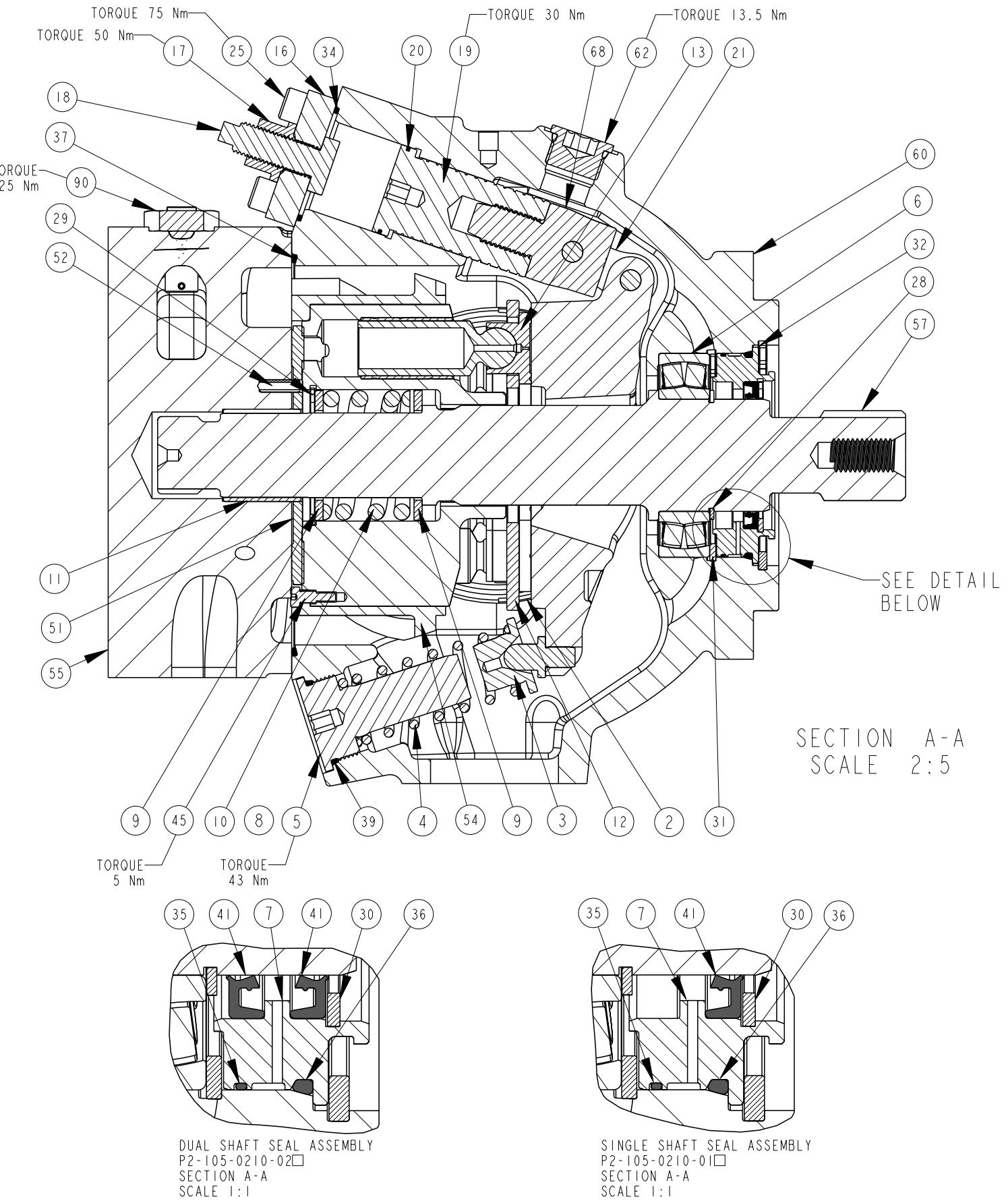
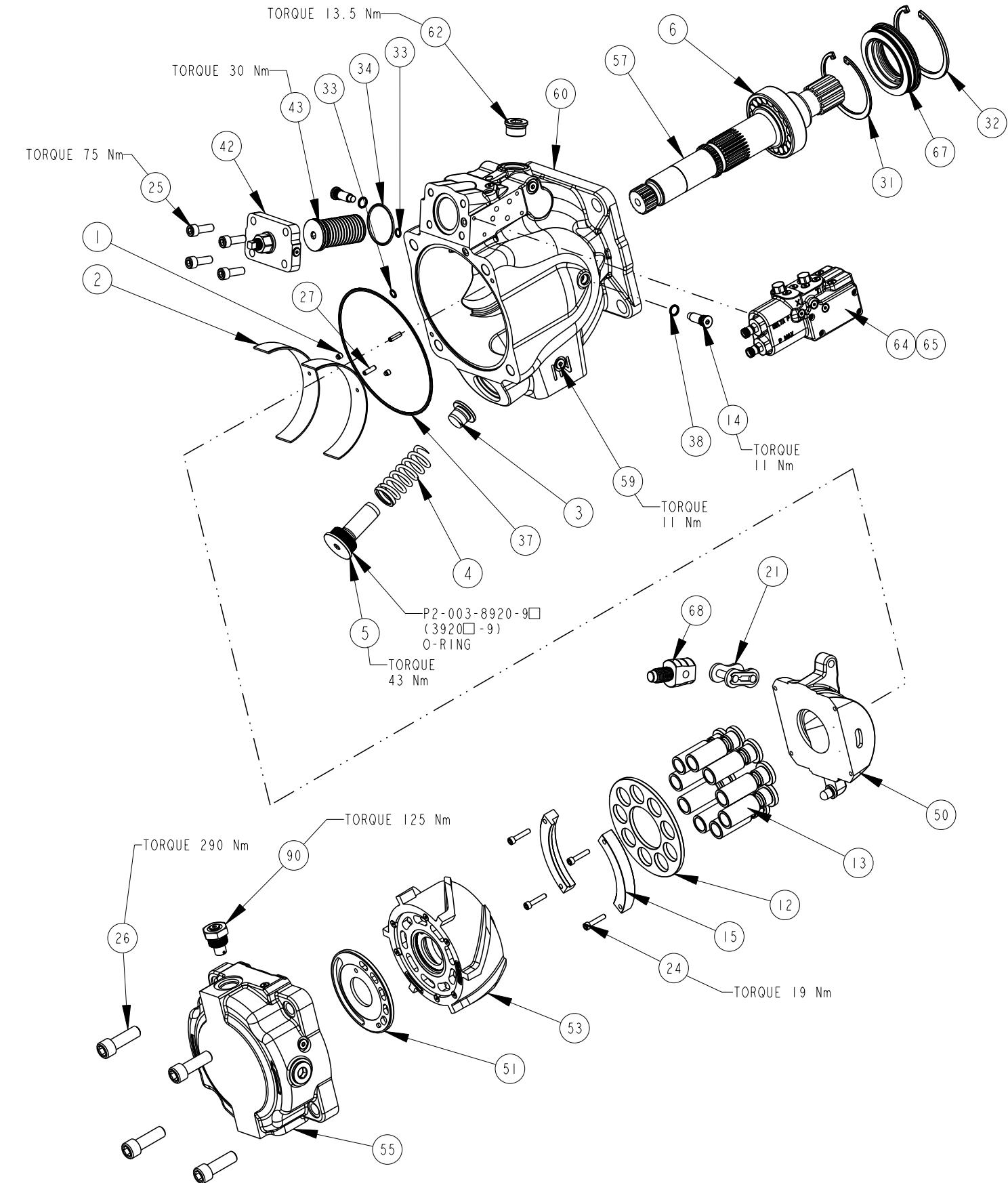
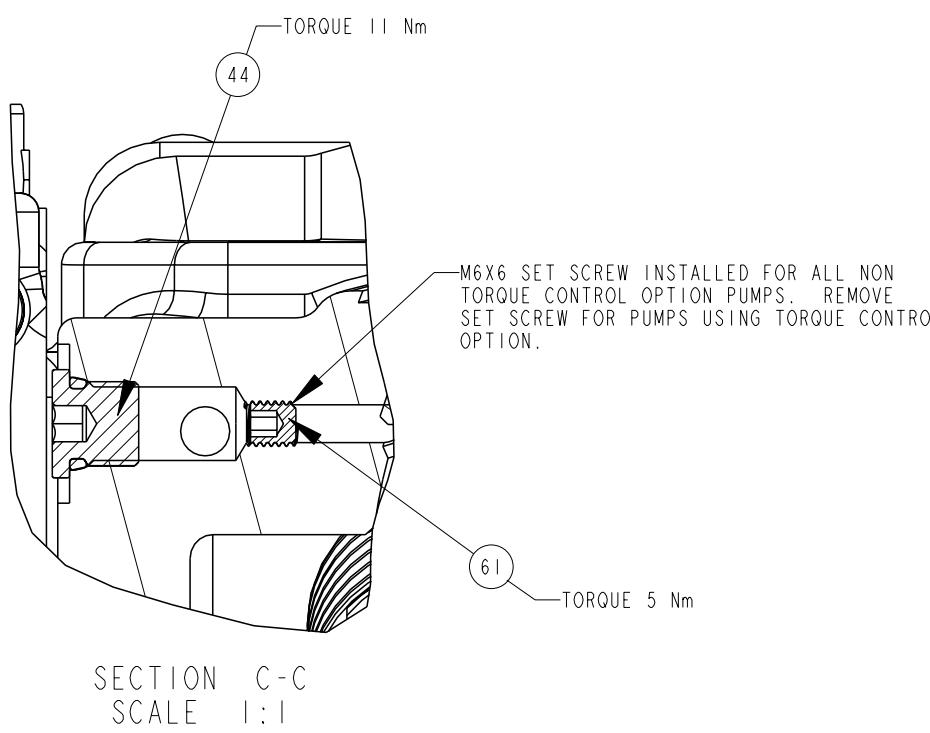
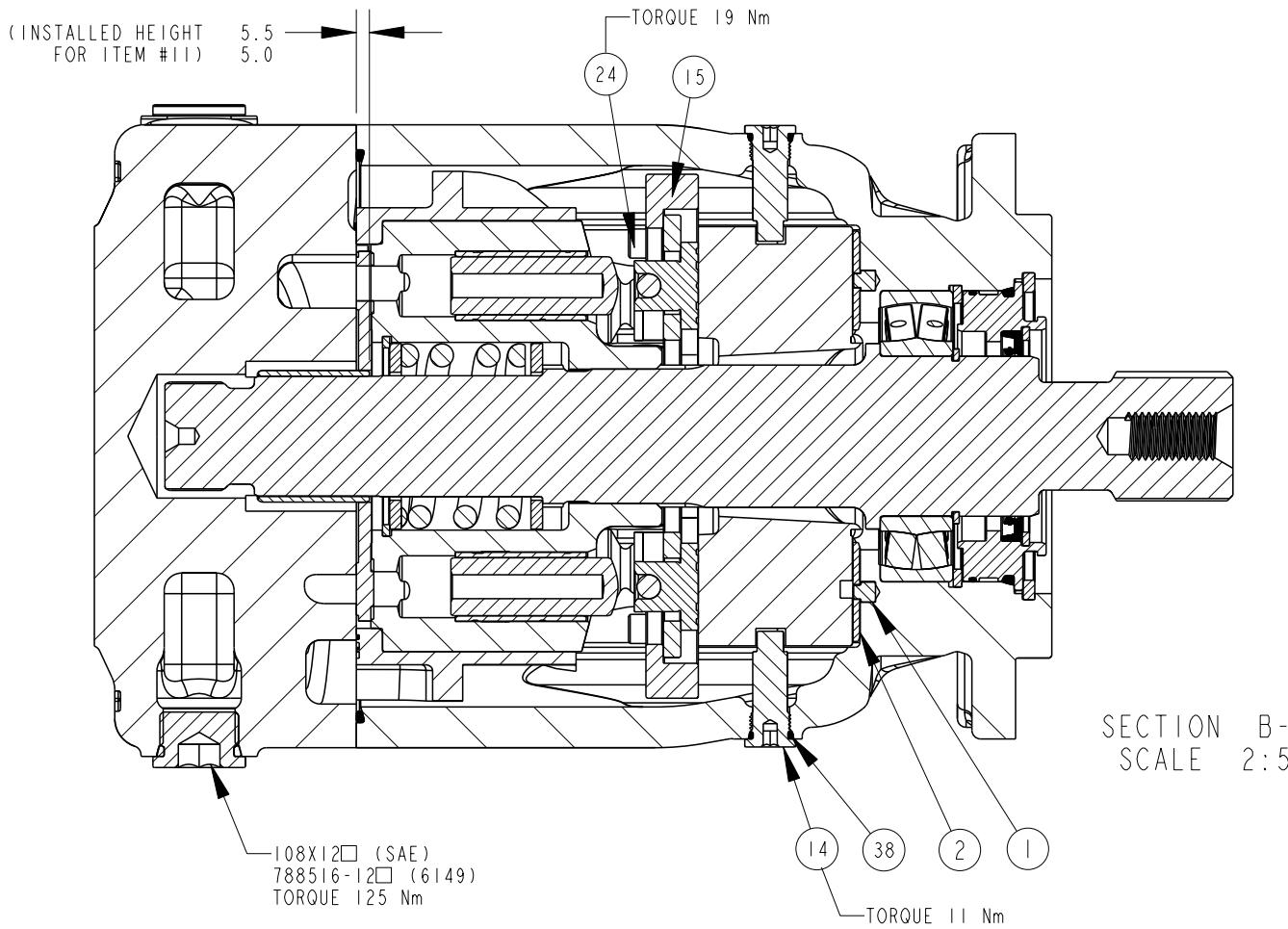


NOTES:
1 PUMP SHOWN IS A RIGHT HAND (CW) ROTATION PUMP. LEFT HAND (CCW) ROTATION PUMPS
HAVE OUTLET GAUGE PORT REVERSED.

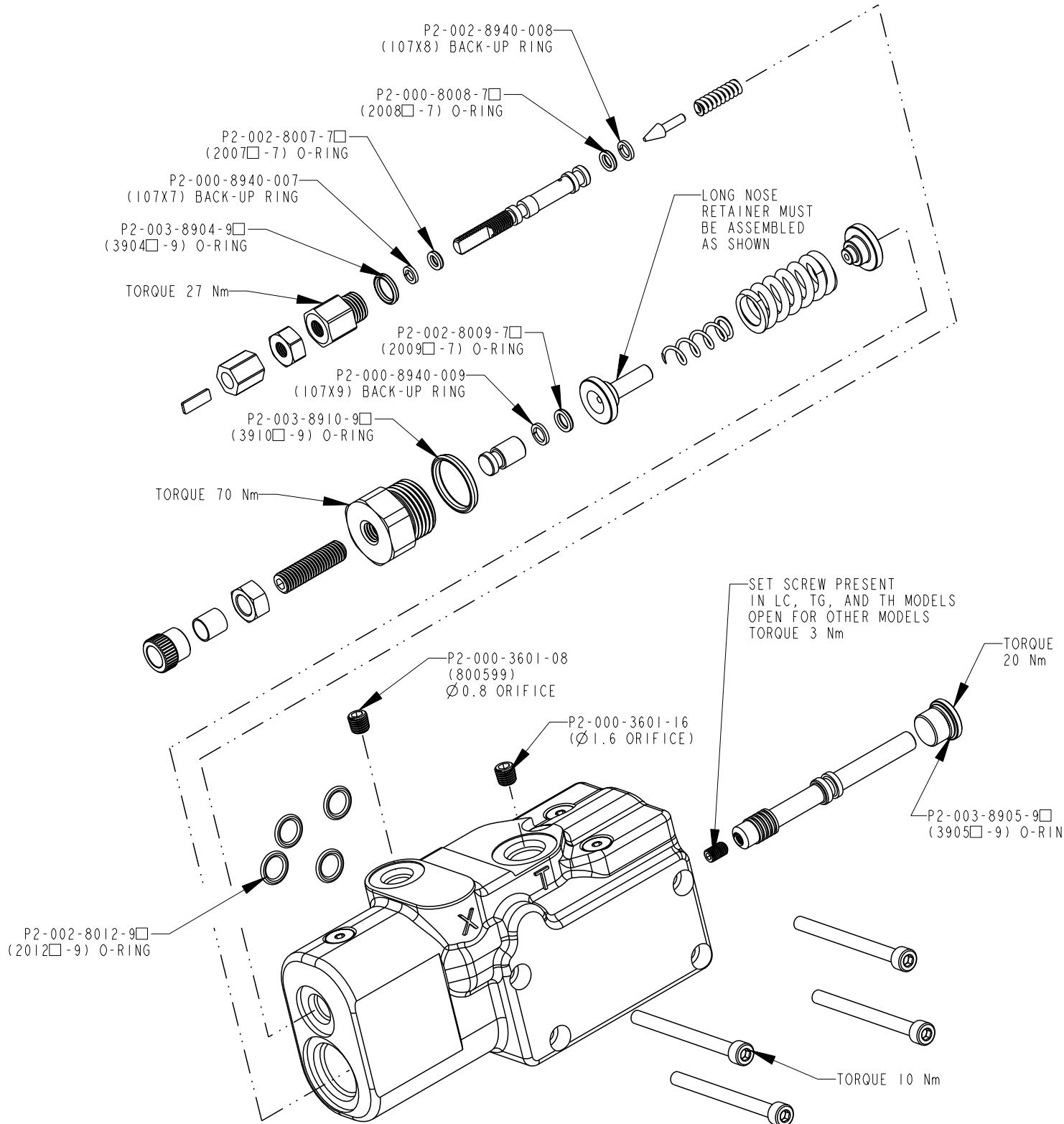
DRAWN BY STREHLOW	DATE 31OCT02	CHANGED BY B. LARKIN	DATE 08NOV02	ECN NUMBER 133698
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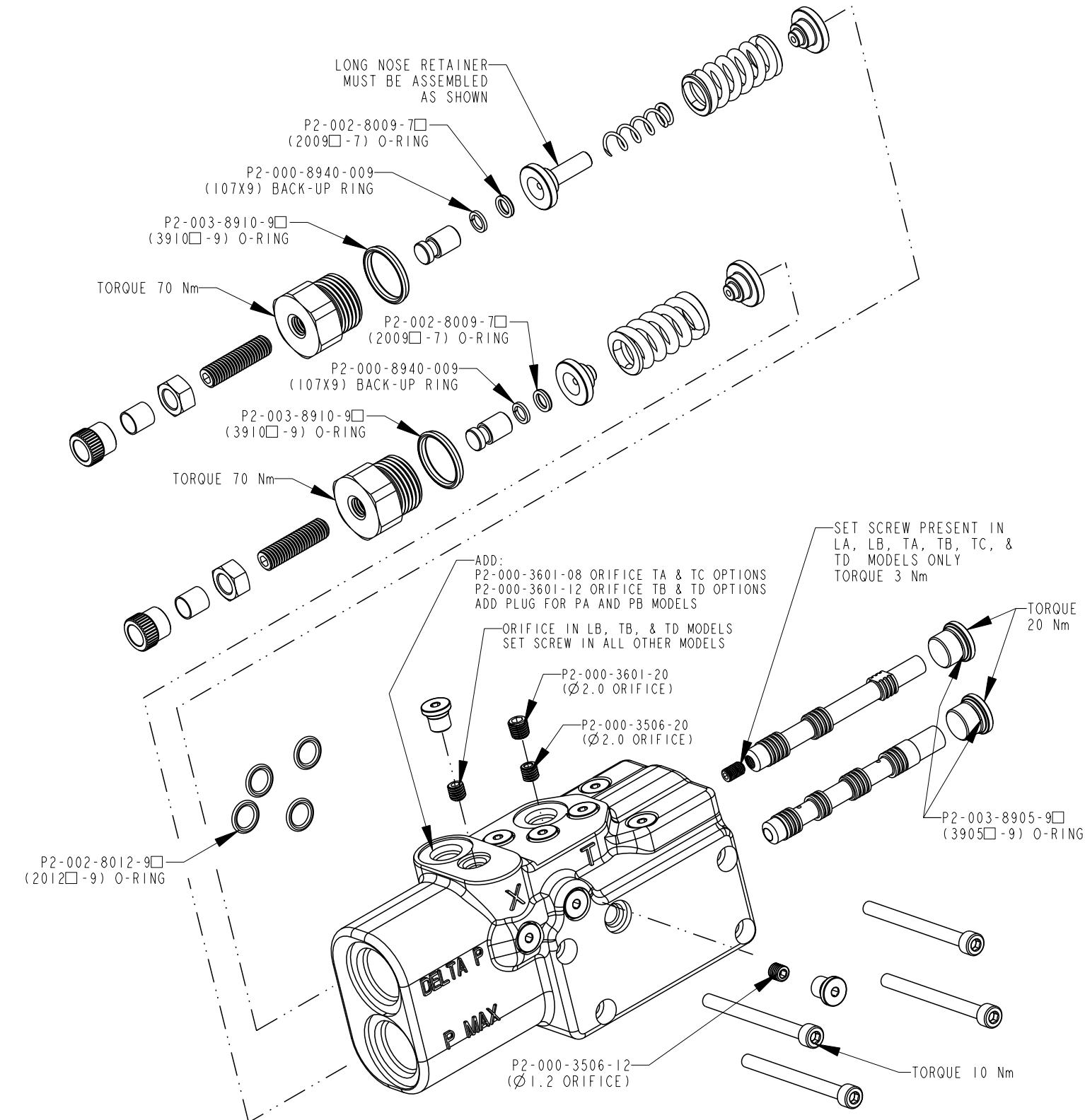
COMPENSATOR KITS

SINGLE SPOOL OPTIONS - ITEM 64

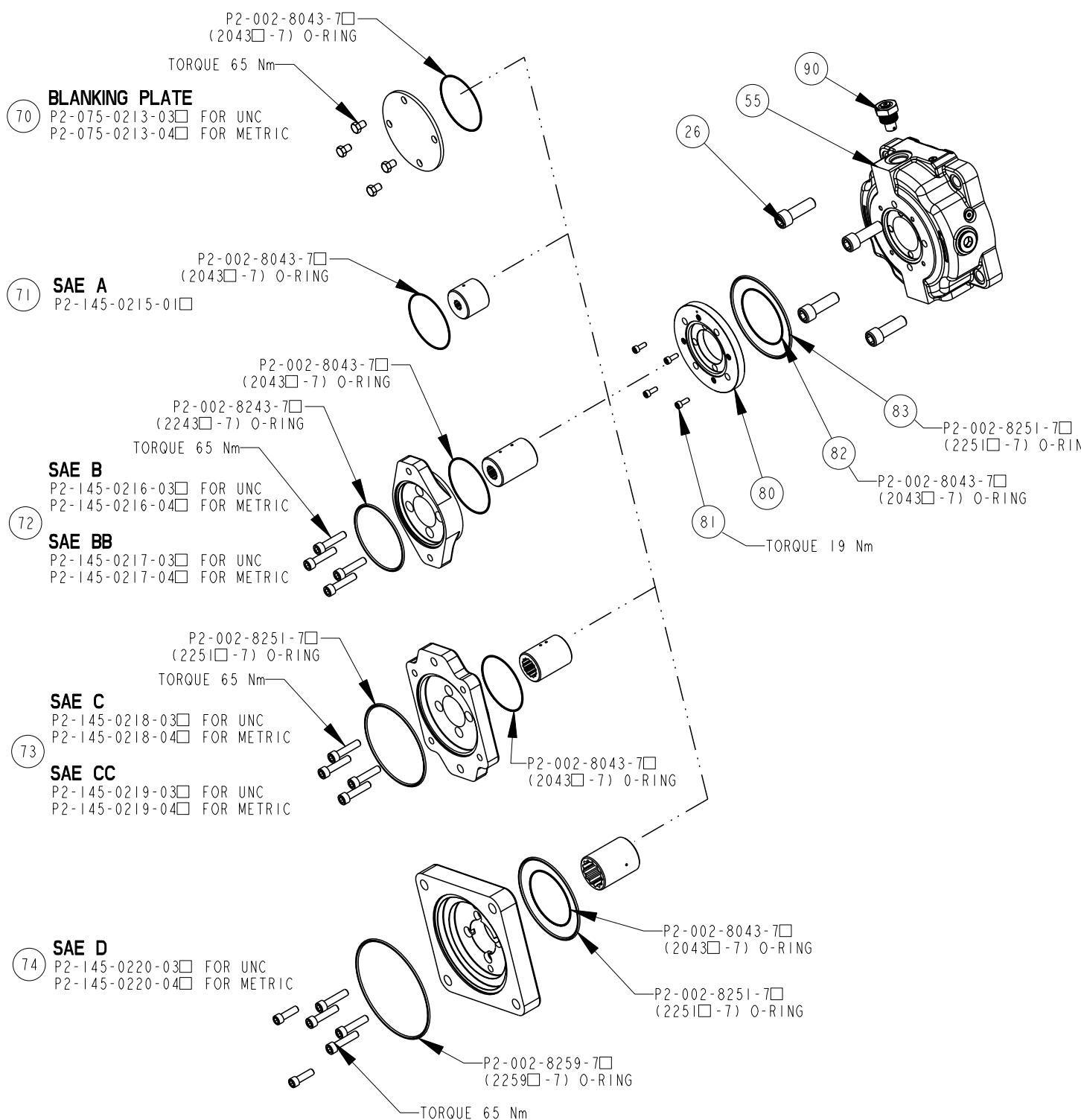


COMPENSATOR KITS

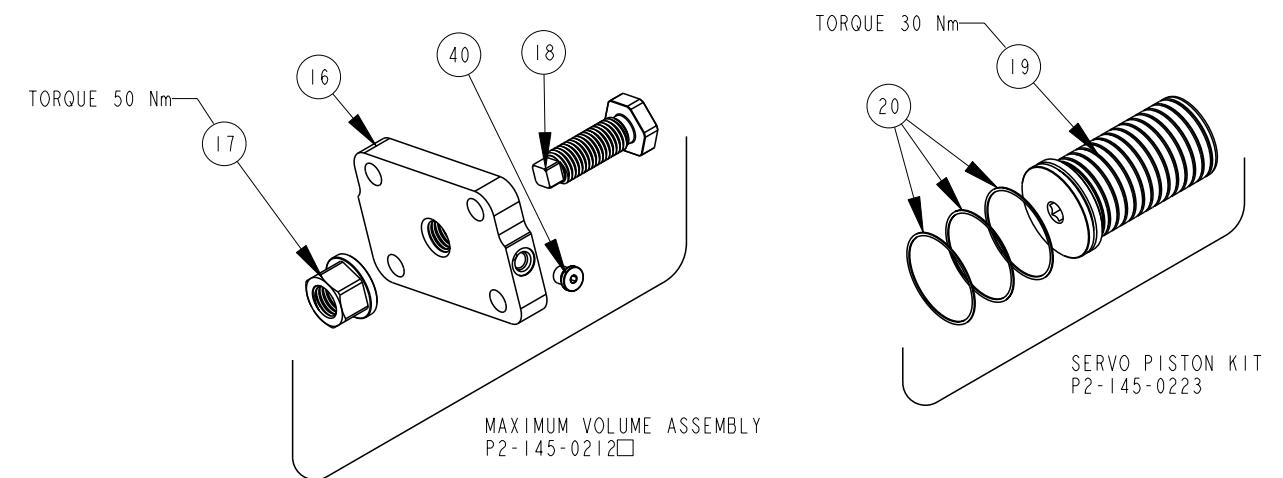
DUAL SPOOL OPTIONS - ITEM 65



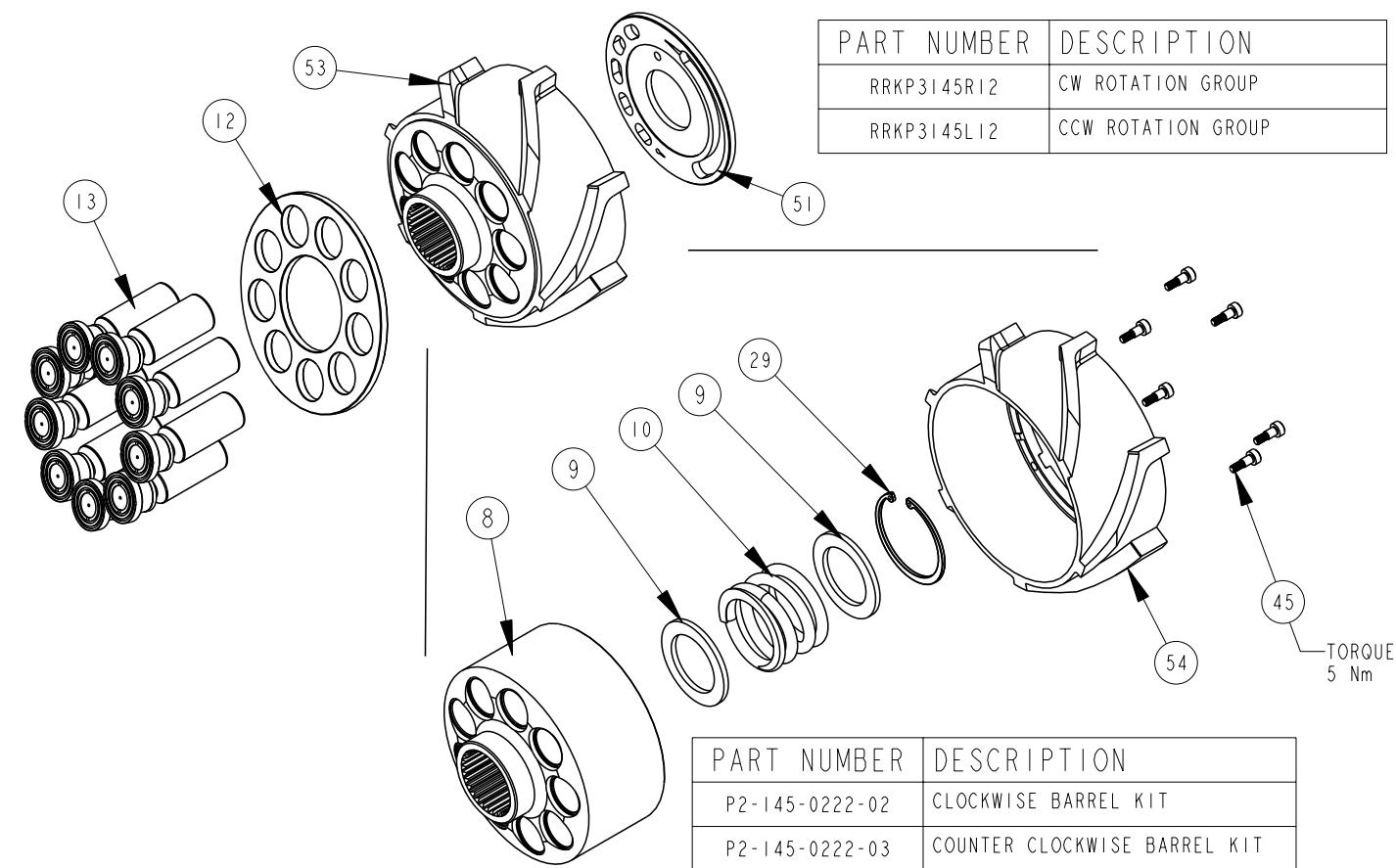
THRU DRIVE KITS



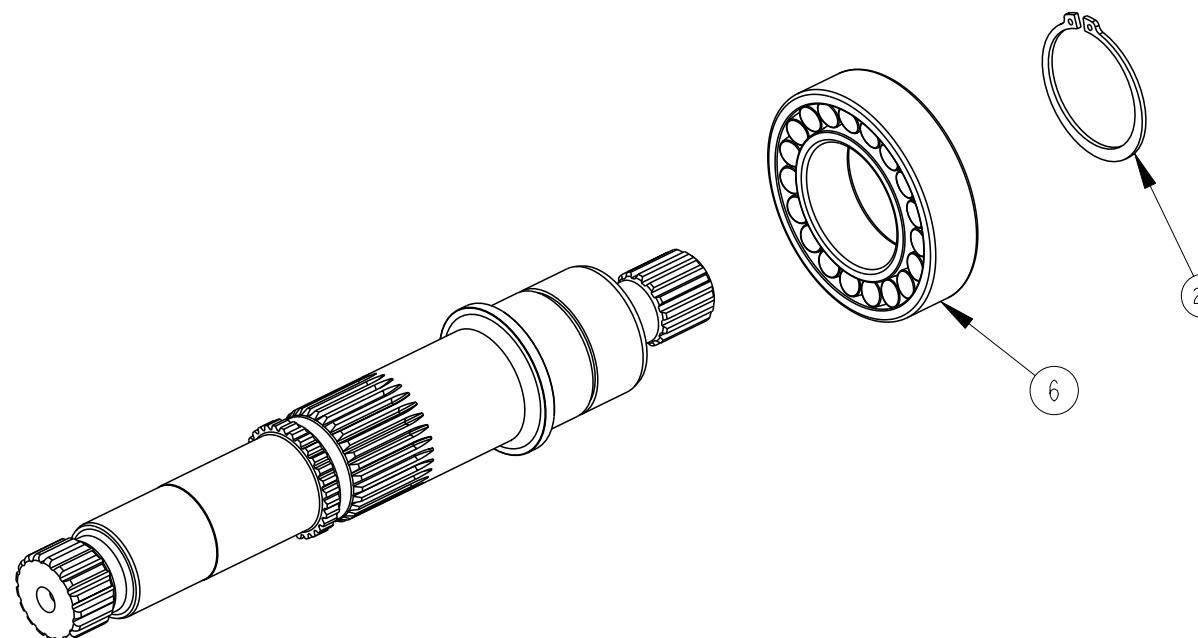
MAX VOLUME ASSEMBLY AND SERVO PISTON KIT



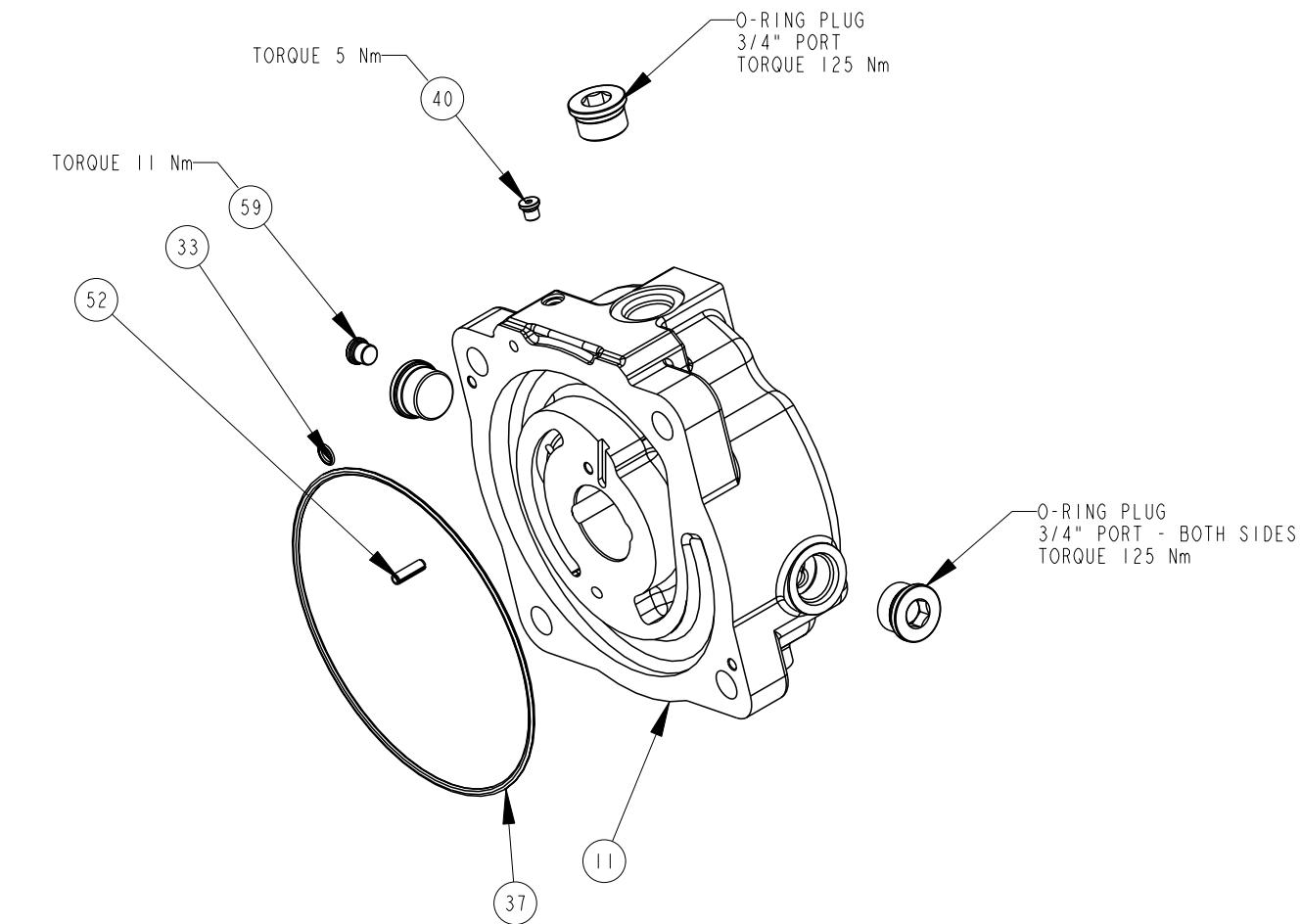
BARREL KIT AND ROTATION GROUP KIT



SHAFT ASSEMBLY KITS
ITEM 57



COVER ASSEMBLY KITS
ITEM 55



SHAFT ONLY	SHAFT ASSEMBLY	DESCRIPTION
P2-145-3725	P2-145-0238-36	C SPLINE THRU
P2-145-3719	P2-145-0238-40	D SPLINE THRU
P2-145-3733	P2-145-0238-46	C KEY THRU
P2-145-3735	P2-145-0238-48	CC KEY THRU
P2-145-3737	P2-145-0238-50	D KEY THRU
P2-145-3720	P2-145-0238-56	C SPLINE THRU NO UNDERCUT
P2-145-3746	P2-145-0238-60	D SPLINE THRU NO UNDERCUT

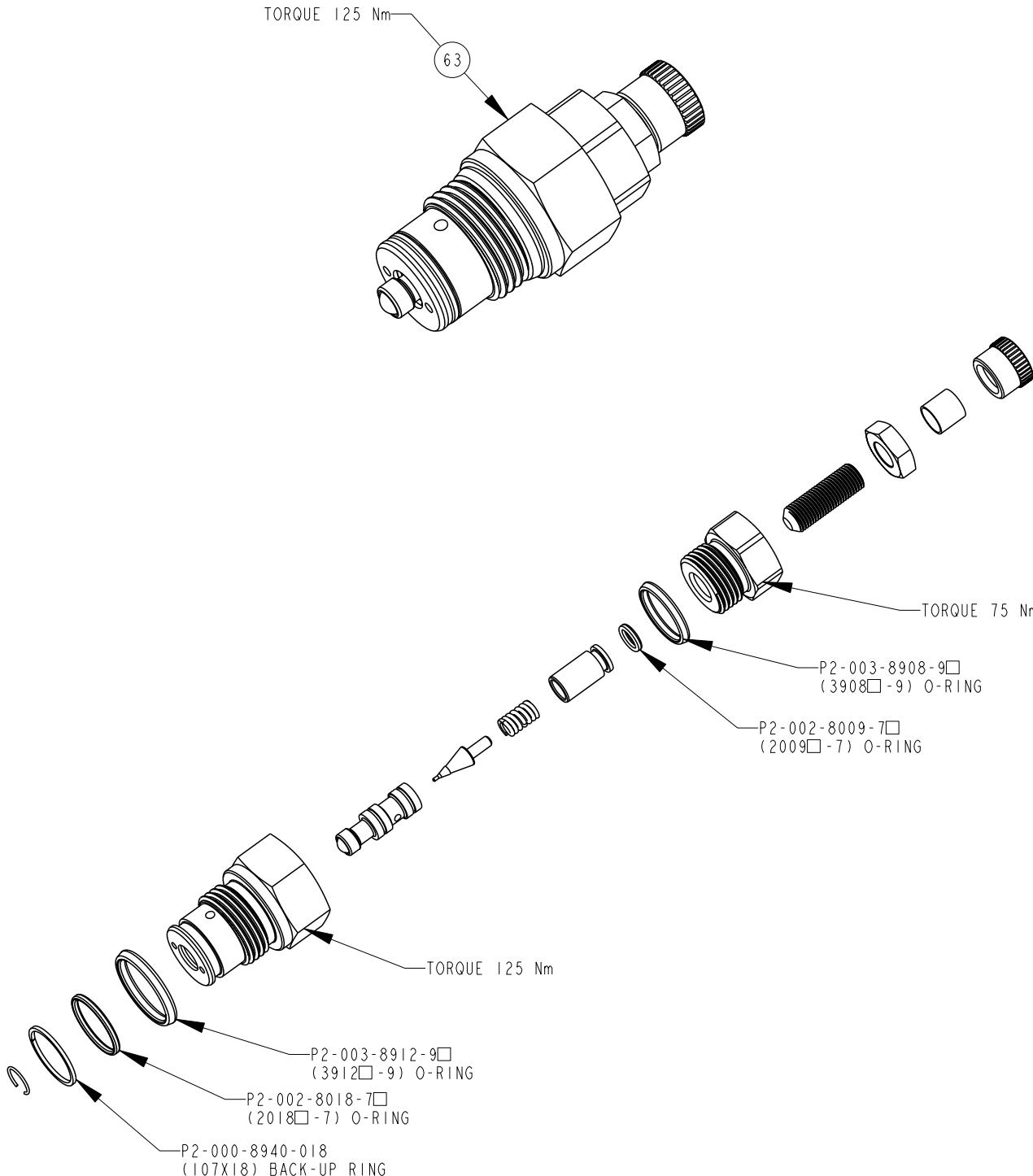
COVER ONLY	COVER ASSEMBLY	DESCRIPTION
P2-145-1015-01	P2-145-0226-09□	SIDE PORT, CCW, UNC
P2-145-1015-02	P2-145-0226-10□	SIDE PORT, CCW, UNC, THRU
P2-145-1015-03	P2-145-0226-11□	SIDE PORT, CCW, METRIC
P2-145-1015-04	P2-145-0226-12□	SIDE PORT, CCW, METRIC, THRU
P2-145-1016-01	P2-145-0226-13□	SIDE PORT, CW, UNC
P2-145-1016-02	P2-145-0226-14□	SIDE PORT, CW, UNC, THRU
P2-145-1016-03	P2-145-0226-15□	SIDE PORT, CW, METRIC
P2-145-1016-04	P2-145-0226-16□	SIDE PORT, CW, METRIC, THRU

TITLE SERVICE PARTS P3145 DESIGN SERIES 12	DRAWING NUMBER P2-145-0406	REVISION -	STATUS PR	SHEET 6 OF 7
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DRAWN BY STREHLOW	DATE 31OCT02	CHANGED BY B. LARKIN	DATE 08NOV02	ECN NUMBER 133698
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TORQUE CONTROL CARTRIDGE

P2-000-0803 □ - ITEM 63



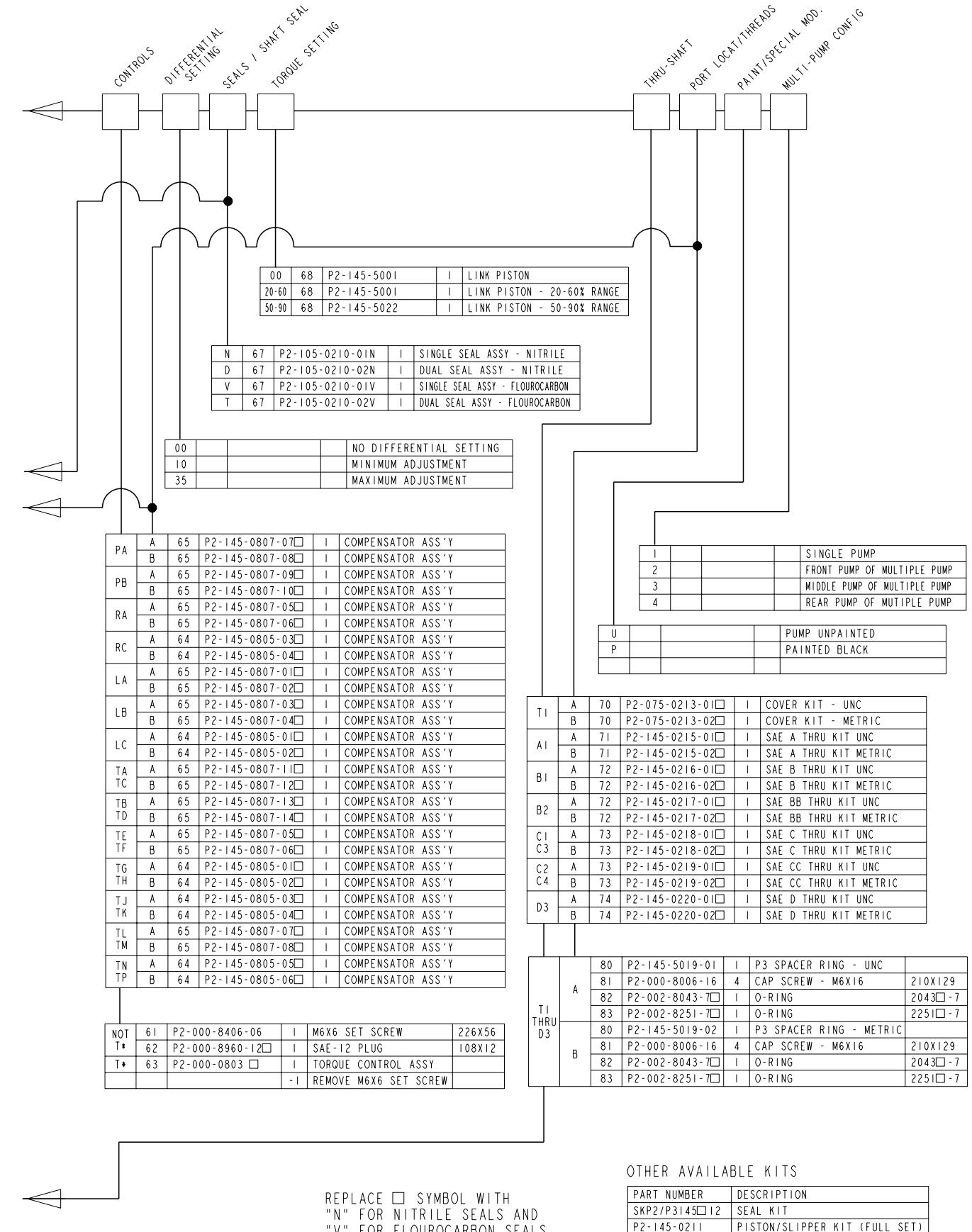
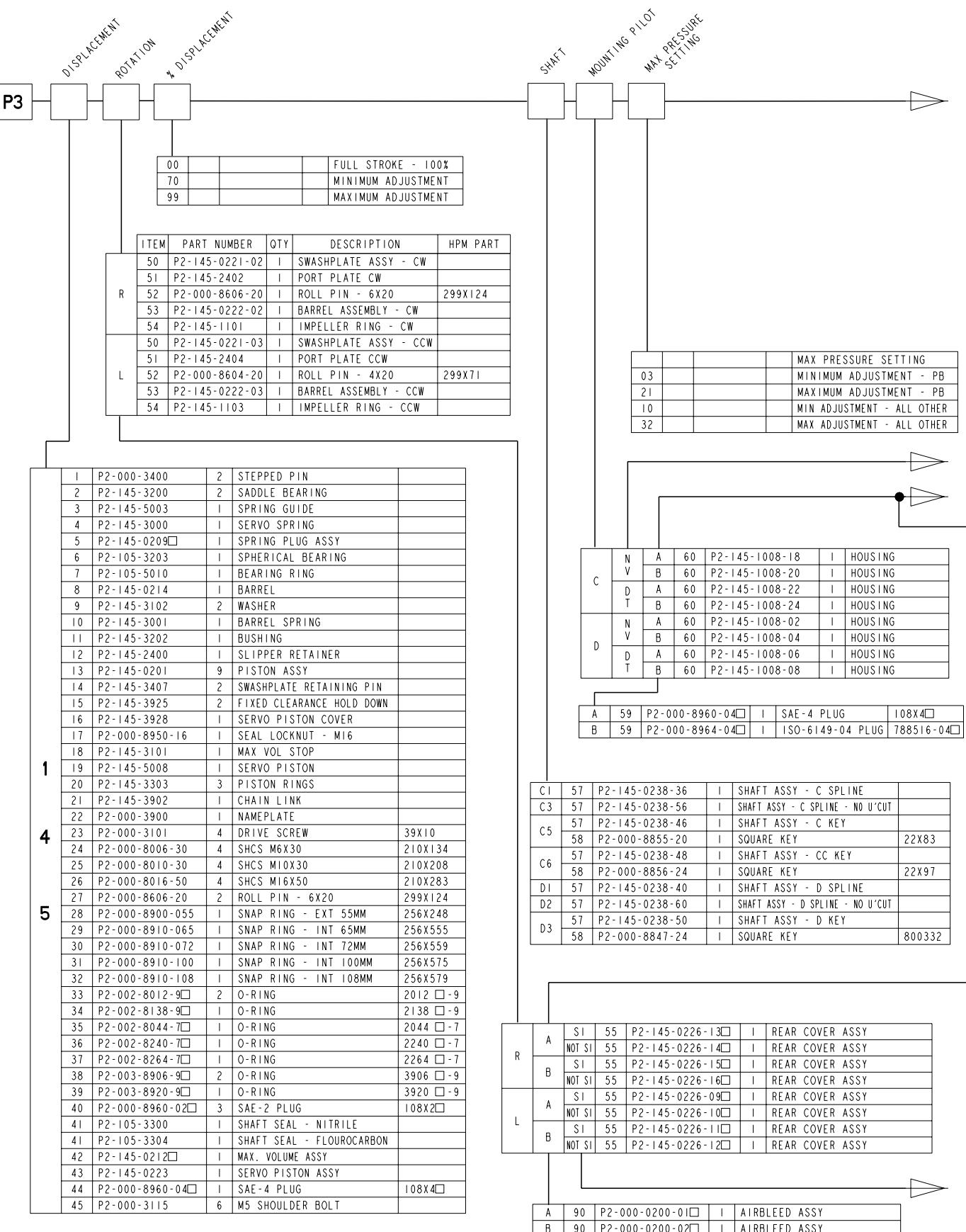
ASSEMBLY, DIS-ASSEMBLY AND REPAIR NOTES

DISASSEMBLY STEPS FOR ENTIRE PUMP

1. REMOVE COVER SCREWS AND COVER
2. REMOVE IMPELLER SCREWS AND IMPELLER
3. DE-STROKE PUMP TO MINIMUM ANGLE WITH MAX VOLUME SCREW
4. REMOVE FIXED CLEARANCE HOLD DOWN SCREWS AND HOLD DOWN PARTS
5. REMOVE ROTATING GROUP (BARREL, SLIPPER RETAINER AND PISTONS)
6. REMOVE SHAFT SEAL CARRIER
7. REMOVE SHAFT
8. REMOVE BIAS SPRING PLUG, SPRING AND RETAINER
9. REMOVE MAX. VOLUME ASSY
10. REMOVE SERVO PISTON ASSY.
11. REMOVE SWASHPLATE ASSEMBLY

SHAFT SEAL REPLACEMENT

1. REMOVE SEAL CARRIER ONLY
2. REMOVE OLD SEAL
3. INSPECT SHAFT
4. IF SHAFT IS WORN INSTALL NEW SEAL IN INNER LOCATION FOR SINGLE SEAL APPLICATIONS (SEE SHEET 1).
REPLACE SHAFT FOR DUAL SEAL APPLICATIONS



OTHER AVAILABLE KITS

PART NUMBER	DESCRIPTION
SKP2/P3145-12	SEAL KIT
P2-145-0211	PISTON/SLIPPER KIT (FULL SET)