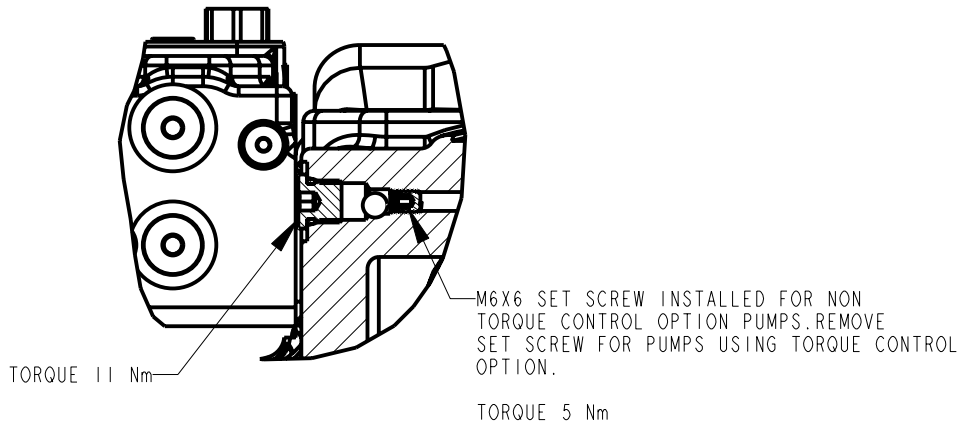
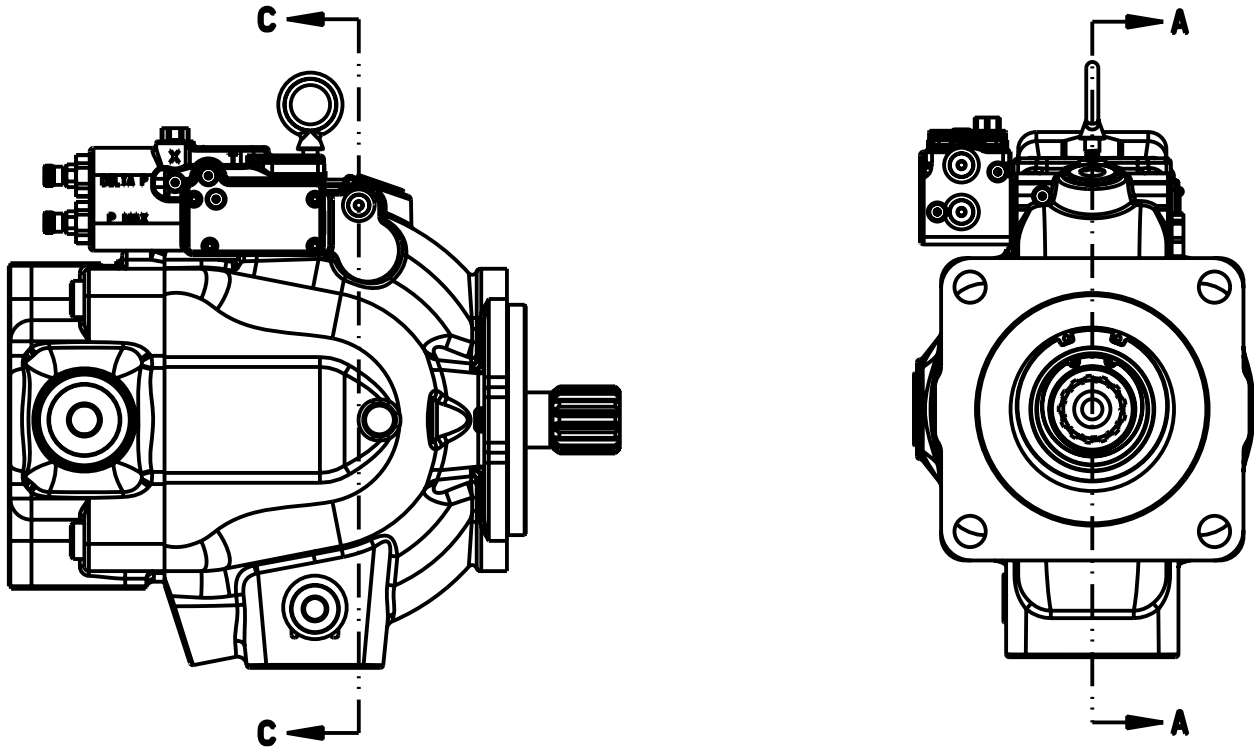


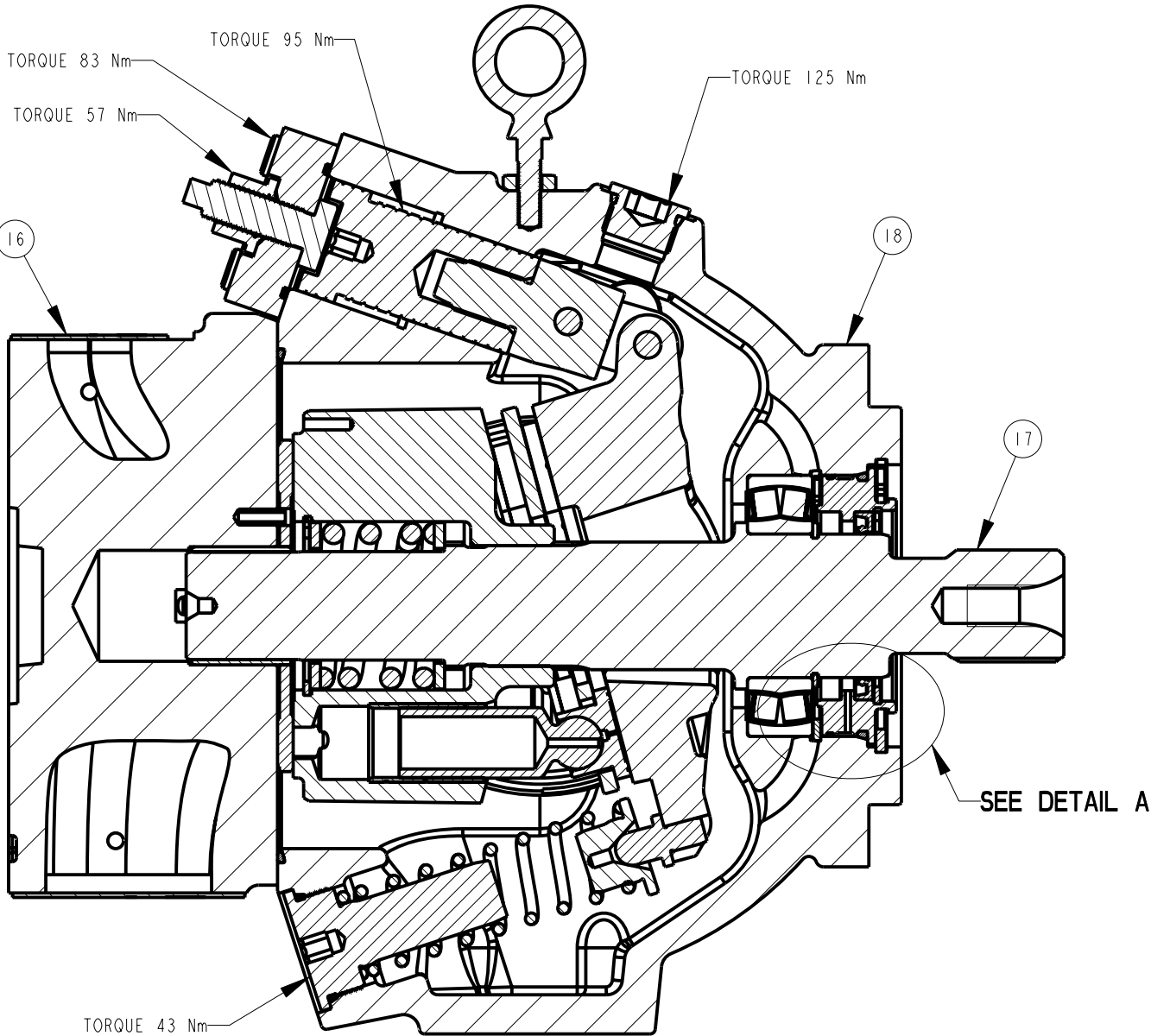
TITLE	SERVICE PARTS P2145 DESIGN SERIES 15	DRAWING NUMBER	P2-145-0411	REVISION	NONE	STATUS	PR	SHEET 1 OF 8
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DRAWN BY	L. NAGEL	DATE	10FEB10	CHANGED BY	-	DATE	-	ECN NUMBER	702110
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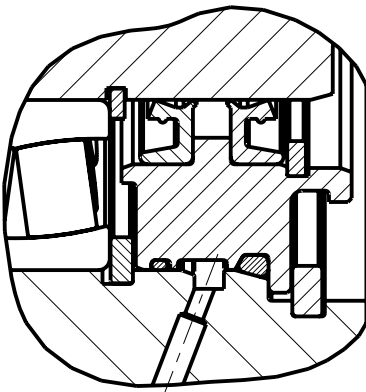


SECTION C-C

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

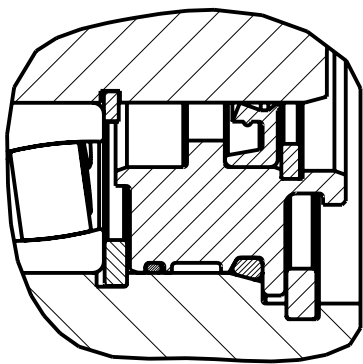


SECTION A-A



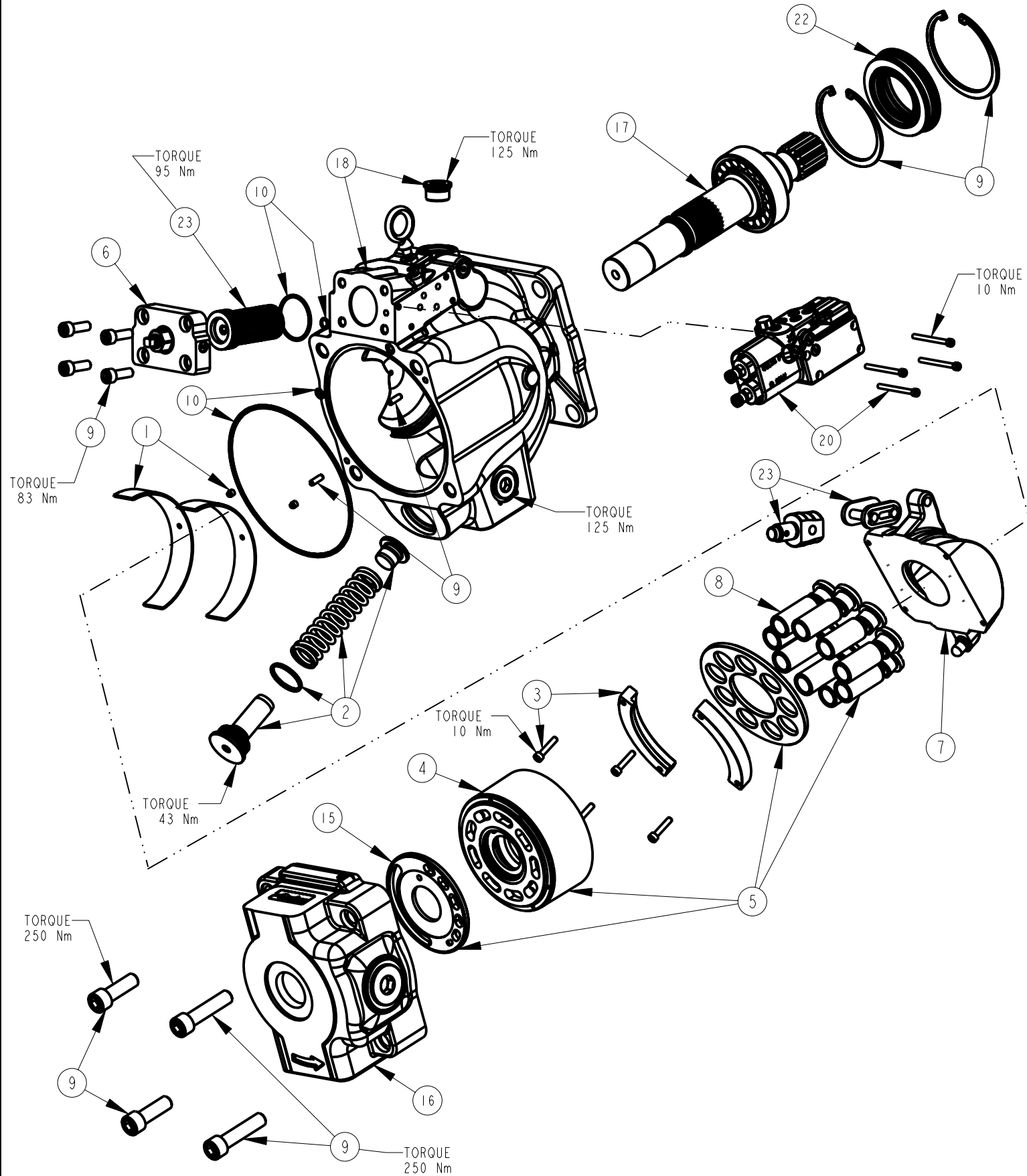
DETAIL A

DUAL SHAFT SEAL ASSEMBLY (D/T OPTION)
P2-145-0210-02□

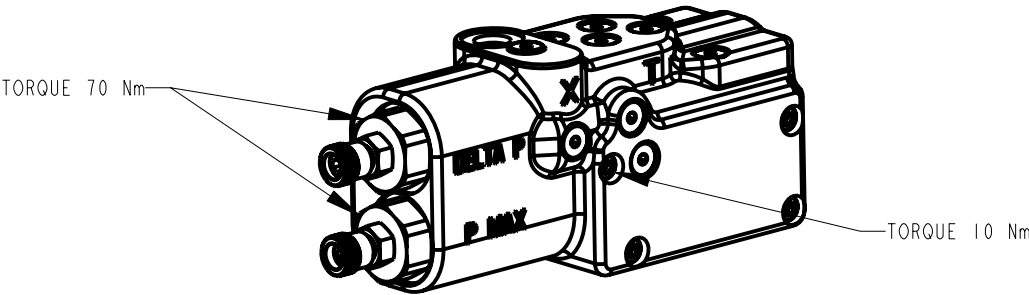


DETAIL A

SINGLE SHAFT SEAL ASSEMBLY (N/V OPTION)
P2-145-0210-01□

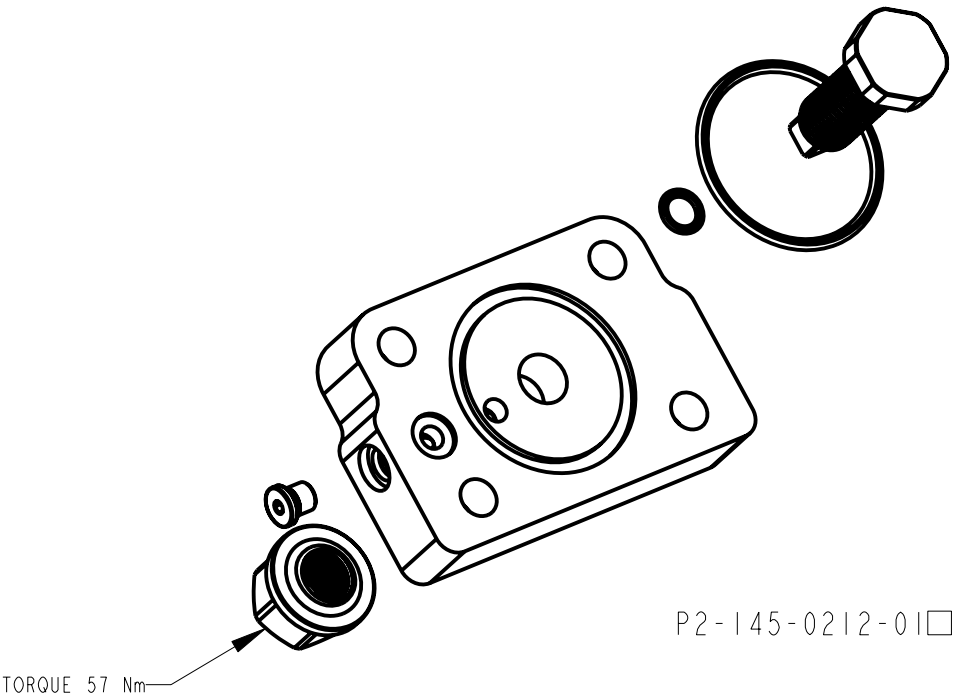


COMPENSATOR KITS ITEM 20



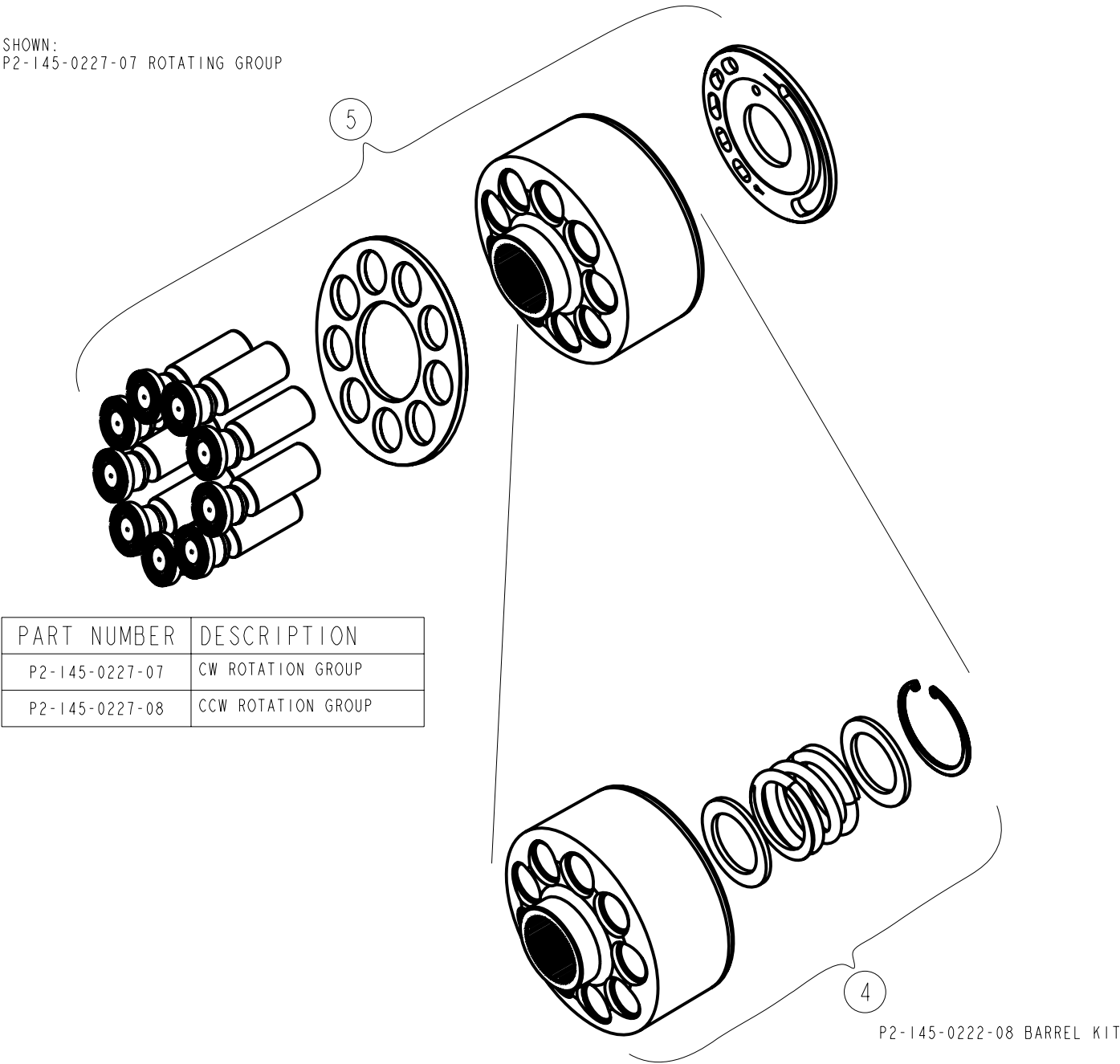
PA	A	20	P2-075-0806-07□	1	COMPENSATOR ASSY
	B	20	P2-075-0806-08□	1	COMPENSATOR ASSY
RA	A	20	P2-075-0806-05□	1	COMPENSATOR ASSY
	B	20	P2-075-0806-06□	1	COMPENSATOR ASSY
LA	A	20	P2-075-0806-01□	1	COMPENSATOR ASSY
	B	20	P2-075-0806-02□	1	COMPENSATOR ASSY
LB	A	20	P2-075-0806-03□	1	COMPENSATOR ASSY
	B	20	P2-075-0806-04□	1	COMPENSATOR ASSY
TA	A	20	P2-075-0806-11□	1	COMPENSATOR ASSY
	B	20	P2-075-0806-12□	1	COMPENSATOR ASSY
TB	A	20	P2-075-0806-13□	1	COMPENSATOR ASSY
	B	20	P2-075-0806-14□	1	COMPENSATOR ASSY

MAX. VOLUME ASSEMBLY ITEM 6

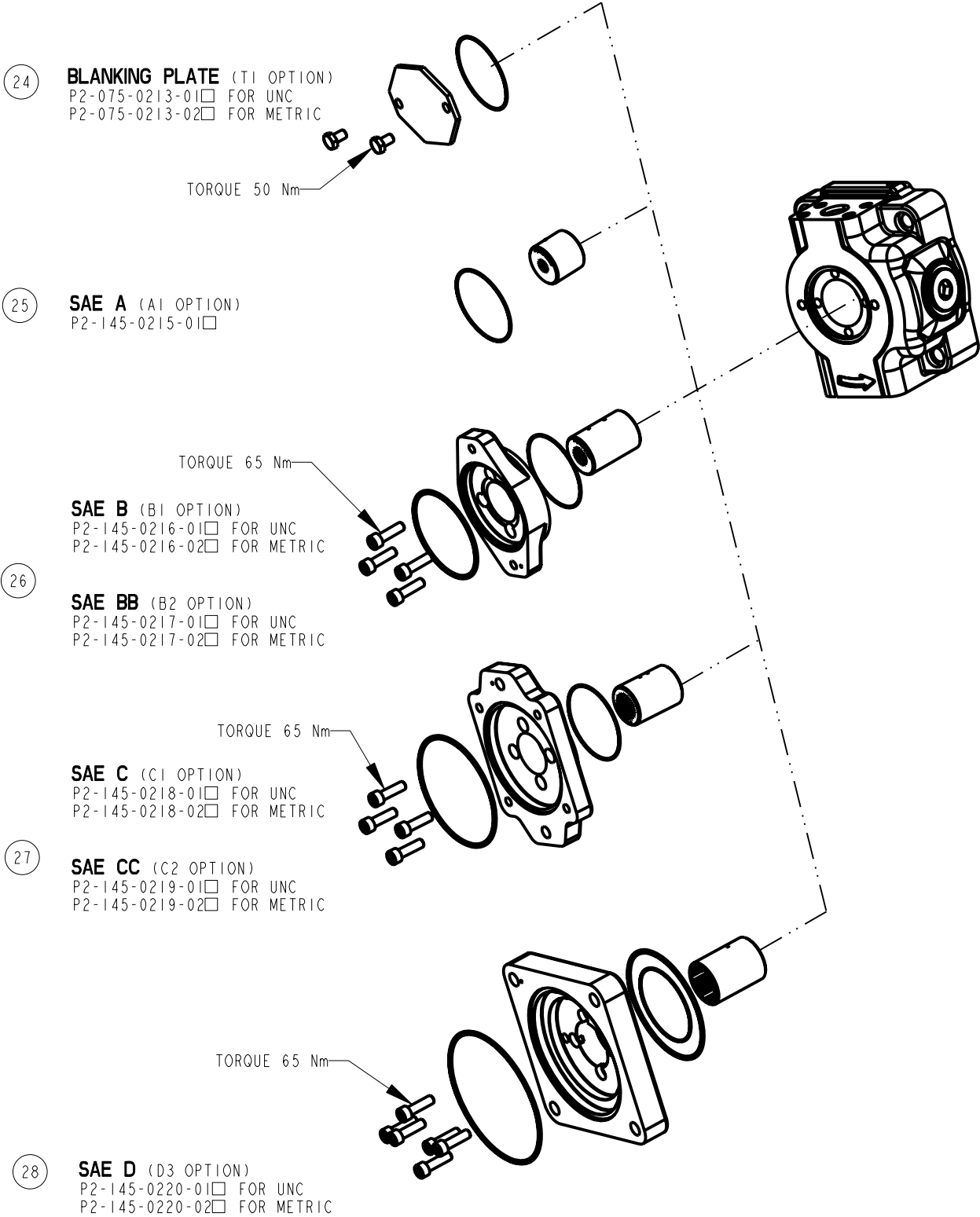


ROTATING GROUP / BARREL KIT
ITEM 5
ITEM 4

SHOWN:
P2-145-0227-07 ROTATING GROUP

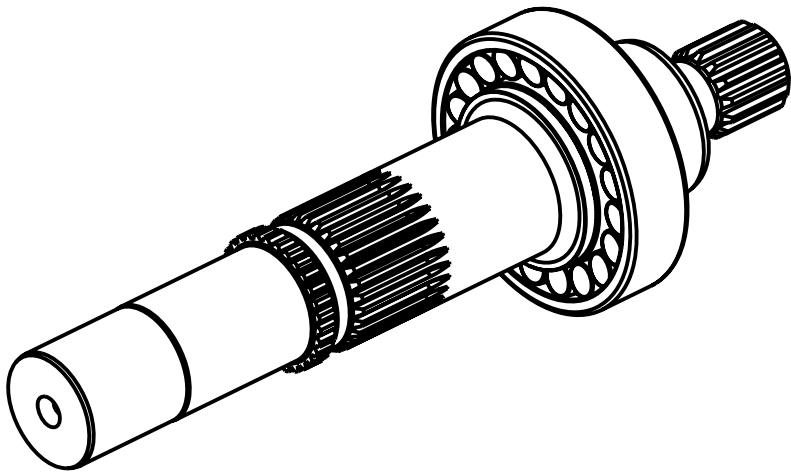


THRU DRIVE KITS



TITLE	SERVICE PARTS P2145 DESIGN SERIES 15	DRAWING NUMBER	P2-145-0411	REVISION	NONE	STATUS	PR	SHEET	4 OF 8
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SHAFT ASSEMBLY KITS ITEM 17

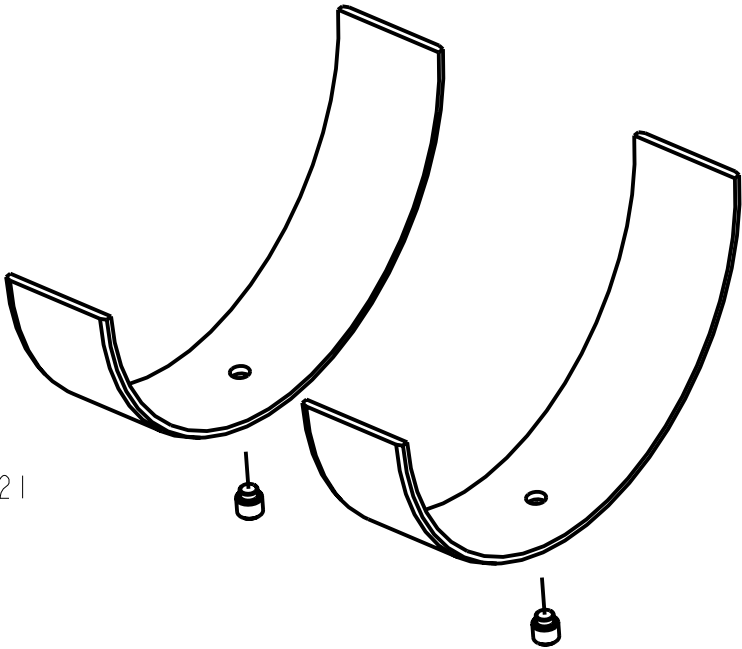


	SHAFT ASSEMBLY	DESCRIPTION
C1	P2-145-0238-36	C SPLINE THRU
C1	P2-145-0238-37	C SPLINE NOT THRU
D1	P2-145-0238-40	D SPLINE THRU
D1	P2-145-0238-41	D SPLINE NOT THRU
C5	P2-145-0238-46	C KEY THRU
C5	P2-145-0238-47	C KEY NOT THRU
C6	P2-145-0238-48	CC KEY THRU
C6	P2-145-0238-49	CC KEY NOT THRU
D3	P2-145-0238-50	D KEY THRU
D3	P2-145-0238-51	D KEY NOT THRU
C3	P2-145-0238-56	C SPLINE THRU NO UNDERCUT
C3	P2-145-0238-57	C SPLINE NOT THRU NO UNDERCUT
D2	P2-145-0238-60	D SPLINE THRU NO UNDERCUT
D2	P2-145-0238-61	D SPLINE NOT THRU NO UNDERCUT



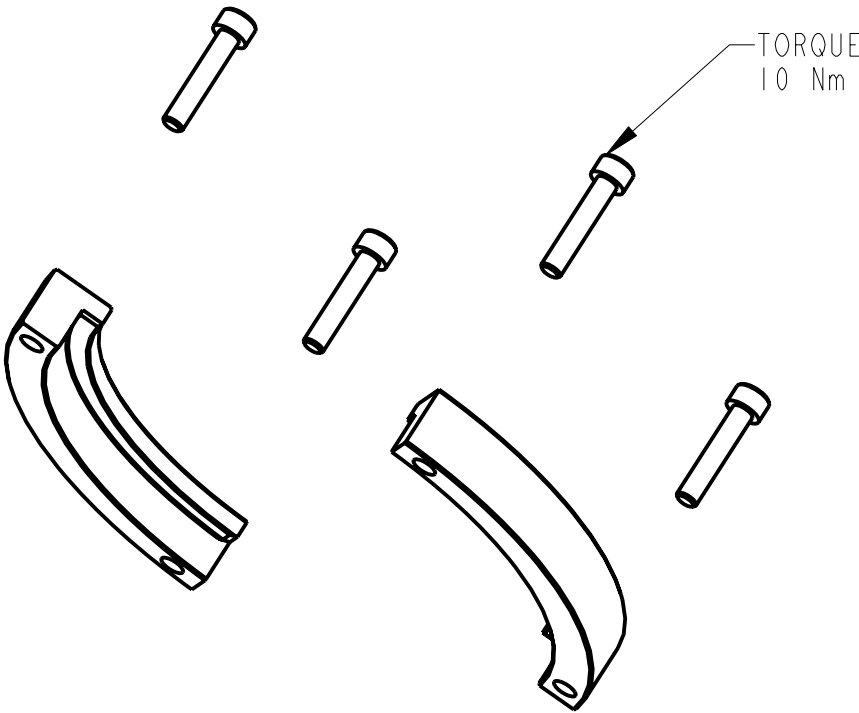
DRAWN BY	DATE	CHANGED BY	DATE	ECN NUMBER
L. NAGEL	10FEB10	-	-	702110

KIT SADDLE BEARING ITEM 1



P2-145-0229-21

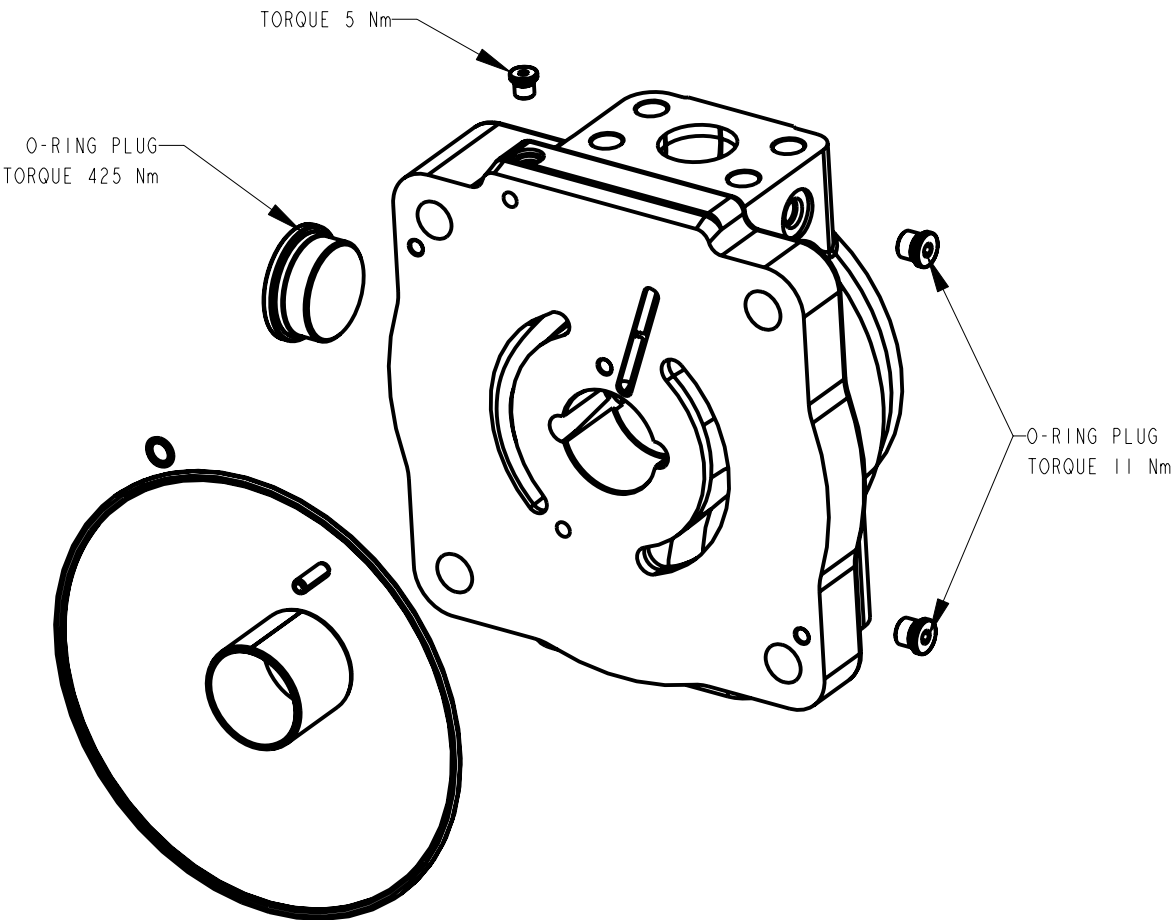
KIT FIXED CLEARANCE HOLD DOWN ITEM 3



P2-145-0229-23

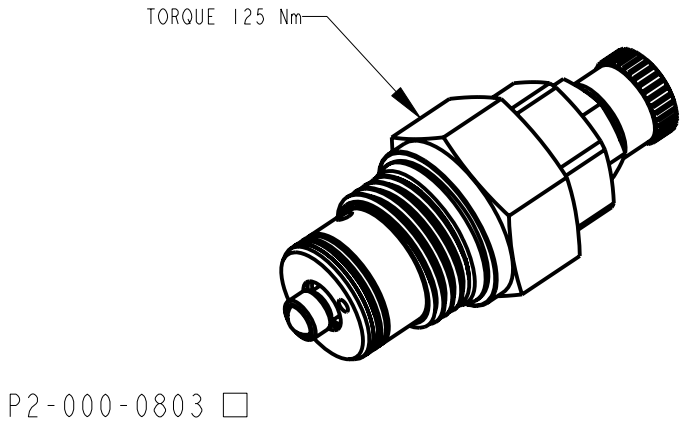


COVER ASSEMBLY KITS
ITEM 16

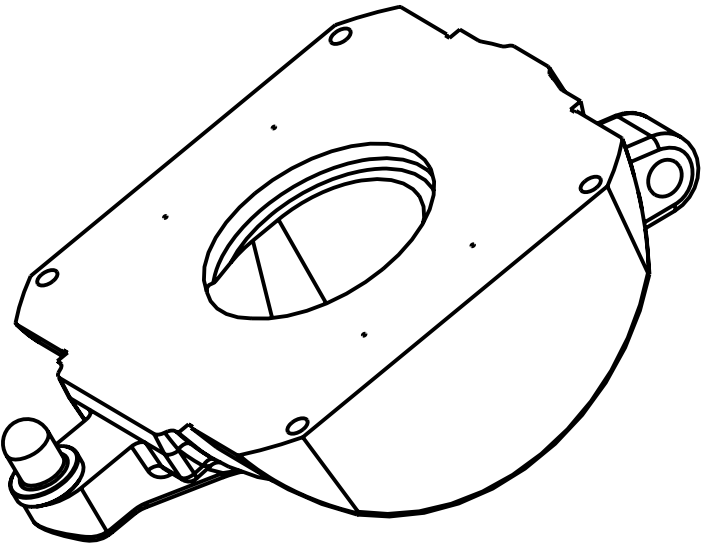


	THRDS		COVER ASSEMBLY	DESCRIPTION
L	A	SI	P2-145-0226-01□	SIDE PORTS, CCW, UNC
	A	NOT SI	P2-145-0226-02□	SIDE PORTS, CCW, UNC, THRU
	B	SI	P2-145-0226-03□	SIDE PORTS, CCW, METRIC
	B	NOT SI	P2-145-0226-04□	SIDE PORTS, CCW, METRIC, THRU
R	A	SI	P2-145-0226-05□	SIDE PORTS, CW, UNC
	A	NOT SI	P2-145-0226-06□	SIDE PORTS, CW, UNC, THRU
	B	SI	P2-145-0226-07□	SIDE PORTS, CW, METRIC
	B	NOT SI	P2-145-0226-08□	SIDE PORTS, CW, METRIC, THRU

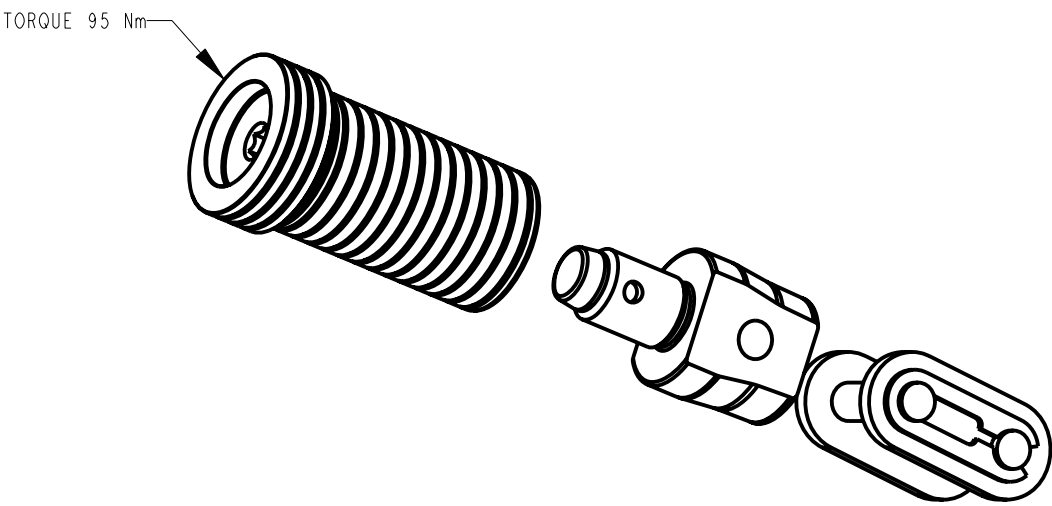
TORQUE CONTROL CARTRIDGE
ITEM 19



KIT SWASH PLATE
ITEM 7

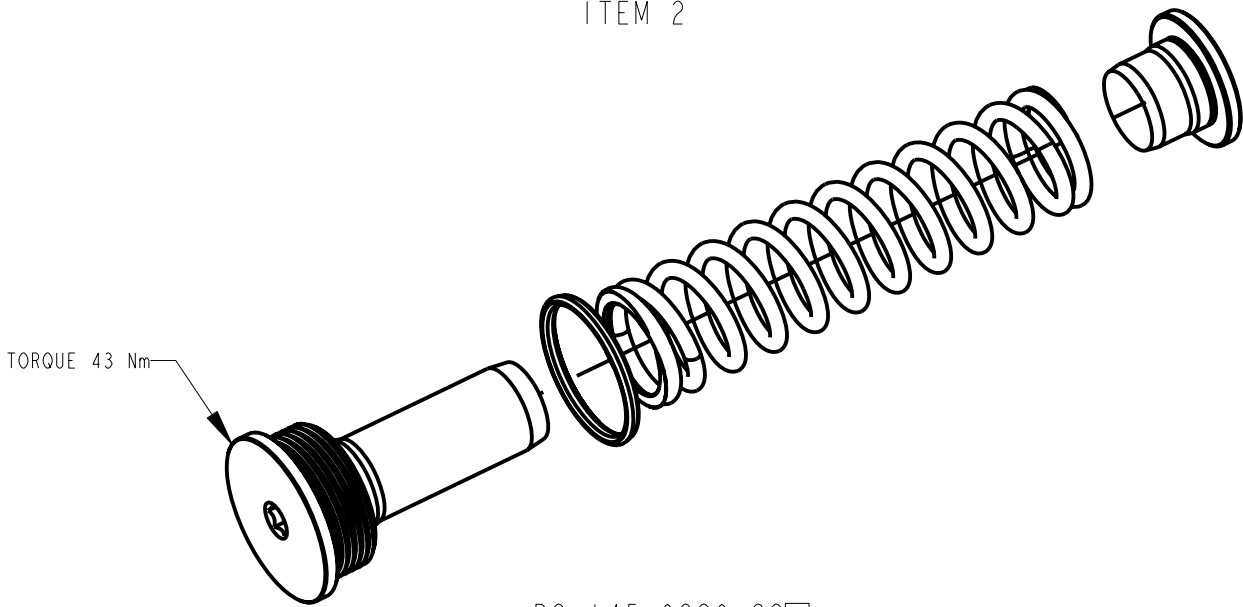


KIT SERVO PISTON
ITEM 23



PART NUMBER	DESCRIPTION	
P2-145-0229-19	KIT SERVO PISTON 40%	USED EXEPT WITH TC & TD OPTION
P2-145-0229-20	KIT SERVO PISTON 70%	USED WITH TC & TD OPTION

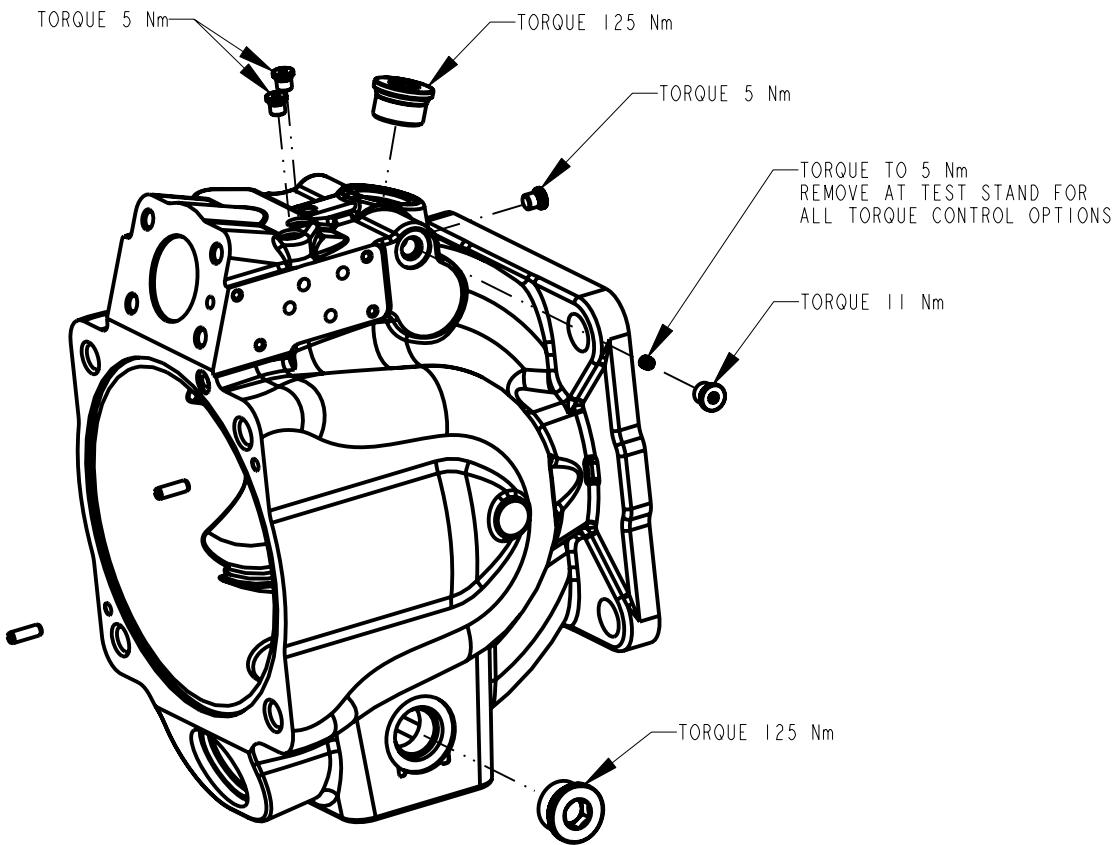
KIT SERVO SPRING
ITEM 2



P2-145-0229-22□



KIT HOUSING
ITEM 18



MTG-PILOT	SEAL OPTION	THRDS	PART NUMBER	DESCRIPTION
C	N/V	B	P2-145-0221-40□	MACHINING C-PILOT 1 SEAL METRIC HOUSING
	D/T	B	P2-145-0221-41□	MACHINING C-PILOT 2 SEAL METRIC HOUSING
D	N/V	B	P2-145-0221-42□	MACHINING D-PILOT 1 SEAL METRIC HOUSING
	D/T	B	P2-145-0221-43□	MACHINING D-PILOT 2 SEAL METRIC HOUSING
C	N/V	A	P2-145-0221-44□	MACHINING C-PILOT 1 SEAL UNC HOUSING
	D/T	A	P2-145-0221-45□	MACHINING C-PILOT 2 SEAL UNC HOUSING
D	N/V	A	P2-145-0221-46□	MACHINING D-PILOT 1 SEAL UNC HOUSING
	D/T	A	P2-145-0221-47□	MACHINING D-PILOT 2 SEAL UNC HOUSING



TITLE	DRAWING NUMBER	REVISION	STATUS	
SERVICE PARTS P2145 DESIGN SERIES 15	P2-145-0411	NONE	PR	SHEET 7 OF 8

ASSEMBLY, DIS-ASSEMBLY AND REPAIR NOTES

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



DRAWN BY	DATE	CHANGED BY	DATE	ECN NUMBER
L. NAGEL	10FEB10	-	-	702110

NOTES:



