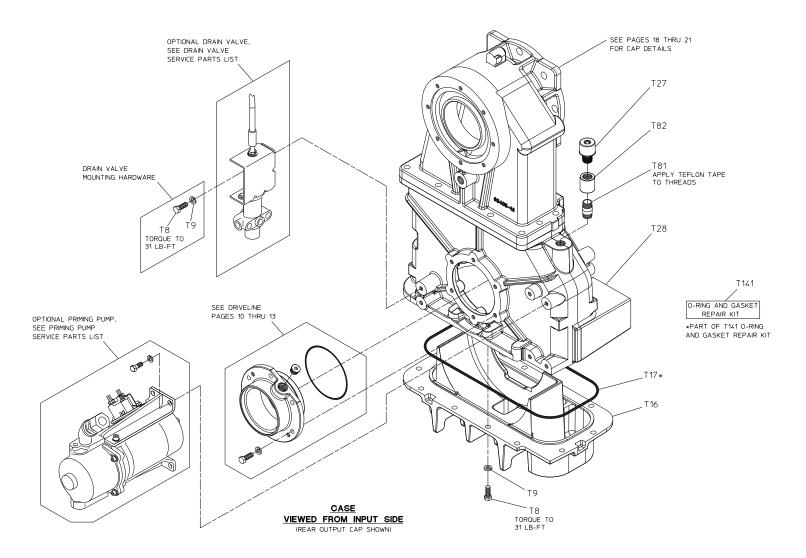
INPUT AND OUTPUT SHAFTS

Case Viewed from Input Side

REF. NO.	DESCRIPTION	
T8	Hex Hd Screw, 3/8-16 x 1 in.	
Т9	Lock Washer, 3/8 in.	
T16	Transmission Pan	
T17	Transmission Pan O-ring, 13 x 13-3/8	
T27	Breather, 1/2 NPT	

REF. NO.	DESCRIPTION	
T28	Case	
T81	Pipe Nipple, 1/2 NPT x 1-1/2 in.	
T82	Pipe Coupling, 1/2 NPT	
T141	O-ring and Gasket Repair Kit	

Screw Size	Torque Specification
5/16-18 UNC	17 lb-ft
3/8-16 UNC	31 lb-ft
1/2-13 UNC	75 lb-ft
1/2-20 UNF	85 lb-ft
5/8-11 UNC	150 lb-ft

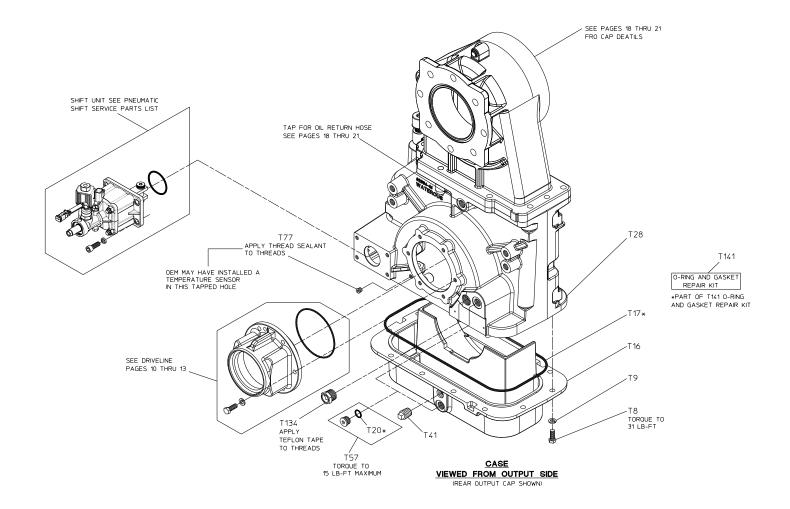


Case Viewed from Output Side

REF. NO.	DESCRIPTION	
T8	Hex Hd Screw, 3/8-16 x 1 in.	
Т9	Lock Washer, 3/8 in.	
T16	Transmission Pan	
T17	Transmission Pan O-ring, 13 x 13-3/8	
T20	O-ring, 16.4 mm x 20.8 mm	
T28	Case	
T41	Pipe Plug, ½ NPT	

REF. NO.	DESCRIPTION							
T57	Magnetic Drain Plug, ¾-16 (Includes T78)							
T77	Headless Pipe Plug, 1/8 NPT							
T134	Sight Plug, ¾ NPT							
T141	O-ring and Gasket Repair Kit							

Screw Size	Torque Specification						
5/16-18 UNC	17 lb-ft						
3/8-16 UNC	31 lb-ft						
1/2-13 UNC	75 lb-ft						
1/2-20 UNF	85 lb-ft						
5/8-11 UNC	150 lb-ft						

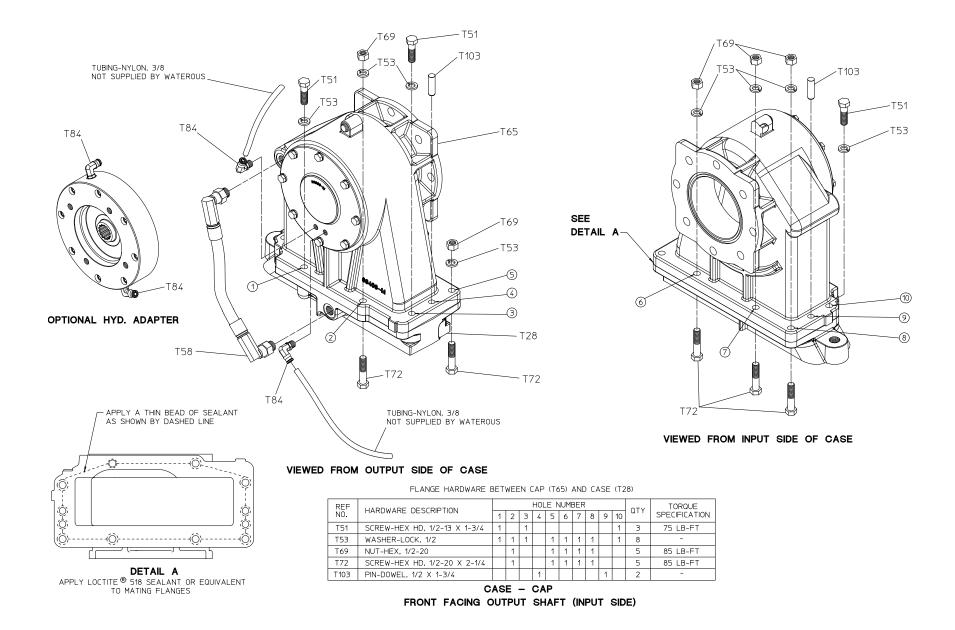


Case Cap Front Facing Output Shaft

REF. NO.	DESCRIPTION						
T28	Case						
T51	Hex Hd Screw, ½-13 x 1-3/4 in.						
T53	Lock Washer, ½						
T58	Hose Assy						

REF. NO.	DESCRIPTION						
T65	Transmission Cap, Front Facing						
T69	Hex Nut, 1/2-20						
T72	Hex Hd Screw, ½-20 x 2-1/4 in.						
T84	Elbow Adapter, 1/4 NPT x 3/8 Tube						
T103	Dowel Pin, ½ x 1-3/4 in.						

Screw Size	Torque Specification						
5/16-18 UNC	17 lb-ft						
3/8-16 UNC	31 lb-ft						
1/2-13 UNC	75 lb-ft						
1/2-20 UNF	85 lb-ft						
5/8-11 UNC	150 lb-ft						

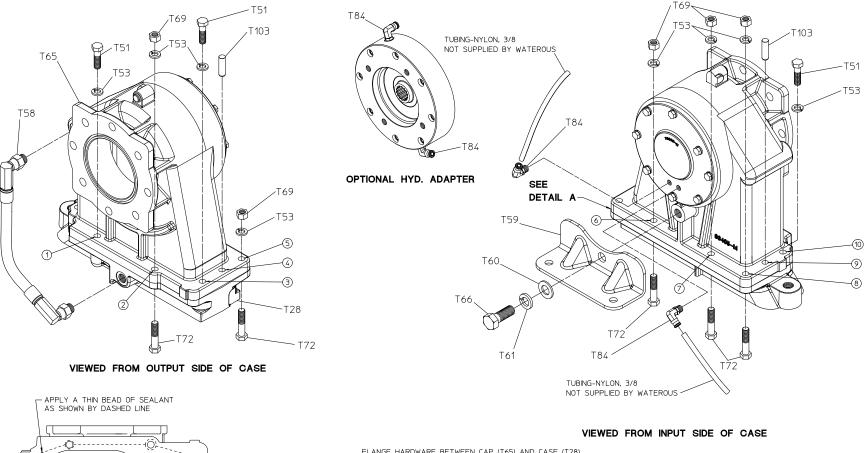


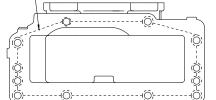
Case Cap Rear Facing Output Shaft

REF. NO.	DESCRIPTION						
T28	Case						
T51	Hex Hd Screw, ½-13 x 1-3/4 in.						
T53	Lock Washer, 1/2						
T58	Hose Assy						
T59	Case Mounting Bracket						
T60	Plain Washer, ¾ in.						
T61	Lock Washer, ¾ in.						

REF. NO.	DESCRIPTION						
T65	Transmission Cap, Rear Facing						
T66	Hex Hd Screw, ¾-10 x 2 in.						
T69	Hex Nut, ½-20						
T72	2 Hex Hd Screw, ½-20 x 2-1/4 in.						
T84	Elbow Adapter, 1/4 NPT x 3/8 Tube						
T103	Dowel Pin, ½ x 1-3/4 in.						

Screw Size	Torque Specification
5/16-18 UNC	17 lb-ft
3/8-16 UNC	31 lb-ft
1/2-13 UNC	75 lb-ft
1/2-20 UNF	85 lb-ft
5/8-11 UNC	150 lb-ft





DETAIL A APPLY LOCTITE ® 518 SEALANT OR EQUIVALENT TO MATING FLANGES

FLANGE HARDWARE BETWEEN CAP (T65) AND CASE (T28)

REF	HARDWARE DESCRIPTION	HOLE NUMBER										ΟΤΥ	TORQUE
NO.		1	2	З	4	5	6	7	8	9	10	un	SPECIFICATION
T51	SCREW-HEX HD, 1/2-13 X 1-3/4	1		1							1	u	75 LB-FT
T53	WASHER-LOCK, 1/2	1	1	1		1	1	1	1		1	8	-
T69	NUT-HEX, 1/2-20		1			1	1	1	1			5	85 LB-FT
T72	SCREW-HEX HD, 1/2-20 X 2-1/4		1			1	1	1	1			5	85 LB-FT
T103	PIN-DOWEL, 1/2 X 1-3/4				1					1		2	-

CASE - CAP REAR FACING OUTPUT SHAFT (OUTPUT SIDE)