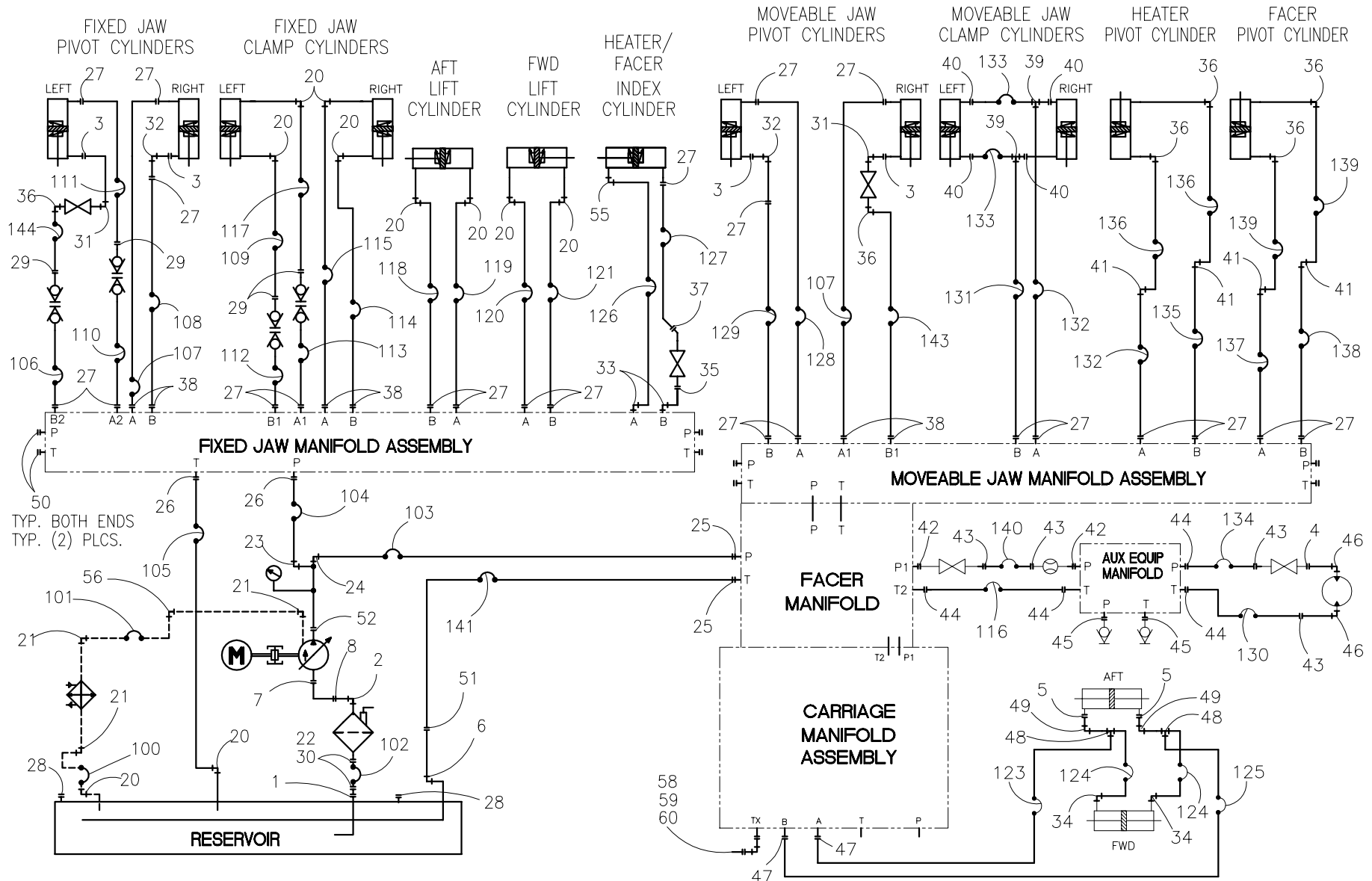




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- NOTES:
1. FOR ITEMS 20 THRU 99 ORDER KIT A2400802.
  2. FOR ITEMS 100 & LARGER ORDER KIT A2400801.
  3. ITEMS SHOWN IN PARENTHESIS REFLECT QUANTITIES IN A LOCAL GROUP AND MAY NOT INDICATE TOTAL ASSEMBLY QUANTITIES.



## #824A PLUMBING SCHEMATIC

PARTS LIST

ITEM	PART NO.	QTY	DESCRIPTION
	<b>2400802</b>	<b>1</b>	<b>ASSEMBLY</b>
1	MFD00036	1	1-1/2NPT ELBOW
2	MFD00037	1	1-1/2NPT ST ELBOW
3	MFI00016	4	3/8NPT CLOSE XHS NIPPLE
4	MFI00027	1	1/2NPT CLOSE XHS NIPPLE
5	MFI00029	2	1/2NPTX2-1/2LG XHS NIPPLE
6	MFD00021	1	3/4NPT ELBOW
7	MFC00071	1	1-1/2SAE 4 BOLT O-RING FLANGE KIT
8	MFI00085	1	1/12NPT XHS CLOSE NIPPLE

## DRAWING REVISION HISTORY LISTING

**PART NO:** 2400802  
**DESCRIPTION:** #824A PLUMBING SCHEMATIC

<u>APPR.</u>	<u>REV</u>	<u>DATE</u>	<u>BY</u>	<u>DESCRIPTION OF REVISION</u>
SWB	D	12/4/95	TLW	IGES FROM BRAVO. CREATED TYPED PARTS LIST. REDUCED TO 'A' SIZE FORMAT, REPLACED #HDBG059 W/ #HDBG083, #HBBDD024 W/ #HBBED024, #HCDEDE062 W/ #HCDEDE059, #HBBDED024 W/ #HBBEED024, #HABBDB072 W/ #HABBDB069, #HDBG080 W/ #HDBG097
SWB	E	2/21/97	AH	ADDED ITEM 22 MFB00050 QTY OF 2. CHANGE ITEM 40 MFA00023 QTY. FROM 4 TO 2. DELETED QTY IN MFA00023 ARE REPLACED BY ITEM 22 MFB00050.
SWB	---	7/11/97	BB	CORRECTED ITEM NO.(23) MFB00152 TO MFB00098 TO MATCH PRODUCT STRUCTURE.
TLW	F	1/13/98	JPS	ADDED DATALOGGER FITTING TX TO PORT.
SWB	G	10/30/98	TGW	SEPARATED HOSE ASSEMBLIES FROM BOM AND CREATED P/N A2400801 #824A HOSE KIT. RENUMBERED ITEMS 144 & 145 TO 46 & 47. CORRECTED PORT DESIGNATIONS TO AS-BUILT. ADDED NOTE.
SWB	H	12/8/98	DJL	CORRECTED SCHEMATIC BY ADDING ITEM 48 TO INDEXING CARRIAGE CYLINDER CIRCUIT. THIS ITEM HAS ALWAYS BEEN INSTALLED BUT HAS NEVER BEEN DOCUMENTED ON SCHEMATIC. REVISED ITEM 11 QTY FROM 23 TO 22.
SWB	J	6/3/99	MLM	REVISED CARRIAGE & FACER MANIFOLD ARRANGEMENT TO CLOSER REPRESENT PHYSICAL LAYOUT. MOVED ITEM #42(MFC00048 SAE PLUGS) TO 3611202 (CARRIAGE MANIFOLD BLOCK W/PLUGS). ADDED ITEM #49(ADL1402)-1 QTY.
LAA	K	4/2/02	RLE	CORRECTED MISTAKE MADE ON REV. 'G'. ITEMS 144 & 145 WERE RENUMBERED TO 46 & 47 ON MATERIAL LIST BUT WERE NOT REVISED ON DRAWING.
SPA	L	06/23/05	JAB	REVISED TO ELIMINATE ITEM #2 (MFB00076) AND REPLACE WITH ITEM #21 (MFC00024), AND CHANGED ITEM #21 QTY FROM (1) TO (3) IN ORDER TO MOUNT NEW HYDRAULIC COOLER. ALSO ELIMINATED ITEMS #18, #19 AND #20 (MFA00025, MFB00028, MFI00015) AND REPLACED THEM WITH ITEM #20 (MFB00031) BECAUSE OF CHANGE IN CLAMP CYLINDERS. REPLACED ITEM #7 (MFB00010) WITH #36 (MFB00027) TO MATCH BALL VALVE. ADDED ITEM #55 (MFB00136) TO REPLACE ITEM #24 AND #25 (MFB00027, MFB00137) ON THE INDEXING CYLINDERS TO REDUCE THE NUMBER OF FITTING. SEPARATED ITEMS 1-2, 4, 6-14, 16-34, 37-39, 42-43, 45, AND 47-50 FROM BOM TO CREATE #824A FITTING KIT. RESEQUENCED ITEM NUMBERS ACCORDINGLY. CORRECTED TO ADD ITEMS #8 (MFI00085) AND #56 (MFB00012) TO MATCH AS BUILT.
BLM	M	08/22/05	JAB	REVISED TO REFLECT CHANGES MADE IN FITTING KIT A2400802 REV. A.
SWB	N	12/16/05	JAB	MOVED NOTES TO FACE OF DRAWING. ADDED NOTE 3 FOR CLARITY.

**#824A FITTING KIT**Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
	<b>A2400802</b>		<b>ASSEMBLY</b>
20	MFB00031	10	8MPT/6MJIC ELBOW
21	MFC00024	3	8MSAE/6MJIC ELBOW
22	MFD00019	2	HOSE CLAMP
23	MFB00010	1	4MPT/6MJIC ELBOW
24	MFB00056	1	12MPT/12MJIC ELBOW
25	MFC00061	2	10MSAE/12MJIC ADAPTER
26	MFC00065	2	6MSAE/4MJIC ADAPTER
27	MFB00138	22	6MPT/4MJIC ADAPTER
28	MFA00001	2	1MPT PLUG
29	MFB00127	4	4MPT/6MJIC ADAPTER
30	MFD00027	2	HOSE END
31	MFA00016	2	6MPT/6FPT ELBOW
32	MFA00017	2	6FPT/6FPT ELBOW
33	MFC00063	2	4MSAE/4MJIC ELBOW
34	MFB00050	2	8MPT/8MJIC ELBOW
35	MFB00098	1	4FSJIC/4MPT ADAPTER
36	MFB00027	6	6MPT/6MJIC ELBOW
37	MFB00149	1	4MPT/4MJIC ELBOW 45
38	MFC00064	6	4MSAE/4MJIC ADAPTER
39	MFB00018	2	6MJIC/6MJIC/6FSJIC TEE
40	MFB00030	4	8MPT/6MJIC ADAPTER
41	MFB00015	4	6MJIC/6MJIC BULKHEAD ELBOW
42	MFC00062	2	8MPT/8MSAE ADAPTER
43	MFB00045	4	8MPT/10MJIC ADAPTER
44	MFC00033	4	8MSAE/10MJIC ADAPTER
45	MFC00066	2	8MSAE/6MPT ADAPTER
46	MFC00009	2	10MSAE/8FPT ELBOW
47	MFC00027	2	8MSAE/6MJIC ADAPTER
48	MFB00147	2	8MPT/8MJIC/8MJIC TEE
49	MFA00023	2	8FPT/8FPT ELBOW
50	MFA00021	8	8MPT PLUG
51	MFB00055	1	12MPT/12MJIC ADAPTER
52	MFC00014	1	FLANGE KIT
53			
54			
55	MFB00136	1	6MPT/4MJIC ELBOW
56	MFB00012	1	6MJIC / 6FSJIC ELBOW
57	MFB00206	1	4FJIC/4MJIC W/.062" ORIFICE
58	MFC00113	1	6MSAE/6FSAE ELBOW
59	MFH00048	1	3/8SAE QUICK DISCONNECT NIPPLE

**#824A FITTING KIT**Parts List

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ITEM	PART NO.	QTY.	DESCRIPTION
60	MFA00204	1	4MPT/6FSAE ADAPTER

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## DRAWING REVISION HISTORY LISTING

**PART NO:** A2400802  
**DESCRIPTION:** #824A FITTING KIT

<u>APPR.</u>	<u>REV</u>	<u>DATE</u>	<u>BY</u>	<u>DESCRIPTION OF REVISION</u>
BLM	A	09/06/05	JAB	REVISED TO CHANGED ITEM 53 FROM 6317002 TO MFB00138, REMOVED ITEM 53 AND INCREASED ITEM 27 QTY FROM 22 TO 23 AND ADD QTY. 1 ITEM 57 MFB00206. CHANGES MADE TO ELIMINATE MACHINING REQUIRED IN 6317002 FITTING.
SWB	B	12/16/05	JAB	REMOVED NOTE 1. REMOVED ITEM 54 (ADL1402). ADDED ITEMS 58 (MFC00113), 59 (MFH00048) AND ITEM 60 (MFA00204) FOR NEW DATALOGGER.

## #824A HOSE KIT

PARTS LIST

ITEM	PART NO.	QTY	DESCRIPTION
	<b>A2400801</b>	<b>1</b>	<b>ASSEMBLY</b>
100	HABDBD018	1	HOSE ASSY.
101	HABDBD039	1	HOSE ASSY.
102	HQZZZZ011	1	HOSE
103	HDBGBG083	1	HOSE ASSY.
104	HBBDDD025	1	HOSE ASSY.
105	HBBDDD046	1	HOSE ASSY.
106	HAABCB076	1	HOSE ASSY.
107	HABBDB078	2	HOSE ASSY.
108	HABBDB071	1	HOSE ASSY.
109	HABDBD024	1	HOSE ASSY.
110	HAABCB075	1	HOSE ASSY.
111	HABDDB031	1	HOSE ASSY.
112	HAABCB060	1	HOSE ASSY.
113	HAABCB061	1	HOSE ASSY.
114	HABDCB031	1	HOSE ASSY.
115	HABDCB038	1	HOSE ASSY.
116	HCBFBF054	1	HOSE ASSY.
117	HABDBD030	1	HOSE ASSY.
118	HABDCB040	1	HOSE ASSY.
119	HABDCB037	1	HOSE ASSY.
120	HABDCB084	1	HOSE ASSY.
121	HABDCB086	1	HOSE ASSY.
122			
123	HBBEDD024	1	HOSE ASSY.
124	HCDEDE059	2	HOSE ASSY.
125	HBBEED024	1	HOSE ASSY.
126	HABBCB057	1	HOSE ASSY.
127	HABBDB048	1	HOSE ASSY.
128	HABBDB077	1	HOSE ASSY.
129	HABBDB069	1	HOSE ASSY.
130	HCBFBF060	1	HOSE ASSY.
131	HABBBD038	1	HOSE ASSY.
132	HABBBD043	2	HOSE ASSY.
133	HABDBD033	2	HOSE ASSY.
134	HCBFBF059	1	HOSE ASSY.
135	HABBBD045	1	HOSE ASSY.
136	HBBDBD055	2	HOSE ASSY.
137	HABBBD041	1	HOSE ASSY.

## #824A HOSE KIT

PARTS LIST

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ITEM	PART NO.	QTY	DESCRIPTION
138	HABBBD042	1	HOSE ASSY.
139	HBBDBD050	2	HOSE ASSY.
140	HCBFBF043	1	HOSE ASSY.
141	HDBGBG091	1	HOSE ASSY.
142			
143	HABBBD070	1	HOSE ASSY.
144	HABDBD021	1	HOSE ASSY.

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## DRAWING REVISION HISTORY LISTING

**PART NO:** A2400801  
**DESCRIPTION:** #824A HOSE KIT

<u>APPR.</u>	<u>REV</u>	<u>DATE</u>	<u>BY</u>	<u>DESCRIPTION OF REVISION</u>
SWB	----	10/29/98	TGW	CREATED FROM #824A PLUMBING SCHEMATIC #2400802, ITEMS #100 AND LARGER.
SWB	A	11/1/04	RLE	REVISED ITEM #109 HABDBD022 TO HABDBD024 FOR NEW CARLSON CLAMP CYLINDER.
SPA	B	06/23/05	JAB	REVISED ITEM #100 HABDBD018 TO HABDBD023 FOR MOUNTING NEW HYDRAULIC COOLER.
SWB	C	12/16/05	JAB	REMOVED NOTE 1.