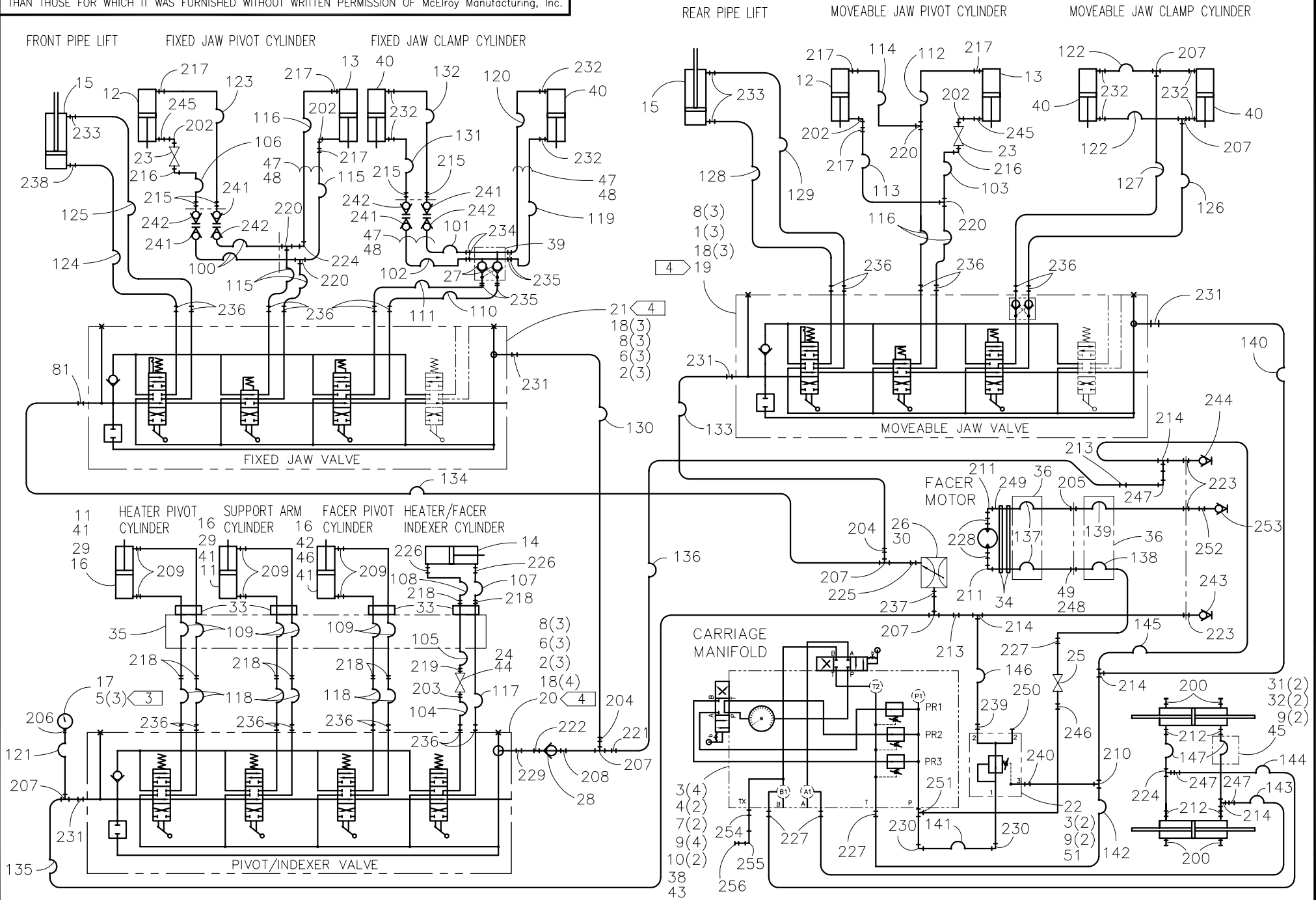




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**TracStar® 900 CARRIAGE HYDRAULIC / PLUMBING SCHEMATIC**Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
	<b>T9001003</b>		<b>ASSEMBLY</b>
1	MAB00038	3	5/16-18NC X 2-1/4 LG. HHCS
2	MAB00042	6	5/16-18NC X 3-1/4 LG. HHCS
3	MAB00064	6	3/8-16NC X 1 LG. HHCS
4	MAB00092	2	3/4-10NC X 2-1/2 LG. HHCS
5	MAH00036	3	#6-32NC x 3/8 LG. HHWF TYPE 'F' ST SET SCREW
6	MBA00006	6	5/16-18NC HEX NUT
7	MBA00012	2	3/4-10NC HEX NUT
8	MBE00006	9	5/16" REGULAR SPLIT LOCK WASHER
9	MBE00007	8	3/8 REGULAR SPLIT LOCK WASHER
10	MBE00012	2	3/4 REGULAR SPLIT LOCK WASHER
11	MCH00005	4	1/8 DIA X 2 LG COTTER PIN
12	MEB00055	2	2B X 6S X 1R HYDRAULIC CYLINDER CSH 2ENDS
13	MEB00056	2	2B X 6S X 1R HYDRAULIC CYLINDER CSH 2ENDS
14	MEB00110	1	2BX31S HYDRAULIC CYLINDER
15	MEB00111	2	35BX4S HYDRAULIC CYLINDER
16	MEB00112	3	2-1/2BX7SX1R HYDRAULIC CYLINDER
17	MEE00043	1	3000PSI PRESSURE GAUGE
18	MEF00077	10	VALVE HANDLE LEVER
19	MEF00112	1	DIRECTIONAL VALVE
20	MEF00113	1	DIRECTIONAL VALVE
21	MEF00115	1	DIRECTIONAL VALVE
22	MEG00029	1	PRESSURE REDUCING VALVE AND MANIFOLD
23	MEI00001	2	3/8NPT BALL VALVE
24	MEI00014	1	1/4NPT PANEL MOUNT BALL VALVE
25	MEI00015	1	BALL VALVE
26	MEJ00031	1	FLOW CONTROL VALVE
27	MEJ00032	2	PILOT OPERATED CHECK VALVE
28	MEJ00033	1	CHECK VALVE
29	MEK00029	2	3/4 DIA CLEVIS PIN ONLY X 2 5/8 GRIP
30	MEL00015	1	VALVE BODY
31	MAB00068	2	3/8-16NC x 2 LG. HHCS
32	MBA00007	2	3/8-16NC FINISH HEX NUT
33	MFD00081	4	HOSE CLAMP
34	MFD00083	2	HOSE CLAMP
35	MFL00035	2FT	HOSE SLEEVE
36	MFL00042	2FT	1.81 I.D. HOSE SLEEVE
37			
38	T9013203	1	TracStar 900 CARRIAGE MANIFOLD ASSY
39	T9005301	1	CYLINDER LOCK VALVE MANIFOLD

## TracStar® 900 CARRIAGE HYDRAULIC / PLUMBING SCHEMATIC

### Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
40	T9015001	4	CLAMP CYLINDER
41	T9016001	3	PIVOT CYLINDER ROD EYE MODIFICATION
42	T9016201	1	INDEXER ARM CLEVIS PIN
43	T9018401	1	CARRIAGE MANIFOLD BRACKET
44	816313	1	IDX CYLINDER LOCK LABEL CAP
45	T9002602	1	CARRIAGE HOSE TROUGH
46	MCH00001	1	1/8 DIA. x 1 LG. COTTER PIN
47	MHA00033	3	1/2 HOSE CLAMP
48	MAH00050	3	1/4-20NC x 1/2 LG SHCS SS
49	MBG00004	1	3/4 TYPE 'AN' FLAT WASHER

#### **NOTES:**

1. FOR HOSE ASSEMBLIES (ITEMS 100 THRU 199) SEE CARRIAGE HOSE KIT #AT9001003.
2. USE LOCTITE HYDRAULIC SEALANT ON ALL PIPE THREADS - **DO NOT USE** TEFLON TAPE.
3. INSTALL WITH MEDIUM STRENGTH THREAD LOCKING COMPOUND.
4. VALVE HANDLE LEVERS MEF00077, MUST BE PURCHASED SEPARATELY.
5. FOR PLUMBING FITTINGS (ITEMS 200 & LARGER) SEE CARRIAGE PLUMBING FITTING KIT #AT9001004.

## DRAWING REVISION HISTORY LISTING

**PART NO:** T9001003

**DESCRIPTION:** TracStar® 900 CARRIAGE HYDRAULIC/PLUMBING SCHEMATIC

<u>APPR.</u>	<u>REV</u>	<u>DATE</u>	<u>BY</u>	<u>DESCRIPTION OF REVISION</u>
BWJ	A	6/20/03	ALK	CHANGED QTY OF ITEM 9 FROM 6 TO 10. ADDED ITEMS 93(MAB00068 QTY 4), 94(MBA00007 QTY 4), 96(3601501 QTY 1), & 97(3601502 QTY 1) TO PROTECT HOSES ON MOVEABLE JAWS.
BWJ	B	7/8/03	ALK	REVISED TO ADD ITEM 98 (MFA0007) & ITEM 99 (ADL1402).
BWJ	C	8/6/03	RLE	REVISED MFD00082 TO MFD00083, 3601501 TO T9002602, MFB00014 TO MFB00023, MBE00007 FROM QTY. (10) TO QTY. (8), MAB00068 FROM QTY. (4) TO QTY. (2), MBA00007 FROM QTY. (4) TO QTY. (2), MFC00006 FROM QTY. (2) TO QTY. (3), MFC00025 FROM QTY. (4) TO QTY. (3), REMOVED 3601502 QTY. (1) & ADDED MFB00093 QTY. (2), MFB00102 QTY. (1) & MFB00111 QTY. (1). REMOVED FITTINGS FROM PARTS LIST & CREATED SEPARATE PARTS LIST, AT9001004 T900 CARRIAGE PLUMBING FITTING KIT & ADDED NOTE #5.
LAA	D	9/5/03	ALK	REVISED TO ADD CALL OUT ON FACER MOTOR FOR ITEM #99 DUE TO A QTY. CHANGE FROM 1 TO 2 ON AT9001004 TracStar® 900 CARRIAGE PLUMBING FITTING KIT.
BWJ	E	09/25/03	BWW	REVISED DRAWING TO REROUTE HOSE 145 AND 136 TO CORRECT LOCATIONS TO MATCH AS BUILT CONDITION.
BWJ	F	11/4/03	ALK	REVISED QTY. OF ITEM #52 FROM 3 TO 4 ON AT9001004 TracStar® 900 CARRIAGE PLUMBING FITTING KIT, CHANGED ITEM #140 FROM HBBECD011 TO HBBECD013 ON AT9001003 TracStar® 900 CARRIAGE HOSE KIT TO MATCH AS BUILT.
SWB	G	2/20/04	ALK	REVISED TO ADD ITEM #46 MCH00001 WHICH WAS REMOVED FROM T9003901 INDEXER ASSEMBLY REV F.
BWJ	H	12/21/04	BWW	ADDED ITEM 47 MHA00033 QTY 3 & ITEM 48 MAH00050 QTY 3 TO SECURE

BWJ	J	02/17/05	JAB	HOSES & TO MATCH AS BUILT CONDITION. REVISED TO ADD WASHER ITEM #49 NEEDED UNDER BULKHEAD ELBOW TO PROVIDE PROPER THREAD LENGTH. MATCHES AS BUILT.
BLM	K	6/24/06	PSP	REVISED TO REFLECT CHANGES MADE IN FITTING KIT AT9001004 REV. D, & HOSE KIT AT9001003 REV. E
BWJ	L	8/31/06	RLE	REVISED TO REFLECT CHANGES MADE IN FITTING KIT AT9001004 REV. 'E' & HOSE KIT AT9001003 REV. 'F'.
BLM	M	11/09/06	ARB	REVISED TO DELETE ITEM '37' (ADL1402) AND TO REFLECT CHANGES MADE IN FITTING KIT (AT9001004 REV.F).

## TracStar® 900 CARRIAGE HOSE KIT

Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
	<b>AT9001003</b>		<b>ASSEMBLY</b>
100	HAABBB034	2	HOSE ASSEMBLY OAL 34"
101	HAABEB044	1	HOSE ASSEMBLY OAL 44"
102	HAABEB046	1	HOSE ASSEMBLY OAL 46"
103	HABBBB023	1	HOSE ASSEMBLY OAL 23"
104	HABBBB024	1	HOSE ASSEMBLY OAL 24"
105	HABBBB080	1	HOSE ASSEMBLY OAL 80"
106	HABBBD022	1	HOSE ASSEMBLY OAL 22"
107	HABBBD062	1	HOSE ASSEMBLY OAL 62"
108	HABBBD067	1	HOSE ASSEMBLY OAL 67"
109	HABBBD072	6	HOSE ASSEMBLY OAL 72"
110	HABBDDB015	1	HOSE ASSEMBLY OAL 15"
111	HABBDDB016	1	HOSE ASSEMBLY OAL 16"
112	HABBDDB033	1	HOSE ASSEMBLY OAL 33"
113	HABBDDB036	1	HOSE ASSEMBLY OAL 36"
114	HABBDDB045	1	HOSE ASSEMBLY OAL 45"
115	HABBDDB046	3	HOSE ASSEMBLY OAL 46"
116	HABBDDB057	3	HOSE ASSEMBLY OAL 57"
117	HABBDDB087	1	HOSE ASSEMBLY OAL 87"
118	HABBDDB100	6	HOSE ASSEMBLY OAL 100"
119	HABBDD046	1	HOSE ASSEMBLY OAL 46"
120	HABBDD050	1	HOSE ASSEMBLY OAL 50"
121	HABDDB022	1	HOSE ASSEMBLY OAL 22"
122	HABDDB036	2	HOSE ASSEMBLY OAL 36"
123	HABDDB032	1	HOSE ASSEMBLY OAL 32"
124	HABDDB036	1	HOSE ASSEMBLY OAL 36"
125	HABDDB040	1	HOSE ASSEMBLY OAL 40"
126	HABDDB042	1	HOSE ASSEMBLY OAL 42"
127	HABDDB048	1	HOSE ASSEMBLY OAL 48"
128	HABDDB111	1	HOSE ASSEMBLY OAL 111"
129	HABDDB119	1	HOSE ASSEMBLY OAL 119"
130	HABDDD019	1	HOSE ASSEMBLY OAL 19"
131	HABDDD022	1	HOSE ASSEMBLY OAL 22"
132	HABDDD028	1	HOSE ASSEMBLY OAL 28"
133	HABDDD082	1	HOSE ASSEMBLY OAL 82"
134	HABDDD095	1	HOSE ASSEMBLY OAL 95"
135	HABDDD101	1	HOSE ASSEMBLY OAL 101"
136	HBBDBD089	1	HOSE ASSEMBLY OAL 89"
137	HCBEBE086	2	HOSE ASSEMBLY OAL 86"
138	HCBEDE077	1	HOSE ASSEMBLY OAL 77"
139	HCBEBE032	1	HOSE ASSEMBLY OAL 32"
140	HBECED013	1	HOSE ASSEMBLY OAL 13"
141	HCBEBE020	1	HOSE ASSEMBLY OAL 20"

**TracStar® 900 CARRIAGE HOSE KIT**Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
142	HCBEDE017	1	HOSE ASSEMBLY OAL 17"
143	HCBEDE024	1	HOSE ASSEMBLY OAL 24"
144	HCBEDE031	1	HOSE ASSEMBLY OAL 31"
145	HCBEDE072	1	HOSE ASSEMBLY OAL 72"
146	HCBEDE076	1	HOSE ASSEMBLY OAL 76"
147	HCDEEE079	2	HOSE ASSEMBLY OAL 79"

## DRAWING REVISION HISTORY LISTING

**PART NO:** AT9001003

**DESCRIPTION:** TracStar® 900 CARRIAGE HOSE KIT

<u>APPR.</u>	<u>REV</u>	<u>DATE</u>	<u>BY</u>	<u>DESCRIPTION OF REVISION</u>
BWJ	A	7/8/03	ALK	REVISED TO ADD ITEMS 138-147.
BWJ	B	8/6/03	RLE	REVISED HBBDBE086 TO HCBEBE086, HBBDDD080 TO HCBEDE077 & HBBDE028 TO HCBEDE028.
BWJ	C	09/25/03	BWW	REVISED ITEM 140 FROM HBBEDE010 TO HBBECD011 FOR BETTER BEND RADIUS.
BWJ	D	11/4/03	ALK	REVISED ITEM #140 HBBECD011 TO HBBECD013 TO ADD 2" FOR BETTER FIT.
BLM	E	6/24/06	PSP	REVISED TO LENGTHEN ITEM 141 FROM 18" TO 20" FOR BETTER FIT
BWJ	F	8/31/06	RLE	FROM CHANGES MADE TO KIT AT9001004 REV. D. REVISED ITEM #139 FROM HCBEDE028 TO HCBEBE032. CHANGE MADE TO ISOLATE FACER RETURN LINE FROM CARRIAGE RETURN LINE TO LIMIT BACK PRESSURE FROM INCREASING CARRIAGE PRESSURE GAUGE READING.

## TracStar® 900 CARRIAGE PLUMBING FITTING KIT

Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
	<b>AT9001004</b>		<b>ASSEMBLY</b>
200	MFA00001	4	1MPT PLUG
201	MFA00007	1	4MPT PLUG
202	MFA00016	4	6MPT/6FPT ELBOW
203	MFB00005	1	4MPT/4MJIC ELBOW
204	MFB00012	2	6MJIC/6FSJIC ELBOW
205	MFB00023	1	8MJIC/8MJIC UNION
206	MFB00016	1	4FPT/6MJIC ELBOW
207	MFB00018	6	6MJIC/6MJIC/6FSJIC TEE
208	MFB00026	1	6MPT/6MJIC ADAPTER
209	MFB00031	6	8MPT/6MJIC ELBOW
210	MFB00033	1	8MJIC/8FSJIC/8MJIC
211	MFB00042	2	8MPT/8MJIC ELBOW 45
212	MFB00050	4	8MPT/8MJIC ELBOW
213	MFB00074	2	8FSJIC/6MJIC REDUCER
214	MFB00077	5	8MJIC/8MJIC/8FSJIC TEE
215	MFB00127	4	4MPT/6MJIC BULKHEAD ADAPTER
216	MFB00136	2	6MPT/4MJIC ELBOW
217	MFB00138	6	6MPT/4MJIC ADAPTER
218	MFB00146	8	4MJIC/4MJIC BULKHEAD ADAPTER
219	MFB00149	1	4MPT/4MJIC ELBOW 45
220	MFB00165	4	4MJIC/4MJIC/4MJIC
221	MFB00191	1	6MJIC/6FSJIC ELBOW 45
222	MFB00192	1	6MPT/6FSJIC ADAPTER
223	MFB00194	3	8MPT/8MJIC BULKHEAD ADAPTER
224	MFB00200	1	4FJIC/4MJIC ELBOW 45
225	MFC00002	1	6MSAE/6MJIC ADAPTER
226	MFC00003	2	6MSAE/6MJIC ELBOW
227	MFC00006	4	8MSAE/8MJIC ADAPTER
228	MFC00009	2	8FPT/10MSAE ELBOW
229	MFC00024	1	8MSAE/6MJIC ELBOW
230	MFC00025	2	8MSAE/8MJIC ELBOW
231	MFC00027	5	8MSAE/6MJIC ADAPTER
232	MFC00039	8	4MSAE/6MJIC ADAPTER
233	MFC00042	3	4MSAE/6MJIC ELBOW
234	MFC00063	2	4MSAE/4MJIC ELBOW
235	MFC00064	4	4MSAE/4MJIC ADAPTER
236	MFC00065	20	6MSAE/4MJIC ADAPTER
237	MFC00080	1	6MSAE/6FJICS SWIVEL ADAPTER
238	MFC00112	1	4MSAE/6MJIC ELBOW 45

**TracStar® 900 CARRIAGE PLUMBING FITTING KIT**Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
239	MFC00116	1	8MSAE/8MJIC ELBOW 45
240	MFC00127	1	6MSAE/8MJIC ELBOW 45
241	MFH00001	4	1/4FNPT QUICK DISC COUPLER
242	MFH00002	4	1/4FNPT QUICK DISC NIPPLE
243	MFH00016	1	1/2FNPT QUICK DISC COUPLER
244	MFH00017	1	1/2FNPT QUICK DISC NIPPLE
245	MFA00015	2	6MPT/6MPT NIPPLE
246	MFQ00004	1	8MSAE/8MSAE ADAPTER
247	MFB00093	3	8MJIC/8FSJIC ELBOW
248	MFB00102	1	8MJIC/8MJIC ELBOW
249	MFB00111	1	8MJIC/8FSJIC ELBOW
250	MFC00048	1	8MSAE PLUG
251	MFC00125	1	8MSAE/8FSAE/8FSAE RUN TEE
252	MFC00067	1	8FPT/12MSAE ADAPTER
253	MFH00057	1	3/4FSAE QUICK DISC NIPPLE
254	MFA00204	1	4MPT/6FSAE ADAPTER
255	MFC00113	1	6MSAE\6FSAE ELBOW
256	MFH00048	1	3/8 SAE QUICK DISC NIPPLE

## DRAWING REVISION HISTORY LISTING

**PART NO:** AT9001004

**DESCRIPTION:** TracStar® 900 CARRIAGE PLUMBING FITTING KIT

<u>APPR.</u>	<u>REV</u>	<u>DATE</u>	<u>BY</u>	<u>DESCRIPTION OF REVISION</u>
LAA	A	9/5/03	ALK	REVISED QTY. OF ITEM 249 FROM 1 TO 2 TO REROUTE FACER MOTOR HOSE TO BE COMPATIBLE WITH PARKER FACER MOTOR MEC00032.
BWJ	B	09/25/03	BWW	REVISED QTY OF ITEM 247 MFB00093 FROM 2 TO 3 & CHANGED QTY OF ITEM 249 MFB00111 FROM 2 TO 1 TO ACCOMODATE HOSE RE-ROUTING.
BWJ	C	11/4/03	ALK	REVISED QTY OF ITEM 202 MFA00016 FROM 3 TO 4 TO MATCH AS BUILT.
BLM	D	6/24/06	PSP	REVISED TO CHANGE QUANTITY OF ITEM 227 FROM 3 TO 4 & ITEM 230 FROM 3 TO 2. REVISED ITEM #245 MFI00016 TO MFA00015 DUE TO AVAILABILITY. ADDED ITEM 250 MFC00048 & ITEM 251 MFC00125. CHANGES MADE TO REPLUMB FACER AFTER THE PRESSURE REDUCING VALVE. CHANGED ITEM NUMBER RANGE FROM 50 - 99 & 100 & LARGER TO 100-199 & 200 & LARGER DUE TO NUMBERING CONFLICT. CHANGES WERE MADE TO DRAWING TO MATCH RENUMBERING OF PLUMBING FITTING KIT.
BWJ	E	8/31/06	RLE	REVISED ITEM #214 MFB00077 FROM QTY. (6) TO QTY. (5), ITEM #223 MFB00194 FROM QTY. (2) TO QTY. (3), ADDED ITEM #252 MFC00067 & ITEM #253 MFH00057. CHANGE MADE TO ISOLATE FACER RETURN LINE FROM CARRIAGE RETURN LINE TO LIMIT BACK PRESSURE FROM INCREASING CARRIAGE PRESSURE GAUGE READING.
BLM	F	11/09/06	ARB	REVISED TO ADD ITEM '254' (MFA00204), ITEM '255' (MFC00113), & ITEM '256' (MFH00048) FOR NEW DATALOGGER CONNECTION.