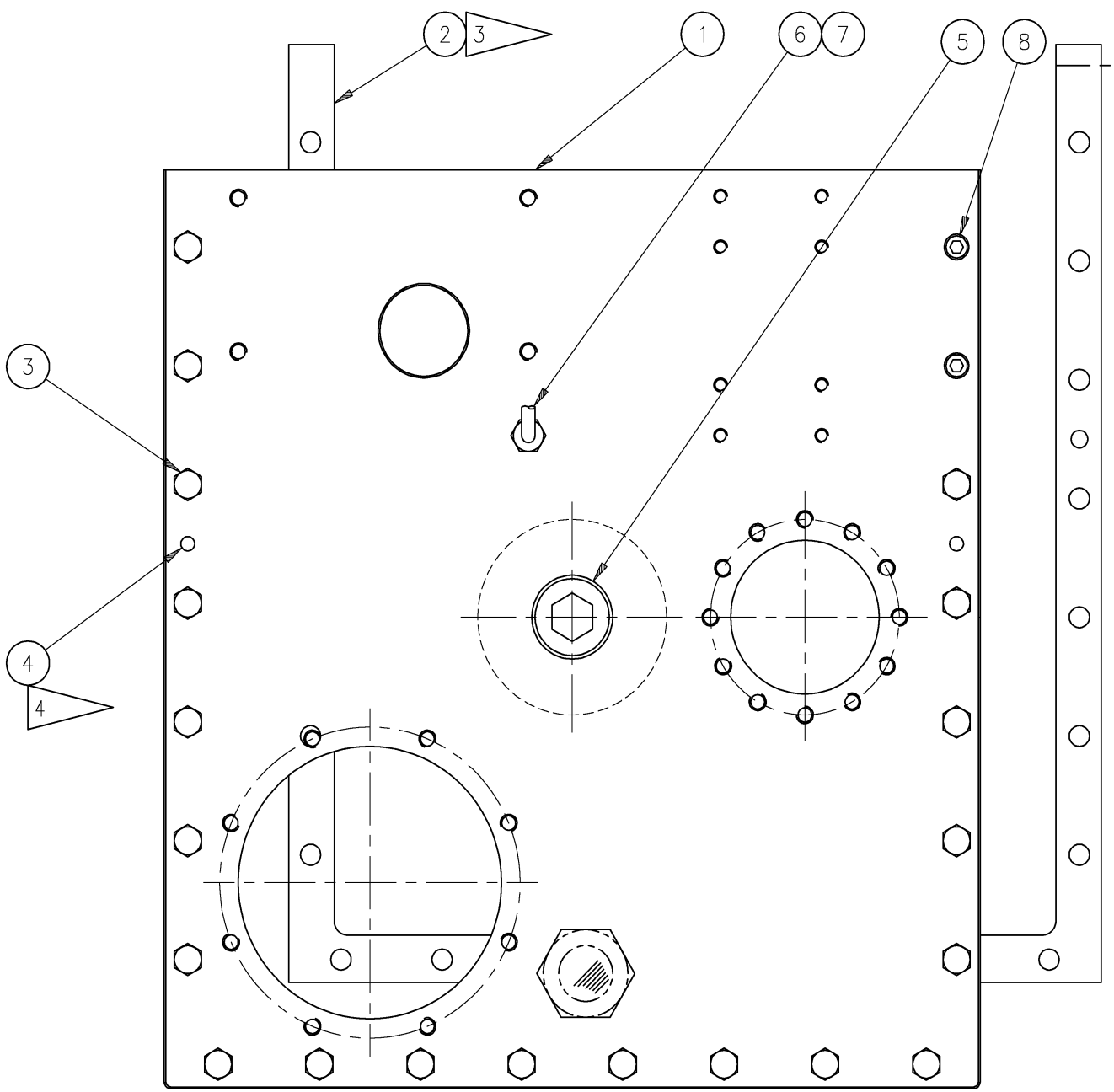
SALES ORDER COVER SHEET

SERIAL NUMBER: F-12884

PART: JGJ CLASS DESCRIPTION: JGJ FRAME CLASS

PART NUMBER	QUANTITY	DESCRIPTION	DRAWING NO.
G-0437	1	AUX.END COVER ASSY,JGR:W:J/2	A-6312
G-0438	1	DRIVE END COVER ASSY,R:W:J/2/4	A-6314
G-0439	1	TOP COVER ASSY,JGR:W:J/2 OLD	D-0280
G-0568	1	DST.BLK.MTG.SINGL,RWJ:HEKTCD/2	N.A.
G-0600	2	X-HEAD ASSY,JGR:JGJ	A-6873
G-0603	1	TOOLS ASSY,BOX,JGR:W:J	N.A.
G-0763-1	1	L.O.COOLER,THERM.RWJ/4,HEKT/2	N.A.
G-0830-1	1	L.O.PUMP ASSY,JGW:R:J/2	D-1227
G-0877	2	X-HD.GUIDE COVER,SHIP,JGR:JGJ	D-0569
G-1085	1	F.F.TUBING,JGR:W:J/2 D.A. CYL.	N.A.
G-1103	1	L.O.PRESS.GAUGE,ASHCROFT,STD.	N.A.
G-0555	2	XGUIDE ASSY,R:RJ:HJ:8-7/8W.STD	A-6791
G-1766	1	F.F.LUBR,1/4 ARIEL,JGR:W:J/2	D-1106
G-1955	1	CRANKSHAFT ASSY,JGJ/2	D-1216
G-1957	1	CHAIN ASSY,JGJ/2	D-0284
G-2245	1	PRIMING PUMP ASSY,R:W:J/2/4	D-1340
G-2445	1	FRAME ASSY,JGR:W:J/2	A-4263
G-2708	1	RUPTURE DISC ASSY, 3250 PSI	A-6453
G-3220	1	1"SIGHT GLASS,JG:A:M:P:I:R:W:J	N.A.
G-5183	2	CONN.ROD ASSY,FS,JGJ,NEW BRG	A-3985



NOTES:

1. LOOSEN OR TIGHTEN ALL FASTENERS PER RECOMMENDED PROCEDURES AND TORQUE VALUES IN MANUAL.
2. TRIM NEW GASKET FLUSH WITH TOP OF BASE AFTER INSTALLATION.
3. APPLY AN ANTI-SEIZE LUBRICANT TO BOTH SIDES OF GASKET SURFACES.
4. "F"(.257) DRILL 1-11/16 DEEP (THROUGH COVER AND 11/16 IN FRAME), REAM WITH #5 TAPER REAMER.

REV	DESCRIPTION

05942

ARIEL CORPORATION
35 BLACKJACK ROAD
MOUNT VERNON, OHIO 43050

ASSEMBLY DWG. No. A-6312

3/20/98

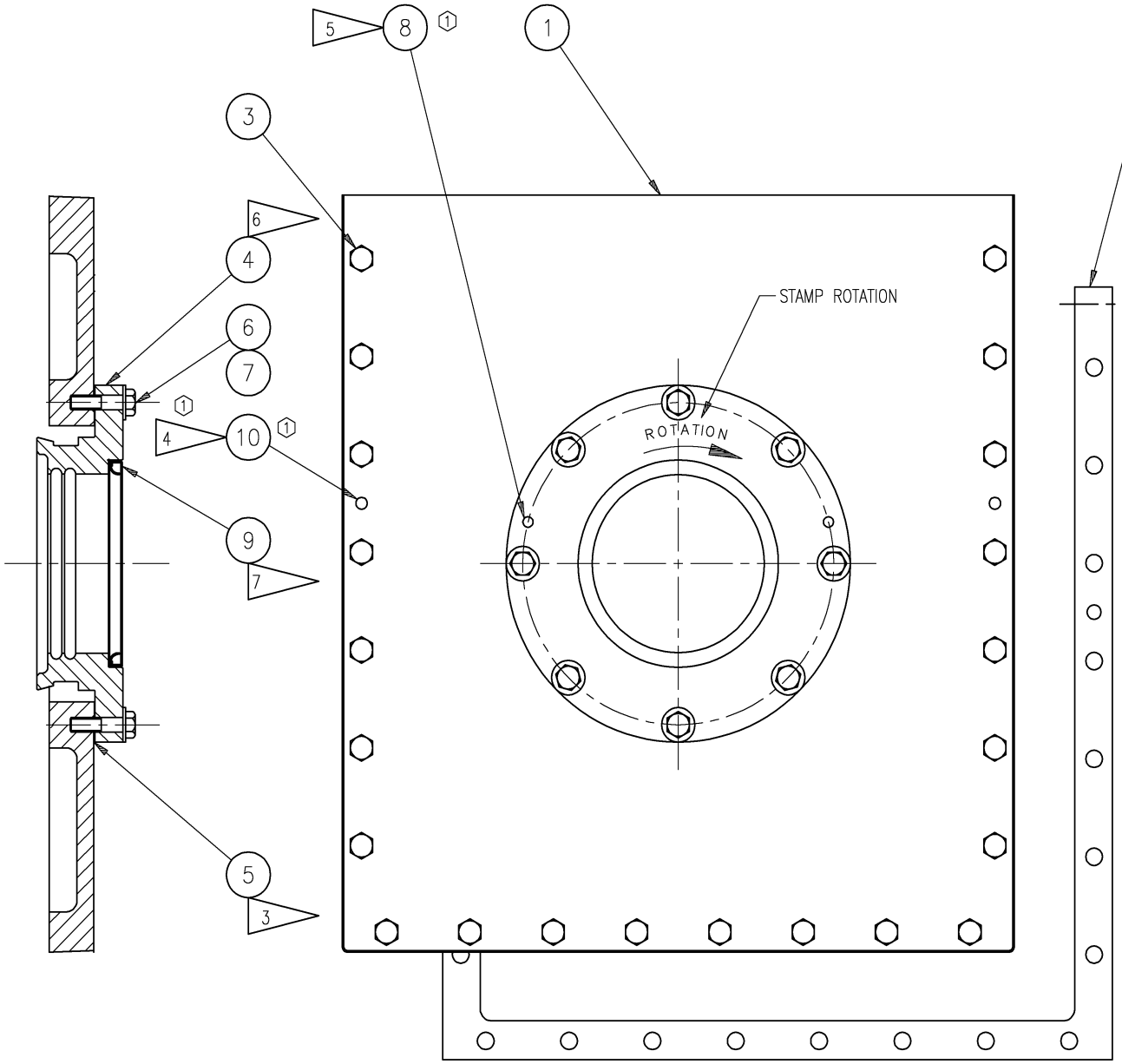
PARTS LIST

GROUP NO. G-0437

AUXILIARY END COVER
JGW/2, JGR/2, JGJ/2
REF. DRWG. A-6312

ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
001	C-0149	1	AUX. END COVER, JGR:W:J/2
002	B-0298	1	GASKET,RET,16-25/32X15-1/16X32
003	FC0102DI	20	HEX HD.CAP. 5/16-18 X 1-1/2 G5
004	FP0512FH	2	THD.TAPER PIN #5 X 1-1/2LG
005	PP0850MB	1	PIPE PLUG,1-1/4NPTF,HEX.SKT,ST
006	A-0827	1	MALE CONN.,ST, 1/4T X 1/4P
007	PT0200CB	18. "	SST.TUBING, 1/4 O.D.X.035 WALL
008	FC0110DH	2	SOC.HD.CAP. 5/16-18 X 1-1/4 G8

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.



NOTES:

1. LOOSEN OR TIGHTEN ALL FASTENERS PER RECOMMENDED PROCEDURES AND TORQUE VALUES IN MANUAL.
2. TRIM NEW GASKET FLUSH WITH TOP OF BASE AFTER INSTALLATION.
3. APPLY AN ANTI-SEIZE LUBRICANT TO BOTH SIDES OF GASKET SURFACES.
4. "F"(.257) DRILL 1-11/16 DEEP (THROUGH COVER AND 11/16 IN FRAME). REAM WITH #5 TAPER REAMER.
5. 15/64 DRILL 1-3/16 DEEP (THROUGH SHAFT SEAL HOUSING AND 9/16 IN COVER). REAM WITH #4 TAPER REAMER.
6. CLEARANCE BETWEEN CRANKSHAFT AND OIL SEAL HOUSING (ITEM#4) TO BE CHECKED WITH .008 FEELER GAUGE ALL AROUND.
7. INSTALL (ITEM #9) DUST SEAL WITH LIP TURNED OUT AS SHOWN.

REV	DESCRIPTION
1	CALLOUT FOR ITEM #8 WAS #10. CALLOUT FOR ITEM #10 WITH #4 NOTE FLAG WAS #8 WITH #5 NOTE FLAG.

1	6456
0	5942

ARIEL CORPORATION
35 BLACKJACK ROAD
MOUNT VERNON, OHIO 43050

ASSEMBLY DWG. No. A-6314

3/20/98

PARTS LIST

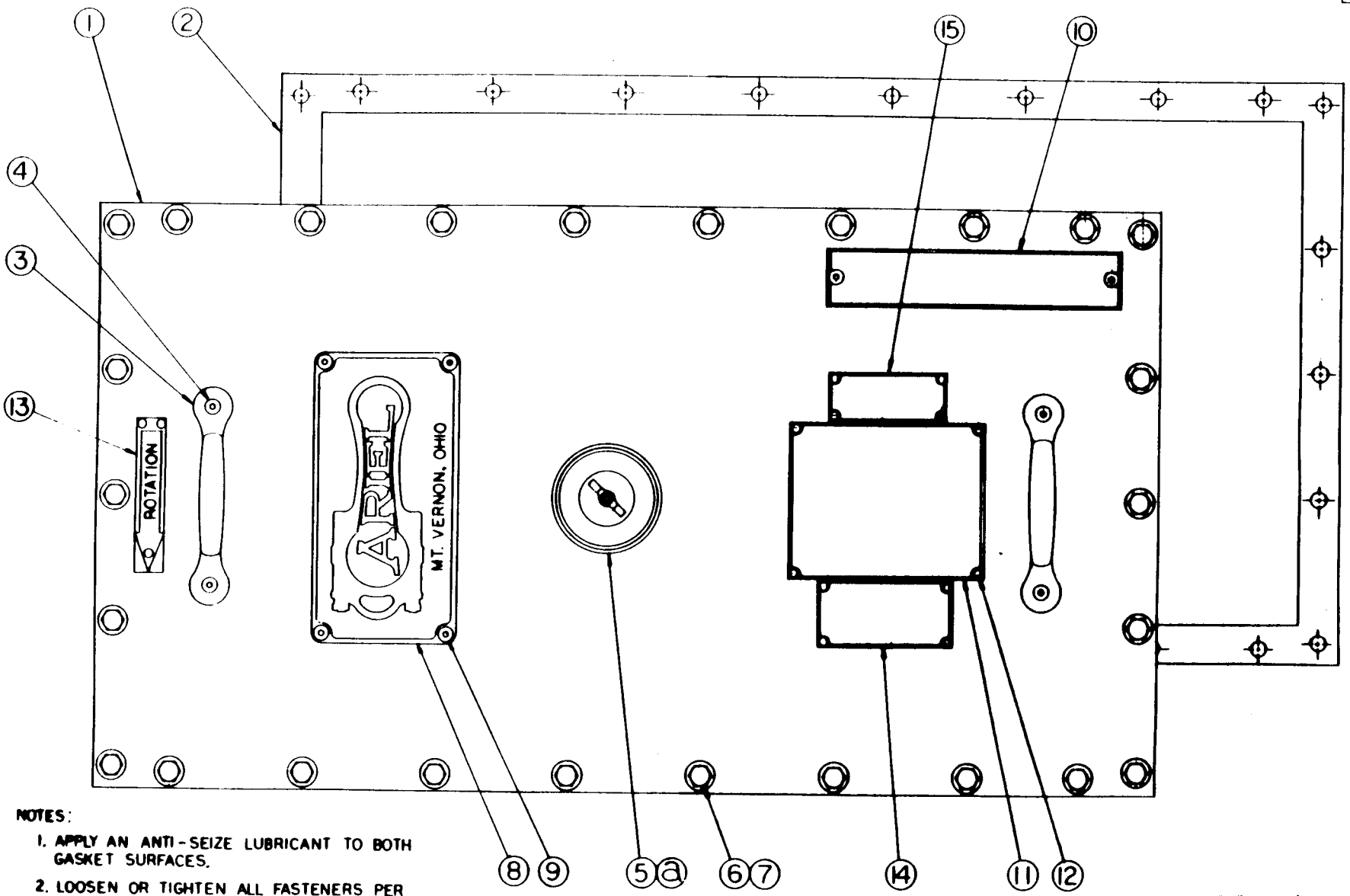
GROUP NO. G-0438

DRIVE END COVER
JGW/2, JGR/2, JGW/4, JGR/4, JGJ/2, JGJ/4
REF. DRWG. A-6314

ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
001	C-0140	1	DRIVE END COVER, JGW:R:J/2:4
002	B-0298	1	GASKET,RET,16-25/32X15-1/16X32
003	FC0102DI	22	HEX HD.CAP. 5/16-18 X 1-1/2 G5
004	C-0141	1	SHAFT SEAL HOUSING,JGR:W:J
005	A-0412	1	GASKET,RND.7-3/4X1/32
006	FC0102DH	8	HEX HD.CAP. 5/16-18 X 1-1/4 G5
007	FW0501CA	8	FLAT WASHER, 5/16 I.D.
008	FP0512EF	2	THD.TAPER PIN #4 X 1"LG
009	A-0245-A	1	DUST SEAL,TFE,JGW:R:J
010	FP0512FH	2	THD.TAPER PIN #5 X 1-1/2LG

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.

G-439



NOTES:

1. APPLY AN ANTI-SEIZE LUBRICANT TO BOTH GASKET SURFACES.
2. LOOSEN OR TIGHTEN ALL FASTENERS PER RECOMMENDED PROCEDURES AND TORQUE VALUES IN MANUAL.

ASSY. DWG. NO.
D-280

3/20/98

PARTS LIST

GROUP NO. G-0439

TOP COVER AND BREATHER
JGW/2, JGR/2
REF. DRWG. D-0280

ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
001	C-0142	1	TOP COVER,JGR:W:J/2
002	C-0159	1	GASKET,RET.27-1/2 X15-1/8X1/32
003	B-0083	2	HANDLE, TOP COVER
004	FC0134BD	4	BUT.HD.CAP. #10-24 X 5/8 SS
005	B-1347	1	BREATHER,1"NPT,FRAME
006	FC0102DH	26	HEX HD.CAP. 5/16-18 X 1-1/4 G5
007	FW0501CA	26	FLAT WASHER, 5/16 I.D.
008	A-0138	1	NAME PLATE,ARIEL LOGO
009	FC0134BC	6	BUT.HD.CAP. #10-24 X 1/2 SS
010	A-0713	1	INFO.PLATE,L.O.FILTER,SPIN-ON
011	A-0459	1	DATA PLATE,FRAME SPECIFICATION
012	FR0570CC	15	DRIVE SCREW, #6 X 1/4 U-TYPE
013	A-0719	1	INFO.PLATE,ROTATION ARROW
014	A-0463	1	CAUTION PLATE,CYLINDER VENTING
015	A-0464	1	CAUTION PLATE,COMPRESSOR VALVE
016	PP0802KD	1	PIPE PLUG,1"NPT,SQ.HD,PLASTIC

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.

3/20/98

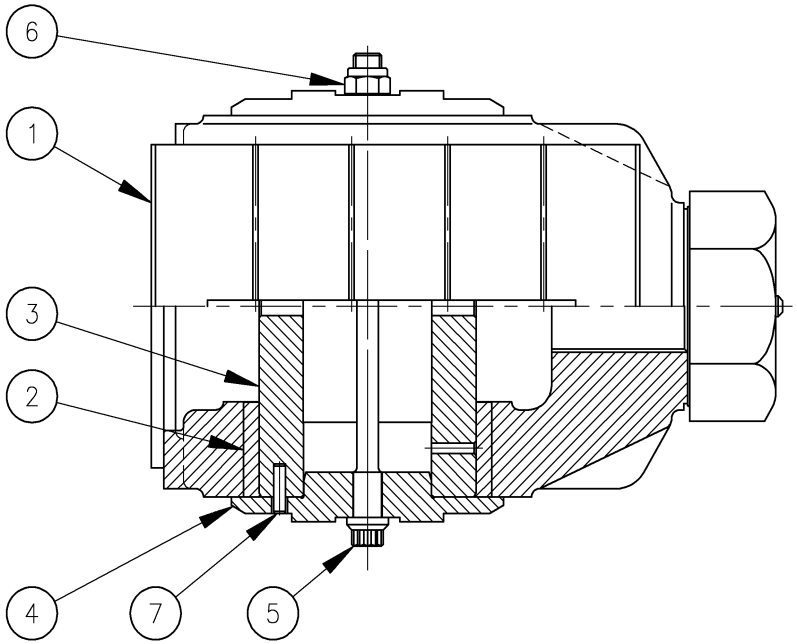
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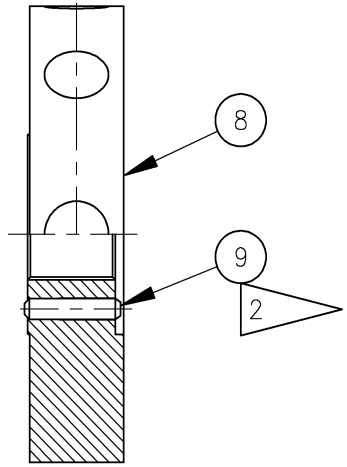
GROUP NO. G-0568

DISTRIBUTION BLOCK, MOUNTING BOLTS
JGR:W:J:H:E:K:T:C:D/2, SINGLE BLOCK
REF. DRWG. N.A.

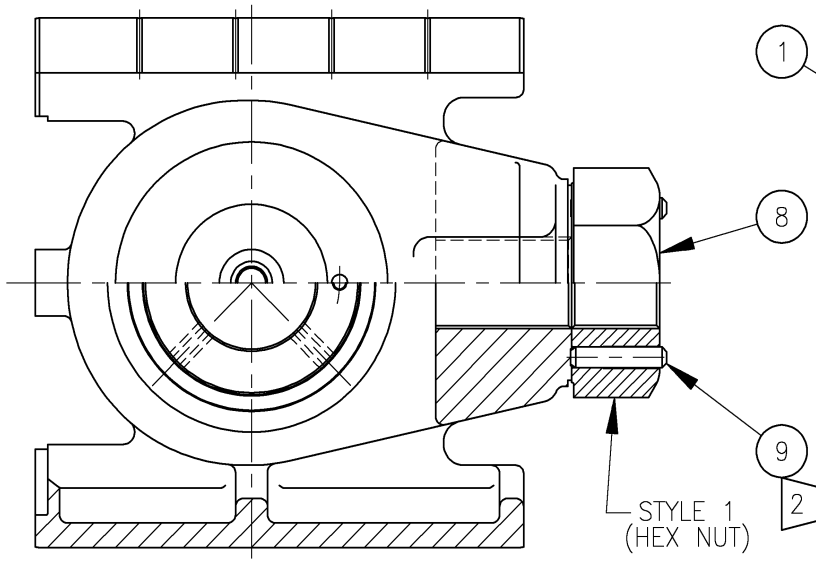
ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
001	FC0102CI	4	HEX HD.CAP. 1/4-20 X 1-1/2 G5

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.

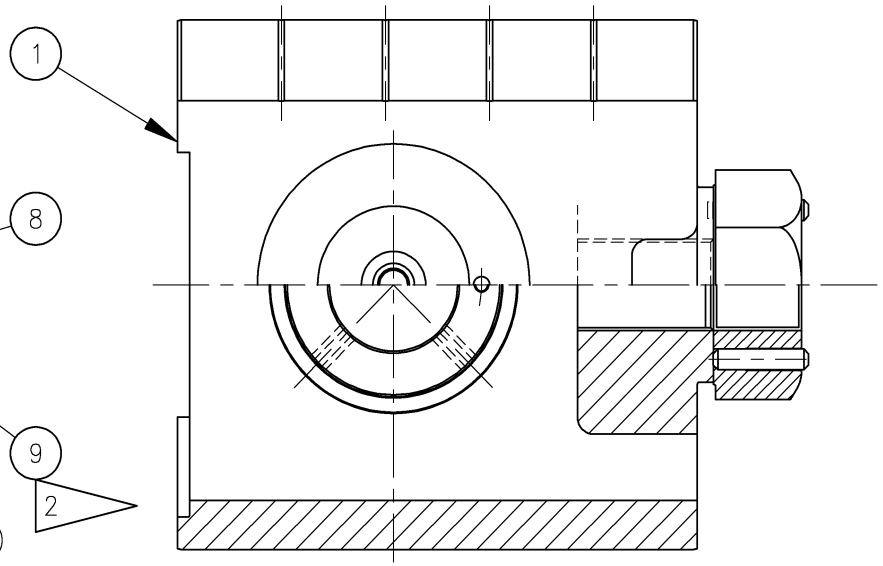




STYLE 2
(ROUND NUT)



STYLE 1 CROSSHEAD



STYLE 2 CROSSHEAD

NOTES:

1. LOOSEN OR TIGHTEN ALL FASTENERS PER RECOMMENDED PROCEDURES AND TORQUE VALUES IN MANUAL.

2 LOOSEN TWO SET SCREWS (ITEM #9) BEFORE REMOVING CROSSHEAD NUT (ITEM #8). SET SCREWS ARE TO BE SCREWED IN AND TIGHTENED (TO LOCK) ONLY AFTER CROSSHEAD NUT (ITEM #8) HAS BEEN TORQUED TO SPECIFICATIONS.

REV	DESCRIPTION

0 6859

ARIEL CORPORATION
35 BLACKJACK ROAD
MOUNT VERNON, OHIO 43050

ASSEMBLY DWG. No. A-6873

3/20/98

PARTS LIST

GROUP NO. G-0600

CROSSHEAD, PIN, END PLATES AND
BALANCE NUT JGR & JGJ
REF. DRWG. A-6873

ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
001	CROSSHEAD	0	FOR PART NO. SEE COVER SHEET
001	D-0239	0	CROSSHEAD,LGT,DI, 32.3#,JGR:J
001	D-0240	0	CROSSHEAD,MED,DI, 46.2#,JGR:J
001	D-0241	0	CROSSHEAD,HVY,DI, 54.3#,JGR:J
001	D-0458	0	CROSSHEAD,HVY,BZ, 65.0#JGR:W:J
002	B-0301	0	SLEEVE BEARING,BZ,X-HD,JGR:J
003	B-0332	1	CROSSHEAD PIN,JGR:W:J
004	A-0431	2	END PLATE,CROSSHEAD PIN, R:W:J
005	A-0419	1	12 PT. CAP. 7/16-20 X 7 LG
006	FN0467FA	1	SELF-LOCK NUT,7/16-20,FLEXLOC
007	FP0505EE	2	ROLL PIN,3/16 X 3/4
008	B-0314	0	CROSSHEAD NUT, 2.4#HEX,JGR:W:J
008	B-0315	0	CROSSHEAD NUT, 6.4#RND,JGR:W:J
008	B-0316	0	CROSSHEAD NUT,10.4#RND,JGR:W:J
008	B-0317-A	0	CROSSHEAD NUT,14.4#RND,JGR:W:J
008	B-0422	0	CROSSHEAD NUT, 8.4#RND,JGR:W:J
008	B-0423	0	CROSSHEAD NUT,12.4#RND,JGR:W:J
008	B-0468	0	CROSSHEAD NUT,16.4#RND,JGR:W:J
008	B-0497	0	CROSSHEAD NUT, 4.4#RND,JGR:W:J
008	B-0686	0	CROSSHEAD NUT,24.4#RND,JGR:W:J
008	B-0688	0	CROSSHEAD NUT,26.4#RND,JGR:W:J
008	B-0689	0	CROSSHEAD NUT,28.4#RND,JGR:W:J

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.

3/20/98

PARTS LIST

008	B-0690	0	CROSSHEAD NUT,22.4#RND,JGR:W:J
008	B-0990	0	CROSSHEAD NUT,20.4#RND,JGR:W:J
008	B-0991	0	CROSSHEAD NUT,18.4#RND,JGR:W:J
008	CROSSHEAD NUT	0	FOR PART NO. SEE COVER SHEET
009	FS0455DI	0	CUP PT.S-SCRW,NY,5/16-24X1-1/2

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.

3/20/98

PARTS LIST

GROUP NO. G-0603

SPECIAL TOOLS
JGW AND JGR
REF. DRWG. N.A.

ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
001	A-0798	1	TOOL BOX
002	TA0100GA	6	ALLEN WRENCH, 5/32 SHORT ARM
003	TA0100EA	12	ALLEN WRENCH, 1/8 SHORT ARM
004	TA0100HA	4	ALLEN WRENCH, 3/16 SHORT ARM
005	TA0100JA	4	ALLEN WRENCH, 1/4 SHORT ARM
006	C-0195	1	CROSSHEAD NUT WRENCH, 3 INCH
007	B-0324	1	PEG WRENCH,1"
008	A-0424	1	PISTON NUT SPANNER, JGR:W:J
009	A-0626	1	VALVE PULLER, 5/8 X 3/4 UNF
010	A-0409	1	VALVE PULLER, 1/4 X 3/8 UNF
011	A-0135	1	VALVE PULLER, 5/16 X 1/2 UNF
012	B-1240	1	PISTON TURNING TOOL SUPT. ASSY
013	D-2159	1	TORQUE CHART, ALL UNITS
014	A-2289	1	VALVE PULLER TOOL FOR'CT'VALVE

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.

3/20/98

PARTS LIST

GROUP NO. G-0763-1

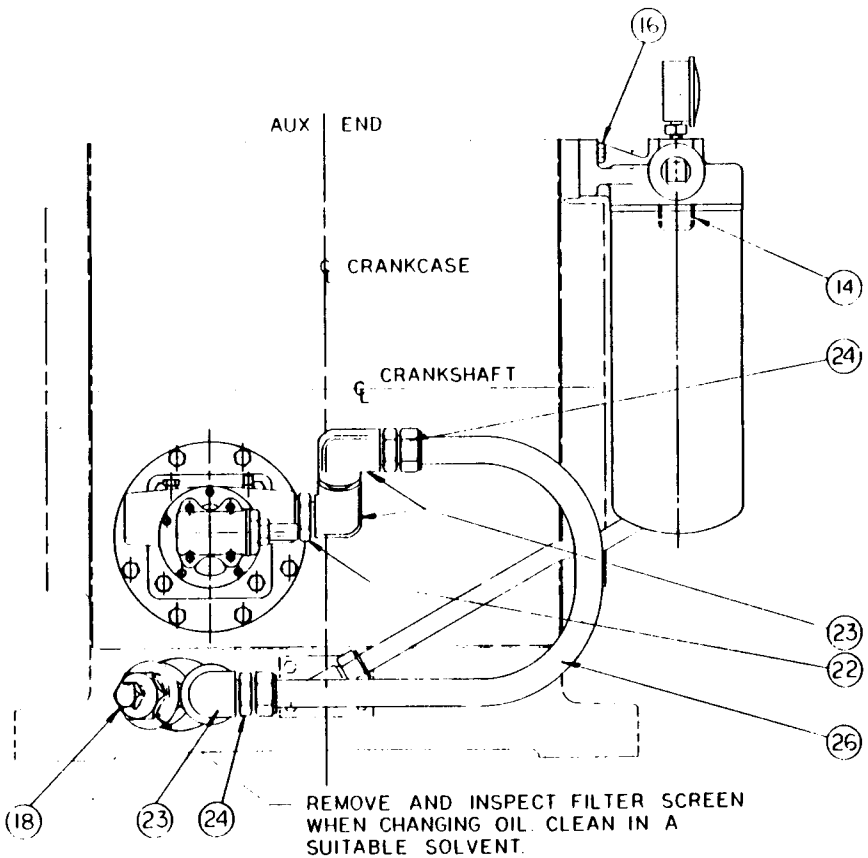
LUBE OIL COOLER, UNMOUNTED
SHELL & TUBES
JGR:W:J/4 AND JGH:E:K:T/2
REF. DRWG. N.A.

ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
001	B-1962	1	L.O.COOLER, SHELL & TUBES

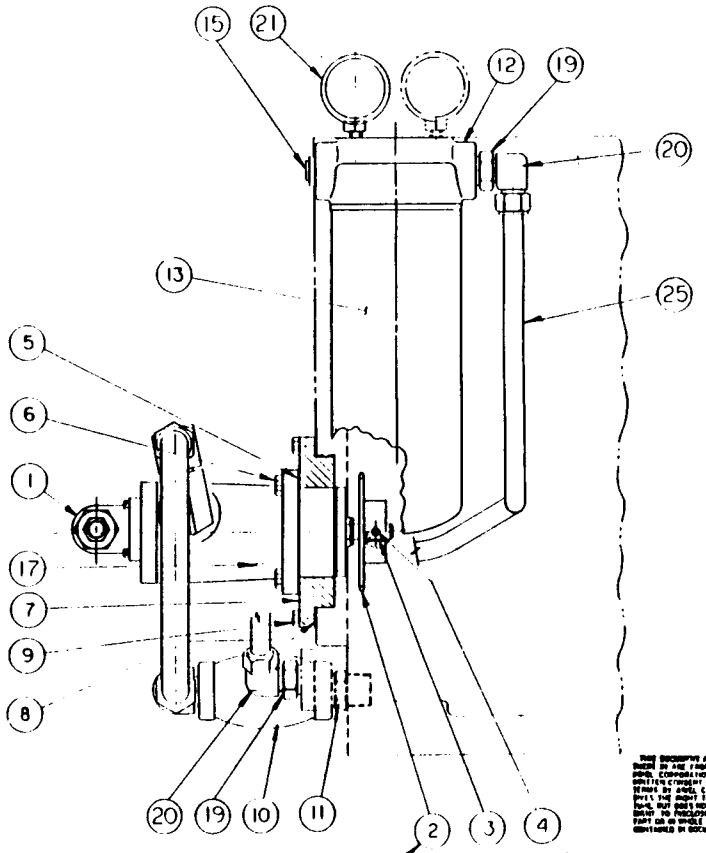
WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.

G-8301
G-2275

NOTE: LOOSEN OR TIGHTEN ALL BOLTS PER RECOMMENDED PROCEDURES AND TORQUE VALUES IN MANUAL.
APPLY AN ANTI SEIZE LUBRICANT TO GASKET SURFACES.



REMOVE AND INSPECT FILTER SCREEN WHEN CHANGING OIL. CLEAN IN A SUITABLE SOLVENT.



ALIGN SPROCKET WITH CRANKSHAFT SPROCKET AND TIGHTEN SETSCREW.

ARIEL CORPORATION
MT. VERNON, OHIO
ASSY. DRWG NUMBER D-1227

LUBE OIL PUMP & FILTER ASSEMBLY

3/20/98

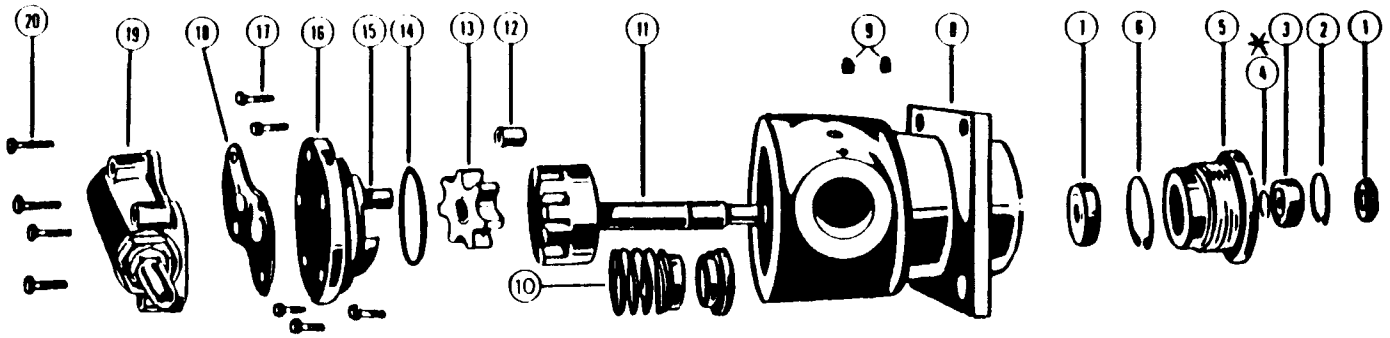
PARTS LIST

GROUP NO. G-0830-1

LUBE OIL PUMP, STRAINER, FILTER
JGW/2, JGR/2, JGJ/2
REF. DRWG. D-1227

ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
001	C-0058	1	LUBE OIL PUMP,JG4,W:R:J/2,JGS
002	A-0765	1	SPKT,RLR.CHAIN,L.O.PUMP,30T
003	FK0360AA	1	WOODRUFF KEY,#204,1/2D X 1/16
004	FS0455CE	1	CUP PT.S-SCRW,NY, 1/4-28 X 3/4
005	A-0115	1	GASKET,SQR.4 X 4 X 1/32
006	FC0107EG	4	HEX HD.CAP. 3/8-24 X 1 G5
007	B-0249	1	L.O.PUMP ADAPTOR,VIK,JGR:W/2
008	A-0411	1	GASKET,RND,L.O.PUMP,R:W/2,1/32
009	FC0102DG	8	HEX HD.CAP. 5/16-18 X 1 G5
010	A-0173	1	LUBE OIL STRAINER, 3/4 NPT
011	A-0850	1	HEX PIPE NIPPLE, 3/4P
012	C-0394	1	L.O.FILTER HEAD,SINGLE L/R
013	A-0661	1	L.O.FILTER ELEMENT,SPIN-ON
014	A-0660	0	STUD,SPIN-ON L.O.FILTER
015	PP0802ID	1	PIPE PLUG,3/4NPT,SQ.HD,PLASTIC
016	FC0102EG	2	HEX HD.CAP. 3/8-16 X 1 G5
017	A-5257	1	DRIVE PLUG, VIKING WEEPHOLE
018	PP0810GB	1	PIPE PLUG,1/2NPT,HEX.HD,STL.
019	A-0844	2	HEX RED.BUSH,ST, 3/4M X 1/2F
020	A-0860	2	MALE ELBOW,ST, 5/8T X 1/2P
021	A-0261	1	L.O.PRESS.GAUGE,ASHCROFT
022	A-0863	1	HEX RED.BUSH,ST, 1M X 3/4F

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.



ITEM	PART NO. ARIEL	PART NO. VIKING	DESCRIPTION
1	A-5047	2-505-002-376	LOCKNUT
2	A-5048	2-555-005-375	SNAP RING, OUTER
3	A-5049	2-055-005-375	BALL BEARING, OUTER
5	A-5050	3-060-037-956	BRG. HOUSING & SETSCREWS
6	A-5051	2-555-006-375	SNAP RING, INNER
7	A-5052	2-055-006-375	BALL BEARING, INNER
8	A-5053	2-183-205-100	CASING
9	A-5054	2-542-004-376	PIPE PLUG 1/4" (2 REQD)
10	A-5055	2-473-003-999	MECHANICAL SEAL
11	A-5056	3-564-218-012	ROTOR & SHAFT (KEYED)
12	A-5057	2-091-004-880	IDLER BUSHING
13	A-5058	3-417-200-553	IDLER & BUSHING
14	A-5059	2-571-001-860	O-RING FOR HEAD
15	A-5060	2-431-001-281	IDLER PIN
16	A-5061	3-366-200-015	HEAD & IDLER PIN
17	A-5062	2-153-002-255	CAPSCREW FOR HEAD (6)
18	A-5063	2-316-003-806-30	RELIEF VALVE GASKET
19	A-5064	3-795-200	INTERNAL RELIEF VALVE
20	A-5065	2-150-004-255	CAPSCREW FOR VALVE (4)
21	A-5066	3-060-010-999	BRG. HOUSING ASSY.

* NOTE: ITEM 4 NOT USED ON GG95 PUMP
1) SEE C-58 FOR DIMENSION DETAIL

ARIEL CORPORATION
MT. VERNON, OHIO

LUBE OIL PUMP ASSY.
VIKING GG95

MATERIAL	
DRAWN JEC 6-9-75	PART NO. A-233
CHECKED JEB 6-12-75	
SCALE	

2 | 3045 | 2-12 | 1 | 0

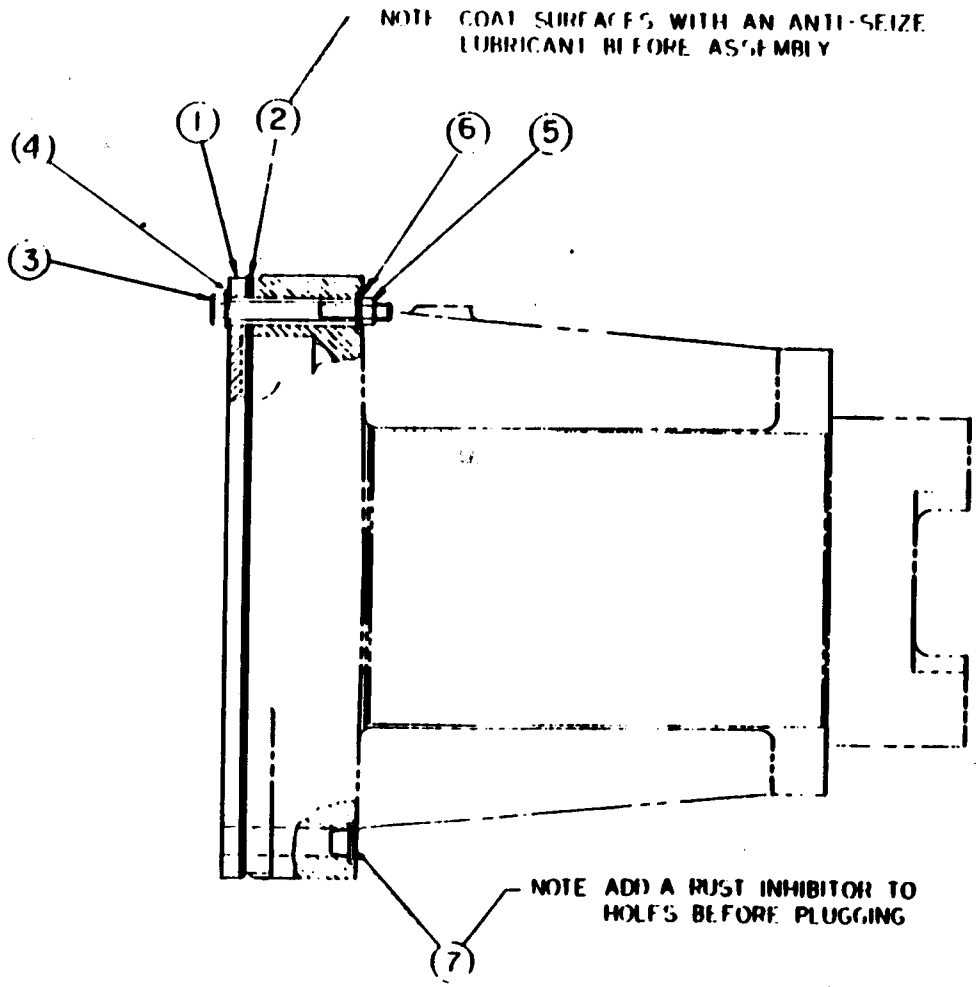
3/20/98

PARTS LIST

023	A-0861	3	STREET ELBOW,ST, 3/4 NPT
023	PP0802KD	1	PIPE PLUG,1"NPT,SQ.HD,PLASTIC
024	A-0862	2	MALE CONN.,ST, 7/8T X 3/4P
025	PT0200GC	45. "	SST.TUBING, 5/8 O.D.X.049 WALL
026	PT0200IC	60. "	SST.TUBING, 7/8 O.D.X.049 WALL

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.

G-877



2 4045

ASSY DWG NO
D-569

3/20/98

PARTS LIST

GROUP NO. G-0877

CROSSHEAD GUIDE FLANGE COVER
JGR UNITS SHIPPING WITH OUT CYLINDER
FOR TRANSIT AND STORAGE USE ONLY
REF. DRWG. D-0569

ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
001	B-0582	1	X-HEAD GUIDE COVER,JGR:H:E
002	B-0630	1	GASKET,RND.16-1/2 X 3/32
003	FC0103GT	6	HEX HD.CAP. 1/2-13 X 4-1/2 G2
004	FW0501GA	6	FLAT WASHER, 1/2
005	FN0450GB	6	HEX NUT,STL,Z/PL,1/2-13
006	FW0500GA	6	FLAT WASHER, 1/2 SAE
007	A-2564	6	PLUG-PLASTIC 8X11/16"HOLE, RED

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.

3/20/98

PARTS LIST

GROUP NO. G-1085

FORCE FEED LUBRICATION TUBING FOR
JGR:W/2 WITH DOUBLE ACTING CYLINDERS
REF. DRWG. N.A.

ITEM NUMBER	PART NUMBER	QUANTITY		DESCRIPTION
001	PT0200CB	270.	"	SST.TUBING, 1/4 O.D.X.035 WALL
007	A-0886	2		BULK.UNION,ST 1/4T
008	A-0401	2		BRACKET,BULKHEAD UNION
009	FC0134CC	2		BUT.HD.CAP. 1/4-20 X 1/2 SS

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.

3/20/98

PARTS LIST

GROUP NO. G-1103

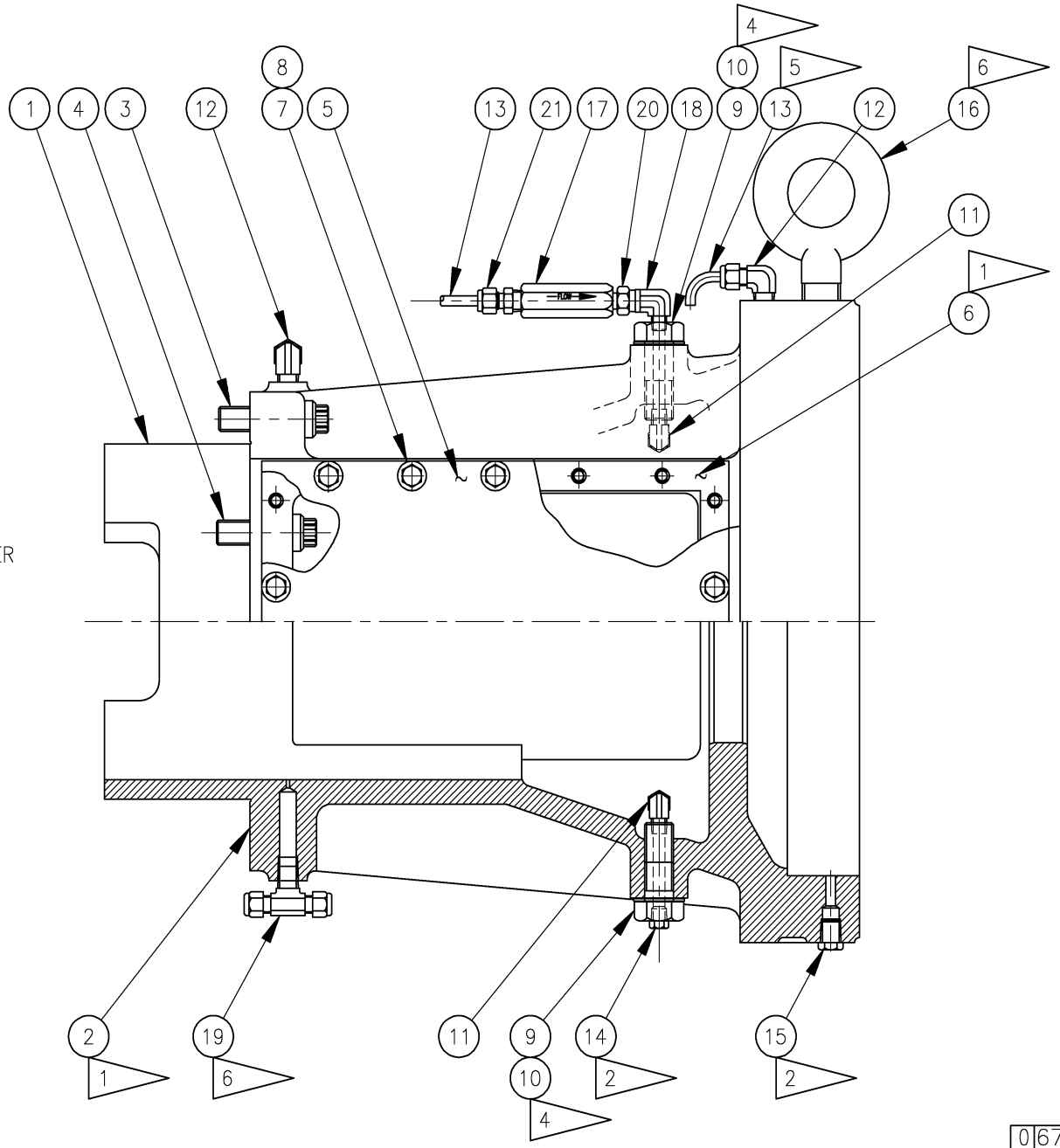
OIL PRESSURE GUAGE, ASHCROFT
REF. DRWG. N.A.

ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
001	A-0261	1	L.O.PRESS.GAUGE,ASHCROFT

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.

NOTES:

1. APPLY AN ANTI–SEIZE LUBRICANT TO GASKET SURFACES.
2. REMOVE SHIPPING PLUGS AND TUBE TO A SAFE ATMOSPHERE, OR DRAIN AS APPROPRIATE.
3. – LOOSEN OR TIGHTEN ALL FASTENERS PER RECOMMENDED PROCEDURES AND TORQUE VALUES IN MANUAL.
4. OIL FACES OF STATO–SEAL BEFORE INSTALLING TO PREVENT ABRASION.
5. VENTS TO BE TUBED TO APPROPRIATE AND SAFE ATMOSPHERE
6. SHOWN ROTATED 90° OUT OF TRUE POSITION.



REV	DESCRIPTION

06766

ARIEL CORPORATION
35 BLACKJACK ROAD
MOUNT VERNON, OHIO 43050

ASSEMBLY DWG. No. A–6791

3/27/98

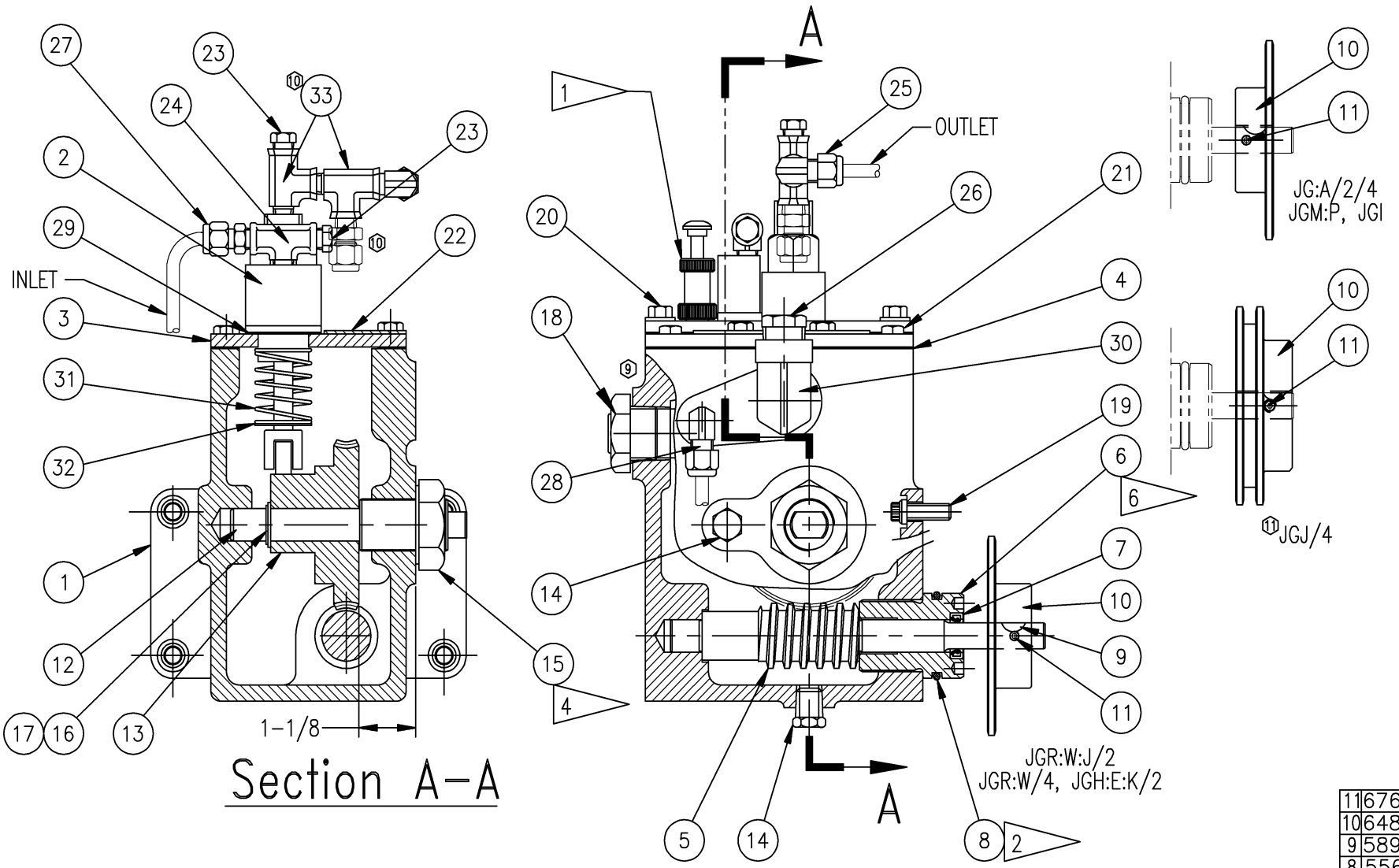
PARTS LIST

GROUP NO. G-0555

CROSSHEAD GUIDE
JGR:RJ:HJ & 8-7/8 JGW CLASS CYLINDERS
REF. DRWG. A-6791

ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
001	D-0223	1	X-HD.GUIDE,STD,JGR
002	B-0299	1	GASKET,RET.12-1/4 X 12 X 1/64
003	FC0120HL	8	12 PT. CAP. 5/8-11 X 2-1/4 G8
004	FC0120HK	4	12 PT. CAP. 5/8-11 X 2 G8
005	B-0418	2	GUIDE CVR,JGR
006	B-0419	2	GASKET,RET.12-1/4 X 8-1/8X1/32
007	FC0102DG	36	HEX HD.CAP. 5/16-18 X 1 G5
008	FW0501CA	36	FLAT WASHER, 5/16 I.D.
009	A-0415	2	LUB. FITTING, 3/4-10 X 2
010	FW0550IA	2	STAT-O-SEAL, 3/4 DIA., BLACK
011	A-0815	2	MALE ELBOW,ST, 1/4T X 1/8P
012	A-0800	2	MALE ELBOW,ST, 1/4T X 1/4P
013	PT0200CB	48 "	SST.TUBING, 1/4 O.D.X.035 WALL
014	PP0802RD	1	PIPE PLUG,1/8NPT,SQ.HD.PLASTIC
015	PP0802CD	1	PIPE PLUG,1/4NPT,SQ.HD,PLASTIC
016	A-2205	1	EYEBOLT,1"-8 UNC, SHORT LG
017	A-3780	1	CHK.VLV,DOU.BALL SOFT SEAT SST
018	A-0804	1	STREET ELBOW,ST, 1/8 P
019	A-0808	1	M.BRANCH T,ST, 1/4T X 1/4P
020	A-2114	1	HEX PIPE NIPPLE 1/4X1/8
021	A-0827	1	MALE CONN.,ST, 1/4T X 1/4P

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.



NOTES:

1. SCREW IN ADJUSTMENT KNOB TO REDUCE FEED, SCREW ADJUSTMENT KNOB OUT TO INCREASE FEED.
2. OIL O-RING BEFORE INSTALLING.
3. SEE CYLINDER LUBRICATION SHEET FOR CORRECT PUMP SETTING (DISTRIBUTION BLOCK CYCLE INDICATOR TIMING).
4. TORQUE TO 75 FT/LB.
5. LOOSEN OR TIGHTEN ALL FASTENERS PER RECOMMENDED PROCEDURES AND TORQUE VALUES IN MANUAL.
6. TORQUE TO 70 FT/LBS.

11	6765
10	6487
9	5895
8	5561
7	4752
6	4428
5	4297
4	4249
3	4225
2	3985
1	3882
0	3739

REV	DESCRIPTION
11	"JGC/2" WAS REMOVED FROM JGJ/4 SPROCKET DESCRIPTION, NOW SHOWN ON A-3101. NOTE #6 WAS NOTE #7.

ARIEL CORPORATION
35 BLACKJACK ROAD
MOUNT VERNON, OHIO 43050

ASSEMBLY DWG. No. D-1106

3/20/98

PARTS LIST

GROUP NO. G-1766

FORCE FEED LUBRICATOR, ARIEL
1/4" DIA. PUMP JGW/2, JGR/2, JGJ/2
REF. DRWG. D-1106

ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
001	D-2000	1	FF LUBR,1 PUMP TANK ASSY
002	A-1764	1	F.F.LUBRICATOR PUMP 1/4 TRABON
003	A-2346	0	TOP COVER SINGLE F.F.LUBE BOX
004	A-2348	0	GSKT,ARL.SNGL.LUB.BOX CVR,1/32
005	A-2360	0	WORM SHAFT,FF LUBR 1/2D.E.
006	A-5638	0	HOUSING BRG FF LUBE BOX LH
007	A-3911	0	SHAFT OIL SEAL
008	A-0030	0	O-RING,VT, 1.637 O.D.X.139
009	FK0360AA	1	WOODRUFF KEY,#204,1/2D X 1/16
010	A-0106	1	SPROCKET, F.F/L.O.PUMP,30T
011	FS0455CE	1	CUP PT.S-SCRW,NY, 1/4-28 X 3/4
012	A-2352	0	ADJ SHAFT-SINGLE LUBE BOX
013	B-1176	0	CAM/WORM GEAR,1-PUMP F.F.LUBR.
014	PP0810CB	2	PIPE PLUG,1/4NPT,HEX.HD,STL.
015	FN0457KA	0	HEX NUT,JAM,STL,1"-14
016	A-2359	0	SNAP RING,ST,RADIAL ASSY,O.625
017	A-2358	0	FLAT WASHER,SUPPORT,518,HARD
018	A-5641	0	SIGHT GLASS,3/4" NPT
019	FC0120DF	4	12 PT. CAP. 5/16-18 X 7/8 G8
020	FC0102CG	0	HEX HD.CAP. 1/4-20 X 1 G5
021	FC0102CE	0	HEX HD.CAP. 1/4-20 X 3/4 G5
022	A-3854	1	DATA PLATE,OIL FEED ADJ. ARIEL

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.

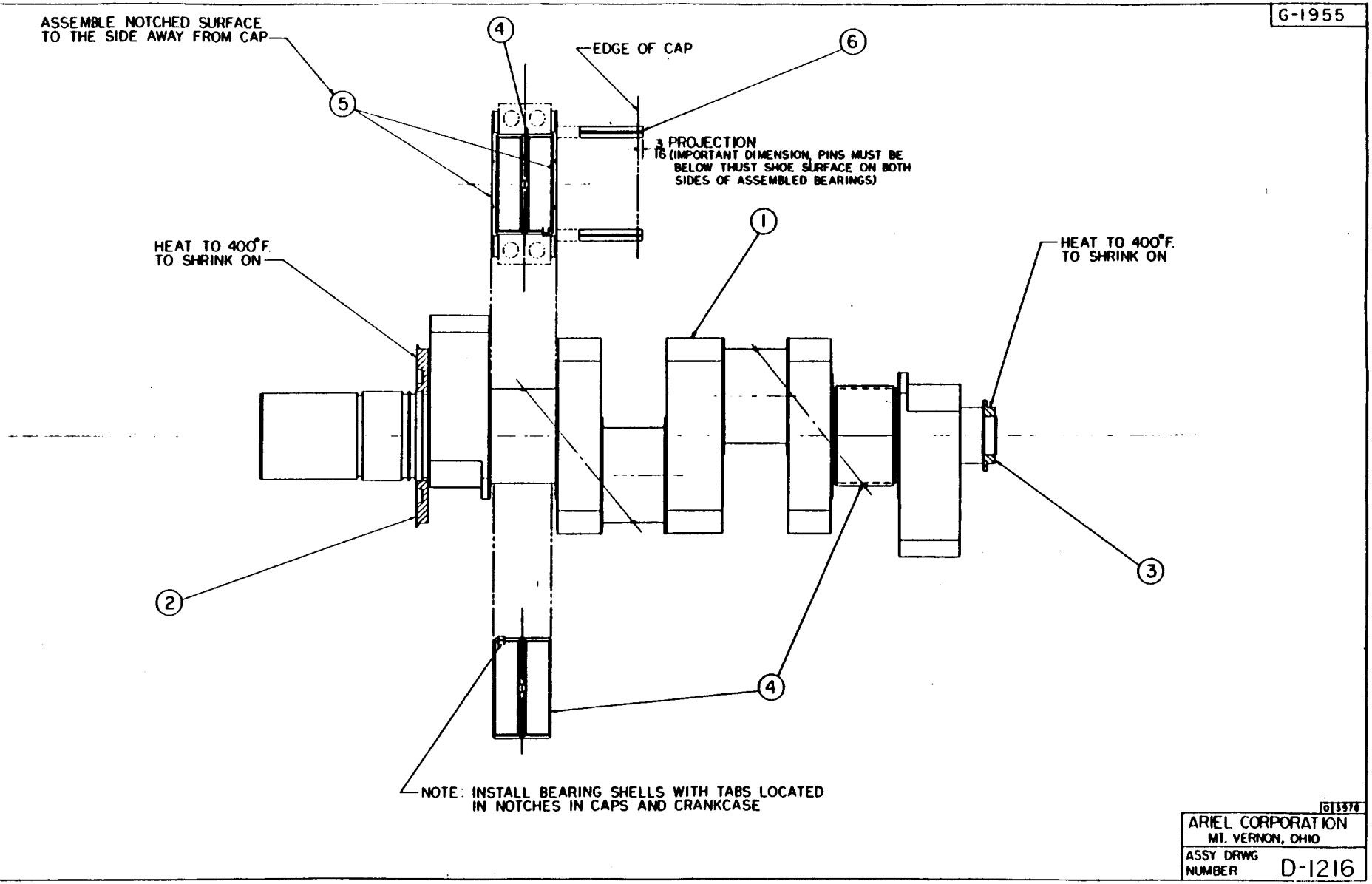
3/20/98

PARTS LIST

023	PP0810RB	2	PIPE PLUG,1/8NPT,HEX.HD,STL.
024	A-0846	1	M.BRANCH T,ST, 1/8P
025	A-0815	1	MALE ELBOW,ST, 1/4T X 1/8P
026	PP0810GB	1	PIPE PLUG,1/2NPT,HEX.HD,STL.
027	A-0830	1	MALE CONN.,ST, 1/4T X 1/8P
028	A-0800	1	MALE ELBOW,ST, 1/4T X 1/4P
029	A-5255	0	F. F. LUB. PUMP GASKET
030	A-0843	1	STREET ELBOW,ST, 1/2P
031	A-3148	0	SPRING RETAINER,F.F.PUMP,TRABN
032	A-3149	0	SPRING,F.F.PUMP,TRABON
033	A-0882#02	2	STREET TEE,ST, 1/8P
099	AD-1751	0	FF LUBR ASSY, ,1/4 1/2S

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.

G-1955



0|3576

ARIEL CORPORATION
MT. VERNON, OHIO

ASSY DRWG NUMBER D-1216

3/20/98

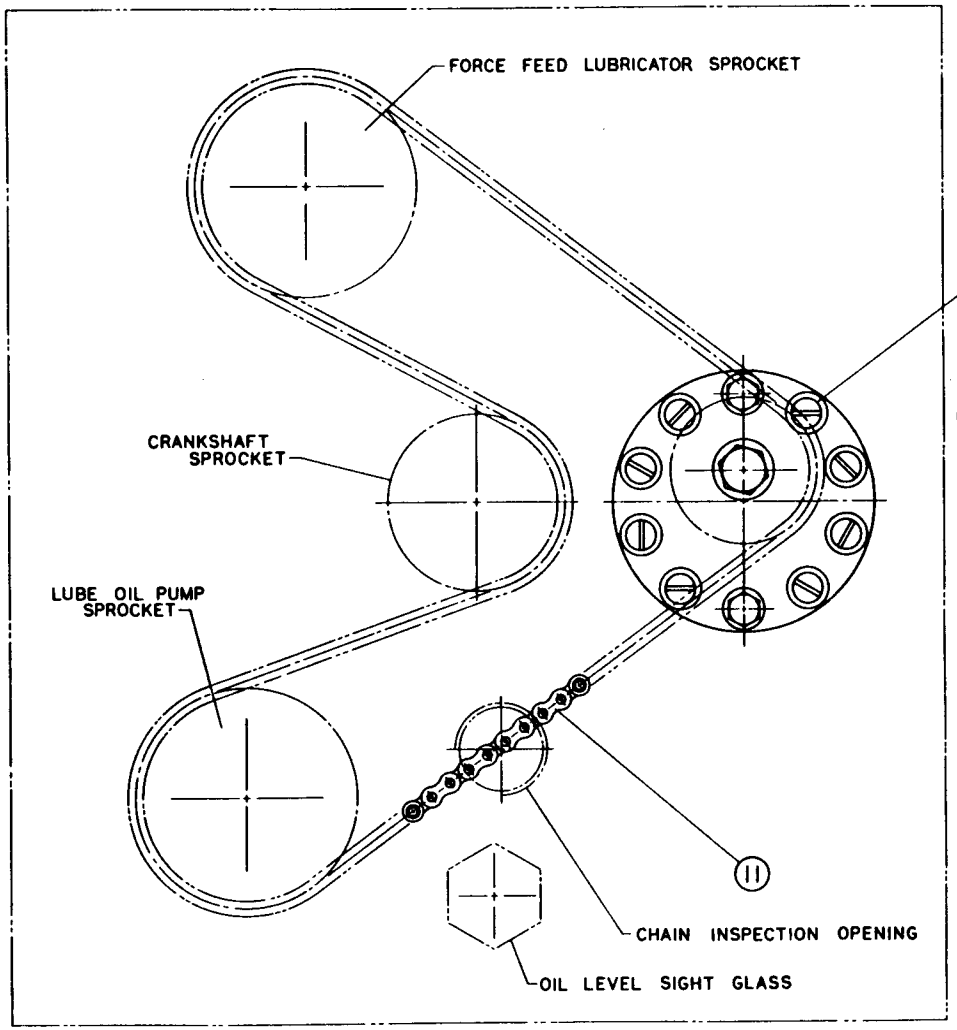
PARTS LIST

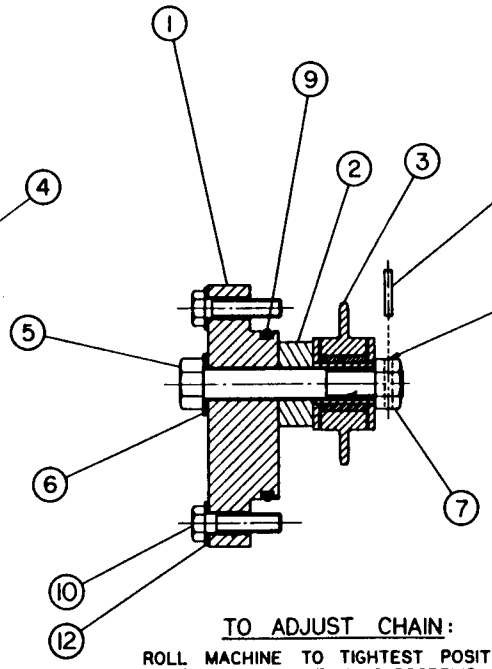
GROUP NO. G-1955

CRANKSHAFT, MAIN BEARINGS, THRUST PLATES
JGJ/2, 3-1/2" STROKE
REF. DRWG. D-1216

ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
001	AD-1194	1	CRANKSHAFT ASSY,FS,JGJ/2
002	B-0248	0	OIL SLINGER,JGR:W:J/2/4
003	A-0003	0	SPKT,RLR.CHAIN,CSHAFT,#35-24T
004	B-0245	4	SLEEVE BEARING,H/S,MAIN,R:W:J
005	B-0304	2	THRUST PLATE,BZ,JGR:W:J
006	FP0510JN	2	SPIROL PIN,1/2 X 2-3/4

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.





USE NEW CAPSCREW AND NUT WHEN REPLACING IDLER SPROCKET

TO ADJUST CHAIN:

ROLL MACHINE TO TIGHTEST POSITION OF CHAIN (CHECK AT INSPECTION OPENING). REMOVE TWO CAPSCREWS AND EIGHT PLUGS FROM ECCENTRIC CAP. ROTATE CAP 6° CLOCKWISE TO LINE UP TWO NEW CAPSCREW HOLES. (IF THIS MAKES CHAIN TOO TIGHT, TRY TURNING CAP AROUND IN A COUNTER CLOCKWISE DIRECTION FOR A DIFFERENT HOLE LINE-UP) TIGHTEN TWO CAPSCREWS AND ROLL MACHINE TO CHECK TIGHTNESS IN A NUMBER OF POSITIONS (CHAIN AT TIGHTEST POSITION SHOULD HAVE VERY LITTLE SLACK BUT SHOULD NOT FEEL DEAD TIGHT). REPLACE PLUGS IN CAP TO KEEP DIRT OUT OF TAPPED HOLES IN END COVER.

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ARIEL CORPORATION MT. VERNON, OHIO	
CHAIN DRIVE ASS'Y. TWO THROW FRAME	
JAN. 1, 1979	D-284

3/20/98

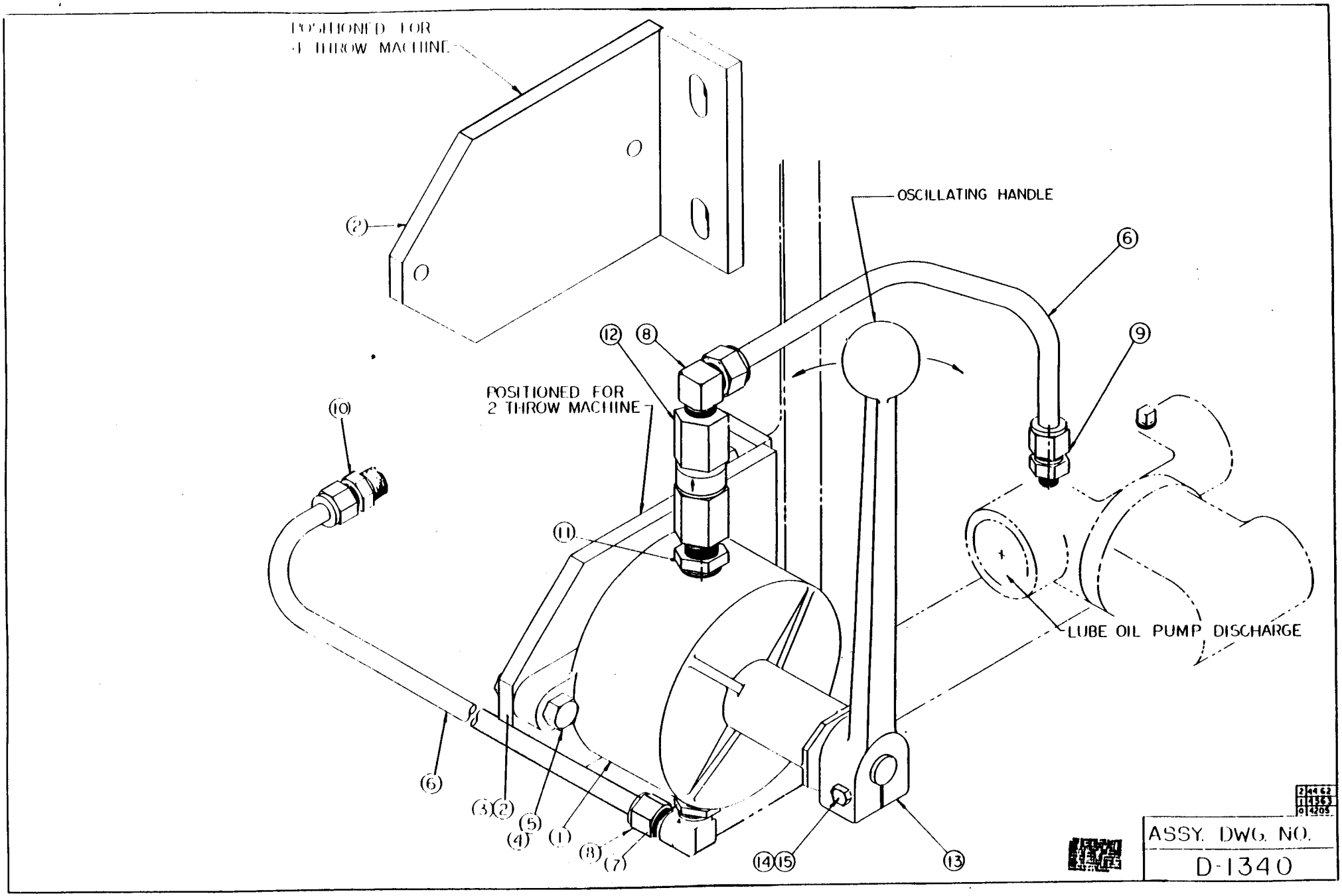
PARTS LIST

GROUP NO. G-1957

CHAIN DRIVE
JGJ/2
REF. DRWG. D-0284

ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
001	B-0030	1	ECCENTRIC VERNIER CAP
002	A-0420	1	IDLER SPACER
003	A-0085	1	SPKT,RLR.CHAIN,IDLER,#35-20T
004	A-0109	8	MACHINE SCREW PLUG,PL, 7/16-14
005	FC0107GP	1	HEX HD.CAP. 1/2-20 X 3-1/4 G5
006	FW0550GA	1	STAT-O-SEAL, 1/2 DIA., BLACK
007	FN0455GB	1	HEX NUT,STL,Z/PL,1/2-20
008	FP0505CE	1	ROLL PIN, 1/8 X 3/4
009	A-0010	1	O-RING,VT, 2.625 O.D.X.139
010	FC0100DH	2	HEX HD.CAP. 5/16-18 X 1-1/4 G9
011	A-0421	1	ROLLER CHAIN,35TX122,JGR:W:J/2
012	FW0501CA	2	FLAT WASHER, 5/16 I.D.

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.



ASSY. DWG. NO.
D-1340

3/20/98

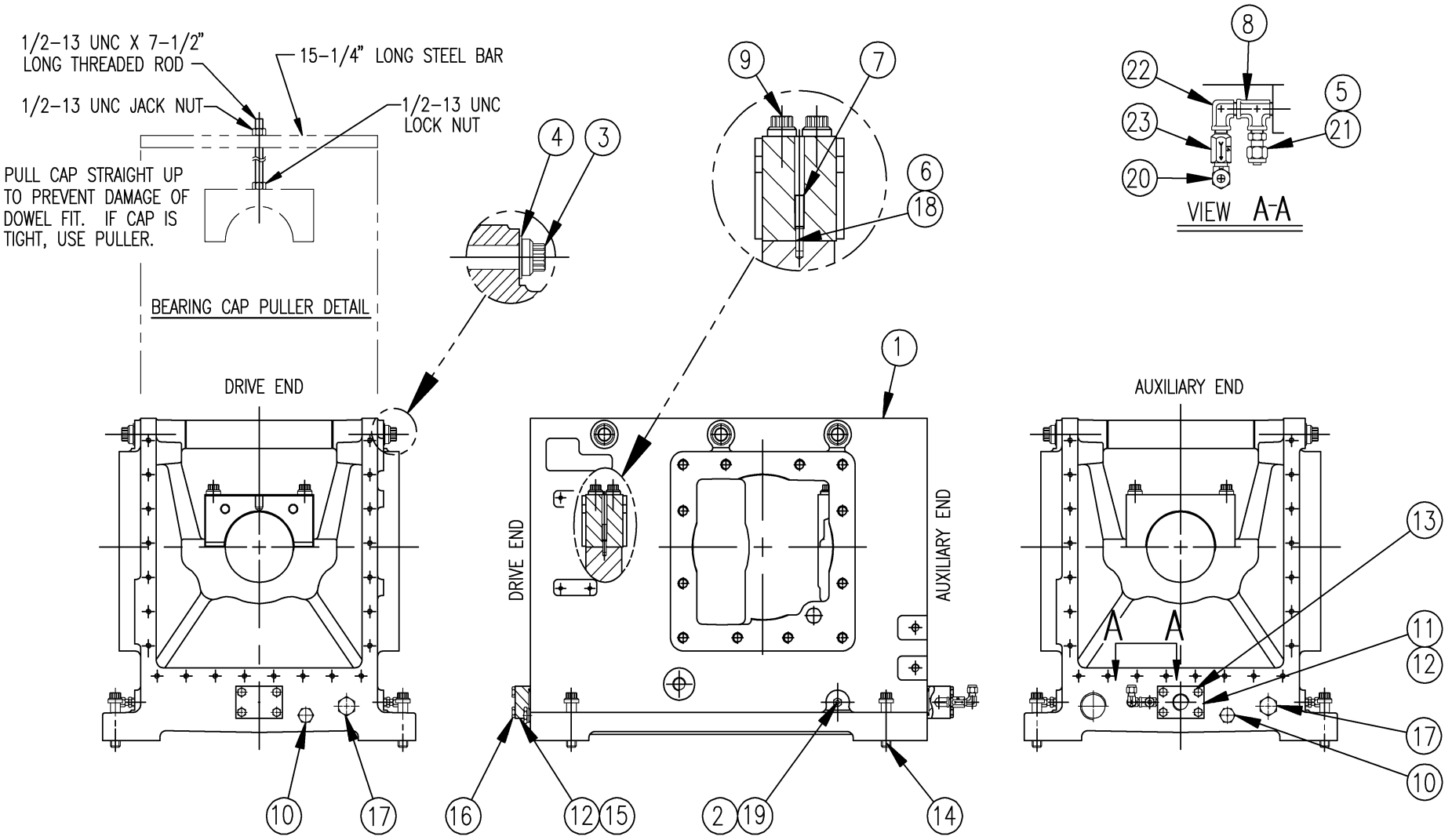
PARTS LIST

GROUP NO. G-2245

MANUAL PRIMING PUMP, LUBE OIL SYSTEM
JGW/2/4, JGR/2/4, AND JGJ/2/4
REF. DRWG. D-1340

ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
001	B-0425	1	MANUAL PRIMING PUMP
002	B-0817	1	BRACKET,PRIMING PUMP,JGW:R:K:J
003	FC0102GG	2	HEX HD.CAP. 1/2-13 X 1 G5
004	FC0100EI	2	HEX HD.CAP. 3/8-16 X 1-1/2 G9
005	FN0450EB	2	HEX NUT,STL,Z/PL,3/8-16
006	PT0200FB	57.00 "	SST.TUBING, 1/2 O.D.X.035 WALL
007	A-0844	1	HEX RED.BUSH,ST, 3/4M X 1/2F
008	A-0901	2	MALE ELBOW,ST, 1/2T X 1/2P
009	A-2802	1	MALE CONN.,ST, 1/2T X 1/4P
010	A-0857	1	MALE CONN.,ST, 1/2T X 1/2P
011	A-0828	1	HEX.RED.NIPPLE, 3/4M X 1/2M
012	A-2370	1	CHECK VALVE, POPPETT,1/2FNPT
013	B-1473	0	HANDLE,PRIMING PUMP-CLAMP TYPE
014	FC0125DK	0	12 PT. CAP. 5/16-24 X 2 G8
015	FN0461DA	0	SELF-LOCK NUT,5/16-24,ESNA

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.



NOTE: LOOSEN OR TIGHTEN ALL FASTENERS PER RECOMMENDED PROCEDURES AND TORQUE VALUES IN MANUAL.

ARIEL CORPORATION
35 BLACKJACK ROAD
MOUNT VERNON, OHIO 43050

ASSEMBLY DWG. No. A-4263

0 4675

3/20/98

PARTS LIST

GROUP NO. G-2445

FRAME, SPACERS AND BEARING CAPS
JGR/2, JGW/2 AND JGJ/2
REF. DRWG. A-4263

ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
001	D-1389	1	FRAME,JGR:W:J/2
002	A-0827	2	MALE CONN.,ST, 1/4T X 1/4P
003	FC0125IT	6	12 PT. CAP. 3/4-16 X 4-1/2 G8
004	FW0550IA	6	STAT-O-SEAL, 3/4 DIA., BLACK
005	A-0918	1	TUBING PLUG,ST, 1/4T
006	FP0500FE	0	DOWEL PIN, 1/4 X 3/4 +.0002
007	FS0400DG	0	CUP PT.SET-SCREW,5/16-18 X 1
008	A-0882#02	1	STREET TEE,ST, 1/8P
009	FC0120HU	8	12 PT. CAP. 5/8-11 X 5 G8
010	PP0810GB	2	PIPE PLUG,1/2NPT,HEX.HD,STL.
011	A-0397	1	BLIND END GALLERY CAP
012	A-0030	2	O-RING,VT, 1.637 O.D.X.139
013	FC0102DK	4	HEX HD.CAP. 5/16-18 X 2 G5
014	FC0120HN	4	12 PT. CAP. 5/8-11 X 2-3/4 G8
015	A-0396	1	BLIND END PLATE
016	FC0102DI	4	HEX HD.CAP. 5/16-18 X 1-1/2 G5
017	PP0810KB	2	PIPE PLUG,1"NPT,HEX.HD,STL.
018	FP0500EE	0	DOWEL PIN,3/16 X 3/4 +.0002
019	PT0200CB	90. "	SST.TUBING, 1/4 O.D.X.035 WALL
020	A-0815	1	MALE ELBOW,ST, 1/4T X 1/8P
021	A-0830	1	MALE CONN.,ST, 1/4T X 1/8P
022	A-0804	1	STREET ELBOW,ST, 1/8 P

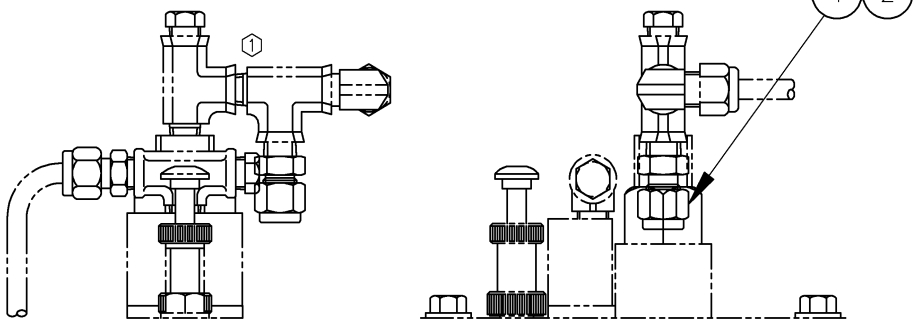
WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.

3/20/98

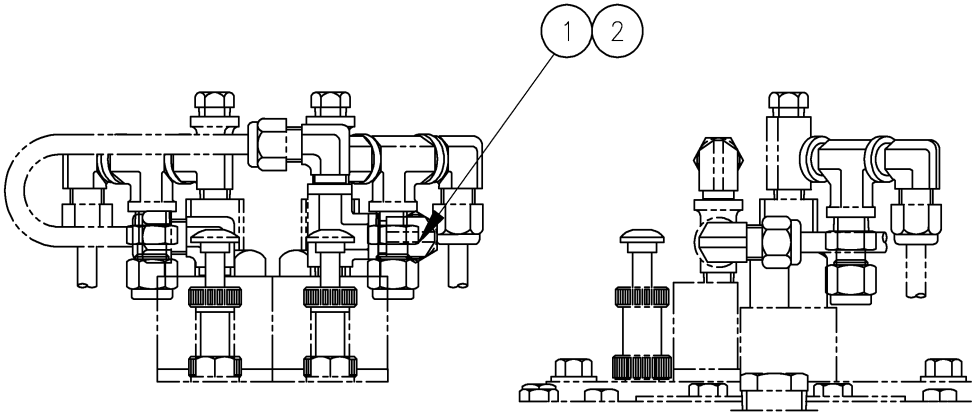
PARTS LIST

023	A-3763	1	CHK.VLV,1/8MX1/8F,SS,POP/14PSI

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.



LUBE BOX ASSEMBLY WITH (1) PUMP



LUBE BOX ASSEMBLY WITH (2) PUMPS

REV	DESCRIPTION
1	CORRECTED VIEWS ON SINGLE PUMP LUBE BOX, STREET TEE WAS BRANCH TEE.

1	6487
0	6443

ARIEL CORPORATION
35 BLACKJACK ROAD
MOUNT VERNON, OHIO 43050

ASSEMBLY DWG. No. A-6453

3/20/98

PARTS LIST

GROUP NO. G-2708

RUPTURE DISC ASSEMBLY
3250 PSI
REF. DRWG. A-6453

ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
001	A-0080	1	BLOW-OUT ASSY,SPECIFY DISC.
002	A-0124	0	BLOW-OUT DISC,3250 PSIG,PURPLE
003	A-2570	1	PLUG PLASTIC, 7 X RED

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.

3/20/98

PARTS LIST

GROUP NO. G-3220

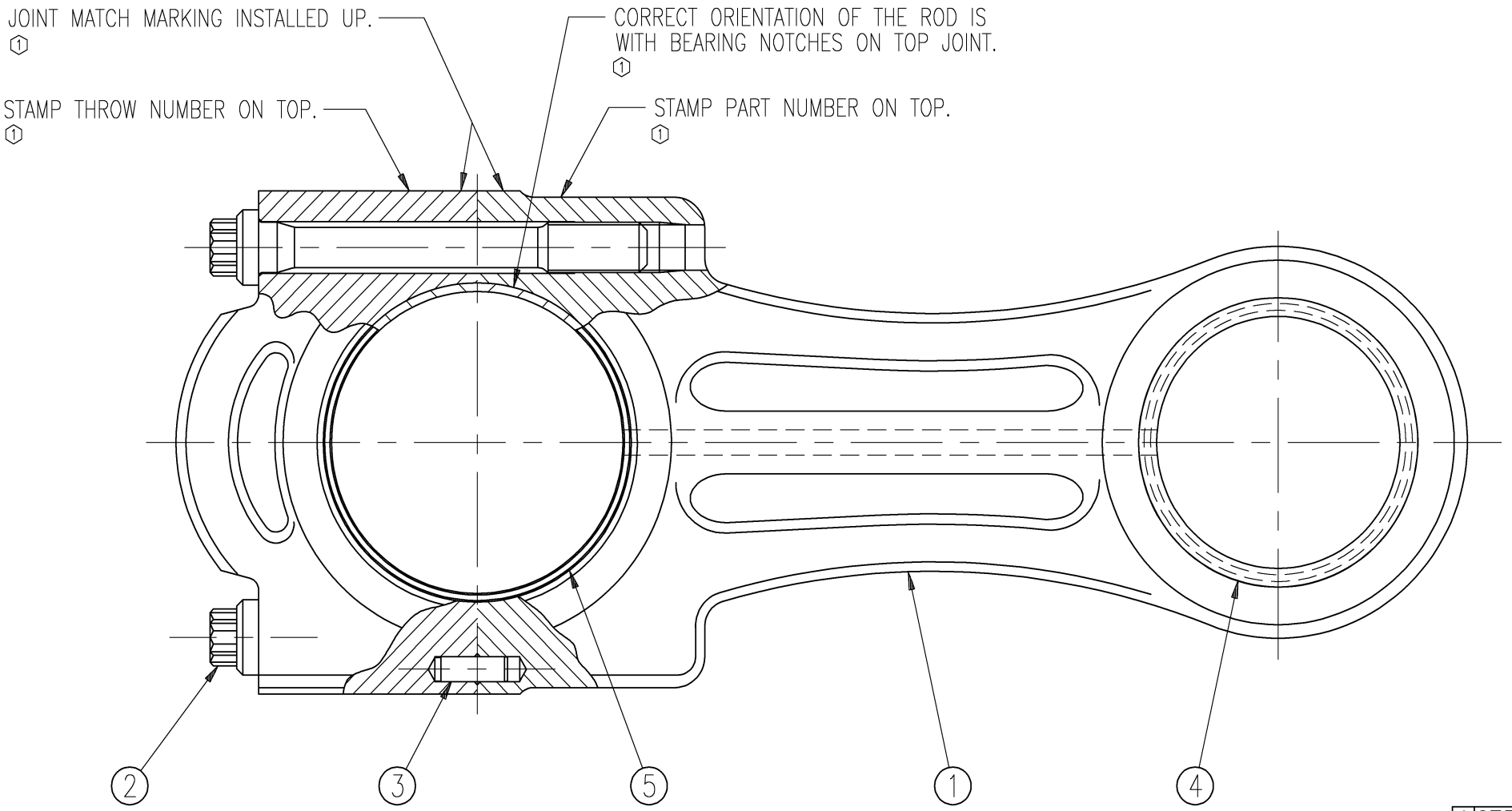
CRANKCASE LUBE OIL LEVEL SIGHT GLASS
JG:A, JGM:P, JGR:W & JGJ/2
REF. DRWG. N.A.

ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
001	A-0077	1	SIGHT GLASS,1" NPT

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.

NOTES

1. LOOSEN OR TIGHTEN ALL FASTENERS PER RECOMMENDED PROCEDURES AND TORQUE VALUES IN MANUAL.
2. PRESS BRONZE BUSHING IN WHILE MAINTAINING ALIGNMENT OF OIL HOLE TO OIL PASSAGE IN ROD.
3. INSTALL BEARING SHELLS WITH TABS LOCATED IN NOTCHES IN ROD AND ROD CAP.



1	6756
0	4734

REV	DESCRIPTION
1	ADDED NOTES: "JOINT MATCH MARKING INSTALLED UP", "STAMP THROW NUMBER ON TOP", "STAMP PART NUMBER ON TOP", AND "CORRECT ORIENTATION OF THE ROD IS WITH BEARING NOTCHES ON TOP JOINT".

ARIEL CORPORATION
35 BLACKJACK ROAD
MOUNT VERNON, OHIO 43050

ASSEMBLY DWG. No. A-3985

3/20/98

PARTS LIST

GROUP NO. G-5183

CONNECTING ROD, FORGED STEEL
JGJ CLASS, WITH NEW BEARING
REF. DRWG. A-3985

ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
001	AD-1152	1	CONNECTING ROD,ASSY,FS,JGJ
002	A-2461	0	12 PT. CAP. 3/4-16 X 5-5/8
003	FP0500FE	0	DOWEL PIN, 1/4 X 3/4 +.0002
004	B-0300	0	SLEEVE BEARING,BZ,ROD,JGR:W:J
005	B-2112	2	SLEEVE BEARING,H/S,ROD,JGR:W:J

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.

3/20/98

PARTS LIST

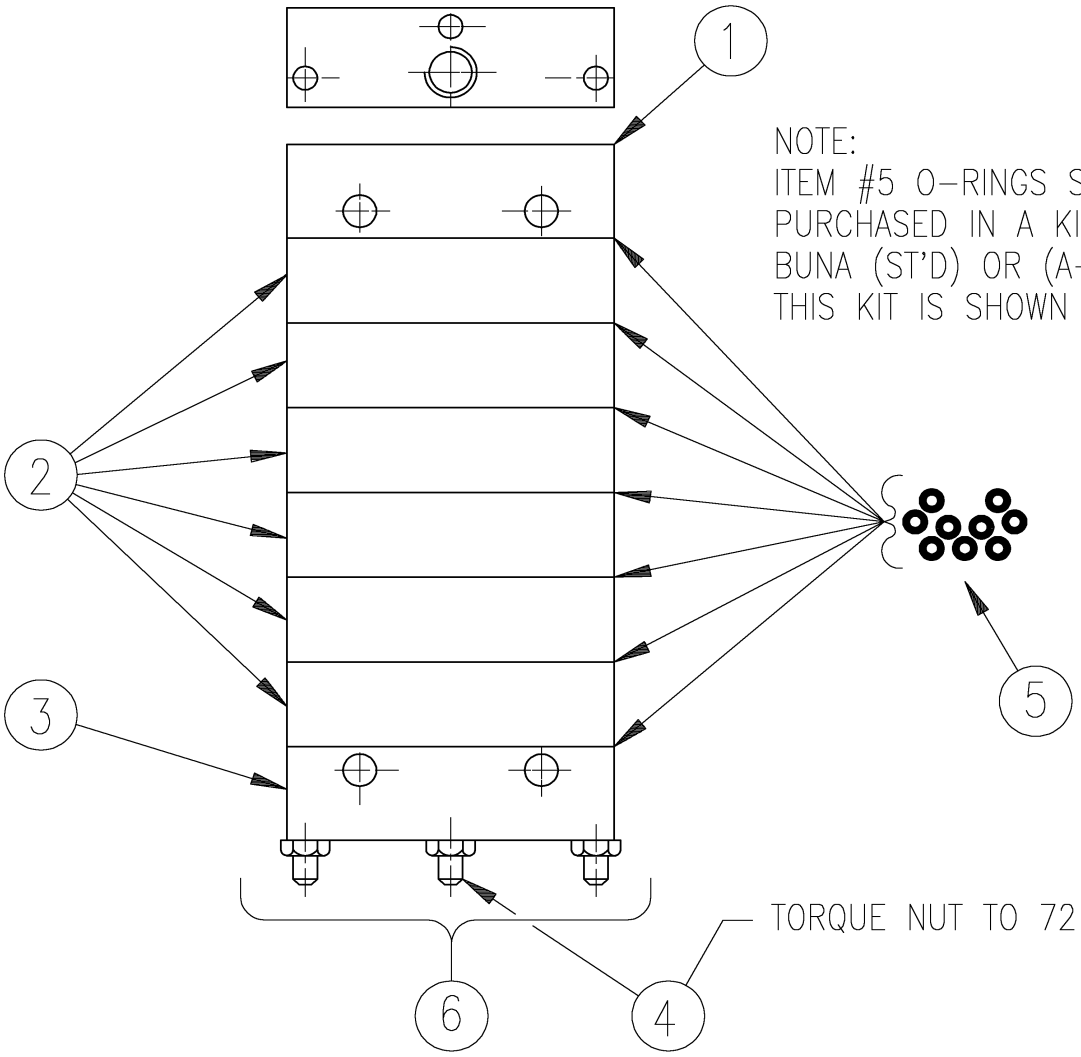
A-3703

BLANK DISTRIBUTION BLOCK ASSY
3 BLOCK BASEBLATE
ASSY DRWG: N.A.

ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
001	CA-3703	1	BLANK DIST. BLOCK ASSY,3 BLOCK
002	A-3806	0	GASKET,RET.3-3/8 X2-11/16X1/32
003	A-3803	0	COVER PLATE, DIST. BLOCK
004	FC0108CE	0	HEX HD.CAP. 1/4-28 X 3/4 G2
005	A-4400	1	INFO.PLATE,BLANK DIST.BLOCK

WHEN A ZERO APPEARS IN THE QUANTITY COLUMN IT
DOES NOT REPRESENT THE QUANTITY REQUIRED.

NUMBER OF BASE PLATES SECTIONS				DESCRIPTION	ARIEL PART No.	ITEM
3	4	5	6			
1	1	1	1	INLET SECTION	A-5537	1
3	4	5	6	INTERMEDIATE SECTION	A-5531	2
1	1	1	1	END SECTION	A-5538	3
3				TIE ROD W/NUT	A-5539	4
	3			TIE ROD W/NUT	A-5540	
		3		TIE ROD W/NUT	A-5541	
			3	TIE ROD W/NUT	A-5542	
36	45	54	63	O-RING, BUNA STANDARD	A-5570	5
36	45	54	63	O-RING, VITON	A-5703	
A-5533	A-5534	A-5535	A-5536	COMPLETE BASE PLATE ASSEMBLY		6



NOTE:
ITEM #5 O-RINGS SHOULD BE PURCHASED IN A KIT (A-5340-K) BUNA (ST'D) OR (A-5706-K) VITON. THIS KIT IS SHOWN ON A-5340 SHEET 2.

REV	DESCRIPTION

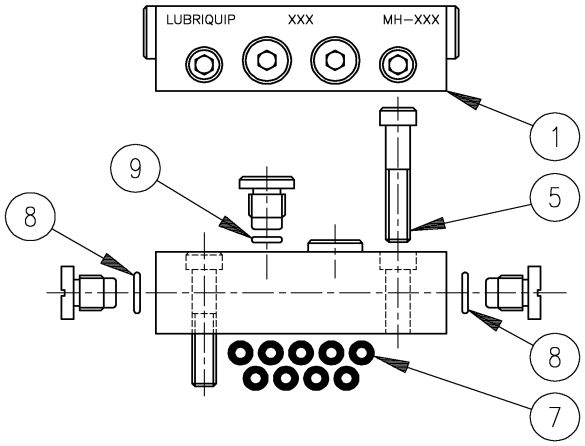
REV	ECN
0	5695

ARIEL CORPORATION
35 BLACKJACK ROAD
MOUNT VERNON, OHIO 43050

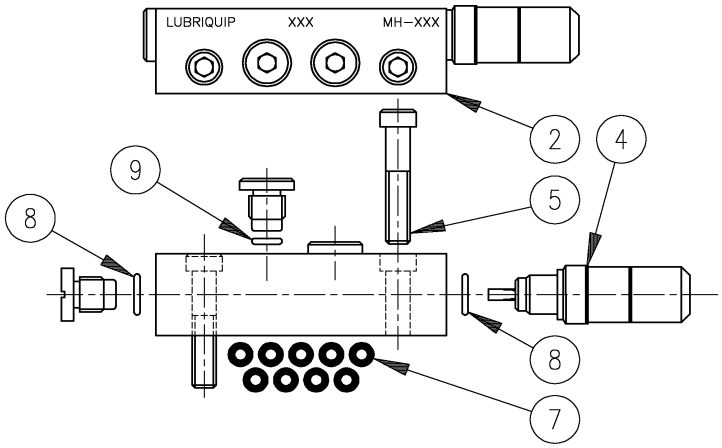
TITLE: DISTRIBUTION BLOCK VALVE (SLOAN BROS.)

DRAWING No. A-5340 SHT 1 OF 2

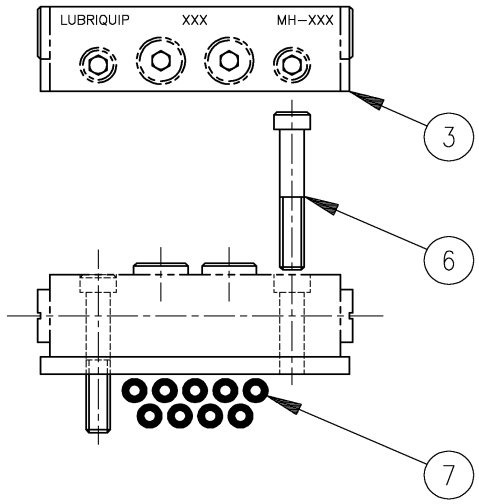
WITHOUT CYCLE PIN



WITH CYCLE PIN



CROSSPORT



ITEM	ARIEL PART	QUAN	DESCRIPTION
1	A-5543	1	DIVIDER VALVE, 6T
	A-5545	1	DIVIDER VALVE, 6S
	A-5547	1	DIVIDER VALVE, 9T
	A-5549	1	DIVIDER VALVE, 9S
	A-5551	1	DIVIDER VALVE, 12T
	A-5553	1	DIVIDER VALVE, 12S
	A-5555	1	DIVIDER VALVE, 18T
	A-5557	1	DIVIDER VALVE, 18S
	A-5559	1	DIVIDER VALVE, 24T
	A-5561	1	DIVIDER VALVE, 24S
	A-5563	1	DIVIDER VALVE, 30T
	A-5565	1	DIVIDER VALVE, 30S
2	A-5544	1	DIVIDER VALVE, 6T W/CIP
	A-5546	1	DIVIDER VALVE, 6S W/CIP
	A-5548	1	DIVIDER VALVE, 9T W/CIP
	A-5550	1	DIVIDER VALVE, 9S W/CIP
	A-5552	1	DIVIDER VALVE, 12T W/CIP
	A-5554	1	DIVIDER VALVE, 12S W/CIP
	A-5556	1	DIVIDER VALVE, 18T W/CIP
	A-5558	1	DIVIDER VALVE, 18S W/CIP
	A-5560	1	DIVIDER VALVE, 24T W/CIP
	A-5562	1	DIVIDER VALVE, 24S W/CIP
	A-5564	1	DIVIDER VALVE, 30T W/CIP
	A-5566	1	DIVIDER VALVE, 30S W/CIP
3	A-5567	1	CROSSPORT BAR, RIGHT
	A-5568	1	CROSSPORT BAR, LEFT
	A-5569	1	CROSSPORT BAR, BOTH
4	A-5532	1	MAGNETIC CYCLE INDICATOR
5	FC0110CH	2	SOC. CAP. 1/4-20 X 1-1/4
6	FC0110CI	2	SOC. CAP. 1/4-20 X 1-1/2

NOTE:
O-RINGS SHOULD BE PURCHASED IN A KIT (A-5340-K) BUNA (ST'D) OR (A-5706-K) VITON. THE KITS CONTAIN THE FOLLOWING O-RINGS:

7	A-5570	20	O-RING, INTERFACE, BUNA
	A-5703	20	O-RING, INTERFACE, VITON
8	A-5696	4	O-RING, ENCLOSURE, BUNA
	A-5704	4	O-RING, ENCLOSURE, VITON
9	A-5695	4	O-RING, OUTLET, BUNA
	A-5705	4	O-RING, OUTLET, VITON

REV	DESCRIPTION

REV	ECN
0	5695

ARIEL CORPORATION
35 BLACKJACK ROAD
MOUNT VERNON, OHIO 43050

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DRAWING No. A-5340 SHT 2 OF 2