

### **Series 20**

Heavy	<b>Duty</b>
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**Variable Motors** 

**Service Parts Manual** 

			lac.	

## FOR ALL 21-27 SERIES VARIABLE DISPLACEMENT MOTORS TABLE OF CONTENTS

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#### SERVICE PARTS IDENTIFICATION

THE FOLLOWING INFORMATION AND PROCEDURE IS USED TO IDENTIFY THE ITEM NUMBER, PART NUMBER AND PART NAME OF THE PARTS INCLUDED IN 21-27 SERIES VARIABLE DISPLACEMENT MOTORS.

THE PARTS LISTED INCLUDE ALL PARTS WHICH MAY BE USED WHEN PERFORMING EITHER "MINOR REPAIRS" OR "MAJOR REPAIRS" ON 21-27 SERIES VARIABLE DISPLACEMENT MOTORS.

#### MODEL TO GROUP CROSS REFERENCE

THE SUNDSTRAND-SAUER MODEL NUMBER IS NECESSARY FOR IDENTIFICATION OF THE SPECIFIC UNIT. THE MODEL NUMBER MUST BE USED IN CONJUNCTION WITH THE GROUP AND OPTION NUMBER WHEN ORDERING PARTS.

#### SERIAL NUMBER

THE SUNDSTRAND-SAUER SERIAL NUMBER CAN BE USED TO IDENTIFY DESIGN CONFIGURATION CHANGES (PRODUCT IMPROVEMENTS, ETC.). CHANGES WHICH AFFECT INTERCHANGEABILITY OF PARTS ARE IDENTIFIED WITH A MANUFACTURING DATE. THE SERIAL NUMBER PROVIDES SUNDSTRAND-SAUER WITH A TOOL TO FURTHER IDENTIFY A UNIT AND SHOULD BE INCLUDED IN COMMUNICATIONS REGARDING THE ORDERING OF SERVICE PARTS.

#### NAME PLATE

EACH MOTOR WILL HAVE A NAME PLATE AFFIXED TO THE HOUSING. THE NAME PLATE WILL INCLUDE THE MODEL NUMBER AND SERIAL NUMBER.

### PROCEDURE TO IDENTIFY A GIVEN PART/PART NUMBER COMMON PARTS AND OPTIONS

- STEP 1. LOCATE THE MODEL NUMBER ON THE NAME PLATE AFFIXED TO THE HOUSING.
- STEP 2. MATCH THE MODEL NUMBER ON THE NAME PLATE TO THAT PORTION OF THE MODEL NUMBER IN THE "MODEL TO GROUP CROSS REFERENCE".
- STEP 3. REFERING TO THE VARIABLE MOTOR DRAWING FORM NO. 2-41623 ON PAGE 8, LOCATE THE SERVICE PART AND CORRESPONDING PART REFERENCE NUMBER DESIRED.
- STEP 4. USE THE SERVICE PART REFERENCE NUMBER FROM THE DRAWING AND REFER TO THE "COMMON PARTS" OR "OPTIONS". LOCATE THE HEADING "PART REF", MOVE DOWN THE PAGE TO FIND THAT REFERENCE NUMBER. THEN MOVE ACROSS THE PAGE TO THE PART NUMBER, DESCRIPTION AND QUANTITY PER MODEL.
- STEP 5. IF THE PART REFERENCE NUMBER IS FOUND IN "OPTIONS" AND IS LISTED MORE THAN ONCE IN THAT GROUP REFER TO "MODEL TO GROUP CROSS REFERENCE". LOCATE YOUR MODEL NUMBER AND MOVE ACROSS THE PAGE TO THE OPTION NUMBER FOUND DIRECTLY UNDER THAT GROUP NAME. CROSS REFERENCE THIS OPTION NUMBER TO THE PART REFERENCE NUMBER IN THE GROUP. MOVE ACROSS THE PAGE TO PART NUMBER, DESCRIPTION AND QUANTITY PER MODEL.

### PROCEDURE TO IDENTIFY A GIVEN PART/PART NUMBER MANIFOLD/CONTROL KITS

- STEP 1. MATCH THE MODEL NUMBER ON THE NAME PLATE TO THAT PORTION OF THE MODEL NUMBER IN THE "MODEL TO GROUP CROSS REFERENCE".
- STEP 2. MOVE ACROSS THE PAGE TO THE MANIFOLD/CONTROL FORM NO. SEE "TABLE OF CONTENTS" TO FIND THE PAGE NUMBER OF A FORM NO.
- STEP 3. WHEN YOU HAVE LOCATED THE DRAWING AND PARTS LIST FOR THE APPROPRIATE FORM NO., ENTER THE PORTION OF YOUR MODEL NUMBER REQUIRED IN THE BLANKS PROVIDED REFER TO PARTS DRAWING AND PARTS LIST TO LOCATE THE SERVICE PART AND CORRESPONDING PART REFERENCE NUMBER DESIRED.

#### SUNDSTRAND-SAUER STANDARD MODEL SPECIFICATIONS

#### 21 SERIES VARIABLE DISPLACEMENT MOTOR

SWASHPLATE DISPLACEMENTS CUBIC INVREV 18 DEG. = 3.15	MANIFOLD ORIFICE .390	MOUNTING FLANGE SAE C	CASE PORT SAE O-RING BOSS 7/8-14 UNF 28	END CAP MAIN PORT A = 1-3000 B = 1-6000
	DISP CONTROL ORIFICE .042			OUTLINE DRAWING 21-5402

### DRIVE SHAFT INFORMATION

C = 14 T. SPLINE 1.2293 MAX. O.D. - 12/24 P F = 21 T. SPLINE 1.3585 MAX. O.D. - 16/32 P

MODEL		END			N	MIN. ANGLE
21-	SHAFT	CAP	MANIFOLD	CONTROL	PISTON	RANGE COMMENTS
4501NJ-	C	A	NONE	SLAVE	FILLED	6.5 END CAP NOT DRILLED
4502AJ-	C	A	STD	SLAVE	FILLED	0.0 0.0 MIN, ANGLE LINK
4503AA-	C	A	STD	MDC	FILLED	6.5-18
4504BJ-	C	A	RTRY BYPASS	SLAVE	FILLED	6.5-18

#### 22 SERIES VARIABLE DISPLACEMENT MOTOR

SWASHPLATE DISPLACEMENTS CUBIC IN/REV 18 DEG. = 4.26	ORIFICE .390	MOUNTING FLANGE SAE C	CASE PORT SAE O-RING BOSS 7/8-14 UNF 2B	END CAP MAIN PORT A = 1-3000 B = 1-6000
	DISP CONTROL ORIFICE .042			OUTLINE DRAWING 22-5402

#### DRIVE SHAFT INFORMATION

C = 14 T. SPLINE 1.2293 MAX. O.D. - 12/24 P F = 21 T. SPLINE 1.3585 MAX. O.D. - 16/32 P

MODE	46	END					01.5	
MODE	EL	END			I.	MIN. AN	GLE	
22-	SHA	AFT CAP	MANIFOLD	CONTROL	PISTON	RANG	E COMMENTS	
4501N	J- (	A	NONE	SLAVE	FILLED	6.5	END CAP NOT DRILLED	
4502N	J- C	. A	NONE	SLAVE	FILLED	9.0	END CAP NOT DRILLED	
4503N	IJ- C	A	NONE	SLAVE	FILLED	0.0	END CAP NOT DRILLED	
4504A	A- C	. A	STD	MDC	FILLED	6.5-18	3	
4504A	J- C	A	STD	SLAVE	FILLED	6.5-18	3	
4505A	J- C	B	STD	SLAVE	WELDED	6.5-18	3	
4506A	A- F	A	STD	MDC	FILLED	6.5-18	3	

#### SUNDSTRAND-SAUER STANDARD MODEL SPECIFICATIONS

#### 23 SERIES VARIABLE DISPLACEMENT MOTOR

		23 SE	RIES VARIAB	LE DISPLAC	EMENT MC	TOR	
SWASHPLATE DISPLACEMENTS CUBIC IN/REV 18 DEG. = 5.43		MANIFOLD ORIFICE .390		MOUNTING FLANGE SAE C	SAE	ASE PORT O-RING BOSS 8-14 UNF 2B	END CAP MAIN PORT A = 1-3000 B = 1-6000
		100	CONTROL RIFICE .042				OUTLINE DRAWING 23-5402
		F	DRIVE SH = 14 T. SPLINE = 21 T. SPLINE = 23 T. SPLINE	1.3585 MAX. O.	D 12/24 P D 16/32 P		
MODEL 23- 4501AA- 4502AL- 4502HR-	SHAFT F F F	END CAP A B B	MANIFOLD STD STD PILOT/STD	CONTROL MDC EDC HDC	PISTON FILLED WELDED WELDED	7.0-18 7.0-18 7.0-18 TWO(2) ORIFIC NOPIL	.025 CONTROL ES -(HDC WITH LOT SHUTTLE SPOOL)
4503AJ- 4504AA- 4505AA-	ССН	AAA	STD STD STD	SLAVE MDC MDC	WELDED FILLED FILLED	7.0-18 7.0-18 7.0-18	S, 932/
		24 SE	RIES VARIAB	LE DISPLAC	EMENT MO	OTOR	-
SWASHE DISPLACE CUBIC IN 18 DEG.	MENTS WREV	2000	NIFOLD RIFICE .390	MOUNTING FLANGE SAE D	SAE	ASE PORT O-RING BOSS 3-14 UNF 2B	END CAP MAIN PORT A = 1-3000 B = 1-6000
			CONTROL RIFICE .042				OUTLINE DRAWING 24-5402
			DRIVE SH = 13 T, SPLINE = 27 T, SPLINE		D 8/16 P		

SHAFT CAP MANIFOLD CONTROL PISTON RANGE COMMENTS 24-4501AA-STD 7.0-18 NO CONTROL ORIFICE A В MDC WELDED

MIN. ANGLE

4502CJ-1 A COVER SLAVE WELDED 7.0-18

END

MODEL

### SUNDSTRAND-SAUER STANDARD MODEL SPECIFICATIONS

#### 25 SERIES VARIABLE DISPLACEMENT MOTOR

	25 SENIES VANIAL	SEL DISTERCEN	LNT MOTOR	
SWASHPLATE DISPLACEMENTS CUBIC IN/REV 18 DEG. = 10.12	MANIFOLD ORIFICE .390	MOUNTING FLANGE SAE E	CASE PORT SAE O-RING BOSS 1-7/8-12 UN 2B	END CAP MAIN PORT D = 1-1/2-600
	DISP CONTROL ORIFICE ,042			DRAWING 25-5402
	DRIVE SH A = 13 T. SPLINE J = 27 T. SPLINE K = STRAIGHT KE	1.7335MAX.		
MODEL 25- SHAFT 4501AJ- A	CAP MANIFOLD D STD		MIN. ANGLE ISTON RANGE CO VELDED 7.0-18	MMENTS
	26 SERIES VARIA	BLE DISPLACEM	ENT MOTOR	
SWASHPLATE DISPLACEMENTS CUBIC IN/REV 18 DEG. = 13.87	MANIFOLD ORIFICE .390	MOUNTING FLANGE SAE E	CASE PORT SAE O-RING BOSS 1-7/8-12 UN 2B	END CAP MAIN PORT D = 1-1/2-6000
	DISP CONTROL ORIFICE .042			OUTLINE DRAWING 26-5402
	DRIVE SH A = 13 T. SPLINE	IAFT INFORMAT 1.7210 MAX.	ION O.D 8/16 P	
MODEL 26- SHAFT 4501AJ- A	CAP MANIFOLD D STD		MIN. ANGLE PISTON RANGE CO VELDED 8.0-18	OMMENTS
	27 SERIES VARIA	BLE DISPLACEM	ENT MOTOR	
SWASHPLATE DISPLACEMENTS CUBIC IN/REV 18 DEG. = 20.36	MANIFOLD ORIFICE .390	MOUNTING FLANGE SAE F	CASE PORT SAE O-RING BOSS 1-7/8-12 UN 2B	END CAP MAIN PORT D = 1-1/2-6000
	DISP CONTROL ORIFICE .042			OUTLINE DRAWING 27-5402
	DRIVE SH K = STRAIGHT KE M = 15 T. SPLINE N = 40 T. SPLINE	1.9710 MAX.	O.D 5/8 X 5/8 X 4 O.D 8/16 P O.D 16/32	
MODEL 27- SHAFT 4501AJ- M	END CAP MANIFOLD D STD		MIN. ANGLE PISTON RANGE CO VELDED 7.0-18	OMMENTS

#### 21 - 27 SERIES VARIABLE MOTOR LETTER DESIGNATION

2 4 5	
MANIFOLD	
CONTROL	
"A" PORT SYSTEM PRESSURE	
SWASHPLATE MINIMUM ANGLE	
CHARGE PRESSURE	
"B" PORT SYSTEM PRESSURE	

TABLE I

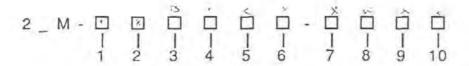
CODE	MANIFOLD	CONTROL	H P RELIEF	MIN ANGLE	CHG PRESS
A B C D	STANDARD ROTARY BYPASS COVER PLATE PILOT OP, RELIEFS	MDC	1000 PSI 1500 PSI 2000 PSI 2500 PSI	17 DEG 16 DEG 15 DEG	160/180 180/200 200/220
EFGH	SHUTTLE BLOCKED  STD/PILOT RELIEFS	MDC/ANNULAR	3000 PSI 3500 PSI 4000 PSI 4500 PSI	14 DEG 13 DEG 12 DEG 11 DEG	220/240 240/260 260/280 280/300
J K L M		SLAVE PLATE SHIPPING PLAT EDC	5000 PSI 5500 PSI 6000 PSI@ 6500 PSI@	10 DEG 9 DEG 8 DEG 7 DEG	300/320 320/340 340/360 360/380
N P R S	NOT DRILLED	EDC/ANNULAR HDC	7000 PSI@	6 DEG 5 DEG 4 DEG 3 DEG	380/400
T U W X	NONE	HDC/ANNULAR NONE	NONE	2 DEG 1 DEG 0 DEG	PILOT OPER NONE
Y Z	SPECIAL	SPECIAL	SPECIAL	6.5 DEG -1 DEG	SPECIAL

#### @ = APPLICATION REVIEW REQUIRED

CHANGING THE MOTOR MINIMUM ANGLE DOES NOT NECESSITATE CREATING A NON-STANDARD MODEL IF THE DESIRED ANGLE FALLS INSIDE THE RANGE SPECIFIED FOR THE STANDARD MODEL (I.E., IT CAN BE OBTAINED BY ADJUSTING THE MOTOR STROKE LIMITER). IF THE DESIRED ANGLE FALLS OUTSIDE THE RANGE SPECIFIED BY THE STANDARD MODEL, IT CAN ONLY BE OBTAINED BY CHANGING A SWASHPLATE LINK, AND THUS REQUIRES A NON-STANDARD MODEL.

CODE "Z" - CONTACT FACTORY OR DISTRIBUTOR (SERIAL NUMBER) FOR DETAILED SPECIAL PART INFORMATION

#### 21 - 27 SERIES NON-STANDARD VARIABLE MOTOR LETTER DESIGNATION



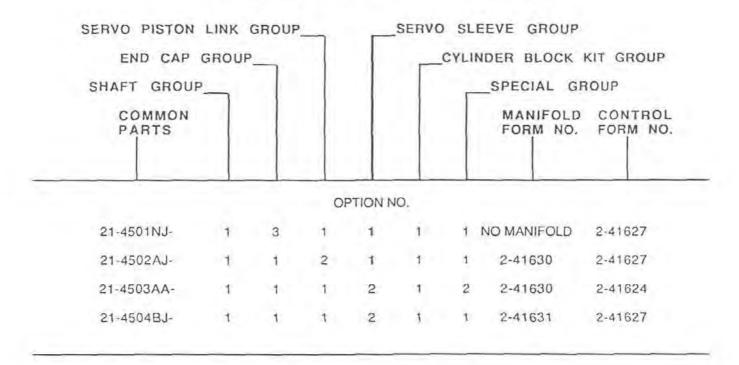
MISCELLANEOUS 6. CONTROL\* 1. 7. "A" PORT HIGH PRESSURE RELIEF\* 2. MISCELLANEOUS END CAP MANIFOLD ORIFICE\* 3. 8. SHAFT 9. CHARGE PRESSURE RELIEF SETTING\* 4. 5. 10. "B" PORT HIGH PRESSURE RELIEF" MANIFOLD\*

TABLE II

CODE	MISCELLANEOUS	MISCELLANEOUS	END CAP	SHAFT
A B C	.070 MANIFOLD ORIFICE .0  WELDED/BI-METAL	36 CONTROL ORIFICE	1" - 3000 1" - 6000 1-1/2"-6000	13 T. 13T.TAPERED RT 14 T. 19 T.
E F G H	WELDED/BI-METAL		1-1/2 -6000	20 T. TAPPED 21 T. 23 T. TAPPED 23 T. SPC L
J K L M	NO SHUTTLE			27 T. TAPPED STR KEY TAPPED TAPERED 15 T.
N P R X	NO CHANGE	NO CHANGE	NOT DRILLED  NO CHANGE	40 T. 21 T. TAPPED 13 T. 7" L NO CHANGE
Z	SPECIAL	SPECIAL	SPECIAL	SPECIAL

<sup>\*</sup> REFER TO TABLE 1 FOR CODE LETTER

# MODEL TO GROUP CROSS REFERENCE FOR ALL 21 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623



### FOR ALL 21 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

PART			QTY/
REF	PART NUMBER	DESCRIPTION	MODEL
0	AS 19	ASSEMBLY SPECIFICATIONS	0
Ó	AS7	ASSEMBLY SPECIFICATIONS	0
0	TS 322	TEST SPECIFICATIONS	Ö
7	9004800-3110	PIN	1
8	9004800-3708	PIN	2
9	9210204	END CAP GASKET	1
10	9210295	VARIABLE HOUSING	4
11	* 9004100-2280	ORING	2
12	9210293	THRUST PLATE	1
13	9510254	TRUNNION BEARING KIT	2
14	9004800-3708	PIN	2 2
15	9210279	VARIABLE SWASHPLATE	1
21	9510251	FRONT BEARING KIT	1
26	9210200	FRONT COVER	1
29	* 9210201	FRONT COVER GASKET	4
30	9510422-0002	TRUNNION SHIM KIT	1
31	9210018	TRUNNION	2
77.75		VALVE PLATE	2
34	9210480		
36	9510253	BEAR BEARING KIT	1
38	9803390	CONTROL SCREEN FILTER	1
41	9006326-0025	RETAINING RING	1
42	99802396	FEEDBACK LINK PIN	1
43	9802016	FEEDBACK LINK	1
44	9007600-1103	DRIVE SCREW	2 6
47	9009610-3459	WASHER	6
49	9007200-3736	SCREW HEX HD	5 3
50	9007200-3728	SCREW HEX HD	3
51	9009610-4069	WASHER PLN	9
52	9007276-0011	SCREW TORX	4
53	9200087	RETAINERSLEEVE	2
55	9800999	LIFTING BRACKET	1
56	9800999	LIFTING BRACKET	1
60	9004100-1390	ORING	2
62	* 9004100-1360	ORING	2
68		RETAINING RING	8
	9006300-0050		4
69	9004830-0012	PIN	
70	9009610-4069	WASHER	3
71	9007200-3722	SCREW	2
77	9005001-1200	PIPE PLUG	1
78	9005100-4400	PLUG	4
79	9005100-8700	PLUG	1
80	* 9004100-0140	ORING	1
91	9007200-3112	SCREW	6

### FOR ALL 21 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

PART			OTY/
REF	PART NUMBER	DESCRIPTION	MODEL
106	9200488	SERVO PISTON	2
107	9210620	SERVO PISTON LINK	1
109	9007575-0012	SCREW 12PT CAP	1
110	9009610-2850	WASHER	1
126	9510423-0002	SHIM KIT	1
B2	9210308	PILOT RING	1
B3	9006250-0212	RETAINING RING	1
B4	9210014	SPRING RETAINER	1
B5	9210015	SPRING GUIDE	1
B6	9220011	CYL BLK SPRING	. 7
B7	9210013	SPRING SEAT	1
B8	9200228	PIN	1
B9	9210576	CYLINDER BLOCK	1
B10	9210577	SLIPPER RETAINER GUIDE SPRING	6
B11	9210219	SLIPPER RETAINER GUIDE	1
B12	9210292	SLIPPER RETAINER	1
C	9510189	SHAFT SEAL KIT	1
C1	9510022	SEAL KIT	1
C2	* 9004104-1290	ORING	2
C3	9220242	SPRING	6
C4	* 9004100-2340	O RING	1
C5	9510441	SEAL RETAINER	1
C6	9006201-0334	RETAINING RING	1

NOTE: THE ASTERISK \* PRECEDING THE PART NUMBER DENOTES THAT PART IS ALSO AVAILABLE IN A SEAL/GASKET OVERHAUL KIT PART NUMBER 9510229

### FOR ALL 21 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

OPTION	PART	>>>>> SHAFT		QTY/
NO.	REF	PART NUMBER	DESCRIPTION	MODEL
1	23	9210467	'C' SPLINE 14T	1
2	23	9210205	'F' SPLINE 21T	1
3	23 98	9210538 9003261-3132	'K' KEYED	1
4	23 98 4	9210428 9003310-3724 9700169	'L' TAPERED KEY SLOTTED NUT	1 1
		>>>>> END CAP	GROUP <<<<<<	
OPTION _NO_	PART REF	PART NUMBER	DESCRIPTION	QTY/ MODEL
1	30	9210490	'A' 1"-3000 PSI	1
2	30	9210442	'A' 1"-6000 PSI	1
3	30	9210510	'A' 1"-3000 PSI (NON-DRILLED)	4
	>>>	>>>> SERVO PISTON	N LINK GROUP <<<<<<	
OPTION NO.	PART REF	PART NUMBER	DESCRIPTION	QTY/ MODEL
1	108	9210715	6.5 DEG	1
2	108	9210716	0.0 DEG	4

### FOR ALL 21 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

OPTION NO.	PART REF	PART NUMBER	DESCRIPTION	QTY/ MODEL
1	61 132	9200528 9200528	SERVO SLEEVE (STANDARD) SERVO SLEEVE (STANDARD)	1
2	61 132 D D1 D2 D3 D4 D5 D6	9200528 9200529 9200515 9006375-0029 9004104-1110 9004100-0210 9200595 9200512 9003561-5600 9200617	SERVO SLEEVE (STANDARD) SERVO SLEEVE (STROKE LIMI STROKE LIMITER KIT EXTERNAL RETAINING RING O RING O RING LIMITER HOUSING LIMITER ROD NUT LIMITER COVER	TER) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
OPTION NO.	PART REF	>>>>> CYLINDER BLO PART NUMBER	CK KIT GROUP <<<<<<	OTY/ MODEL
OPTION NO.	PART			
NO.	PART BEF B B1	PART NUMBER 9210574 9210337	DESCRIPTION  CYLINDER BLOCK KIT BEARING PLATE - BRASS	MODEL 1
NO.	PART BEF B B1 B13 B	PART NUMBER  9210574 9210337 9210553  9210696 9210658 9210695	DESCRIPTION  CYLINDER BLOCK KIT BEARING PLATE - BRASS PISTON - FILLED  CYLINDER BLOCK KIT BEARING PLATE - BI-METAL	MODEL 1 1 9
NO.	PART BEF B B1 B13 B	PART NUMBER  9210574 9210337 9210553  9210696 9210658 9210695	DESCRIPTION  CYLINDER BLOCK KIT BEARING PLATE - BRASS PISTON - FILLED  CYLINDER BLOCK KIT BEARING PLATE - BI-METAL PISTON - WELDED	MODEL 1 1 9
NO.  1  2  OPTION	PART REF B B1 B13 B B1 B13	PART NUMBER  9210574 9210337 9210553  9210696 9210658 9210695  >>>>>> SPECIAL	DESCRIPTION  CYLINDER BLOCK KIT BEARING PLATE - BRASS PISTON - FILLED  CYLINDER BLOCK KIT BEARING PLATE - BI-METAL PISTON - WELDED	MODEL  1 1 9 1 1 9 0 TY/

# MODEL TO GROUP CROSS REFERENCE FOR ALL 22 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

SHAFT GROUP COMMON PARTS						CYLII	SPECIAL GF MANIFOLD FORM NO.	CONTROL
			OI	PTION	10.	-1-		
22-4501NJ-	3	3	1	1	1	ì	NO MANIFOLD	2-41627
22-4502NJ-	1	3	3	1	1	1	NO MANIFOLD	2-41627
22-4503NJ-	1	3	2	1	1	1	NO MANIFOLD	2-41627
22-4504AA-	1	1	1	2	1	2	2-41630	2-41624
22-4504AJ-	1	1	à	2	1	1	2-41630	2-41627
ar veres	1	2	1	2	2	1	2-41630	2-41627
22-4505AJ-								

### FOR ALL 22 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

PART		A 00.77 To 1	QTY/
REF	PART NUMBER	DESCRIPTION	MODEL
0	AS 19	ASSEMBLY SPECIFICATIONS	0
0	AS 7	ASSEMBLY SPECIFICATIONS	0
0	TS 322	TEST SPECIFICATIONS	0
7	9004800-3110	PIN	1
8	9004800-3708	PIN	2
9	9221337	END CAP GASKET	1
10	9221250	VARIABLE HOUSING	1
11	9004100-2300	O RING	2
12	9220626	THRUST PLATE	1
13	9510257	TRUNNION BEARING KIT	2 1 2 2
14	9004800-3708	PIN	2
15	9220570	VARIABLE SWASHPLATE	
21 26	9510256	FRONT BEARING KIT FRONT COVER	1
29	9220418 * 9221213	FRONT COVER GASKET	1
30	9510422-0003	TRUNNION SHIM KIT	1
31	9220018	TRUNNION	1
34	9220992	VALVE PLATE	2
36	9510255	REAR BEARING KIT	1
38	9803390	CONTROL SCREEN FILTER	1
41	9006326-0025	EXTERNAL RETAINING RING	1
42	9802396	FEEDBACK LINK PIN	1
43	9802016	FEEDBACK LINK	
44	9007600-1103	DRIVE SCREW	1 2 6 5 3
47	9009610-4069	WASHER	6
49	9007200-3736	SCREW	5
50	9007200-3728	SCREW	3
51	9009610-4069	WASHER	9
52	9007276-0011	TORX SCREW	4
53	9220419	SERVO SLEEVE RETAINER	2
55	9800999	LIFTING BRACKET	1
56	9800999	LIFTING BRACKET	1
60	9004100-1440	ORING	2 2
62	9004100-1420	ORING	2
68	9006300-0062	RETAINING RING	8
69	9004830-0010	PIN	4
70	9009610-4069	WASHER	13
71	9007200-3722	SCREW	12
77	9005001-1200	PIPE PLUG	1
78	9005100-4400	PLUG	1
79	9005100-8700	PLUG	1
80	9004100-0140	O RING	1
91	9007200-3712	SCREW	6

### FOR ALL 22 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

PART	PART NUMBER	DESCRIPTION	QTY/ MODEL
304	4000000		1
106	9221012	SERVO PISTON	2
107	9221367	SERVO PISTON LINK	1
109	9007276-0049	SCREW	1
110	9009610-2850	WASHER	1
126	9510423-0003	SHIM KIT	1
B1	9221335	BEARING PLATE (BI-METAL)	1
B2	9220633	PILOT RING	1
B3	9006250-0231	RETAINING RING	1
B4	9220043	SPRING RETAINER	1
B5	9220015	SPRING GUIDE	1
86	9230627	CYL BLK SPRING	1
B7	9220042	SPRING SEAT	1
B8	9240217	PIN	1
B9	9221102	CYLINDER BLOCK	1
B10	9221105	SLIPPER RETAINER GUIDE SPRING	6
B11	9220500	SLIPPER RETAINER GUIDE	1
B12	9220628	SLIPPER RETAINER	1
B13	9510408-0001	. PISTON KIT (WELDED)	3
C	9510189	SHAFT SEAL KIT	1
C1	9510022	SEAL KIT	1
C2	9004104-1290	ORING	2
C3	9220242	SPRING	6
C4	* 9004100-2340	ORING	1
C5	9510441	SEAL RETAINER	1
C6	9006201-0334	RETAINING RING	1

NOTE: THE ASTERISK \* PRECEDING THE PART NUMBER DENOTES THAT PART IS ALSO AVAILABLE IN A SEAL/GASKET OVERHAUL KIT PART NUMBER 9510232

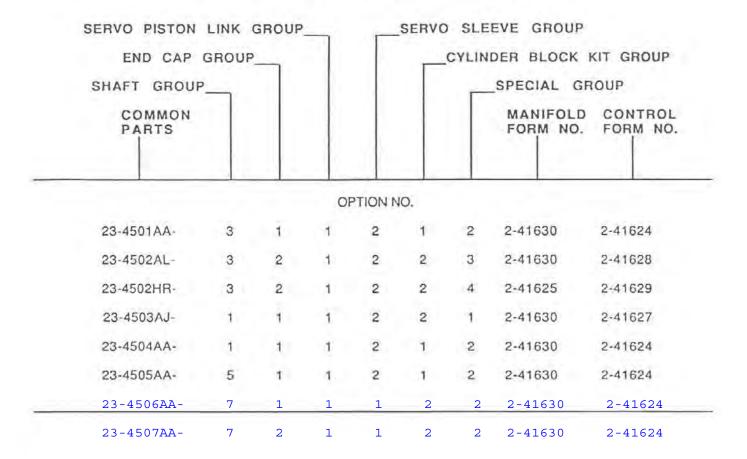
### FOR ALL 22 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

OPTION NO.	PART	PART NUMBER	DESCRIPTION	QTY/ MODEL
1	23	9220944	'C' SPLINE 14T	1
2	23	9220515	'D' SPLINE 19T	1
3	23	9220527	'E' SPLINE 20T TAPPED	1
4	23	9220417	'F' SPLINE 21T	1
5	23 98	9221065 9003261-3132	'K' KEYED KEY	1
6	23 98 4	9220884 9003310-3724 9700169	'L' TAPERED KEY SLOTTED NUT	1 1
		>>>>> END CAP	GROUP <<<<<<	
OPTION NO.	PART	PART NUMBER	DESCRIPTION	QTY/ MODEL
1	30	9220998	'A' 1"-3000 PSI	1
2	30	9220999	'A' 1"-6000 PSI	1
3	30	9221037	'A' 1"-3000 PSI (NON-DRILLED)	1
	>>>	>>>> SERVO PISTON	LINK GROUP <<<<<<	
OPTION NO.	PART REF	PART NUMBER	DESCRIPTION	OTY/ MODEL
1	108	9221507	6.5 DEG	1
2	108	9221508	0.0 DEG	1

### FOR ALL 22 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

		>>>>>> SERVO SLEE	VE GROUP <<<<<<	
NO.	PART REF	PART NUMBER	DESCRIPTION	QTY/ MODEL
1	61 132	9221149 9221149	SERVO SLEEVE (STANDARD) SERVO SLEEVE (STANDARD)	1
2	61 132 123 D D1 D2 D3 D4 D5 D6 D7	9221149 9221153 9221512 9510677-22 9006371-5000 9004104-1130 9004201-7500 9221431 9221510 9003561-7500 9221512	SERVO SLEEVE (STANDARD) SERVO SLEEVE (STROKE LIMITE LIMITER COVER STROKE LIMITER KIT EXTERNAL RETAINING RING O RING O RING LIMITER HOUSING LIMITER ROD NUT LIMITER COVER	1 1 1 1 1 1 1 1
	>>	>>>>> CYLINDER BLOC	K KIT GROUP <<<<<<	
OPTION NO.	PART REE	PART NUMBER	DESCRIPTION	QTY/ MODEL
		9221444	CYLINDER BLOCK KIT W/FILLED	1
1	В	9221444	OTEMBET BESON WITH WITHELES	4
1 2	В	9221448	CYLINDER BLOCK KIT W/WELDER	
			CYLINDER BLOCK KIT W/WELDED	
		9221448	CYLINDER BLOCK KIT W/WELDED	OTY/
2 OPTION	B	9221448 >>>>> SPECIAL	CYLINDER BLOCK KIT WWELDER GROUP <<<<<<	) 1

# MODEL TO GROUP CROSS REFERENCE FOR ALL 23 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623



### FOR ALL 23 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

PART			QTY/	
REF	PART NUMBER	DESCRIPTION	MODEL	
	2 W 12			
0	AS 19	ASSEMBLY SPECIFICATIONS	0	
0	AS 7	ASSEMBLY SPECIFICATIONS	0	
0	TS 322	TEST SPECIFICATIONS	0	
7	9004800-3110	PIN	1	
8	9004800-3708	PIN	2	
9	9230127	END CAP GASKET	1	
10	9230783	VARIABLE HOUSING	1	
11	* 9004100-2320	ORING	2	
12	9230235	THRUST PLATE	1	
13	9510639	TRUNNION BEARING KIT	2 2	
14	9004800-3708	PIN	2	
15	9230992	VARIABLE SWASHPLATE	1	
21	9510259	FRONT BEARING KIT	4	
26	9230128	FRONT COVER	19	
29	9230124	FRONT COVER GASKET	4	
30	9510422-0004	TRUNNION SHIM KIT	4	
31	9240643	TRUNNION	2	
34	9230562	VALVE PLATE	1	
			13	
36	9510258	REAR BEARING KIT	1	
38	9803390	CONTROL SCREEN FILTER	- 2	
41	9006326-0025	EXTERNAL RETAINING RING	3	
42	9802396	FEEDBACK LINK PIN	1	
43	9800906	FEEDBACK LINK	1 2 6	
44	9007600-1103	DRIVE SCREW	2	
47	9009610-4778	WASHER		
49	9007200-4438	SCREW	4	
50	9007200-4430	SCREW	4	
51	9009610-4778	WASHER	9	
52	9007276-0011	TORX SCREW	4	
53	9220419	SERVO SLEEVE RETAINER	2	
55	9801000	LIFTING BRACKET	1	
56	9801000	LIFTING BRACKET	1	
60	* 9004100-1440	ORING	2 2	
62	9004100-1420	O RING	2	
68	9006300-0062	RETAINING RING	8	
69	9004830-0010	PIN	4	
70	9009610-4778	WASHER	13	
71	9007200-4424	SCREW	8	
77	9005001-1200	PIPE PLUG	ĭ	
78 79	9005100-4400 9005100-8700	PLUG PLUG	1	
80	9004101-0140	O RING	1	
91	9007200-4416	SCREW	6	
93	9007200-4422	SCREW	4	

### FOR ALL 23 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

PART	San	DESCRIPTION	QTY/
HEE	PART NUMBER	DESCRIPTION	MODE
106	9221012	SERVO PISTON	2
107	9230787	SERVO PISTON LINK	- 1
109	9007276-0049	SCREW	1
110	9009610-2850	WASHER	1
126	9510423-0004	SHIM KIT	1
B1	9230881	PLATE BEARING	1
B2	9230707	BEARING PLATE PILOT RING	1
В3	9006250-0250	RETAINING RING	7
B4	9230014	SPRING RETAINER	1
B5	9230015	SPRING GUIDE	1
B6	9230974	CYLINDER BLOCK SPRING	1
B7	9230013	SPRING SEAT	1
B8	9240217	PIN	1
B9	9230651	CYLINDER BLOCK	1
B10	9230655	SLIPPER RETAINER GUIDE SPRING	6
B11	9230158	SLIPPER RETAINER GUIDE	1
B12	9230234	SLIPPER RETAINER	1
B13	9510408-0002	PISTON KIT (WELDED)	3
C	9510190	SHAFT SEAL KIT	1
C1	9510021	SEAL KIT	1
C2	* 9004104-1360	ORING	2
C3	9220242	SPRING	8
C4	9004100-2380	ORING	1
C5	9510442	SEAL RETAINER	1
C6	9006201-0387	RETAINING RING	1

NOTE: THE ASTERISK \* PRECEDING THE PART NUMBER DENOTES THAT PART IS ALSO AVAILABLE IN A SEAL/GASKET OVERHAUL KIT PART NUMBER 9510235

### FOR ALL 23 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

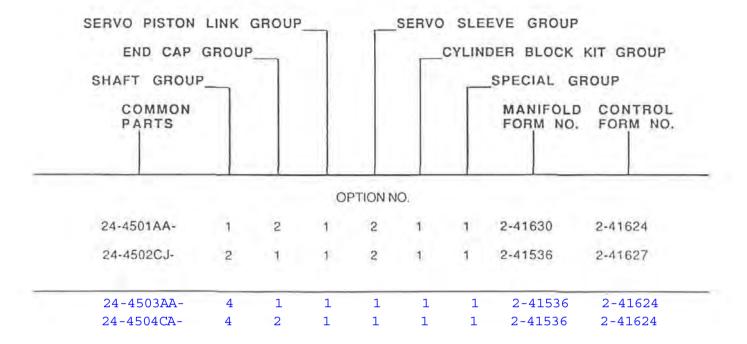
NO.	PART REE	PART NUMBER	DESCRIPTION	QTY/ MODEL
1	23	9230476	'C' SPLINE 14T	1
2	23	9230194	'D' SPLINE 19T	1
3	23	9230325	'F' SPLINE 21T	. 1
4	23	9230173	'G' SPLINE 23T TAPPED	1
5	23	9230739	'H' SPLINE 23T SPCL LENGTH	1
6	23	9230147	'J' SPLINE 27T	1
7	23 98	9230626 9003261-3732	'K' KEYED	1
8	23 98 4	9230445 9003310-3724 9700169	'L' TAPERED KEY SLOTTED NUT	1 1
		>>>>> END CAP	GROUP <<<<<<	
NO.	PART REE	PART NUMBER	DESCRIPTION	QTY/ MODEL
1	30	9230566	'A' 1"-3000 PSI	1
2	30	9230576	'A' 1"-6000 PSI	1
3	30	9230575	'A' 1"-3000 PSI (NON-DRILLED)	1
	>>>	>>>> SERVO PISTON	LINK GROUP <	
PTION _NO_	PART REE	-PART-NUMBER	-DESCRIPTION	OTY/ MODEL
1	108	9231079	7.0 DEG	1

### FOR ALL 23 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

		>>>>>> SERVO SLEE	VE GROUP <<<<<<	
OPTION NO.	PART REF	PART NUMBER	DESCRIPTION	QTY/ MODEL
1	61 132	9221149 9221149	SERVO SLEEVE (STANDARD) SERVO SLEEVE (STANDARD)	1
2	61 132 123 D D1 D2 D3 D4 D5 D6	9221149 9221153 9221512 9510677-22 9006371-5000 9004104-1130 9004201-7500 9221431 9221510 9003561-7500 9221512	SERVO SLEEVE (STANDARD) SERVO SLEEVE (STROKE LIMITE LIMITER COVER STROKE LIMITER KIT EXTERNAL RETAINING RING O RING O RING LIMITER HOUSING LIMITER ROD NUT LIMITER COVER	ER) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
OPTION	PART REF	PART NUMBER	DESCRIPTION	QTY/ MODEL
	-	A		
1	В	9230941	CYLINDER BLOCK KIT W/FILLED	1
1 2	В	9230941 9230973	CYLINDER BLOCK KIT W/FILLED  CYLINDER BLOCK KIT W/WELDER	
			CYLINDER BLOCK KIT W/WELDER	
2		9230973	CYLINDER BLOCK KIT W/WELDER	
2 OPTION	B	9230973 >>>>>> SPECIAL	CYLINDER BLOCK KIT W/WELDER GROUP <<<<<<	QTY/
2 OPTION NO.	PART REE	9230973  >>>>> SPECIAL  PART NUMBER	GROUP <<<<<<<  DESCRIPTION	QTY/ MODEL
2 OPTION _NO. 1	PART REE	9230973  >>>>>> SPECIAL  PART NUMBER  NONE	GROUP <<<<<<  DESCRIPTION  CONTROL ORIFICE	QTY/ MODEL NONE

### MODEL TO GROUP CROSS REFERENCE

## FOR ALL 24 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623



### FOR ALL 24 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

PART	PART NUMBER	DESCRIPTION	OTY/ MODEL
0	AS 19	ASSEMBLY SPECIFICATIONS	0
0	AS 7	ASSEMBLY SPECIFICATIONS	0
0	TS 322	TEST SPECIFICATIONS	0
7	9004800-3110	PIN	1
8	9004800-3708	PIN	2
9	9240549	END CAP GASKET	1
10	9240461	VARIABLE HOUSING	1
11	9004100-2340	ORING	2
12	9240124	THRUST PLATE	1
13	9510262	TRUNNION BEARING KIT	2 2
14	9004800-3708	PIN	2
15	9240197	VARIABLE SWASHPLATE	1
21	9510259	FRONT BEARING KIT	1
26	9240069	FRONT COVER	1
29	9240427	FRONT COVER GASKET	1
30	9510422-0005	TRUNNION SHIM KIT	1
31	9240018	TRUNNION	2
34	9240279	VALVE PLATE	1
36	9510261	REAR BEARING KIT	1
38	9803390	CONTROL SCREEN FILTER	1
41	9006326-0025	RETAINING RING	1
42	9802396	FEEDBACK LINK PIN	1
43	9800245	FEEDBACK LINK	1
44	9007600-1103	DRIVE SCREW	2
47	9009610-5387	WASHER	6
49	9007200-5042	SCREW	6
50	9007500-5044	SCREW 12PTHD	7
51	9009610-5387	WASHER	7
52	9007276-0011	TORX SCREW	4
53	9240076	SERVO SLEEVE RETAINER	2
55	9801000	LIFTING BRACKET	7
56	9801000	LIFTING BRACKET	- 3
60	* 9004100-1510	ORING	1
62	9004100-1500	ORING	1
68	9006300-0075	RETAINING RING	8
69	9004830-0008	PIN	4
70	9009610-5387	WASHER	13
71	9007200-5026	SCREW	12
77	9005001-1200	PIPE PLUG	1
78	9005100-4400	PLUG	4
79	9005100-8700	PLUG	1
80	* 9004101-0140	ORING	1
91	9007200-5022	SCREW	6

### FOR ALL 24 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

PART			QTY/
REE	PART NUMBER	DESCRIPTION	MODEL
		Dec prod/seutroperse	
106	9240297	SERVO PISTON	2
107	9240584	SERVO PISTON LINK	1
109	9007276-0050	SCREW	1
110	9009610-3459	WASHER	1
126	9510423-0005	SHIM KIT	- 1
B1	9240560	BEARING PLATE	1
B2	9240135	BEARING PLATE PILOT RING	1
B3	9006250-0275	RETAINING RING	1
B4	9240014	SPRING RETAINER	1
B5	9240015	SPRING GUIDE	1
B6	9240518	CYLINDER BLOCK SPRING	1
B7	9240013	SPRING SEAT	1
88	9240217	PIN	1
B9	9240394	CYLINDER BLOCK	1
B10	9240393	SLIPPER RETAINER GUIDE SPRING	6
B11	9240097	SLIPPER RETAINER GUIDE	1
B12	9240125	SLIPPER RETAINER	1
B13	9510408-0004	PISTON KIT (WELDED)	3
C	9510190	SHAFT SEAL KIT	1
C1	9510021	SEAL KIT	1
C2	* 9004104-1360	O RING	2
C3	9220242	SPRING	8
C4	* 9004100-2380	O RING	1
C5	9510442	SEAL RETAINER	1
C6	9006201-0387	RETAINING RING	1

NOTE: THE ASTERISK \* PRECEDING THE PART NUMBER DENOTES THAT PART IS ALSO AVAILABLE IN A SEAL/GASKET OVERHAUL KIT PART NUMBER 9510238

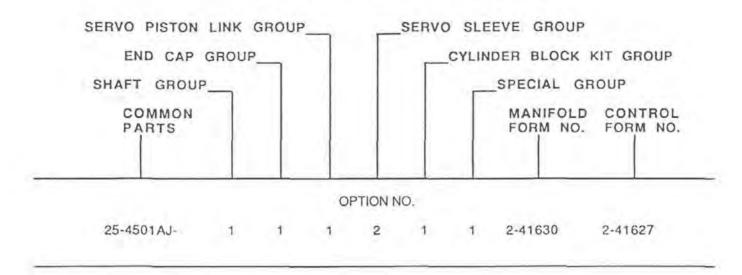
### FOR ALL 24 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

OPTION	PART	>>>>> SHAFT	GROUP <<<<<<	QTY/
NO.	REF	PART NUMBER	DESCRIPTION	MODEL
1	23	9240215	'A' SPLINE 13T	1
2	23	9240153	'J' SPLINE 27T	1
3	23 98	9240316 9003261-3732	KEY KEYED	1 1
4	23 98 4	9240231 9003326-0005 9700189	'L' TAPERED KEY SLOTTED NUT	1 1 1
		>>>>> END CAF	GROUP <<<<<<	
NO.	PART REF	PART NUMBER	DESCRIPTION	OTY/ MODEL
1	30	9240284	'A' 1"-3000 PSI	1
2	30	9240294	'A' 1"-6000 PSI	1
	>>>	>>>> SERVO PISTON	N LINK GROUP <	
NOIT9C	PART	PART NUMBER	DESCRIPTION	QTY/ MODEL
1 2	108 108	92 <b>40720</b> 9240508	7.0 DEG 9.0 DEG	1

### FOR ALL 24 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

NO.	PART REF	PART NUMBER	DESCRIPTION	MODEL
1	61 132	9240356 9240356	SERVO SLEEVE (STANDARD) SERVO SLEEVE (STANDARD)	
2	61 132 D D1 D2 D3 D4 D5	9240356 9240358 9510677-24 9006371-5000 9004104-1140 9004201-7500 9240627 9240721	SERVO SLEEVE (STANDARD) SERVO SLEEVE (STROKE LIM STROKE LIMITER KIT EXTERNAL RETAINING RING O RING O RING LIMITER HOUSING LIMITER ROD	
	D6 D7	9003561-7500 9240358	NUT SERVO SLEEVE (STROKE LIN	HTER) 1
	D7	9240358		HTER) 1
OPTION NO.	D7	9240358	SERVO SLEEVE (STROKE LIN	QTY/ MODEL
	D7	9240358 >>>>> CYLINDER BLO	SERVO SLEEVE (STROKE LIN	QTY/
NO.	D7 >> PART REF	9240358  >>>>> CYLINDER BLO  PART NUMBER  9240641	SERVO SLEEVE (STROKE LIN  CK KIT GROUP <<<<<<   DESCRIPTION	QTY/
NO.	D7 >> PART REF	9240358  >>>>> CYLINDER BLO  PART NUMBER  9240641	SERVO SLEEVE (STROKE LIN  CK KIT GROUP <<<<<<   DESCRIPTION  CYLINDER BLOCK KIT	QTY/
NO.  1  OPTION	PART BEE B	9240358  PART NUMBER  9240641  PART NUMBER  9240641	SERVO SLEEVE (STROKE LIN  CK KIT GROUP <<<<<<   DESCRIPTION  CYLINDER BLOCK KIT  GROUP <<<<<<	QTY/ MODEL 1

# MODEL TO GROUP CROSS REFERENCE FOR ALL 25 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623



### FOR ALL 25 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

PART	21221111122	DECORPTION.	QTY/
BEE	PART NUMBER	DESCRIPTION	MODE
0	AS 19	ASSEMBLY SPECIFICATIONS	0
0	AS 7	ASSEMBLY SPECIFICATIONS	0
0	TS 322	TEST SPECIFICATIONS	0
7	9004800-3110	PIN	1
8	9004810-5012	PIN	2
9	* 9250587	END CAP GASKET	1
10	9250524	VARIABLE HOUSING	1
11	* 9004100-2360	ORING	2
12	9250171	THRUST PLATE	2 1 2 2
13	9510265	TRUNNION BEARING KIT	2
		PIN	2
14	9004800-3110	VARIABLE SWASHPLATE	1
15	9250164		4
21	9510264	FRONT BEARING KIT	1
26	9250156	FRONT COVER	1
29	9250158	FRONT COVER GASKET	1.
30	9510422-0006	TRUNNION SHIM KIT	1
31	9250018	TRUNNION	2
34	9250629	VALVE PLATE	3
36	9510263	REAR BEARING KIT	1
38	9803390	CONTROL SCREEN FILTER	1
41	9006326-0025	RETAINING RING	1
42	9802396	FEEDBACK LINK PIN	1
43	9802754	FEEDBACK LINK	1
44	9007600-1103	DRIVE SCREW	2 6 6 2 9 4
47	9009610-6690	WASHER	6
49	9007200-6248	SCREW	6
50	9007200-6238	SCREW	2
51	9009610-6690	WASHER	9
52	9007276-0011	TORX SCREW	4
53	9240076	SERVO SLEEVE RETAINER	2
55	9801001	BRACKET LIFTING	1
56	9801000	BRACKET LIFTING	1
60	* 9004100-1510	ORING	2
62	* 9004100-1500	O RING	2 2
68	9006300-0075	RETAINING RING	8
		PIN	4
69	9004830-0008	WASHER	13
70	9009610-5387	2.55 / 400 / 200 /	12
71	9007200-5026	SCREW	
77	-9005001-1200	PIPE PLUG	1
78	9005100-4400	PLUG	2
79	9005100-9200	PLUG	1
80	9004101-0140	O RING	1
91	9007200-6221	SCREW HEX HD	6

### FOR ALL 25 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

PART	PART NUMBER	DESCRIPTION	QTY/ MODEL
DEL	TANT NOMBELL	DESCRIPTION	MODEL
106	9240297	SERVO PISTON	2
107	9250617	SERVO PISTON LINK	1
109	9007276-0054	SCREW HEX HD	1
110	9009610-3459	WASHER	1
126	9510423-0006	SHIM	1
152	9005100-5600	PLUG ST THD	1
B1	9250627	BEARING PLATE	1
B2	9250628	BEARING PLATE PILOT RING	1
В3	9006250-0314	RETAINING RING	1
B4	9250179	SPRING RETAINER	1
B5	9250015	SPRING GUIDE	1
B6	9250676	CYLINDER BLOCK SPRING	1
B7	9250013	SPRING SEAT	11
B8	9240217	PIN	1
B9	9250470	CYLINDER BLOCK	1
B10	9250471	SLIPPER RETAINER GUIDE SPRING	6
B11	9250073	SLIPPER RETAINER GUIDE	1
B12	9250170	SLIPPER RETAINER	1
B13	9510408-0005	PISTON KIT (WELDED)	3
C	9510190	SHAFT SEAL KIT	1
C1	9510021	SEAL KIT	1
C2	* 9004104-1360	ORING	2
C3	9220242	SPRING	8
C4	* 9004100-2380	ORING	1
C5	9510442	SEAL RETAINER	1
C6	9006201-0387	RETAINING RING	1

NOTE: THE ASTERISK \* PRECEDING THE PART NUMBER DENOTES THAT PART IS ALSO AVAILABLE IN A SEAL/GASKET OVERHAUL KIT PART NUMBER 9510251
9510241

### FOR ALL 25 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

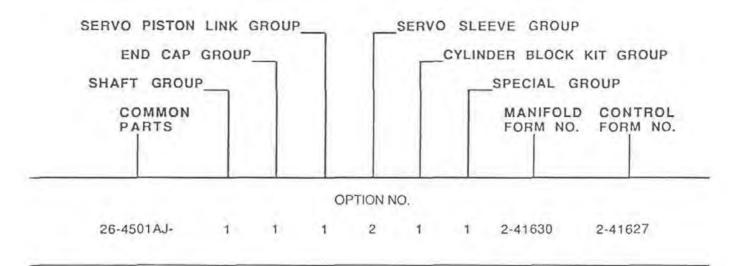
PTION	PART	>>>>> SHAFT	GROUP <<<<<<	QTY/
NO.	REF	PART NUMBER	DESCRIPTION	MODEL
1	23	9250327	'A' SPLINE 13T	1
2	23	9250272	'J' SPLINE 27T	1-
3	23 98	9250409 9003261-3732	KEY K KEYED	1
		>>>>> END CAI	P GROUP <<<<<<	
PTION NO.	PART REE	PART NUMBER	DESCRIPTION	QTY/ MODEL
1	30	9250373	'A' 1-1/2" - 3000 PSI	1
	>>>	>>>> SERVO PISTOR	N LINK GROUP <<<<<<	
NO.	PART REF	PART NUMBER	DESCRIPTION	QTY/ MODEL
1	108	9250498	7.0 DEG	1

#### OPTIONS

### FOR ALL 25 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

		>>>>>> SERVO SLEE	VE GROUP <<<<<<	
OPTION NO.	PART REE	PART NUMBER	DESCRIPTION	QTY/ MODEL
1	61 132	9240356 9240356	SERVO SLEEVE (STANDAR SERVO SLEEVE (STANDAR	
2	61 132 D D1 D2 D3 D4 D5 D6	9240356 9240358 9510677-24 9006371-5600 9004104-1140 9004201-7500 9240627 9240721 9003561-7500 9240726	SERVO SLEEVE (STANDAR SERVO SLEEVE (STROKE L STROKE LIMITER KIT EXTERNAL RETAINING RING O RING O RING LIMITER HOUSING LIMITER ROD NUT LIMITER COVER	IMITER) 1
	>>	>>>>> CYLINDER BLOC	CK KIT GROUP <<<<<<	
OPTION NO.	PART	PART NUMBER	DESCRIPTION	QTY/ MODEL
1	В	9250685	CYLINDER BLOCK KIT	1
		>>>>> SPECIAL	GROUP <<<<<<	
OPTION _NO.	PART REF	PART NUMBER	DESCRIPTION	QTY/ MODEL

# MODEL TO GROUP CROSS REFERENCE FOR ALL 26 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623



#### COMMON PARTS

### FOR ALL 26 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

PART REF	PART NUMBER	DESCRIPTION	QTY/ MODEL
Libel	TANT HOWOLT	PEOOINE TION	MODEL
0	AS 19	ASSEMBLY SPECIFICATIONS	0
0	AS 7	ASSEMBLY SPECIFICATIONS	0
0	TS 322	TEST SPECIFICATIONS	0
7	9004800-3110	PIN	1
8	9004810-5012	PIN	2
9	* 9260144	END CAP GASKET	1
10	9260280	VARIABLE HOUSING	1
11	* 9004100-2400	ORING	2
12	9260073	THRUST PLATE	1
13	9510268	TRUNNION BEARING KIT	2
14	9004810-5012	PIN	2
15	9260152	VARIABLE SWASHPLATE	1
21	9510267	FRONT BEARING KIT	1
26	9260138	FRONT COVER	1
29	* 9260145	FRONT COVER GASKET	1
30	9510422-0007	TRUNNION SHIM KIT	1
31	9260136	TRUNNION	2
34	9260357	VALVE PLATE	1
36	9510266	REAR BEARING KIT	1
38	9803390	CONTROL SCREEN FILTER	1
41	9006326-0025	RETAINING RING	1
42	9802396	FEEDBACK LINK PIN	1
43	9801232	FEEDBACK LINK	1
44	9007600-1103	DRIVE SCREW	2
47	9009610-6690	WASHER	6
49	9007200-7552	SCREW	8
51	9009610-8092	WASHER	9
52	9007276-0011	TORX SCREW	4
53	9270178	SERVO SLEEVE RETAINER	2
55	9801001	BRACKET LIFTING	1
56	9801000	BRACKET LIFTING	1
57	9005110-9500	PLUG	1
60	9004100-1560	ORING	2
62	9004100-2430	ORING	2
68	9006300-0087	RETAINING RING	8
69	9004830-0009	PIN	4
70	9009610-5387	WASHER	15
71	9007200-5026	SCREW	14
77	9005001-1200	PIPE PLUG	1
78	9005100-4400	PLUG	1
79	9005100-9700	PLUG	i
80	* 9004101-0140	ORING	1
91	9007200-6222	SCREW	6

#### COMMON PARTS

### FOR ALL 26 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

PART	delication	Carlo market	QTY/
REF	PART NUMBER	DESCRIPTION	MODEL
106	9270355	SERVO PISTON	2
107	9260252	SERVO PISTON LINK	1
109	9007276-0055	SCREW	1.
110	9009610-4069	WASHER	1
126	9510423-0007	SHIM KIT	1
B1	9260321	BEARING PLATE	1
B2	9260358	PILOT RING	1
В3	9006250-0343	RETAINING RING	1
B4	9260014	SPRING RETAINER	1
B5	9260015	SPRING GUIDE	1
B6	9260326	CYLINDER BLOCK SPRING	1
B7	9260013	SPRING SEAT	1
B8	9260088	PIN	1
B9	9260231	CYLINDER BLOCK	1
B10	9260232	SLIPPER RETAINER GUIDE SPRING	6
B11	9260047	SLIPPER RETAINER GUIDE	1
B12	9260072	SLIPPER RETAINER	1
B13	9510408-0006	PISTON KIT (WELDED)	3
C	9510275	SHAFT SEAL KIT	1
C2	* 9004104-1440	O RING	2
C3	9220242	SPRING	10
C4	* 9004100-2420	O RING	1
C5	9260050	SEAL RETAINER	1
C6	9006201-0433	RETAINING RING	4

NOTE: THE ASTERISK \* PRECEDING THE PART NUMBER DENOTES THAT PART IS ALSO AVAILABLE IN A SEAL/GASKET OVERHAUL KIT PART.NUMBER 9510318

#### OPTIONS

### FOR ALL 26 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

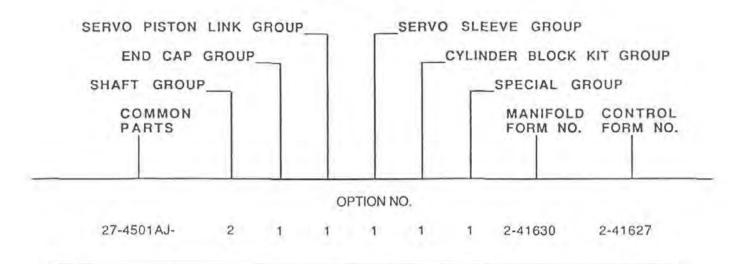
4	108	9260243	15.0 DEG	1
3	108	9260245	11.0 DEG	1
2	108	9260147	7.0 DEG	1
1	108	9260333	8.0 DEG	1
NO.	PART REF	PART NUMBER	DESCRIPTION	MODEL
	>>>	>>>> SERVO PISTO	N LINK GROUP <<<<<<	
Ť	30	9260146	1-1/2" - 3000 PSI	1
OPTION _NO.	PART REF	PART NUMBER	DESCRIPTION	OTY/ MODEL
		>>>>> END CA	P GROUP <<<<<<	
2	23 98	9260176 9003261-5040	KEY KEYED	1
1	23	9260140	'A' SPLINE 13T	1
NO.	PART	PART NUMBER	DESCRIPTION	QTY/ MODEL

#### OPTIONS

### FOR ALL 26 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

OPTION _NO	PART REF PART NUMBER		DESCRIPTION	QTY/ MODEL
1	61 57 132 D D1 D2 D3 D4 D5 D6	9270596 9005110-9500 9270596 9510677-26 9006371-6900 9004104-1160 9004201-9200 9260364 9260421 9003561-8700 9260422-0026	SERVO SLEEVE (STANDAR PLUG SERVO SLEEVE (STROKE L STROKE LIMITER KIT EXTERNAL RETAINING RING O RING O RING LIMITER HOUSING LIMITER ROD NUT LIMITER COVER	IMITER) 1
	>>	>>>>> CYLINDER BLO	CK KIT GROUP <<<<<<	
OPTION _NO_	PART REF	PART NUMBER		QTY/ MODEL
	PART		CK KIT GROUP <<<<<<	
NO.	PART REF	PART NUMBER 9260369	CK KIT GROUP <<<<<<  DESCRIPTION	MODEL
NO.	PART REF	PART NUMBER 9260369	CK KIT GROUP <<<<<<  DESCRIPTION  CYLINDER BLOCK KIT	MODEL

# MODEL TO GROUP CROSS REFERENCE FOR ALL 27 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623



### COMMON PARTS

### FOR ALL 27 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

0         AS 19         ASSEMBLY SPECIFICATIONS         0           0         TS 322         TEST SPECIFICATIONS         0           7         9004800-3110         PIN         1           8         9004810-5012         PIN         1           9         • 9270710         END CAP GASKET         1           10         9270586         VARIABLE HOUSING         1           11         • 9004100-2450         O RING         2           12         9270482         PLATE THRUST         1           13         9510271         TRUNNICN BEARING KIT         2           14         9004800-5012         PIN         2           15         9270462         VARIABLE SWASHPLATE         1           21         9510270         FRONT BEARING KIT         1           23         9270422         SHAFT         1           26         9270188         FRONT COVER         1           29         • 9270175         FRONT EOVER GASKET         1           31         9270018         TRUNNION SHIM KIT         1           34         9270555         VALVE PLATE         1           36         9510386         REAR BEARING KIT	PART REE	PART NUMBER	DESCRIPTION	OTY/ MODEL
0         AS 7         ASSEMBLY SPECIFICATIONS         0           0         TS 322         TEST SPECIFICATIONS         0           7         9004800-3110         PIN         1           8         9004810-5012         PIN         2           9         • 9270710         END CAP GASKET         1           10         9270586         VARIABLE HOUSING         1           11         • 9004100-2450         O RING         2           12         9270482         PLATE THRUST         1           13         9510271         TRUNNION BEARING KIT         2           14         9004800-5012         PIN         2           15         9270462         VARIABLE SWASHPLATE         1           21         9510270         FRONT BEARING KIT         1           23         9270422         SHAFT         1           26         9270188         FRONT COVER         1           29         • 9270175         FRONT COVER GASKET         1           30         9510422-0008         TRUNNION SHIM KIT         1           31         9270018         TRUNNION SHIM KIT         1           34         9270655         VALVE PLATE	0	AS 19	ASSEMBLY SPECIFICATIONS	0
0         TS 322         TEST SPECIFICATIONS         0           7         9004800-3110         PIN         1           8         9004810-5012         PIN         2           9         9270710         END CAP GASKET         1           10         9270586         VARIABLE HOUSING         1           11         9004100-2450         O RING         2           12         9270482         PLATE THRUST         1           13         9510271         TRUNNION BEARING KIT         2           14         9004800-5012         PIN         2           15         9270462         VARIABLE SWASHPLATE         1           21         9510270         FRONT BEARING KIT         1           23         9270422         SHAFT         1           26         9270188         FRONT COVER         1           29         9270175         FRONT COVER GASKET         1           30         9510422-0008         TRUNNION SHIM KIT         1           31         9270428         TRUNNION SHIM KIT         1           34         9270555         VALVE PLATE         1           36         9510386         REAR BEARING KIT				
7 9004800-5110 PIN 1 8 9004810-5012 PIN 2 9 *9270710 END CAP GASKET 1 10 9270586 VARIABLE HOUSING 1 11 *9004100-2450 ORING 2 12 9270482 PLATE THRUST 1 13 9510271 TRUNNION BEARING KIT 2 14 9004800-5012 PIN 2 15 9270462 VARIABLE SWASHPLATE 1 15 9270462 VARIABLE SWASHPLATE 1 23 9270422 SHAFT 1 26 9270188 FRONT COVER GASKET 1 26 9270188 FRONT COVER GASKET 1 30 9510422-0008 TRUNNION SHM KIT 1 31 9270018 TRUNNION SHM KIT 1 32 92704555 VALVE PLATE 1 36 9510386 REAR BEARING KIT 1 38 9803390 CONTROL SCREEN FILTER 1 41 9006326-0025 RETAINING RING 1 42 9802396 FEEDBACK LINK PIN 1 43 9800589 FEEDBACK LINK PIN 1 44 9007600-1103 DRIVE SCREW 2 47 9009650-6200 WASHER TOOTHLK 6 49 9007200-7552 SCREW 4 49 9007200-7555 SCREW 4 50 9007200-7555 SCREW 4 51 9009610-8092 WASHER TOOTHLK 6 50 9007200-7555 SCREW 4 51 9009610-8092 WASHER TOOTHLK 6 51 9009610-8092 WASHER TOOTHLK 6 52 9007276-0011 TORX SCREW 4 53 9270178 SERVO SLEEVE RETAINER 2 55 9801001 BRACKET LIFTING 1 56 9801000 BRACKET LIFTING 1 57 9005101-9500 PLUG 1 57 9005101-9500 PLUG 1 58 9005100-4400 PLUG 1 59 9005100-9700 PLUG 1 59 9005100-9700 PLUG 1 59 9005100-9700 PLUG 1				0
8 9004810-5012 PIN 2 9 9 9270710 END CAP GASKET 1 10 9270586 VARIABLE HOUSING 1 11 9004100-2450 ORING 2 12 9270482 PLATE THRUST 1 13 9510271 TRUNNION BEARING KIT 2 14 9004800-5012 PIN 2 15 9270482 VARIABLE SWASHPLATE 1 15 9270482 VARIABLE SWASHPLATE 1 16 9510270 FRONT BEARING KIT 1 23 9270422 SHAFT 1 26 9270188 FRONT COVER 6 129 9270188 FRONT COVER 6 129 9270175 FRONT COVER GASKET 1 130 9510422-0008 TRUNNION SHIM KIT 1 131 9270018 TRUNNION SHIM KIT 1 132 9270422 SHAFT 1 14 9270655 VALVE PLATE 1 15 9280655 VALVE PLATE 1 16 9510386 REAR BEARING KIT 1 17 9006326-0025 RETAINING RING 1 18 9803390 CONTROL SCREEN FILTER 1 19 906326-0025 RETAINING RING 1 14 9802396 FEEDBACK LINK PIN 1 14 9007600-1103 DRIVE SCREW 2 15 9007200-7552 SCREW 2 16 9007200-7556 SCREW 2 17 9009610-8092 WASHER TOOTHLK 6 18 9801001 BRACKET LIFTING 1 19 9007200-7556 SCREW 4 19 9007200-7556 SCREW 4 19 9007200-7556 SCREW 4 19 9007200-7556 SCREW 2 10 9007100-1560 ORING 2 10 9004100-1560 ORING 2 11 900630-00087 RETAINING RING 1 11 PLIG 1 12 9006300-00087 RETAINING RING 1 12 9005100-9500 PLUG 1 14 9007800-1100 PIPE PLUG 1 17 9005001-1200 PIPE PLUG 1 17 9005010-4400 PLUG 1 19 9005100-9700 PLUG 1 1			PIN	1
9 9270710 END CAP GASKET 1 10 9270586 VARIABLE HOUSING 1 11 9004100-2450 ORING 2 12 9270482 PLATE THRUST 1 13 9510271 TRUNNION BEARING KIT 2 14 9004800-5012 PIN 2 15 9270462 VARIABLE SWASHPLATE 1 15 9270462 VARIABLE SWASHPLATE 1 21 9510270 FRONT BEARING KIT 1 23 9270422 SHAFT 1 26 9270188 FRONT COVER 6ASKET 1 26 9270175 FRONT COVER 6ASKET 1 30 9510422-0008 TRUNNION SHIM KIT 1 31 9270018 TRUNNION 2 34 9270655 VALVE PLATE 1 36 9510386 REAR BEARING KIT 1 38 9803390 CONTROL SCREEN FILTER 1 41 9006326-0025 RETAINING RING 1 42 9802396 FEEDBACK LINK PIN 1 43 9800589 FEEDBACK LINK PIN 1 44 9007600-1103 DRIVE SCREW 2 47 9009650-6200 WASHER TOOTHLK 6 49 9007200-7552 SCREW 4 49 9007200-7552 SCREW 4 50 9007200-7555 SCREW 4 51 9009610-8092 WASHER TOOTHLK 5 50 9007200-7556 SCREW 2 51 9009610-8092 WASHER TOOTHLK 6 50 9007200-7556 SCREW 2 51 9009610-8092 WASHER TOOTHLK 6 50 9007200-7556 SCREW 2 51 9009610-8092 WASHER TOOTHLK 6 50 9007200-7556 SCREW 4 53 9270178 SERVO SLEEVE RETAINER 2 55 9801001 BRACKET LIFTING 1 56 9801000 BRACKET LIFTING 1 57 9005101-9500 PLUG 1 58 9004100-2430 ORING 2 59 9004100-2430 ORING 2 69 9004400-1500 PIUG 1 78 9005100-4400 PLUG 2 79 9005100-9700 PLUG 1				2
11			END CAP GASKET	1
12 9270482 PLATE THRUST 13 9510271 TRUNNION BEARING KIT 2 14 9004800-5012 PIN 2 15 9270462 VARIABLE SWASHPLATE 1 15 9510270 FRONT BEARING KIT 2 1 9510270 FRONT BEARING KIT 2 1 9510270 FRONT BEARING KIT 2 1 9510270 FRONT BEARING KIT 2 2 9270188 FRONT COVER 2 9 9270175 FRONT COVER GASKET 3 0 9510422-0008 TRUNNION SHIM KIT 3 1 9270018 TRUNNION 1 2 3 4 9270655 VALVE PLATE 3 6 9510386 REAR BEARING KIT 3 8 9803390 CONTROL SCREEN FILTER 4 1 9006326-0025 RETAINING RING 4 2 9802396 FEEDBACK LINK PIN 4 3 9800589 FEEDBACK LINK 1 1 4 9007600-1103 DRIVE SCREW 4 9007200-7552 SCREW 4 9007200-7555 SCREW 4 9007200-7556 SCREW 4 9007200-7556 SCREW 5 9007276-0011 TORX SCREW 5 9007276-0011 TORX SCREW 5 9007276-0011 TORX SCREW 5 9007276-0011 TORX SCREW 5 9005110-9500 PLUG 6 9004100-1560 ORING 6 9004100-1560 ORING 6 9004100-1560 ORING 6 900400-1560 ORING 6 9004100-1560 ORING 6 9004100-1560 ORING 6 9004100-2430 ORING 6 9004100-1560 ORING 6 9004100-1560 ORING 7 9005100-200 PIPE PLUG 7 9005010-4400 PIPE PLUG 7 9005010-4400 PLUG 7 9005100-4700 PLUG		9270586	VARIABLE HOUSING	1
12 9270482 PLATE THRUST 13 9510271 TRUNNION BEARING KIT 2 14 9004800-5012 PIN 2 15 9270462 VARIABLE SWASHPLATE 1 15 9510270 FRONT BEARING KIT 2 1 9510270 FRONT BEARING KIT 2 1 9510270 FRONT BEARING KIT 2 1 9510270 FRONT BEARING KIT 2 2 9270188 FRONT COVER 2 9 9270175 FRONT COVER GASKET 3 0 9510422-0008 TRUNNION SHIM KIT 3 1 9270018 TRUNNION 1 2 3 4 9270655 VALVE PLATE 3 6 9510386 REAR BEARING KIT 3 8 9803390 CONTROL SCREEN FILTER 4 1 9006326-0025 RETAINING RING 4 2 9802396 FEEDBACK LINK PIN 4 3 9800589 FEEDBACK LINK 1 1 4 9007600-1103 DRIVE SCREW 4 9007200-7552 SCREW 4 9007200-7555 SCREW 4 9007200-7556 SCREW 4 9007200-7556 SCREW 5 9007276-0011 TORX SCREW 5 9007276-0011 TORX SCREW 5 9007276-0011 TORX SCREW 5 9007276-0011 TORX SCREW 5 9005110-9500 PLUG 6 9004100-1560 ORING 6 9004100-1560 ORING 6 9004100-1560 ORING 6 900400-1560 ORING 6 9004100-1560 ORING 6 9004100-1560 ORING 6 9004100-2430 ORING 6 9004100-1560 ORING 6 9004100-1560 ORING 7 9005100-200 PIPE PLUG 7 9005010-4400 PIPE PLUG 7 9005010-4400 PLUG 7 9005100-4700 PLUG	11	* 9004100-2450	ORING	2
21 9510270 FRONT BEARING KIT 1 23 9270422 SHAFT 1 26 9270188 FRONT COVER 1 29 9270175 FRONT COVER GASKET 1 30 9510422-0008 TRUNNION SHIM KIT 1 31 9270018 TRUNNION 2 34 9270655 VALVE PLATE 1 36 9510386 REAR BEARING KIT 1 38 9803390 CONTROL SCREEN FILTER 1 41 9006326-0025 RETAINING RING 1 42 9802396 FEEDBACK LINK PIN 1 43 9800589 FEEDBACK LINK VIN 1 44 9007600-1103 DRIVE SCREW 2 47 9009650-6200 WASHER TOOTHLK 6 49 9007200-7556 SCREW 2 50 900720-7556 SCREW 4 50 9007200-7556 SCREW 2 51 9009610-8092 WASHER 9 52 9007276-0011 TORX SCREW 4 53 9270178 SERVO SLEEVE RETAINER 2 55 9801001 BRACKET LIFTING 1 56 9801000 BRACKET LIFTING 1 57 9005110-9500 PLUG 1 60 9004100-1560 O RING 2 62 9004100-2430 O RING 2 68 9006300-0087 RETAINING RING 8 69 9004830-0009 PIN 4 70 9009610-5387 WASHER 15 71 9007200-5026 SCREW 14 77 9005010-9700 PLUG 1	12	9270482	PLATE THRUST	1
21 9510270 FRONT BEARING KIT 1 23 9270422 SHAFT 1 26 9270188 FRONT COVER 1 29 9270175 FRONT COVER GASKET 1 30 9510422-0008 TRUNNION SHIM KIT 1 31 9270018 TRUNNION 2 34 9270655 VALVE PLATE 1 36 9510386 REAR BEARING KIT 1 38 9803390 CONTROL SCREEN FILTER 1 41 9006326-0025 RETAINING RING 1 42 9802396 FEEDBACK LINK PIN 1 43 9800589 FEEDBACK LINK VIN 1 44 9007600-1103 DRIVE SCREW 2 47 9009650-6200 WASHER TOOTHLK 6 49 9007200-7556 SCREW 2 50 900720-7556 SCREW 4 50 9007200-7556 SCREW 2 51 9009610-8092 WASHER 9 52 9007276-0011 TORX SCREW 4 53 9270178 SERVO SLEEVE RETAINER 2 55 9801001 BRACKET LIFTING 1 56 9801000 BRACKET LIFTING 1 57 9005110-9500 PLUG 1 60 9004100-1560 O RING 2 62 9004100-2430 O RING 2 68 9006300-0087 RETAINING RING 8 69 9004830-0009 PIN 4 70 9009610-5387 WASHER 15 71 9007200-5026 SCREW 14 77 9005010-9700 PLUG 1	13	9510271	TRUNNION BEARING KIT	2
21 9510270 FRONT BEARING KIT 1 23 9270422 SHAFT 1 26 9270188 FRONT COVER 1 29 9270175 FRONT COVER GASKET 1 30 9510422-0008 TRUNNION SHIM KIT 1 31 9270018 TRUNNION 2 34 9270655 VALVE PLATE 1 36 9510386 REAR BEARING KIT 1 38 9803390 CONTROL SCREEN FILTER 1 41 9006326-0025 RETAINING RING 1 42 9802396 FEEDBACK LINK PIN 1 43 9800589 FEEDBACK LINK VIN 1 44 9007600-1103 DRIVE SCREW 2 47 9009650-6200 WASHER TOOTHLK 6 49 9007200-7556 SCREW 2 50 900720-7556 SCREW 4 50 9007200-7556 SCREW 2 51 9009610-8092 WASHER 9 52 9007276-0011 TORX SCREW 4 53 9270178 SERVO SLEEVE RETAINER 2 55 9801001 BRACKET LIFTING 1 56 9801000 BRACKET LIFTING 1 57 9005110-9500 PLUG 1 60 9004100-1560 O RING 2 62 9004100-2430 O RING 2 68 9006300-0087 RETAINING RING 8 69 9004830-0009 PIN 4 70 9009610-5387 WASHER 15 71 9007200-5026 SCREW 14 77 9005010-9700 PLUG 1	14	9004800-5012	PIN	2
23 9270422 SHAFT 1 26 9270188 FRONT COVER 1 29 9270175 FRONT COVER GASKET 1 30 9510422-0008 TRUNNION SHIM KIT 1 31 9270018 TRUNNION SHIM KIT 1 31 9270018 TRUNNION SHIM KIT 1 36 9510386 REAR BEARING KIT 1 38 9803390 CONTROL SCREEN FILTER 1 41 9006326-0025 RETAINING RING 1 42 9802396 FEEDBACK LINK PIN 1 43 9800589 FEEDBACK LINK 1 44 9007600-1103 DRIVE SCREW 2 47 9009650-6200 WASHER TOOTHLK 6 49 9007200-7552 SCREW 4 50 9007200-7556 SCREW 2 51 90007200-7556 SCREW 2 51 9009610-8092 WASHER 9 52 9007276-0011 TORX SCREW 4 53 9270178 SERVO SLEEVE RETAINER 2 55 9801001 BRACKET LIFTING 1 56 9801000 BRACKET LIFTING 1 57 9005110-9500 PLUG 1 60 9004100-1560 O RING 2 62 9004100-2430 O RING 2 68 9006300-0087 RETAINING RING 8 69 9004830-0009 PIN 4 70 9009610-5387 WASHER 15 71 9007200-5026 SCREW 14 77 9005010-1200 PIPE PLUG 1 78 9005100-9700 PLUG 2	15	9270462	VARIABLE SWASHPLATE	1
26         9270188         FRONT COVER GASKET         1           29         9270175         FRONT COVER GASKET         1           30         9510422-0008         TRUNION SHIM KIT         1           31         9270618         TRUNION         2           34         9270655         VALVE PLATE         1           36         9510386         REAR BEARING KIT         1           38         9803390         CONTROL SCREEN FILTER         1           41         9006326-0025         RETAINING RING         1           42         9802396         FEEDBACK LINK PIN         1           43         9800589         FEEDBACK LINK         1           44         9007600-1103         DRIVE SCREW         2           47         9009650-6200         WASHER TOOTHLK         6           49         9007200-7552         SCREW         2           50         9007200-7556         SCREW         2           51         9009610-8092         WASHER         9           52         9007276-0011         TORX SCREW         4           53         9270178         SERVO SLEEVE RETAINER         2           55         9801001 <t< td=""><td>21</td><td>9510270</td><td>FRONT BEARING KIT</td><td>1</td></t<>	21	9510270	FRONT BEARING KIT	1
29         * 9270175         FRONT COVER GASKET         1           30         9510422-0008         TRUNNION SHIM KIT         1           31         9270018         TRUNNION         2           34         9270655         VALVE PLATE         1           36         9510386         REAR BEARING KIT         1           38         9803390         CONTROL SCREEN FILTER         1           41         9006326-0025         RETAINING RING         1           42         9802396         FEEDBACK LINK PIN         1           43         9800589         FEEDBACK LINK         1           44         9007600-1103         DRIVE SCREW         2           47         9009650-6200         WASHER TOOTHLK         6           49         9007200-7556         SCREW         2           50         9007200-7556         SCREW         2           51         9009610-8092         WASHER         9           52         9007276-0011         TORX SCREW         4           53         9270178         SERVO SLEEVE RETAINER         2           55         9801001         BRACKET LIFTING         1           56         9801000         <				1
30 9510422-0008 TRUNNION SHIM KIT 1 31 9270018 TRUNNION 2 34 9270655 VALVE PLATE 1 36 9510386 REAR BEARING KIT 1 38 9803390 CONTROL SCREEN FILTER 1 41 9006326-0025 RETAINING RING 1 42 9802396 FEEDBACK LINK PIN 1 43 9800589 FEEDBACK LINK VIN 1 44 9007600-1103 DRIVE SCREW 2 47 9009650-6200 WASHER TOOTHLK 6 49 9007200-7552 SCREW 4 50 9007200-7556 SCREW 2 51 9009610-8092 WASHER 9 52 9007276-0011 TORX SCREW 4 53 9270178 SERVO SLEEVE RETAINER 2 55 9801001 BRACKET LIFTING 1 56 9801000 BRACKET LIFTING 1 56 9801000 BRACKET LIFTING 1 57 9005110-9500 PLUG 1 60 9004100-1560 ORING 2 62 9004100-2430 ORING 2 68 9006300-0087 RETAINING RING 8 69 9004830-0009 PIN 4 70 9009610-5387 WASHER 15 71 9007200-5026 SCREW 14 77 9005010-1200 PIPE PLUG 1 78 9005100-9700 PLUG 2 79 9005100-9700 PLUG 1				1
31 9270018 TRUNNION 2 34 9270655 VALVE PLATE 1 36 9510386 REAR BEARING KIT 1 38 9803390 CONTROL SCREEN FILTER 1 41 9006326-0025 RETAINING RING 1 42 9802396 FEEDBACK LINK PIN 1 43 9800589 FEEDBACK LINK 1 44 9007600-1103 DRIVE SCREW 2 47 9009650-6200 WASHER TOOTHLK 6 49 9007200-7552 SCREW 4 50 9007200-7556 SCREW 2 51 9009610-8092 WASHER 9 52 9007276-0011 TORX SCREW 4 53 9270178 SERVO SLEEVE RETAINER 2 55 9801001 BRACKET LIFTING 1 56 9801000 BRACKET LIFTING 1 56 9801000 BRACKET LIFTING 1 57 9005110-9500 PLUG 1 60 9004100-1560 ORING 2 62 9004100-2430 ORING 2 68 9006300-0087 RETAINING RING 8 69 9004830-0009 PIN 4 70 9009610-5387 WASHER 15 71 9007200-5026 SCREW 14 77 9005001-1200 PIPE PLUG 1 78 9005100-9700 PLUG 2 79 9005100-9700 PLUG 2 79 9005100-9700 PLUG 1				1
34 9270655 VALVE PLATE 1 36 9510386 REAR BEARING KIT 1 38 9803390 CONTROL SCREEN FILTER 1 41 9006326-0025 RETAINING RING 1 42 9802396 FEEDBACK LINK PIN 1 43 9800589 FEEDBACK LINK PIN 1 44 9007600-1103 DRIVE SCREW 2 47 9009650-6200 WASHER TOOTHLK 6 49 9007200-7552 SCREW 4 50 9007207-7556 SCREW 2 51 9009610-8092 WASHER 9 52 9007276-0011 TORX SCREW 4 53 9270178 SERVO SLEEVE RETAINER 2 55 9801001 BRACKET LIFTING 1 56 9801000 BRACKET LIFTING 1 56 9801000 BRACKET LIFTING 1 57 9005110-9500 PLUG 1 60 9004100-1560 O RING 2 62 9004100-2430 O RING 2 68 9006300-0087 RETAINING RING 8 69 9004830-0009 PIN 4 70 9009610-5387 WASHER 15 71 9007200-5026 SCREW 14 77 900501-1200 PIPE PLUG 1 78 9005100-9700 PLUG 2 79 9005100-9700 PLUG 2				1
36         9510386         REAR BEARING KIT         1           38         9803390         CONTROL SCREEN FILTER         1           41         9006326-0025         RETAINING RING         1           42         9802396         FEEDBACK LINK PIN         1           43         9800589         FEEDBACK LINK         1           44         9007600-1103         DRIVE SCREW         2           47         9009650-6200         WASHER TOOTHLK         6           49         9007200-7552         SCREW         2           50         9007200-7556         SCREW         2           51         9009610-8092         WASHER         9           52         9007276-0011         TORX SCREW         4           53         9270178         SERVO SLEEVE RETAINER         2           55         9801001         BRACKET LIFTING         1           56         9801000         BRACKET LIFTING         1           57         9005110-9500         PLUG         1           60         9004100-1560         O RING         2           62         9004100-2430         O RING         2           68         9006300-0087         RETAINI				2
38 9803390 CONTROL SCREEN FILTER 41 9006326-0025 RETAINING RING 42 9802396 FEEDBACK LINK PIN 43 9800589 FEEDBACK LINK 44 9007600-1103 DRIVE SCREW 247 9009650-6200 WASHER TOOTHLK 50 9007200-7552 SCREW 51 9009610-8092 WASHER 52 9007276-0011 TORX SCREW 53 9270178 SERVO SLEEVE RETAINER 55 9801001 BRACKET LIFTING 56 9801000 BRACKET LIFTING 57 9005110-9500 PLUG 60 9004100-1560 ORING 62 9004100-2430 ORING 69 9004830-0009 PIN 69 9004830-0009 PIN 69 9005100-9700 PLUG 79 9005100-9700 PLUG 79 9005100-9700 PLUG 70 10				30
41       9006326-0025       RETAINING RING       1         42       9802396       FEEDBACK LINK PIN       1         43       9800589       FEEDBACK LINK       1         44       9007600-1103       DRIVE SCREW       2         47       9009650-6200       WASHER TOOTHLK       6         49       9007200-7552       SCREW       4         50       9007200-7556       SCREW       2         51       9009610-8092       WASHER       9         52       9007276-0011       TORX SCREW       4         53       9270178       SERVO SLEEVE RETAINER       2         55       9801001       BRACKET LIFTING       1         56       9801000       BRACKET LIFTING       1         57       9005110-9500       PLUG       1         60       9004100-1560       O RING       2         62       9004100-2430       O RING       2         68       9006300-0087       HETAINING RING       8         69       9004830-0009       PIN       4         70       9009610-5387       WASHER       15         71       9005001-1200       PIPE PLUG       1				1
42       9802396       FEEDBACK LINK PIN       1         43       9800589       FEEDBACK LINK       1         44       9007600-1103       DRIVE SCREW       2         47       9009650-6200       WASHER TOOTHLK       6         49       9007200-7552       SCREW       4         50       9007200-7556       SCREW       2         51       9009610-8092       WASHER       9         52       9007276-0011       TORX SCREW       4         53       9270178       SERVO SLEEVE RETAINER       2         55       9801001       BRACKET LIFTING       1         56       9801000       BRACKET LIFTING       1         57       9005110-9500       PLUG       1         60       9004100-1560       O RING       2         62       9004100-2430       O RING       2         68       9006300-0087       RETAINING RING       8         69       9004830-0009       PIN       4         70       9009610-5387       WASHER       15         71       9005001-1200       PIPE PLUG       1         78       9005100-4400       PLUG       2				1
43       9800589       FEEDBACK LINK       1         44       9007600-1103       DRIVE SCREW       2         47       9009650-6200       WASHER TOOTHLK       6         49       9007200-7552       SCREW       4         50       9007200-7556       SCREW       2         51       9009610-8092       WASHER       9         52       9007276-0011       TORX SCREW       4         53       9270178       SERVO SLEEVE RETAINER       2         55       9801001       BRACKET LIFTING       1         56       9801000       BRACKET LIFTING       1         57       9005110-9500       PLUG       1         60       9004100-1560       O RING       2         62       9004100-2430       O RING       2         68       9006300-0087       RETAINING RING       8         69       9004830-0009       PIN       4         70       9009610-5387       WASHER       15         71       9005001-1200       PIPE PLUG       1         78       9005100-4400       PLUG       2         79       9005100-9700       PLUG       1				1
44       9007600-1103       DRIVE SCREW       2         47       9009650-6200       WASHER TOOTHLK       6         49       9007200-7552       SCREW       4         50       9007200-7556       SCREW       2         51       9009610-8092       WASHER       9         52       9007276-0011       TORX SCREW       4         53       9270178       SERVO SLEEVE RETAINER       2         55       9801001       BRACKET LIFTING       1         56       9801000       BRACKET LIFTING       1         57       9005110-9500       PLUG       1         60       9004100-1560       O RING       2         62       9004100-2430       O RING       2         68       9006300-0087       RETAINING RING       8         69       9004830-0009       PIN       4         70       9009610-5387       WASHER       15         71       900500-5026       SCREW       14         77       900500-4400       PLUG       2         79       9005100-9700       PLUG       1				1
49       9007200-7552       SCREW       4         50       9007200-7556       SCREW       2         51       9009610-8092       WASHER       9         52       9007276-0011       TORX SCREW       4         53       9270178       SERVO SLEEVE RETAINER       2         55       9801001       BRACKET LIFTING       1         56       9801000       BRACKET LIFTING       1         57       9005110-9500       PLUG       1         60       *9004100-1560       O RING       2         62       *9004100-2430       O RING       2         68       9006300-0087       RETAINING RING       8         69       9004830-0009       PIN       4         70       9009610-5387       WASHER       15         71       9007200-5026       SCREW       14         77       9005001-1200       PIPE PLUG       1         78       9005100-4400       PLUG       2         79       9005100-9700       PLUG       1				10
49       9007200-7552       SCREW       4         50       9007200-7556       SCREW       2         51       9009610-8092       WASHER       9         52       9007276-0011       TORX SCREW       4         53       9270178       SERVO SLEEVE RETAINER       2         55       9801001       BRACKET LIFTING       1         56       9801000       BRACKET LIFTING       1         57       9005110-9500       PLUG       1         60       *9004100-1560       O RING       2         62       *9004100-2430       O RING       2         68       9006300-0087       RETAINING RING       8         69       9004830-0009       PIN       4         70       9009610-5387       WASHER       15         71       9007200-5026       SCREW       14         77       9005001-1200       PIPE PLUG       1         78       9005100-4400       PLUG       2         79       9005100-9700       PLUG       1				2
50         9007200-7556         SCREW         2           51         9009610-8092         WASHER         9           52         9007276-0011         TORX SCREW         4           53         9270178         SERVO SLEEVE RETAINER         2           55         9801001         BRACKET LIFTING         1           56         9801000         BRACKET LIFTING         1           57         9005110-9500         PLUG         1           60         9004100-1560         O RING         2           62         9004100-2430         O RING         2           68         9006300-0087         RETAINING RING         8           69         9004830-0009         PIN         4           70         9009610-5387         WASHER         15           71         9007200-5026         SCREW         14           77         9005001-1200         PIPE PLUG         1           78         9005100-4400         PLUG         2           79         9005100-9700         PLUG         1				6
52       9007276-0011       TORX SCREW       4         53       9270178       SERVO SLEEVE RETAINER       2         55       9801001       BRACKET LIFTING       1         56       9801000       BRACKET LIFTING       1         57       9005110-9500       PLUG       1         60       * 9004100-1560       O RING       2         62       * 9004100-2430       O RING       2         68       9006300-0087       RETAINING RING       8         69       9004830-0009       PIN       4         70       9009610-5387       WASHER       15         71       9007200-5026       SCREW       14         77       9005001-1200       PIPE PLUG       1         78       9005100-4400       PLUG       2         79       9005100-9700       PLUG       1				4
52       9007276-0011       TORX SCREW       4         53       9270178       SERVO SLEEVE RETAINER       2         55       9801001       BRACKET LIFTING       1         56       9801000       BRACKET LIFTING       1         57       9005110-9500       PLUG       1         60       * 9004100-1560       O RING       2         62       * 9004100-2430       O RING       2         68       9006300-0087       RETAINING RING       8         69       9004830-0009       PIN       4         70       9009610-5387       WASHER       15         71       9007200-5026       SCREW       14         77       9005001-1200       PIPE PLUG       1         78       9005100-4400       PLUG       2         79       9005100-9700       PLUG       1				2
53       9270178       SERVO SLEEVE RETAINER       2         55       9801001       BRACKET LIFTING       1         56       9801000       BRACKET LIFTING       1         57       9005110-9500       PLUG       1         60       * 9004100-1560       O RING       2         62       * 9004100-2430       O RING       2         68       9006300-0087       RETAINING RING       8         69       9004830-0009       PIN       4         70       9009610-5387       WASHER       15         71       9007200-5026       SCREW       14         77       9005001-1200       PIPE PLUG       1         78       9005100-4400       PLUG       2         79       9005100-9700       PLUG       1				9
55       9801001       BRACKET LIFTING       1         56       9801000       BRACKET LIFTING       1         57       9005110-9500       PLUG       1         60       9004100-1560       O RING       2         62       9004100-2430       O RING       2         68       9006300-0087       RETAINING RING       8         69       9004830-0009       PIN       4         70       9009610-5387       WASHER       15         71       9007200-5026       SCREW       14         77       9005001-1200       PIPE PLUG       1         78       9005100-4400       PLUG       2         79       9005100-9700       PLUG       1				
56       9801000       BRACKET LIFTING       1         57       9005110-9500       PLUG       1         60       9004100-1560       O RING       2         62       9004100-2430       O RING       2         68       9006300-0087       RETAINING RING       8         69       9004830-0009       PIN       4         70       9009610-5387       WASHER       15         71       9007200-5026       SCREW       14         77       9005001-1200       PIPE PLUG       1         78       9005100-4400       PLUG       2         79       9005100-9700       PLUG       1				2
57       9005110-9500       PLUG       1         60       * 9004100-1560       ORING       2         62       * 9004100-2430       ORING       2         68       9006300-0087       RETAINING RING       8         69       9004830-0009       PIN       4         70       9009610-5387       WASHER       15         71       9007200-5026       SCREW       14         77       9005001-1200       PIPE PLUG       1         78       9005100-4400       PLUG       2         79       9005100-9700       PLUG       1				.2
60 * 9004100-1560 ORING 2 62 * 9004100-2430 ORING 2 68 9006300-0087 RETAINING RING 8 69 9004830-0009 PIN 4 70 9009610-5387 WASHER 15 71 9007200-5026 SCREW 14 77 9005001-1200 PIPE PLUG 1 78 9005100-4400 PLUG 2 79 9005100-9700 PLUG 1				3
62 * 9004100-2430 ORING 2 68 9006300-0087 RETAINING RING 8 69 9004830-0009 PIN 4 70 9009610-5387 WASHER 15 71 9007200-5026 SCREW 14 77 9005001-1200 PIPE PLUG 1 78 9005100-4400 PLUG 2 79 9005100-9700 PLUG 1				1
69 9004830-0009 PIN 4 70 9009610-5387 WASHER 15 71 9007200-5026 SCREW 14 77 9005001-1200 PIPE PLUG 1 78 9005100-4400 PLUG 2 79 9005100-9700 PLUG 1				2
69 9004830-0009 PIN 4 70 9009610-5387 WASHER 15 71 9007200-5026 SCREW 14 77 9005001-1200 PIPE PLUG 1 78 9005100-4400 PLUG 2 79 9005100-9700 PLUG 1				2
70 9009610-5387 WASHER 15 71 9007200-5026 SCREW 14 77 9005001-1200 PIPE PLUG 1 78 9005100-4400 PLUG 2 79 9005100-9700 PLUG 1				
71 9007200-5026 SCREW 14 77 9005001-1200 PIPE PLUG 1 78 9005100-4400 PLUG 2 79 9005100-9700 PLUG 1				
77 9005001-1200 PIPE PLUG 1 78 9005100-4400 PLUG 2 79 9005100-9700 PLUG 1				13
78 9005100-4400 PLUG 2 79 9005100-9700 PLUG 1				
				2
				1 -
80 * 9004101-0140 ORING 1				
91 9007200-6222 SCREW 6				6

#### COMMON PARTS

### FOR ALL 27 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

PART			QTY/
REE	PART NUMBER	DESCRIPTION	MODE
101	9007200-7542	SCREW	2
106	9270355	SERVO PISTON	2
107	9270653	SERVO PISTON LINK	1
109	9007276-0055	SCREW	1
110	9009610-4069	WASHER	1
126	9510423	SHIM KIT	1
B1	9270657	BEARING PLATE	1
B2	9270656	BEARING PLATE PILOT RING	1
B3	9006250-0400	RETAINING RING	1
B4	9270209	SPRING RETAINER	1
B5	9270015	SPRING GUIDE	1
B6	9270488	CYLINDER BLOCK SPRING	1
B7	9270013	SPRING SEAT	1
B8	9260088	PIN	1
B9	9270495	CYLINDER BLOCK	1
B10	9270496	SLIPPER RETAINER GUIDE SPRING	6
B11	9270105	SLIPPER RETAINER GUIDE	1
B12	9270486	SLIPPER RETAINER	1
B13	9510408-0009	PISTON KIT (WELDED)	3
C	9510191	SHAFT SEAL KIT	1
C2	* 9004104-1490	ORING	2
C3	9220242	SPRING	12
C4	* 9004100-2430	ORING	1
C5	9510454	SEAL RETAINER	1
C6	9006201-0450	RETAINING RING	1

NOTE: THE ASTERISK \* PRECEDING THE PART NUMBER DENOTES THAT PART IS ALSO AVAILABLE IN A SEAL/GASKET OVERHAUL KIT PART NUMBER 9510244

#### OPTIONS

### FOR ALL 27 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

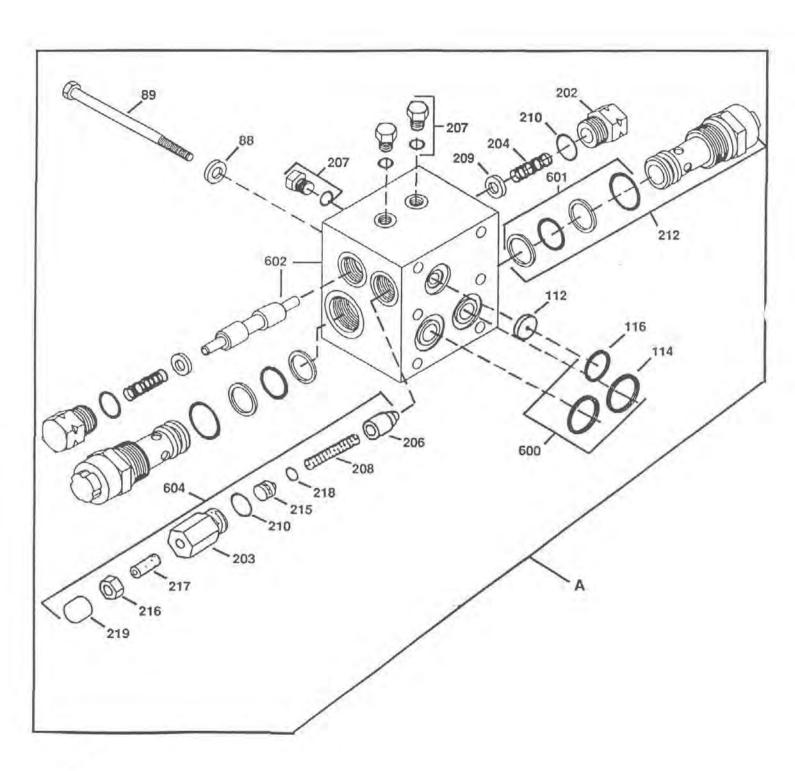
OPTION	PART	>>>>> SHAFT	GROUP <<<<<<	OTY/
NO.	REF	PART NUMBER	DESCRIPTION	MODEL
1	23 98	9270427 9003261-6244	'K' KEYED KEY	1
2	23	9270422	'M' SPLINE 15T	1
3	23	9270189	'N' SPLINE 40T	1
		>>>>> END CAF	GROUP <<<<<<	
OPTION NO.	PART REE	PART NUMBER	DESCRIPTION	QTY/ MODEL
1	30	9270409	'A' 1-1/2" - 3000 PSI	1
	>>>	>>>> SERVO PISTON	I LINK GROUP <<<<<<	
OPTION NO.	PART BEF	PART NUMBER	DESCRIPTION	QTY/ MODEL
1	108	9270524	7.0 DEG	1
1	108	9270524	7.0 DEG	1

#### OPTIONS

### FOR ALL 27 SERIES VARIABLE DISPLACEMENT MOTORS USE WITH DRAWING FORM NO. 2-41623

OPTION	PART		700 40 50 av	QTY/
NO.	REF	PART NUMBER	DESCRIPTION	MODEL
1	61	9270596	SERVO SLEEVE (STANDAR	D) 1
	57	9005110-9500	PLUG	1
	132	9270596	SERVO SLEEVE (STROKE L	IMITER) 1
	123	9260422-0027	LIMITER COVER	1
	D	9510677-26	STROKE LIMITER KIT	1
	D1 D2	9006371-6900 9004104-1160	EXTERNAL RETAINING RING ORING	1
	D3	9004201-9200	ORING	1
	D4	9260364	LIMITER HOUSING	1
	D5	9260421	LIMITER ROD	1
	D6	9003561-8700	NUT	1
	D7	9260422-0027	LIMITER COVER	1
OPTION _NQ_	PART REF	PART NUMBER	CK KIT GROUP <<<<<<  DESCRIPTION  CYLINDER BLOCK KIT	QTY/ MODEL
	PART	<u>PART NUMBER</u> 9270658		
_NO	PART REF	<u>PART NUMBER</u> 9270658	DESCRIPTION  CYLINDER BLOCK KIT	MODEL
NO1	PART REE B	<u>PART NUMBER</u> 9270658	DESCRIPTION  CYLINDER BLOCK KIT	MODEL 1

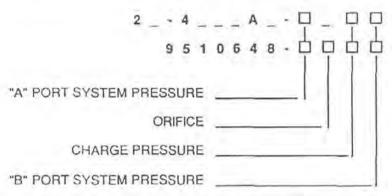
## STANDARD MANIFOLD ASSEMBLY KIT PARTS LIST REF # A 9510648-



### STANDARD MANIFOLD ASSEMBLY KIT FORM NO. 2-41630 PAGE 2 OF 2

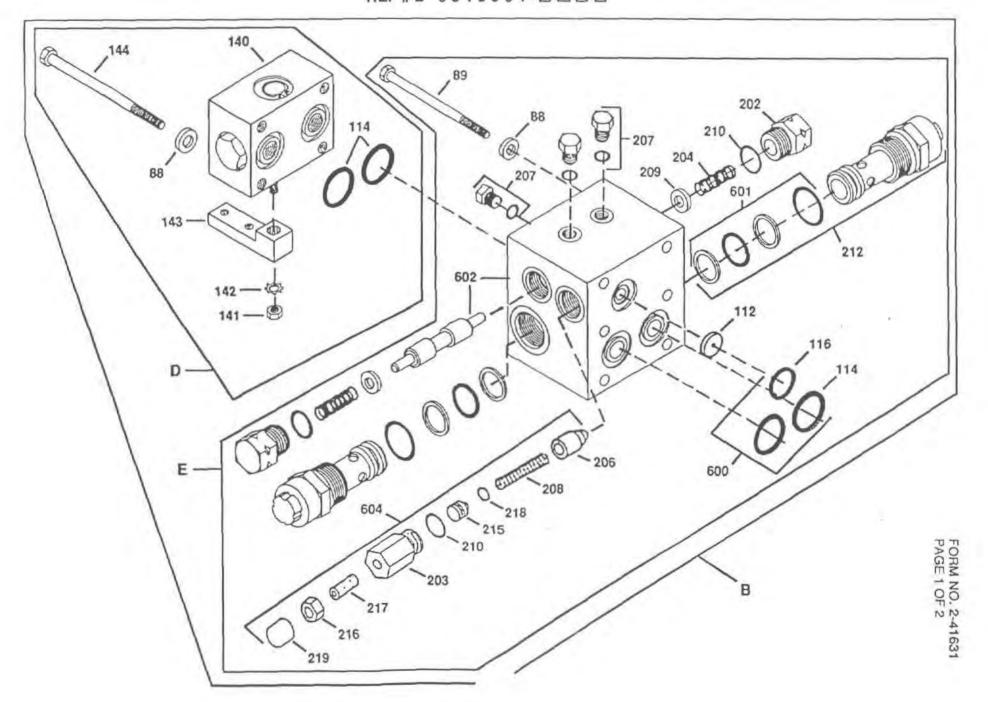
### REF # A 9 5 1 0 6 4 8 - 0 0 0

REF #	PART NUMBER	DESCRIPTION	QTY
88	9009610-3459	WASHER	6
89	9007200-3142	HEX HD CAP SCREW	6
112	SEE BELOW	ORIFICE	1
114	9004375-0012	ORING	2
116	9004375-0017	ORING	1
202	9802034	HEX PLUG	2
203	9803461	CHARGE RELIEF PLUG	1
204	9800366	SHUTTLE VALVE SPRING	2
206	9801206	CHARGE RELIEF VALVE	1
207	9005100-4400	HEX PLUG	3
208	9803311	CHARGE RELIEF SPRING	- 1
209	9009625-2901	WASHER	2
210	9004201-6200	ORING	3
212	SEE BELOW	HIGH PRESSURE RELIEF	2
215	9803462	PLUNGER	1
216	9003561-3700	NUT	3
217	9007774-0007	SET SCREW	1
218	9004100-0120	ORING	1
219	9803352	COVER	1
600	9510049	O RING KIT	1
601	9510048	RELIEF VALVE SEAL KIT	1
602	9510649	MANIFOLD HSG ASS'Y	1
604	9510683	CHARGE RELIEF ASS'Y	1



CODE	SYSTEM PRESSURE	REF # 212	ORIFICE SIZE	REF # 112	CHARGE PRESSURE
A	1000 PSI	9510650-A	31	-	10 TO
В	1500 PSI	9510650-B			160/180
C	2000 PSI	9510650-C	8	1.5	180/200
D	2500 PSI	9510650-D		lia.	200/220
BCDEF	3000 PSI	9510650-E	4	1.0	220/240
	350.0 PSI	9510650-F	.070 SPCL	9803457-0070	240/260
G	4000 PSI	9510650-G			260/280
H	4500 PSI	9510650-H	~	14	280/300
J	5000 PSI	9510650-J	9	R-	300/320
K	5500 PSI	9510650-K	~	1 -	320/340
L	6000 PSI	9510650-L			340/360
M	6500 PSI	9510650-M	4		360/380
N S	7000 PSI	9510650-N	3.0		130
S		-	.390 STD	9803457-390	(2)
W	PLT OPERATED				18

### PARTS LIST REF # B 9 5 1 0 6 6 4 - □ □ □ □



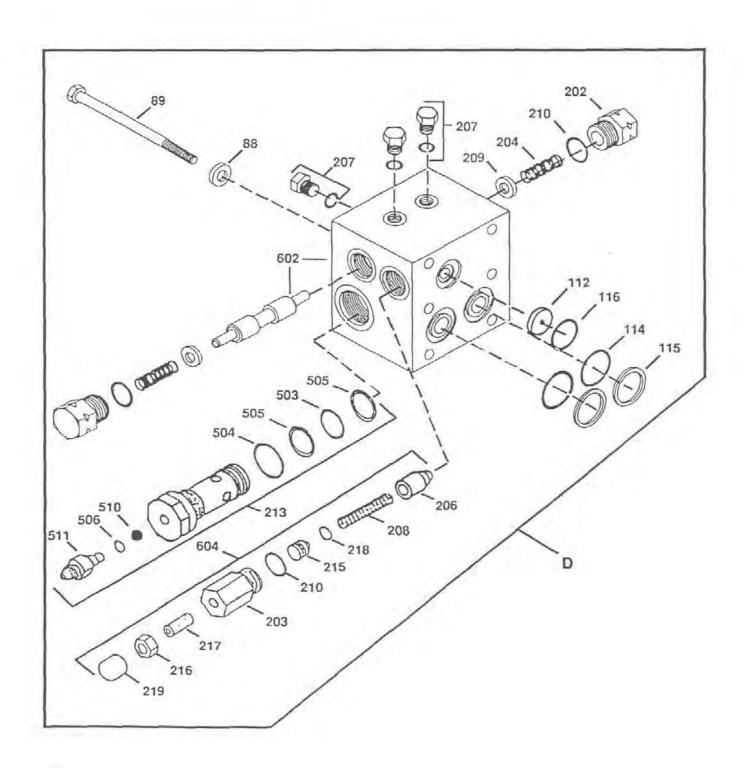
### REF # B 9 5 1 0 6 6 4 - 0 0 0

BEF #	PART NUMBER	DESCRIPTION	QTY
D	9510173	ROTARY BYPASS KIT	1
88	9009610-3459	WASHER	4
114	9004375-0012	O RING	2
140	9801231-01	BYPASS VALVE ASSEMBLY	1
141	9003560-2500	NUT	1
142	9009660-2500	TOOTHLOCK WASHER	1
143	9803418	HANDLE	1
144	9007200-3156	SCREW	4
E	9510647-	MANIFOLD ASSEMBLY KIT	
88	9009610-3459	WASHER	6
89	9007200-3142	HEX HD CAP SCREW	2
112	SEE BELOW	ORIFICE	1
114	9004375-0012	ORING	4
116	9004375-0017	O RING	1
202	9802034	HEX PLUG	2
203	9803461	CHARGE RELIEF PLUG	1
204	9800366	SHUTTLE VALVE SPRING	2
206	9801206	CHARGE RELIEF VALVE	1
207	9005100-4400	HEX PLUG	3
208	9803311	CHARGE RELIEF SPRING	1
209	9009625-2901	WASHER	2
210	9004201-6200	ORING	3
212	SEE BELOW	HIGH PRESSURE RELIEF	2 3 2
215	9803462	PLUNGER	1
216	9003561-3700	NUT	1
217	9007774-0007	SET SCREW	1
218	9004100-0120	ORING	1
219	9803352	COVER	1
600	9510049	O RING KIT	1
601	9510048	RELIEF VALVE SEAL KIT	1
604	9510683	CHARGE RELIEF ASS'Y	1
		2 4 B □ _ □ □	

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		9	5	1	0	6	4	7	٠	中	†	p	D.	
"A" PORT SYS	TEM PRES	SSU	JRE		_		_	_			1			
	0	RIF	ICE	Ξ,	_	_					_		1	
CHA	RGE PRES	ssi	JRE		_							_		
"B" PORT SYS	TEM PRES	SSU	JRE		_									

CODE	SYSTEM PRESSURE	REF# 212	ORIFICE SIZE	REF# 112	CHARGE PRESSURE
A	1000 PS1	9510650-A			1.0
В	1500 PSI	9510650-B		-	160/180
C	2000 PSI	9510650-C	-40		180/200
D	2500 PSI	9510650-D		-	200/220
E	3000 PSI	9510650-E	CT 37.3	4	220/240
F	3500 PSI	9510650-F	.070 SPCL	9803457-0070	240/260
G	4000 PSI	9510650-G		Annual Property	260/280
H	4500 PSI	9510650-H	121	1	280/300
J	5000 PSI	9510650-J		- 2	300/320
K	5500 PSI	9510650-K	14		320/340
L	6000 PSI	9510650-L	ret.		340/360
M	6500 PSI	9510650-M	-	× .	360/380
N	7000 PSI	9510650-N	L. IR.		(-)
S			390 STD	9803457-0390	8
W	PLT OPERATED				

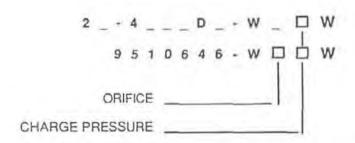
### REMOTE PILOT RELIEF MANIFOLD ASSEMBLY KIT PARTS LIST REF # D 9510646- W □ □ W



#### REMOTE PILOT RELIEF MANIFOLD ASSEMBLY KIT

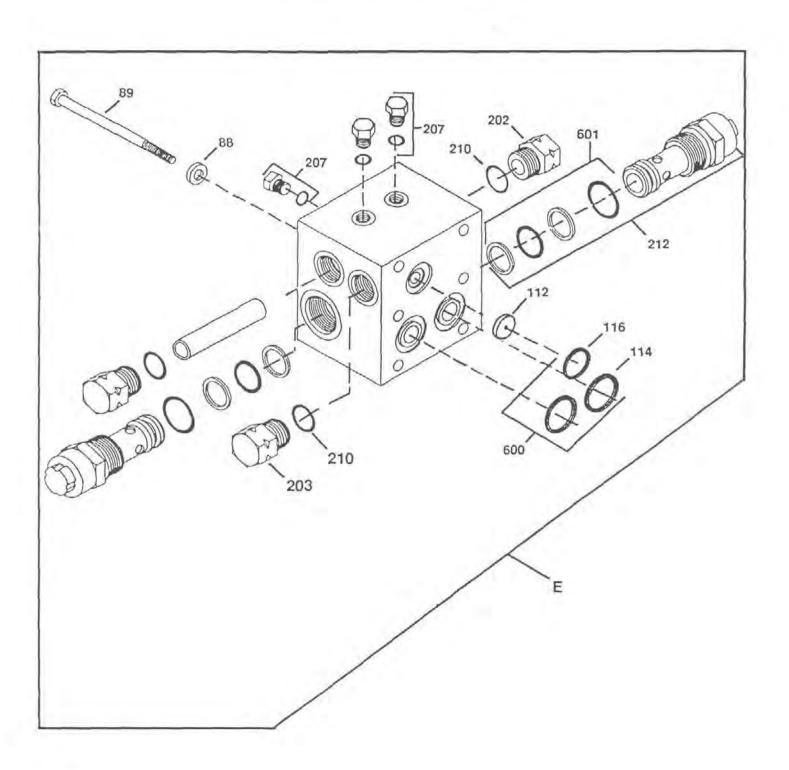
### REF # D 9 5 1 0 6 4 6 - W D D W

REF #	PART NUMBER	DESCRIPTION	QTY
88	9009610-3459	WASHER	6
89	9007200-3142	HEX HD CAP SCREW	6
112	SEE BELOW	ORIFICE	1
114	9004105-1190	O RING	2
115	9006150-1190	BACKUP RING	2 2
116	9004105-0200	O RING	1
202	9802034	HEX PLUG	1 2
203	9803461	CHARGE RELIEF PLUG	
204	9800366	SHUTTLE VALVE SPRING	2
206	9801206	CHARGE RELIEF VALVE	2
207	9005100-4400	HEX PLUG	3
208	9803311	CHARGE RELIEF SPRING	1
209	9009625-2901	WASHER	2 3 2
210	9004201-6200	O RING	3
212	9803347	HIGH PRESSURE RELIEF	2
215	9803462	PLUNGER	1
216	9003561-3700	NUT	1
217	9007774-0007	SET SCREW	1
218	9004100-0120	O RING	1
219	9803352	COVER	1
503	9004105-1170	O RING	2
504	9004202-8700	O RING	2 2 2 2 2 2 2
505	9006110-1170	BACKUP RING	2
506	9004202-3100	O RING	2
510	9001212-2500	BALL	2
511	9803232	SPECIAL FITTING	2
602	9510649	MANIFOLD HSG ASS'Y	1
604	9510683	CHARGE RELIEF ASSY	1



CODE	ORIFICE SIZE	REF# 112	CHARGE PRESSURE
A		PC	100 to 1819
В			160/180
C		9.	180/200
D			200/220
E	3-	21	220/240
F	.070 SPCL	9803457-0070	240/260
G			260/280
H	- W	8.1	280/300
J	1.0	*	300/320
K	J = 1		320/340
L			340/360
M	9	~	360/380
N			
S	.390 STD	9803457-0390	
W		4 1 10 10 10 10 10 10	-

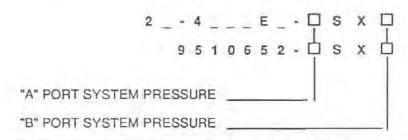
### BLOCKED SHUTTLE (BOTH PORTS) MANIFOLD ASSEMBLY KIT PARTS LIST REF # E 9510652- D S X D



### BLOCKED SHUTTLE (BOTH PORTS) MANIFOLD ASSEMBLY KIT

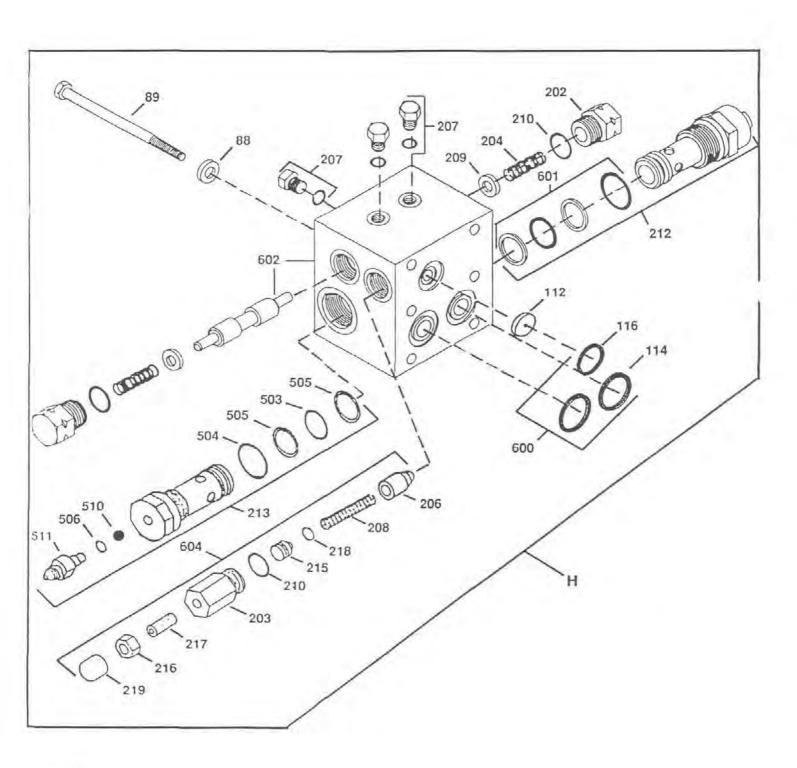
#### REF # E 9 5 1 0 6 5 2 - D S X D

REF #	PART NUMBER	DESCRIPTION	QTY
88	9009610-3459	WASHER	6
89	9007200-3142	HEX HD CAP SCREW	6
112	9803457-0390	ORIFICE	1
114	9004375-0012	O RING	2
116	9004375-0017	O RING.	1
202	9005100-8700	HEX PLUG	2
203	9005100-8700	HEX PLUG	1
207	9005100-4400	HEX PLUG	3
210	9004201-6200	O RING	3
212	SEE BELOW	HIGH PRESSURE RELIEF	2
223	9004810-6234	PIN	1
600	9510049	O RING KIT	1
601	9510048	RELIEF VALVE SEAL KIT	1



CODE	SYSTEM PRESSURE	REF # 212
A	1000 PSI	9510650-A
В	1500 PSI	9510650-B
C	2000 PSI	9510650-C
D	2500 PSI	9510650-D
E	3000 PSI	9510650-E
F	3500 PSI	9510650-F
G	4000 PSI	9510650-G
H	4500 PSI	9510650-H
J	5000 PSI	9510650-J
K	5500 PSI	9510650-K
L	6000 PSI	9510650-L
M -	6500 PSI	9510650-M
N	7000 PSI	9510650-N
S		
W	PLT OPERATED	

### REMOTE/STANDARD PILOT RELIEF MANIFOLD ASSEMBLY KIT PARTS LIST REF#H 9510674-W 🗆 🗆



#### REMOTE/STANDARD PILOT RELIEF MANIFOLD ASSEMBLY KIT

### REF # H 9 5 1 0 6 7 4 - W 🗆 🗆

REF #	PART NUMBER	DESCRIPTION	QTY
88	9009610-3459	WASHER	6
89	9007200-3142	HEX HD CAP SCREW	6
112	SEE BELOW	ORIFICE	1
114	9004375-0012	ORING	2
116	9004375-0017	O RING	1
203	9803461	CHARGE RELIEF PLUG	1
204	9800366	SHUTTLE VALVE SPRING	2
206	9801206	CHARGE RELIEF VALVE	2
207	9005100-4400	HEX PLUG	3
208	9803311	CHARGE RELIEF SPRING	1
209	9009625-2901	WASHER	2
210	9004201-6200	O RING	2 3
212	SEE BELOW	HIGH PRESSURE RELIEF	1
213	9803347	HIGH PRESSURE RELIEF	1
215	9803462	PLUNGER	1
216	9003561-3700	NUT	1
217	9007774-0007	SET SCREW	1
218	9004100-0120	ORING	1
219	9803352	COVER	1
503	9004105-1170	ORING	2
504	9004202-8700	ORING	1
505	9006110-1170	BACKUP RING	2
506	9004202-3100	ORING	1
510	9001212-2500	BALL	1
511	9803232	SPECIAL FITTING	1
600	9510049	O RING KIT	. 1
602	9510649	MANIFOLD HSG ASS'Y	1
604	9510683	CHARGE RELIEF ASSY	1

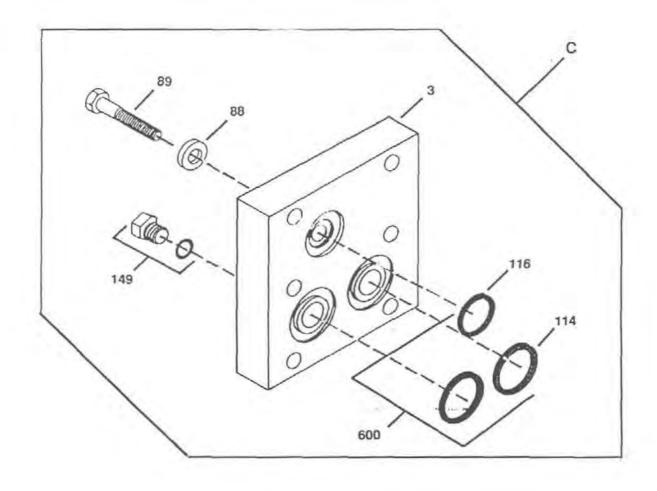


CODE	SYSTEM PRESSURE	REF # 212	ORIFICE SIZE	REF # 112	CHARGE PRESSURE
Α	1000 PSI	9510650-A		3	
В	1500 PSI	9510650-B	-		160/180
C	2000 PSI	9510650-C			180/200
D	2500 PSI	·9510650-D	5	-	200/220
E	3000 PSI	9510650-E	-	1	220/240
F	3500 PSI	9510650-F	.070 SPCL	9803457-0070	240/260
G	4000 PSI	9510650-G	3		260/280
H	4500 PSI	9510650-H	*	1.0	280/300
J	5000 PSI	9510650-J		-	300/320
K	5500 PSI	9510650-K		9	320/340
L	6000 PSI	9510650-L			340/360
M	6500 PSI	9510650-M	1		360/380
N	7000 PSI	9510650-N	÷	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
S	190	7 1 2 3 7 1	.390 STD	9803457-0390	-
W	PLT OPERATED			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	

### MANIFOLD COVER PLATE KIT

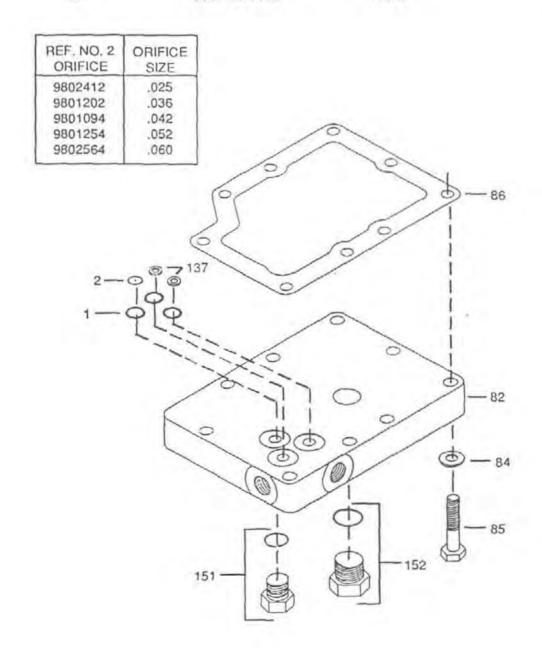
### REF#C 9510157

REF#	PART NUMBER	DESCRIPTION	QTY
3	9801172	COVER PLATE	1
88	9009610-3459	WASHER	6
89	9007200-3122	SCREW	6
114	9004375-0012	ORING	2
116	9004375-0017	ORING	1
149	9005100-4400	HEX PLUG	2
600	9510049	O RING KIT	1

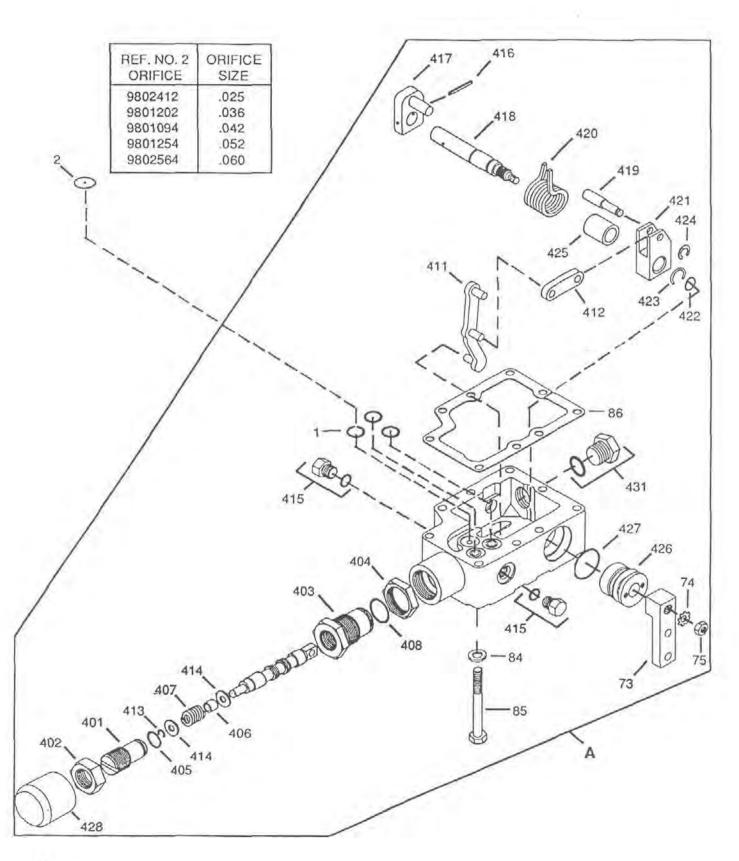


### CONTROL SLAVE PLATE

REF. NUMBER	PART NUMBER	DESCRIPTION	OTY
1	9004101-0140	O RING	3
2	SEE 'SPECIAL GROUP'	ORIFICE	1
82	9801487	SLAVE PLATE	1
84	9009610-2850	WASHER	9
85	9007200-2522	SCREW	9
86	9803340	CONTROL GASKET	1
137	9803326	CONTROL PLUG	2
151	9005100-4400	PLUG	1
152	9005100-5600	PLUG	9



### 



## WANUAL DISPLACEMENT CONTROL VALVE ASSEMBLY KIT 9510368- 🗆 🗆 🗆

REF. NUMBER	PART NUMBER	DESCRIPTION	OTY
A	SEE TABLE II	CONTROL VALVE SERVICE KIT	1
1	9004101-0140	ORING	3
2	SEE 'SPECIAL GROUP'	ORIFICE (NOT INCLIUDED IN KIT)	1
72	9800917	SPACER	1
73	9803418	HANDLE	1
74	9009660-2500	WASHER	.1
75	9003560-2500	NUT	1
84	9009610-2850	WASHER	1
85	9007200-2530	SCREW	9
86	9803340	CONTROL GASKET	9
401	9803304	SCREW	1
402	9003571-7500	NUT	1
403	9800214	CENTERING SPRING HOUSING	1
404	9003575-0001	LOCKING NUT	1
405	9004101-0140	ORING	1
406	9801035	SLEEVE	1
407	9801036	SPRING	1
408	9004100-0190	ORING	1
411	SEE TABLE II	CONTROL LINK ASSEMBLY	1
412	SEE TABLE II	LINK	1
413	9006326-0025	RETAINING RING	1
414	3009625-2502	CENTERING SPRING WASHER	1
415	9005100-4400	PLUG	2
416	9004700-1216	SPRING PIN	2
417	9800213	ACTUATOR	1
418	9800204	CONTROL HANDLE SHAFT	1
419	9800908	RETURN SPRING STOP	1
420	9801931	SPRING	1
421	9800909	CONTROL SHAFT LINK	1
422	9004101-0120	ORING	1
423	9006320-0050	RETAINING RING	1
424	9006375-0026	RETAINING RING	1
425	9801930	SPRING SLEEVE	1
426	9800997	CONTROL SHAFT BUSHING	1
427	9004100-0230	ORING	1
428	9800883	COVER	1
431	9005100-7500	PLUG	1
			1

TABLE II

FRAME SIZE	REF. NO. 411 LINK ASS'Y	REF. NO 412 LINK	2x-45xxxA-xxxx CONTROL KIT
21-22	9801721	9800905	9510368-4001
23	9802041	9800907	9510368-4002
24	9801749	9800905	9510368-4003
25-26	9801747	9800906	9510368-4004
27	9801748	9800907	9510368-4005

### ELECTRONIC DISPLACEMENT CONTROL

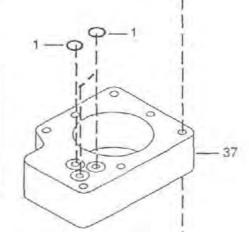
FORM NO. 2-41628 PAGE 1 OF 1

REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	9804101-0140	ORING	SEE TABLE II
2	SEE 'SPECIAL GROUP'	ORIFICE	2
16	SEE TABLE I	LINK & BALL ASS'Y	1
37	SEE TABLE I	SPACER PLATE	1
* 82	SEE CONTROL SERIAL TAG	EDC	1
83	SEE TABLE I	SCREW	2
85	SEE TABLE I	SCREW	5
86	9803340	CONTROL GASKET	SEE TABLE II

\* CONTACT SUNDSTRAND-SAUER MINNEAPOLIS FOR AVAILABILITY

### TABLE I

FRAME SIZE	REF. NO. 16 LINK & BALL	REF. NO.37 SPACER PLATE	REF. NO.83 SCREW	REF. NO, 85 SCREW
21-22	12499678-003	NOT REQUIRED	9007200-2536	9007200-2530
23	12499678-004	NOT REQUIRED	9007200-2536	9007200-2530
24	12499678-005	NOT REQUIRED	9007200-2536	9007200-2530
25	12499678-006	NOT REQUIRED	9007200-2536	9007200-2530
26	12499678-007	9803195-0002	9007200-2548	9007200-2542
27	12499678-008	NOT REQUIRED	9007200-2536	9007200-2530

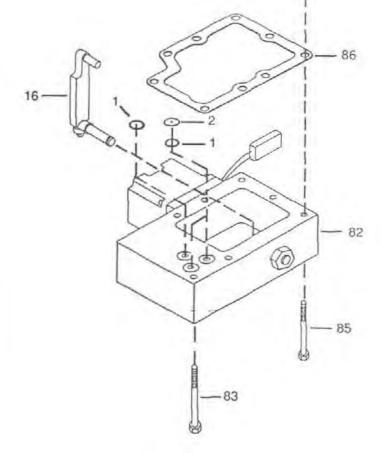


#### TABLE II

REF. NO. 1 O RING OTY	REF. NO. 86 GASKET QTY
3	1
3	1
3	1
3	1
6	2
3	1

TABLE III

REF. NO 2 ORIFICE P/N	ORIFICE SIZE
9802412	_025
9801202	.036
9801094	.042
9801254	.052
9802564	.060



REF. NUMBER	PART NUMBER	DESCRIPTION	QTY
1	9004101-0140	O RING	3
2	SEE 'SPECIAL GROUP'	ORIFICE	1
16	SEE TABLE II	LINK & BALL ASS'Y	1
* 82	SEE CONTROL SERIAL TAG	HDC	1
85	9007200-2530	SCREW	7
86	9803340	CONTROL GASKET	1

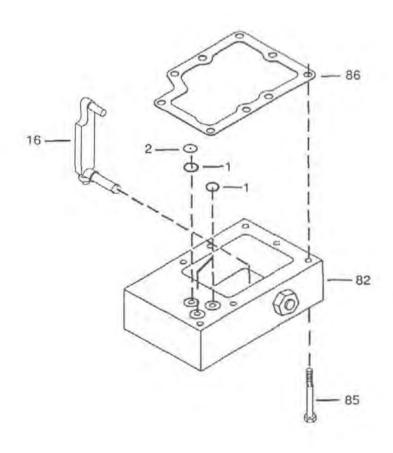
\* CONTACT SUNDSTRAND-SAUER MINNEAPOLIS FOR AVAILABILITY

TABLE I

REF. NO. 2 ORIFICE P/N	ORIFICE SIZE
9802412	.025
9801202	.036
9801094	.042
9801254	.052
9802564	.060

TABLE II

FRAME SIZE	REF. NO. 16 LINK & BALL
21-22	12499678-003
23	12499678-004
24	12499678-005
25	12499678-006
26	12499678-007
27	12499678-008



### NOTES:



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