

MODEL 9-1500
ILLUSTRATED PARTS BREAKDOWN

MODEL 9-1500 IPB Notice and Revision History

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WARNING



The nature of the GTAW process creates some POTENTIAL HAZARDS. In accordance with international safety regulations the EXCLAMATION SYMBOL indicates that this equipment is considered HAZARDOUS. The LIGHTNING FLASH SYMBOL indicates that there are potential electrical hazards. The display of these symbols makes it the OPERATOR'S RESPONSIBILITY TO ENSURE THAT THEY HAVE BEEN MADE AWARE OF and shall observe the hazardous conditions.



WARNING: AMI factory training is essential for all Maintenance Technicians who operate AMI equipment. Do not operate or service this equipment without proper AMI approved training.



WARNING: Keep hands and fingers clear from moving parts such as fans, gears, rotors, Wire Feed, Weld Head Travel, i.e. Oscillation (OSC) and Arc Voltage Control (AVC) mechanisms

Weld Head AVC and Oscillator Slide Assemblies develop high forces and it is possible, by their nature of operation, to harm any object or body part that may get into these areas. **USE EXTREME CAUTION!**



Electrical Shock Hazard: Always disconnect weld heads when servicing internal components or opening housing covers for access.

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REV	ECO#	CHANGE DESCRIPTION	DATE	BY	APR
Α	4678	On 090111 Change Item 6 & 23	7 Mar 2008	SO	BF
В	4779	Added rev D of 750015	26 May 2008	SO	BF
С	5579	Added rev F of 750015 and Wiring Diagram	18 Jan 2010	CB	DC
D	5753	Deleted pg 2 from IPB 090111 & cable parts, pg 2 from 090101 & cable parts, page 2	10/6/10	GB	DC
		from 090113 & cable parts, page 2 from 090126 & cable parts, Updated TOC			
Е	5330A	Added IPBS 0901150 & 0907143	4/5/12	JM	DC



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DATE EFFECTIVE: 5 Apr 1993 PRODUCT MODEL: 9-1500 MANUAL NUMBER: 730015

IPB NUMBER	DESCRIPTION
750015	ELECTRODE DIMENSIONS
090111	M9-1500 WELD HEAD ASSEMBLY
090512	LOCATING ARM KIT
750031	M-9 CONVERSION TO M-9E INSTRUCTIONS
090101	M9E-1500 MAIN ASSEMBLY
090113	M9AF-1500 MAIN ASSEMBLY
090139	M9BW-1500 ID WELD HEAD ASSEMBLY
090126	CASSETTE WELD HEAD ASSEMBLY
090907	TORCH 1.00 ID ASSEMBLY
090928	TORCH 1/2 ID ASSEMBLY
0901115	M9RR-1500 WELD HEAD ASSEMBLY
0907105	M9RR-1500 TORCH ASSEMBLY
175144-02	M9 WELD HEAD WIRING DIAGRAM
0901150	M9ETS-1500 WELD HEAD ASSY

ELECTRODE DIMENSIONS

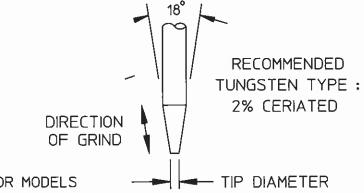
ROTOR D	IAMETER
MODEL NO.	ROTOR O.D
9-250	0.802
9-500/4-500	1,388
9-675	1.715
9M-750	1,312
9-750	2.000
9-1500	3.187
9AF-1500	2.252
9E-1500	2.687
8-2000	3.450
9-2500	4.380
9AF-2500	3.156
9E-2500	4.280
* 9-3500	5.380
9E-3500	5.310
8-4000	5.310
* 9-4500	6.875
9ER-4500	5.776
8-6625	8.094
* 9-7500	10,440
9E-7500	9.375
* FOR HEAD	s using

OPTIONAL TUNGSTEN

EXTENDER, SEE PAGE 2.

$\frac{\text{ROTOR O.D.} - \text{TUBE O.D.}}{2} - \text{ARC GAP} = \frac{\text{TUNGSTEN}}{\text{LENGTH}}$
ARC GAP—— TUNGSTEN LENGTH ±0.003
TUBE O.D. — ROTOR O.D. —

TUBE/PIPE WALL THICKNESS	RECOMMENDED ARC GAP	RECOMMENDED TIP DIA.
0.020/0.035	0.030	0.020
0.049/0.085	0.050	0.030
0.091/0.154	0.070	0.040

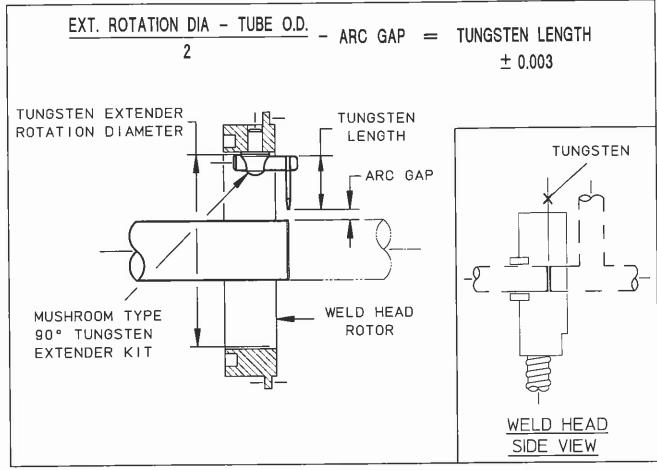


- NOTES: 1. RECOMMENDED ARC GAP FOR MODELS 4-500, 9-250 & 9-500 IS 0.045 MAXIMUM.
 - 2. IN INSTANCES WHERE OUT-OF-ROUNDNESS ON THIN-WALLED TUBING OCCURS (NORMALLY 2.500 O.D. OR LARGER), A 0.070 ARC GAP IS RECOMMENDED.
 - 3. DIMENSIONS ARE IN INCHES.

Doc No. 750015 REV F

FOR TUNGSTEN EXTENDERS

TUNGSTEN LENGTH CALCULATION

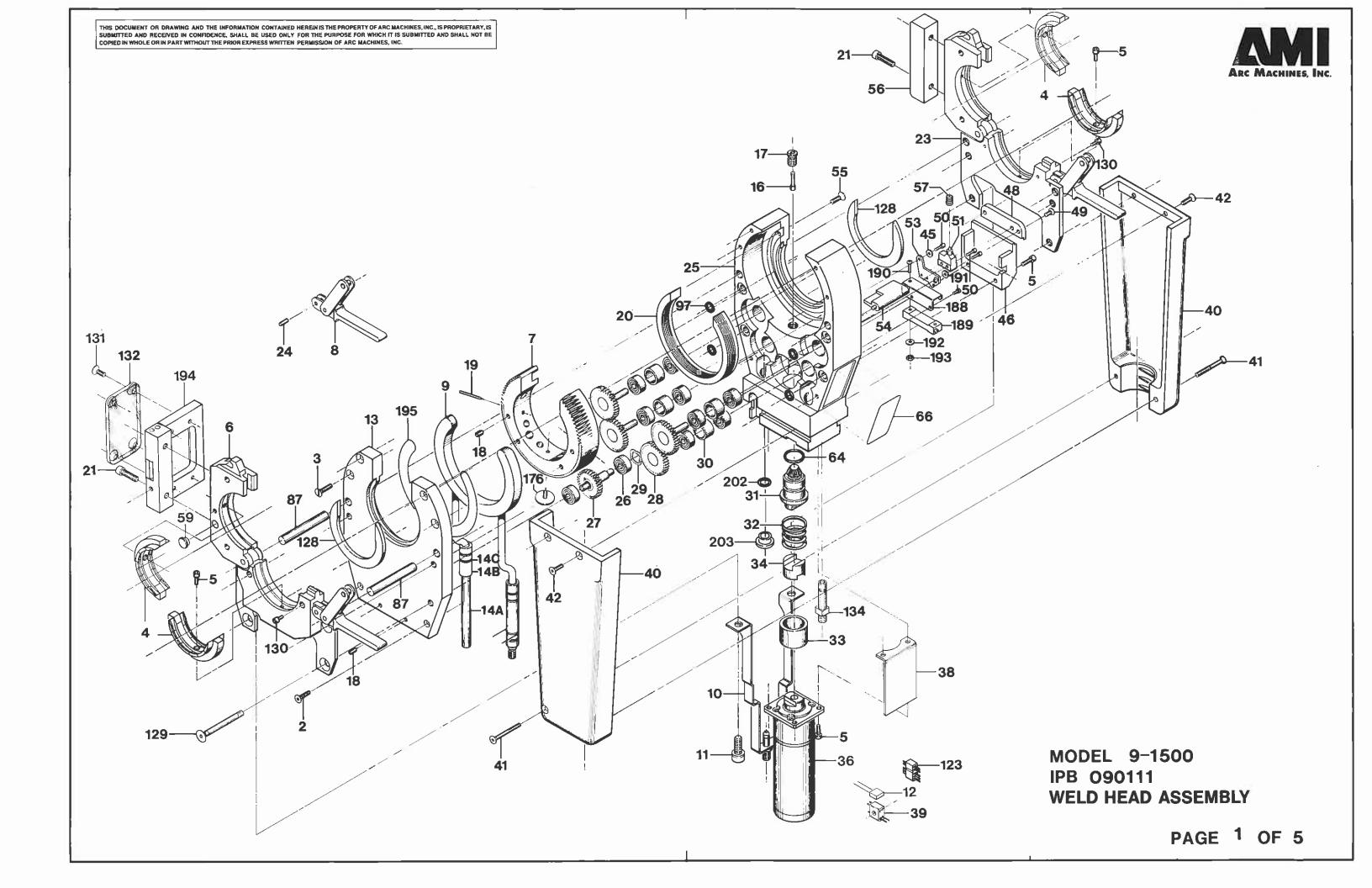


WELD HEAD MODEL NO.	KIT WITH 1/16 TUNGSTEN HOLDER PART NO.	KIT WITH 3/32 TUNGSTEN HOLDER PART NO.	TUNGSTEN EXTENDER ROTATION DIA.
9-1500	13090796-01	13090796-02	2.031
9-2500	13090796-05	13090796-06	3.156
9-3500	13090796-05	13090796-06	4.031
9-4500	13090796-03	13090796-04	4.920
9-7500	13090796-05	13090796-06	8.280

NOTES:

- 1. PART NUMBERS SHOWN ARE FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE.
- 2. CONTACT AMI SALES OR SERVICES FOR SPECIFIC PART NUMBER.

Doc No. 750015 REV F



IPB NUMBER: 090111 TO ORDER ARC MACHINES, INC.

USE PART NUMBER DO NOT USE IPB ITEM NUMBER

PRODUCT MODEL: M9-1500
DESCRIPTION: MAIN ASSEMBLY

MANUAL NUMBER: 730015

IPB ITEM				
NUMBER	QTY	U/M	PART NUMBER	DESCRIPTION
1	0	-	-	
2	2	EA	SFS04-40-0.50NP	SCREW FLH SKT 4-40 1/2 L
3	4	EA	SFL06-32-0.62NY	SCREW FLH SLT 6-32 5/8 L NYL
4	0	_	~	TUBE CLAMP INSERT-ORD BY SIZE
5	10	EA	SCS04-40-0.31NP	SCREW CAP SKT 4-40 5/16 L
6	1	EA	130905269-01	CLAMP HSG COVER SIDE
7	1	EA	13090776-01	ROTOR 9-1500
8	2	EA	13090565-01	LATCH ASSY M9-1500, 2500, 3500
9	1	EA	13090729-01	CONDUCTOR RING 9-1500
10	1	EA	13090730-01	GROUND STRAP
11	2	EA	SCS25-20-0.62SP	SCREW CAP SKT 1/4-20 5/8 L SP
12	1	EA	CK06BX104K	CAP 0.1MF 100V 10%
13	1	EA	42090155-01	COVER HSG 9-1500
14A	0.5	FT	029173	TBG SILICONE 1/8ID 1/4OD RED
14B	0.08	FT	FP-301-0.25	TBG SHRINK
14C	18	IN	MS20995C25	LOCKWIRE 1LB SPOOL .025D 304SS
15	0	-	-	
16	1	EA	42090704-02	PUSH ROD LIMIT SW
17	1	EA	42090704-01	BUSHING PUSH ROD
18	4	EA	SSS06-32-18NPCU	SCREW SET SKT 6-32 3/16 L CUPT
19	0	-	_	
20	1	EA	42090702-02	GUIDE RING
21	4	EA	SCS08-32-0.62NP	SCREW CAP SKT 8-32 5/8 L
22	0	-	-	
23	1	EA	130905268-01	CLAMP HSG HSG SIDE
24	2	EA	PD12-0.31SS	PIN DOWEL 1/8D 5/16L SST
25	1	EA	42090154-01	HOUSING MAIN 9-1500
26	10	EA	SSR-3LLRA3P25[BEARING BALL .18 .50 [LY13]
27	1	ΕA	13090600-02	GEAR DRIVE
28	4	EA	13090600-01	GEAR IDLER
29	1	EA	SV-8	SPRING WAVE WASHER .351D .44
30	4	EA	42090602-02	SPACER BRG
31	1	EA	13090602-07	GEAR PINION DRIVE
32	1	EA	15156	SPRING CPRSN .81D .70L .067W
33	1	EA	42090602-04	SPACER SPRING
34	1	EA	42090602-03	COUPLING INSULATING DELRIN
35	1	EA	13090800-01	CABLE M9 10 FT

IPB NUMBER: 090111 TO ORDER ARC MACHINES, INC.

USE PART NUMBER DO NOT USE IPB

NOT USE IPB PRODUCT MODEL: M9-1500

ITEM NUMBER DESCRIPTION: MAIN ASSEMBLY

MANUAL NUMBER: 730015

NUMBER	YTQ	U/M	PART NUMBER	DESCRIPTION
36	1	EA	13090602-02	MOTOR DRIVE PINION 112 RPM
37	0	_	-	
38	1	EA	42091102-04	INSULATOR SKIRT
39	1	EA	JF2P2SCD	CONN 4 PIN PLUG MINIATURE
40	2	EA	42090104-01	HANDLE
41	2	EA		SCREW FLH SKT 4-40 1.00 L
42	4	EA	SFS04-40-0.37NP	SCREW FLH SKT 4-40 3/8 L
43	ō		-	*****
44	Ō	_	_	
45	2	EA	W02NP-FL	WASHER FL #2
46	ī	EA	42091102-02	COVER LIMIT SW LWR 9-1500
47	Õ	_	_	
48	ĭ	EA	42091102-01	COVER LIMIT SW UPPER
49	2	EA	SFS04-40-0.18NP	·
50	4	EA	SCS02-56-0.25NP	·
51	1	EA	MMGGD1D0C	SWITCH LIMIT PLUNGER
52	Ô	_	-	
53	1	EA	42091103-01	
54	î	EA	42091100-01	
55	5	EA	SFL06-32-0.43NY	
56	1	EA	42090515-02	CLOSURE END
57	1	EA	L-14	SPRING CPRSN .25D .43L .020W
5 <i>7</i> 58	0	- -	- D-14	SPRING CPRSN .23D .43B .020W
59	1	EA	650	PLUG 1/4 DIA HOLE
64	1	EA	2-014	O RING .489 ID .070 W
6 5 —	بل ع	BA -		CONN 4 SOCKET RECEPTACLE-MINTR
66	1	EA	420901111-02	
87	1 2	EA	420901111-02	PIN .250D 1.72L 9-1500
88		<u>-</u>	42090164-02	PIN .250D 1.72D 9-1500
	0	_	-	
89	U		40060000	GOVERNO O AD GOVER AGE OF ADA
92		EA	42060800-02	
93	<u>.</u>	EA	- S 252 B	
94	.	BA	294 - PMD - 04	DO NOT CELL UCB. 1351109 01
95	1	BA	M93106B18-1P	CONN 10 PIN PLUC
96		EA	G1501N186A3A -	CONN BACKSHELL
97	4	EA	2-008	O RING .187 ID .070 W VITON
98	0	-	-	

IPB NUMBER: 090111 TO ORDER ARC MACHINES, INC.

USE PART NUMBER DO NOT USE IPB ITEM NUMBER

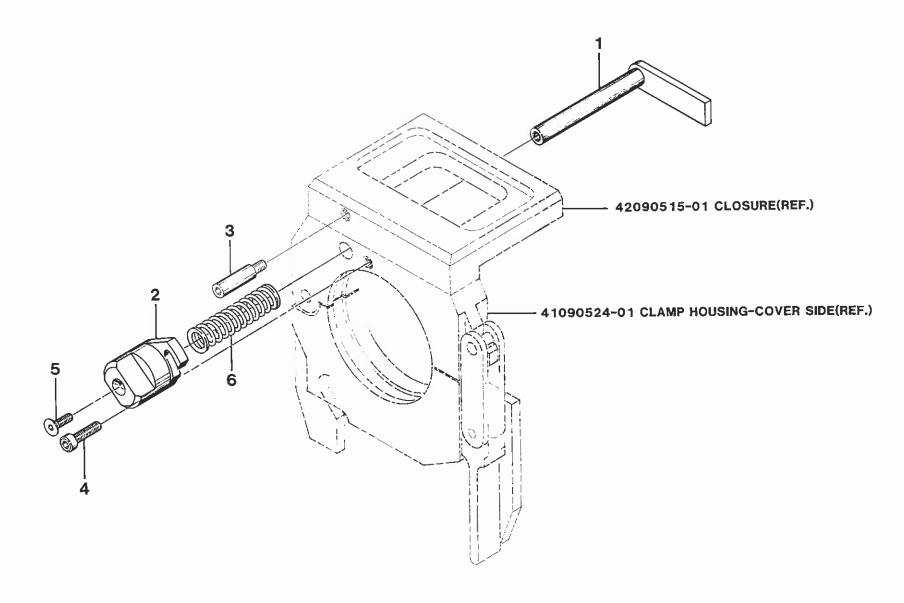
PRODUCT MODEL: M9-1500

DESCRIPTION: MAIN ASSEMBLY

MANUAL NUMBER: 730015

NUMBER	QTY	U/M	PART NUMBER	DESCRIPTION
99	1-		M639056 3	CONN TELESCOPIC BUSHING
123	1	EA	5 PM	OBS USE 7051
124	1	Γλ	<u> 5PF</u>	OBS USE 7052
125	0	-	_	
126		EV	2PF1	FTG 1/4 20 FEMALE
137		EA	12060800 01	- OBS - (USE ARC-1881)
128	2	EA	420907168-01	HEAT SHIELD 9-1500
129	4	EA	13090124-01	SCREW INSULATED
130	4	EA	SCS04-40-0.37NP	SCREW CAP SKT 4-40 3/8 L
131	4	EA	SFL06-32-0.31NY	SCREW FLH SLT 6-32 5/16 L NYL
132	1	EA	42090515-03	WINDOW
134	1	EA	13090803-01	TUBE FTG GAS
135	1	EA	R61002GEB	- TERM 16 14 AWG #6
144	1	EV	12060805 01	BOOT MALE CAS
145		<u> </u>	42060804 01	BOOT MALE POWER/GROUND
146	2	-BA	42060800-07	FTG COUPLING HOSE/CABLE
147	0	-	-	
174	1	EA	261 PG 04	PTC NUT/CLEEVE CPRING 1/4 TUBE
175	1	EA	AS200718	SPRING-GUARD .34 OD 18.00 LG
176	1	EA	420907156-01	CAM LIMIT SWITCH
105	1	EA	1350110 04	DUST CAP ACCY W/CHAIN (MALE10D)
186	0	_	-	
188	1	EA	420901131-01	RETAINER TRIM POT M9-1500
189	1	EA	3057L-1-103	POT TRIM 10K OHM 1.25L
190	1	EA	SBS02-56-0.37NP	SCREW BTH SKT 2-56 3/8 L
191	2	EA	SCS02-56-0.12NP	SCREW CAP SKT 2-56 1/8 L
192	1	EA	W02NP-FL	WASHER FL #2
193	1	EA	NO2-56ZP-HEX	NUT 2-56
194	1	EA	130905214-01	CLOSURE FLIP-TOP M9-1500
195	1	EA	420907215-01	PLATE BACKING M9-1500
200		<u> च्य</u> ि	DUCT-0.87 50 W	CONDUIT WHT 0.87 ID
201	- 6	IN	- M23053/5 111 0	TBC-SHRINK 1-1/2 ID BLK
202	1	EA	2-010-S604-70	O RING .238 ID .070 W SILICONE
203	1	EA	420901126-02	GROMMET





MODEL 9-1500 IPB 090512 LOCATING ARM KIT

TO ORDER IPB NUMBER: 090512 ARC MACHINES, INC.

USE PART NUMBER

DO NOT USE IPB PRODUCT MODEL: 9-1500

DESCRIPTION: DESCRIPTION: LOCATING ARM KIT MANUAL NUMBER: 730015 ITEM NUMBER

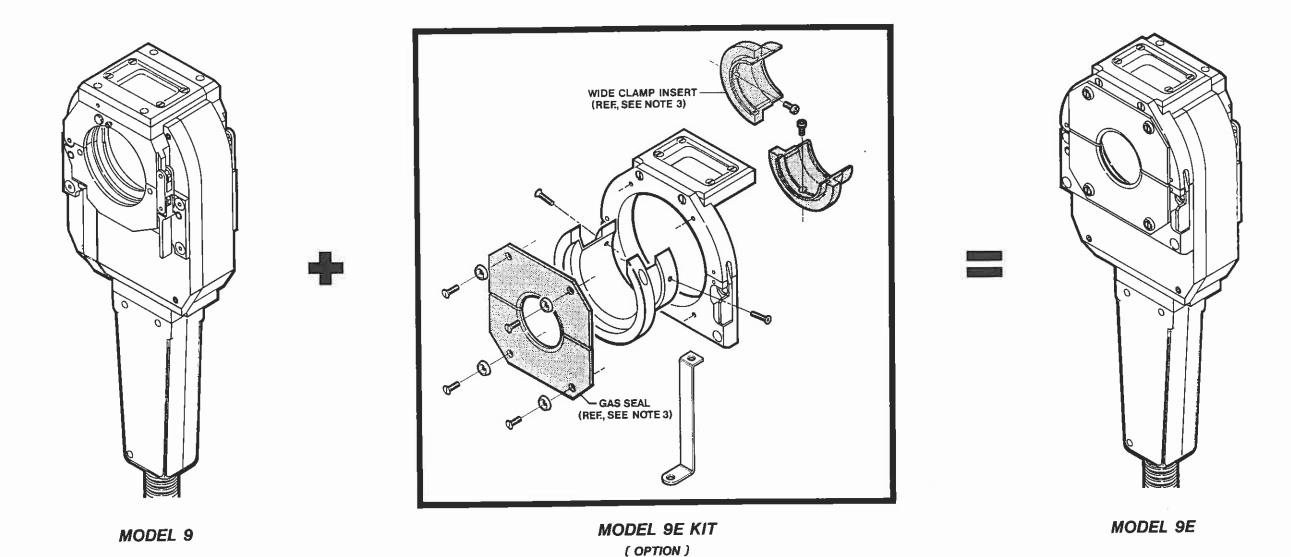
_	IPB ITEM NUMBER	QTY	U/M	PART NUMBER	DESCRIPTION
		-	מיכון	120005107.01	ARM LOCATING BRAZED M9CT-1500
	Τ.	т.	EA	130905107-01	
	2	1	EA	130905108-01	KNOB ASSY 1500 2500 3500 4500
	3	1	EA	420905277-04	STOP (44D22)
	4	1	EA	SCS04-40-0.37NP	SCREW CAP SKT 4-40 3/8 L
	5	1	EA	SFS02-56-0.31NP	SCREW FLH SKT 2-56 5/16 L
	6	1	EA	`S-910	SPRING CPRSN .31D 2.00L .024W



MODEL 9 CONVERSION TO MODEL 9E INSTRUCTIONS

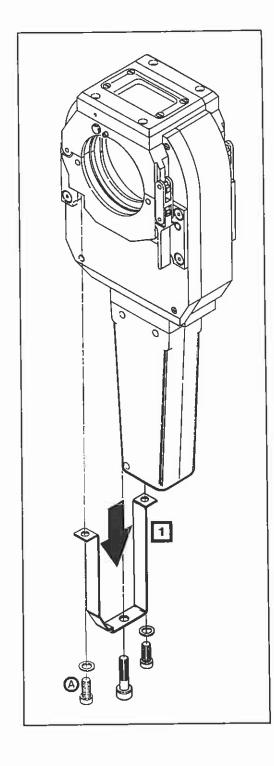
P/N 750031

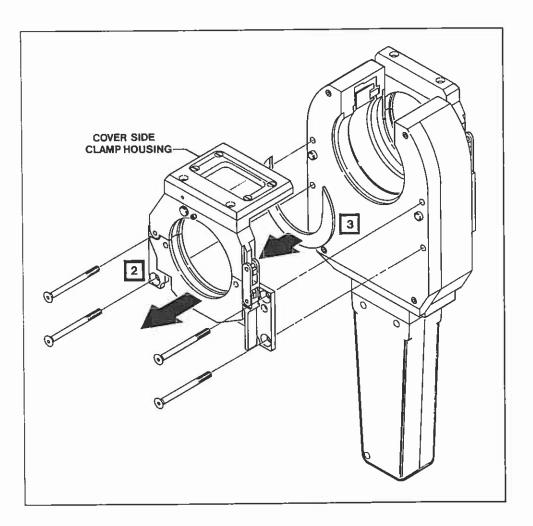
(MODELS 9-1500, 9-2500, 9-3500, 9-4500 AND 9-7500)

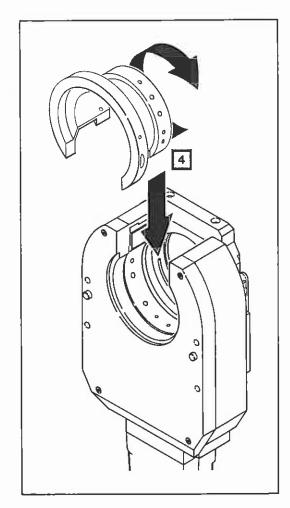


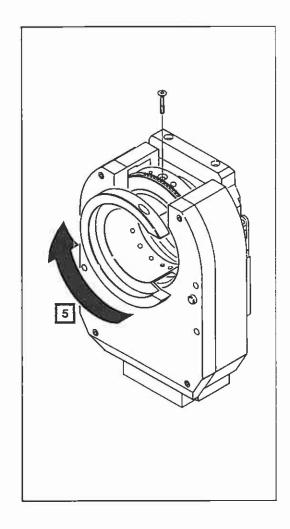
- NOTES: 1. TO ORDER MODEL 9E KIT SPECIFY WELD HEAD MODEL NUMBER.
 - 2. MODEL 9-2500 USED FOR ILLUSTRATION.
 - 3. WIDE CLAMP INSERT AND GAS SEAL ARE NOT INCLUDED IN KIT.
 TO ORDER WIDE CLAMP INSERT AND GAS SEAL SPECIFY TUBE SIZE (O.D.).





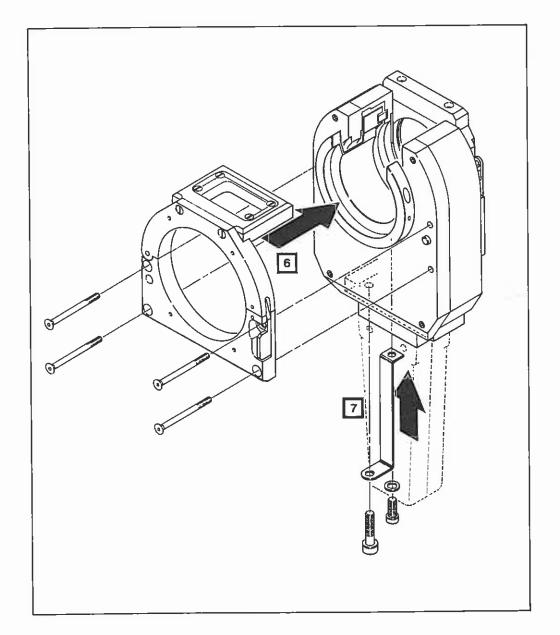


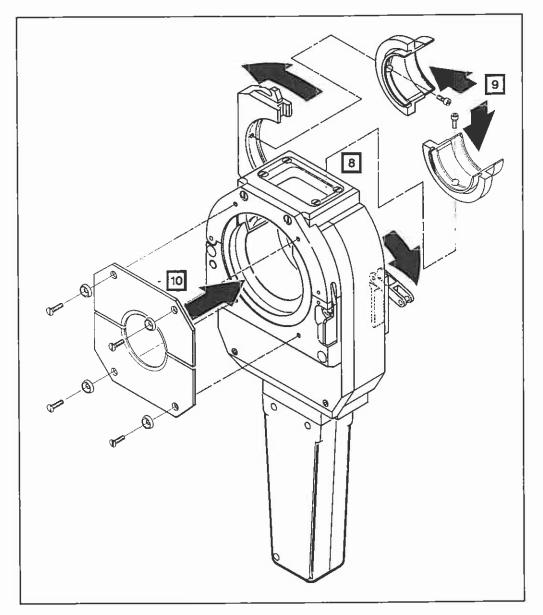




- REMOVE ORIGINAL GROUND STRAP EXCEPT ON MODEL 9-1500 REMOVE SCREW (A) ONLY (ORIGINAL GROUND STRAP IS USED).
- 2 REMOVE COVER SIDE CLAMP HOUSING.
- 3 REMOVE HEAT SHIELD.
- 4 INSTALL ROTOR EXTENSION FROM THE KIT.
- 5 CONNECT WELD HEAD TO POWER SUPPLY AND JOG ROTOR UNTIL ROTOR EXTENSION MOUNTING SCREW HOLE IS ACCESSIBLE. INSTALL MOUNTING SCREWS (2 TO 4 EACH DEPENDING ON MODEL #) AND TIGHTEN.







- 6 MOUNT THE GAS SEAL HOUSING ASSEMBLY FROM THE KIT TO THE WELD HEAD USING ORIGINAL SCREWS.
- 7 INSTALL GROUND STRAP FROM THE KIT USING ORIGINAL SCREWS, EXEPT FOR MODEL 9-1500 USE ORIGINAL GROUND STRAP AND SCREWS.
- 8 OPEN HOUSING SIDE CLAMP.
- 9 INSTALL WIDE CLAMP INSERT ASSEMBLY (NOT PROVIDED IN CONVERSION KIT).
- 10 INSTALL GAS SEAL ASSEMBLY (NOT PROVIDED IN CONVERSION KIT).

PAGE 1 OF 6

MODEL 9E-1500 IPB 090101 CABLE

PAGE 2 OF 6

IPB NUMBER: 090101

TO ORDER USE PART NUMBER

ARC MACHINES, INC.

DO NOT USE IPB PRODUCT MODEL: M9-1500

ITEM NUMBER DESCRIPTION:

MAIN ASSEMBLY MODEL 9E

MANUAL NUMBER: 730015

NOTES:

5	IPB ITEM NUMBER	QTY	U/M	PART NUMBER	DESCRIPTION	
2	1	0	_	_		
SCRW CAP SKT 4-40 5/16 L	2	2	EA	SFS04-40-0.50NP	SCREW FLH SKT 4-40 1/2 L	
5						
6 1 EA 13090550-01 HOUSING GAS SEAL 9E-1500 7 1 EA 13090776-01 ROTOR 9-1500 ITEMS 18 AND 176 INCLUDE 8 2 EA 130907650-01 LATCH ASSY M9-1500, 2500, 3500 9 1 EA 13090729-01 CONDUCTOR RING 9-1500 10 1 EA 13090730-01 GROUND STRAP 11 1 EA SCS25-20-0.62SP SCREW CAP SKT 1/4-20 5/8 L SP 12 1 EA CK06BX104K CAP 0.1MF 100V 10* 13 1 EA 42090155-01 COVER HSG 9-1500 14A 0.5 FT 029173 TBG SILICONE 1/8ID 1/40D RED 14B 0.08 FT FP-301-0.25 TBG SRINK 14C 18 IN MS20995C25 LOCKWIRE 1LB SPOOL .025D 304SS 15 0	4	0	-	-		WIDE CLAMP INSERT-ORD BY SIZE
6 1 EA 13090550-01 HOUSING GAS SEAL 9E-1500 7 1 EA 13090776-01 ROTOR 9-1500 ITEMS 18 AND 176 INCLUDE 8 2 EA 130907650-01 LATCH ASSY M9-1500, 2500, 3500 9 1 EA 13090729-01 CONDUCTOR RING 9-1500 10 1 EA 13090730-01 GROUND STRAP 11 1 EA SCS25-20-0.62SP SCREW CAP SKT 1/4-20 5/8 L SP 12 1 EA CK06BX104K CAP 0.1MF 100V 10* 13 1 EA 42090155-01 COVER HSG 9-1500 14A 0.5 FT 029173 TBG SILICONE 1/8ID 1/40D RED 14B 0.08 FT FP-301-0.25 TBG SRINK 14C 18 IN MS20995C25 LOCKWIRE 1LB SPOOL .025D 304SS 15 0	5	2	EA	SCS04-40-0.31NP	SCREW CAP SKT 4-40 5/16 L	
8 2 EA 13090565-01 LATCH ASSY M9-1500, 2500, 3500 9 1 EA 13090729-01 CONDUCTOR RING 9-1500 10 1 EA 13090730-01 GROUND STRAP 11 1 EA SCS25-20-0.628P SCREW CAP SKT 1/4-20 5/8 L SP 12 1 EA CK66EX104K CAP 0.1MF 100V 10% 13 1 EA 42090155-01 COVER HSG 9-1500 14A 0.5 FT 029173 TBG SILICONE 1/8ID 1/40D RED 14B 0.08 FT FP-301-0.25 TBG SHRINK 14C 18 IN MS20995C25 LOCKWIRE 1LB SPOOL .025D 304SS 15 0			EA	13090550-01	HOUSING GAS SEAL 9E-1500	
9 1 EA 13090729-01 CONDUCTOR RING 9-1500 10 1 EA 13090730-01 GROUND STRAP 11 1 EA SC\$25-20-0.62\$P SCREW CAP SKT 1/4-20 5/8 L SP 12 1 EA CK06EX104K CAP 0.1MF 100V 10% 13 1 EA 42090155-01 COVER HSG 9-1500 14A 0.5 FT 029173 TEG SILICONE 1/8ID 1/4OD RED 14B 0.08 FT FP-301-0.25 TEG SHINK 14C 18 IN M\$20995C25 LOCKWIRE 1LB SPOOL .025D 304SS 15 0		1	EA	13090776-01	ROTOR 9-1500	ITEMS 18 AND 176 INCLUDED
9 1 EA 13090739-01 CONDUCTOR RING 9-1500 10 1 EA 13090730-01 GROUND STRAP 11 1 EA SCS25-20-0.62SP SCREW CAP SKT 1/4-20 5/8 L SP 12 1 EA CK06EX104K CAP 0.1MF 100V 10% 13 1 EA 4 2090155-01 COVER HSG 9-1500 14A 0.5 FT 029173 TBG SILICONE 1/8ID 1/4OD RED 14B 0.08 FT FP-301-0.25 TBG SHRINK 14C 18 IN MS20995C25 LOCKWIRE 1LB SPOOL .025D 304SS 15 0	8	2	EA	13090565-01	LATCH ASSY M9-1500, 2500, 3500	
11	9	1	EA		CONDUCTOR RING 9-1500	
12	10	1	EA	13090730-01	GROUND STRAP	
13	11	1	EA	SCS25-20-0.62SP	SCREW CAP SKT 1/4-20 5/8 L SP	
14A 0.5 FT 029173 TBG SILICONE 1/8ID 1/4OD RED 14B 0.08 FT FP-301-0.25 TBG SHRINK 14C 18 IN MS20995C25 LOCKWIRE 1LB SPOOL .025D 304SS 15 0	12	1	EA	CK06BX104K	CAP 0.1MF 100V 10%	
14B	13	1	EA	42090155-01	COVER HSG 9-1500	
14C	14A	0.5	${f FT}$	029173	TBG SILICONE 1/8ID 1/40D RED	
15 0	14B	0.08	FT	FP-301-0.25	TBG SHRINK	
16	14C	18	IN	MS20995C25	LOCKWIRE 1LB SPOOL .025D 304SS	
17	15	0	-	_		
18	16	1	EA	42090704-02	PUSH ROD LIMIT SW	
19 0	17	1	EA	42090704-01	BUSHING PUSH ROD	
19 0 GUIDE RING 21 2 EA SCS08-32-0.62NP SCREW CAP SKT 8-32 5/8 L 22 1 EA 420905165-01 CLOSURE 9E-1500 23 1 EA 13090525-01 CLAMP HSG HSG SIDE 24 2 EA PD12-0.31SS PIN DOWEL 1/8D 5/16L SST 25 1 EA 42090154-01 HOUSING MAIN 9-1500 26 10 EA SSR-3LLRA3P2[BEARING BALL .18 .50 [5LY-101] 27 1 EA 13090600-02 GEAR DRIVE 28 4 EA 13090600-01 GEAR IDLER 29 1 EA SV-8 SPRING WAVE WASHER .351D .44 30 4 EA 42090602-02 SPACER BRG 31 1 EA 13090602-07 GEAR PINION DRIVE	18	2	EA	SSS06-32-18NPCU	SCREW SET SKT 6-32 3/16 CUPT	
21	19	0	_			
22	20	1	EA	42090702-02	GUIDE RING	
1 EA 13090525-01 CLAMP HSG HSG SIDE 24 2 EA PD12-0.31SS PIN DOWEL 1/8D 5/16L SST 25 1 EA 42090154-01 HOUSING MAIN 9-1500 26 10 EA SSR-3LLRA3P2[BEARING BALL .18 .50 [5LY-101] 27 1 EA 13090600-02 GEAR DRIVE 28 4 EA 13090600-01 GEAR IDLER 29 1 EA SV-8 SPRING WAVE WASHER .351D .44 30 4 EA 42090602-02 SPACER BRG 31 1 EA 13090602-07 GEAR PINION DRIVE	21	2	EA	SCS08-32-0.62NP	SCREW CAP SKT 8-32 5/8 L	
24		1	EA	420905165-01	CLOSURE 9E-1500	
1 EA 42090154-01 HOUSING MAIN 9-1500 26 10 EA SSR-3LLRA3P2[BEARING BALL .18 .50 [5LY-101] 27 1 EA 13090600-02 GEAR DRIVE 28 4 EA 13090600-01 GEAR IDLER 29 1 EA SV-8 SPRING WAVE WASHER .351D .44 30 4 EA 42090602-02 SPACER BRG 31 1 EA 13090602-07 GEAR PINION DRIVE	23		EA	13090525-01	CLAMP HSG HSG SIDE	
26	24	2	EA	PD12-0.31SS	PIN DOWEL 1/8D 5/16L SST	
27	25	1	EA	42090154-01	HOUSING MAIN 9-1500	
28 4 EA 13090600-01 GEAR IDLER 29 1 EA SV-8 SPRING WAVE WASHER .351D .44 30 4 EA 42090602-02 SPACER BRG 31 1 EA 13090602-07 GEAR PINION DRIVE	26	10	EA	SSR-3LLRA3P2[BEARING BALL .18 .50 [5LY-101]	
31 1 EA 13090602-07 GEAR PINION DRIVE		1				
31 1 EA 13090602-07 GEAR PINION DRIVE				13090600-01	GEAR IDLER	
31 1 EA 13090602-07 GEAR PINION DRIVE				SV-8	SPRING WAVE WASHER .351D .44	
31 1 EA 13090602-07 GEAR PINION DRIVE				42090602-02	SPACER BRG	
32 1 EA 15156 SPRING CPRSN .81D .70L .067W		1	EA	13090602-07	GEAR PINION DRIVE	
				15156	SPRING CPRSN .81D .70L .067W	
33 I EA 42090602-04 SPACER SPRING	33	1	EA	42090602-04	SPACER SPRING	
34 1 EA 42090602-03 COUPLING INSULATING DELRIN		1				
35 1 EA 13090800-01 CABLE M9 10 FT	35	1	EA			

PRICE, PART NUMBER AND DESCRIPTION SUBJECT TO CHANGE WITHOUT NOTICE

ARC MACHINES, INC. IPB NUMBER: 090101 TO ORDER

USE PART NUMBER DO NOT USE IPB

PRODUCT MODEL: M9-1500 ITEM NUMBER MAIN ASSEMBLY MODEL 9E DESCRIPTION:

MANUAL NUMBER: 730015 NOTES:

IPB ITEM NUMBER	QTY	U/M	PART NUMBER	DESCRIPTION	
36	1	EA	13090602-02	MOTOR DRIVE PINION 112 RPM ITEMS 12 AND	39 INCLUDED
37	4	EA	SCS04-40-0.31NP	SCREW CAP SKT 4-40 5/16 L	
38	1	EA	42091102-04	INSULATOR SKIRT	
39	1	EA	JF2P2SCD	CONN 4 PIN PLUG MINIATURE	
40	2	EA	42090104-01	HANDLE	
41	2	EA	SFS04-40-1.00NP	SCREW FLH SKT 4-40 1.00 L	
42	4	EA	SFS04-40-0.37NP	SCREW FLH SKT 4-40 3/8 L	
43	1	EA	117S-10K	POT TRIM 10K OHM	
44	2	EA	SCS02-56-0.31NP	SCREW CAP SKT 2-56 5/16 L	
45	2	EA	W02NP-FL	WASHER FL #2	
46	1	EA	42091102-02	COVER LIMIT SW LWR 9-1500	
47	2	EA	SCS04-40-0.31NP	SCREW CAP SKT 4-40 5/16 L	
48	1	EA	42091102-01	COVER LIMIT SW UPPER	
49	2	EA	SFS04-40-0.31NP	SCREW FLH SKT 4-40 5/16 L	
50	4	EA	SCS02-56-0.25NP	SCREW CAP SKT 2-56 1/4 L	
51	1	EA	MMGGD1D0C	SWITCH LIMIT PLUNGER	
52	0	_	-		
53	1	EA	42091103-01	PLATE MTG LIMIT SWITCH	
54	1	EA	13091100-01	PLATE MTG LIMIT SWITCH LEVER ASSY LIMIT SW ACTB	
55	5	EA	SFL06-32-0.43NY	SCREW FLH SLT 6-32 7/16 L NYL	
56	1	EA	42090515-02	CLOSURE END	
57	1	EA	L-14	SPRING CPRSN .25D .43L .020W	
58	0	_	_		
64	1	EA	2-014	O RING .489 ID .070 W	
65	1	EA	JF2S2PCD	CONN 4 SOCKET RECEPTACLE MINTR	
66	0	_	-		
87	0	EA	42090164-02	PIN .250D 1.72L 9-1500	
88	0	_	_		
95	1	EA	42060800-02		
93	1	EA	SM252B		
94	1	EA	294-PMD-04	DO NOT SELL USE: 1351109-01	
95	1	EA	MS3106E18-1P G1501N186A3A	CONN 10 PIN PLUG	
96	1	EA	G1501N186A3A		
97	4	EA	2-008	O RING .187 ID .070 W VITON	
98	0	-	<u></u>		
99	1	EA	MS39056-3	CONN TELESCOPIC BUSHING	
123	1	EA	5PM	OBS USE 7051	

IPB NUMBER: 090101 TO ORDER ARC MACHINES, INC.

USE PART NUMBER DO NOT USE IPB

PRODUCT MODEL: M9-1500 ITEM NUMBER

DESCRIPTION: MAIN ASSEMBLY MODEL 9E

MANUAL NUMBER: 730015

NOTES:

PB ITEM NUMBER	QTY	U/M	PART NUMBER	DESCRIPTION	
124	1	BA	5PF -		
125	2	EA	SCS08-32-0.37NP	SCREW CAP SKT 8-32 3/8 L	
126		EA.	2DF1	FTC 1/4-28 FEMALE	
127	- 2	EA	12060800 01	ODS (USE ARC 1981)	
128	1	EA	420907168-01	HEAT SHIELD 9-1500	
129	4	EA	42090174-10	SCREW 9-1500 (SFS10-32-1.75NP)	
130	2	EA	SCS04-40-0.37NP	SCREW CAP SKT 4-40 3/8 L	
131	4	EA	SFL06-32-0.31NY	SCREW FLH SLT 6-32 5/16 L NYL	
132	1	EA	42090515-03	WINDOW	
134	1	EA	13090803-01	TUBE FTG GAS	
135	1	BA	- R61002GSB	TERM 16-14 AWG #6	
144	1	EA	12060805 04	BOOT MALE CAS	
145	2	BA	42060004-01	- BOOT MALE POWER/GROUND	
146	2	BA	- 42060800 07	FTG COUPLING HOSE/CADLE	
147	0	-	-		
150	2	EA	SFS04-40-0.62NP	SCREW FLH SKT 4-40 5/8 L	
151	0	_	-		
153	1	EA	13090737-01	ROTOR EXTENSION 9E-1500	
154	2	EA	SSS04-40-18NPCU	SCREW SET SKT 4-40 3/16 CUPT	
155	4	EA	SFL06-32-0.50NY	SCREW FLH SLT 6-32 1/2 L NYL	
156	0	-	-		GAS SEAL-ORD BY S
157	4	EA	11SFW0008	WASHER NYLON FINISHING #8	
158	0	-	~		
174	1	EA	261-PG-04	PTG NUT/SLEEVE SPRING 1/4 TUBE	
175	1	-EA	A0200710	-SPRING GUARD .34 OD 18.00 LG	
176	1	EA	42090703-02	CAM LIMIT SWITCH 9TS-900	
105	1	BA	1350110 04	- DUCT CAP ASSY W/CHAIN (MALE18D)	
188	1	EA	420901131-01	RETAINER TRIM POT M9-1500	
189	1	EA	3057L-1-103	POT TRIM 10K OHM 1.25L	
190	1	EA	SBS02-56-0.37NP	SCREW BTH SKT 2-56 3/8 L	
191	2	EA	SCS02-56-0.12NP	SCREW CAP SKT 2-56 1/8 L	
192	1	EA	W02NP-FL	WASHER FL #2	
193	1	EA	N02-56ZP-HEX	NUT 2-56	
194	1	EA	420907215-01	PLATE BACKING M9-1500	
200	- 9 -	PT	DUCT-0.87 50 W	CONDUIT WHT 0.87 ID	
201 —	6	IN	M23053/5 111 0	TDC SHRINK 1 1/2 ID BLK	
202	1	EA	2-010-S604-70	O RING .238 ID .070 W SILICONE	

PRICE, PART NUMBER AND DESCRIPTION SUBJECT TO CHANGE WITHOUT NOTICE

IPB NUMBER: 090101 TO ORDER ARC MACHINES, INC.

USE PART NUMBER DO NOT USE IPB

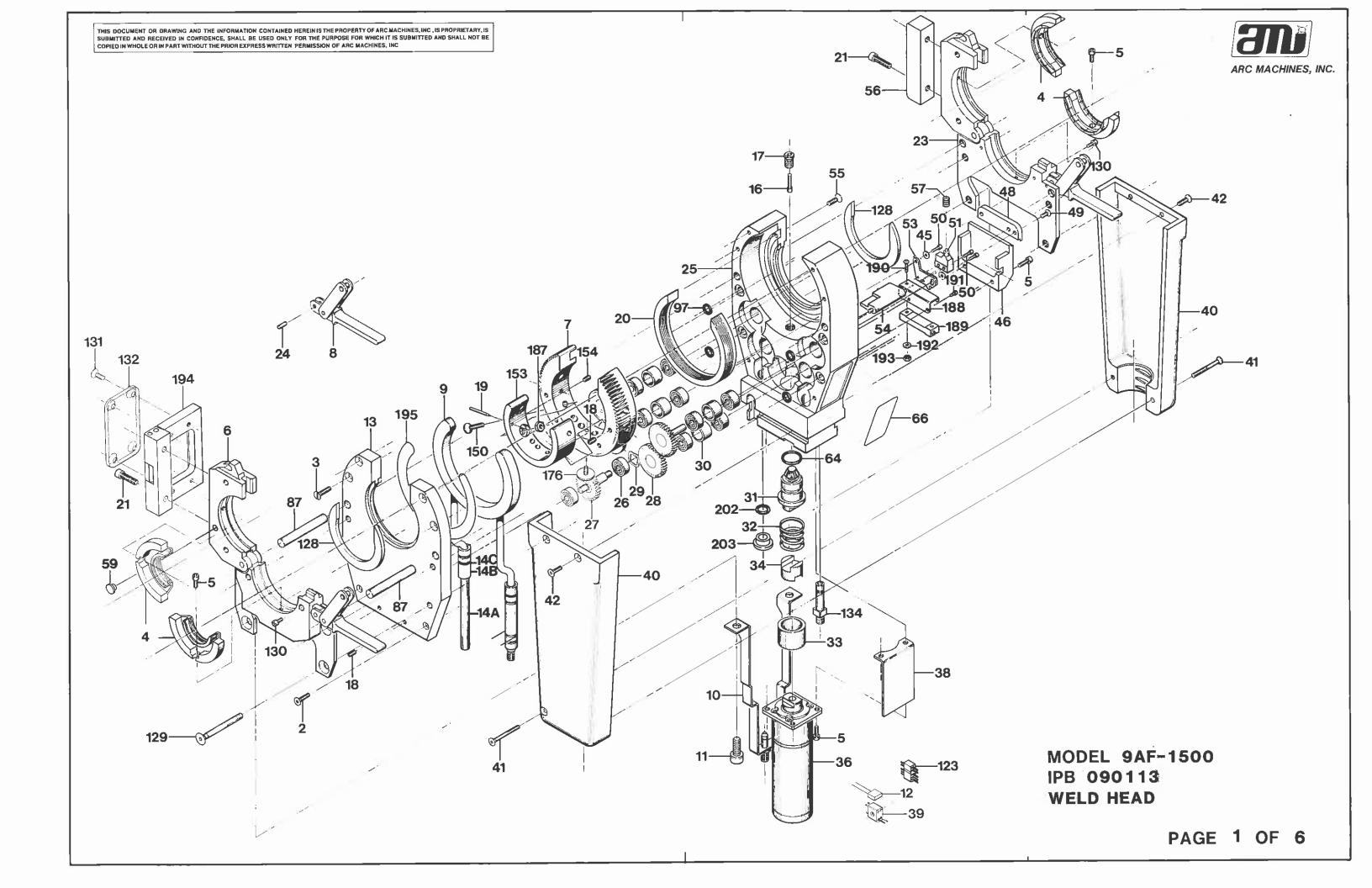
O NOT USE IPB PRODUCT MODEL: M9-1500
ITEM NUMBER DESCRIPTION: MAIN ASSEMBLY MODEL 9E

MANUAL NUMBER: 730015

NOTES:

IPB ITEM
NUMBER QTY U/M PART NUMBER DESCRIPTION

203 1 EA 420901126-02 GROMMET



PAGE 2 OF 6

IPB NUMBER: 090113 TO ORDER ARC MACHINES, INC.
USE PART NUMBER

DO NOT USE IPB
ITEM NUMBER

PRODUCT MODEL: M9-1500
DESCRIPTION: MAIN ASSEMBLY MODEL 9AF

MANUAL NUMBER: 730015

IPB ITEM NUMBER	QTY	U/M	PART NUMBER	DESCRIPTION
1	0	_	_	
2	2	EA	SFS04-40-0.50NP	SCREW FLH SKT 4-40 1/2 L
3	4	EA	SFL06-32-0.62NY	
4	0	-	_	TUBE CLAMP INSERT-ORD BY SIZE
5	10	EA	SCS04-40-0.31NP	SCREW CAP SKT 4-40 5/16 L
6	1	EA	13090524-01	CLAMP HSG COVER SIDE
7	1	EA	13090776-01	ROTOR 9-1500
8	2	EA	13090565-01	LATCH ASSY M9-1500, 2500, 3500
9	1	EA	13090729-01	CONDUCTOR RING 9-1500
10	1	EA	13090730-01	GROUND STRAP
11	2	EA	SCS25-20-0.62SP	SCREW CAP SKT 1/4-20 5/8 L SP
12	1	EA	CK06BX104K	CAP 0.1MF 100V 10%
13	1	EA	42090155-01	COVER HSG 9-1500
14A	0.5	FT	029173	TBG SILICONE 1/8ID 1/40D RED
14B	0.08	FT	FP-301-0.25	TBG SHRINK
14C	18	IN	MS20995C25	LOCKWIRE 1LB SPOOL .025D 304SS
15	0	_	_	
16	1	EA	42090704-02	PUSH ROD LIMIT SW
17	1	EA	42090704-01	BUSHING PUSH ROD
18	2	EA	SSS06-32-18NPCU	SCREW SET SKT 6/32 3/16 CUPT
19	0	-		
20	1	EA	42090702-02	GUIDE RING
21	4	EA	SCS08-32-0.62NP	SCREW CAP SKT 8-32 5/8 L
22	0	-	_	
23	1	EA	13090525-01	CLAMP HSG HSG SIDE
24	2	EA	PD12-0.31SS	PIN DOWEL 1/8D 5/16L SST
25	1	EA	42090154-01	HOUSING MAIN 9-1500
26	10	EA	SSR-3LLRA3P2[BEARING BALL .18 .50 [5LY-101]
27	1	EA	13090600-02	GEAR DRIVE
28	4	EA	13090600-01	GEAR IDLER
29	1	EA	SV-8	SPRING WAVE WASHER .351D .44
30	4	EA	42090602-02	SPACER BRG
31	1	EA	13090602-07	GEAR PINION DRIVE
32	1	EA	15156	SPRING CPRSN .81D .70L .067W
33	1		42090602-04	
34	1	EA	42090602-03	
35	1	EA	13090800-01	CABLE M9 10 FT

IPB NUMBER: 090113 TO ORDER ARC MACHINES, INC.

USE PART NUMBER

DO NOT USE IPB PRODUCT MODEL: M9-1500

ITEM NUMBER DESCRIPTION: MAIN ASSEMBLY MODEL 9AF

MANUAL NUMBER: 730015

B ITEM UMBER	QTY	U/M	PART NUMBER	DESCRIPTION	
36	1	EA	13090602-02	MOTOR DRIVE PINION 112 RPM	(INCLUDES ITEMS 12 & 39
37	_		40001100 04	TNOW MOD GRIDE	
38	1	EA	42091102-04	INSULATOR SKIRT	
39	1	EA	JF2P2SCD	CONN 4 PIN PLUG MINIATURE HANDLE	(SET OF 2)
40	1	SET SET	42090104-01	SCREW FLH SKT 4-40 1.00 L	(SET OF 2)
41 42	1 1	SET	SFS04-40-1.00NP SFS04-40-0.37NP	SCREW FLH SKT 4-40 1.00 L	(SET OF 4)
43	1	261		3CADW FIN 3KI 4-40 3/6 I	(551 01 17
44			_		(SET OF 2)
45	1	SET	W02ZP-FL	WASHER FL #2	(SET OF 2)
46	i	EA	42091102-02	COVER LIMIT SW LWR 9-1500	(55% 61 2)
47	1	EA	-		
48	ī	EA	42091102-01	COVER LIMIT SW UPPER	
49	ī	SET	SFS04-40-0.18NP	SCREW FLH SKT 4-40 3/16 L	(SET OF 2)
50	1	SET	SCS02-56-0.25NP	SCREW CAP SKT 2-56 1/4 L	(SET OF 4)
51	ī	EA	MMD	OBS (USE PN MMGGD1D0C)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
52	~		-		
53	1	EA	42091103-01	PLATE MTG LIMIT SWITCH	
54	1	BA	42091100-01	LEVER LIMIT SWITCH	
55	1	EA	SFL06-32-0.43NY		(SET OF 5)
56	ī	EA	42090515-02	CLOSURE END	•
57	1	EA	L-14	OBS - REPLACED BY MM-9	
58			-		
59	1	EA	650	PLUG 1/4 DIA HOLE	
64	1	EA	2-014	O RING .489 ID .070 W	
65	1	BA	JP282PCD	CONN 4 SOCKET RECEPTACLE MINTR	
66	1	EA	420901111-33	NAMEPLATE IDENT TAG 9AF-1500	
87	1	EA	42090164-02	PIN .250D 1.72L 9-1500	
88			_		
92	1-	BA	42060800 02	CPLC Q/D WATER FEM MOD SM 2518	
93	1	EA -	S-252-B	- COUPLING Q/D MALE WATER/POWER	
94	1	EA	294 PMD 04	- DO NOT SELL USE: 1351109-01	
95	1	BA	M63106E18 1P	CONN 10 PIN PLUG	
96	1	EA	C1501N186A3A	CONN BACKEHELL	
97	4	EA	2-008	O RING .187 ID .070 W VITON	
98			-		
99	-1	EA	M639056 3	CONN TELESCOPIC BUSHING	

IPB NUMBER: 090113 TO ORDER ARC MACHINES, INC.

USE PART NUMBER
DO NOT USE IPB
ITEM NUMBER

PRODUCT MODEL: M9-1500

DESCRIPTION: MAIN ASSEMBLY MODEL 9AF

MANUAL NUMBER: 730015

PB ITEM NUMBER	QTY	U/M	PART NUMBER	DESCRIPTION	
123	1	EA	5PM	OBS USE 7051	
124		EA		- OBS-USE -7052	
125			-		
126	1	- BA	2PP1	FTG 1/4 20 FEMALE	
127	1	EA	42060800-01	- OBS (USE ARC 1881)	
128	2	EA	420907168-01	HEAT SHIELD 9-1500	
129	4	EA	13090124-01	SCREW INSULATED	
130	1	SET	SCS04-40-0.37NP		(SET OF 4)
131	1	SET	SFL06-32-0.31NY	SCREW FLH SLT 6-32 5/16 L NYL	(SET OF 4)
132	1	EA	42090515-03	WINDOW	(322 33 1,
134	1	EA	13090803-01	TUBE FTG GAS	
135	1	BA -	R61002GSB	TERM 16-14 AWG #6	
111	1	EA	- 12060805 01	BOOT MALE CAS	
145		EA	- 12060801 01	BOOT MALE POWER/CROUND	
146	2	BA	-12060800 07	- FTC COUPLING HOSE/CABLE	
147			-		
150	1	SET	SFS04-40-0.68NP	SCREW FLH SKT 4-40 11/16 L	(SET OF 2)
151			_		(521 61 2)
153	1	EA	42090789-01	HUB EXTENSION 9-1500	
154	1	SET	420907144-01	OBS USE SSS04-40-18NPCU	(SET OF 2)
155			-		(551 01 5)
174		- BA	261 PG-04	FTG NUT/SLEEVE SPRING 1/4 TUDE	
175 —	1	EA	AC200718	- SPRING CUARD .34 OD 18.00 LG	
176	1	EA	420907156-01	CAM LIMIT SWITCH	
177			_		
185	1	EA	1350110-04	DUST CAP ASSY W/CHAIN(MALE18D)	
187	1	SET	NO4-40ZP-HEX	NUT 4-40	(SET OF 2)
188	1	EA	420901131-01	RETAINER TRIM POT M9-1500	(021 01 2)
189	1	EA	3057L-1-103	POT TRIM 10K OHM 1.25L	
190	1	EA	SBS02-56-0.37NP	SCREW BTH SKT 2-56 3/8 L	
191	2	EA	SCS02-56-0.12NP	SCREW CAP SKT 2-56 1/8 L	
192	1	EA	W02NP-FL	WASHER FL #2	
193	1	EA	N02-56ZP-HEX	NUT 2-56	
194	1	EA	130905214-01	CLOSURE FLIP-TOP M9-1500	
195	1	EA	420907215-01	PLATE BACKING M9-1500	
200-		FT	DUCT 0.87 50 W	CONDUIT WIT 0.07 ID	
201	- 6	IN-	- M23053/5 111 0	TRC SURINK 1-1/2 ID BLK	

IPB NUMBER: 090113 TO ORDER ARC MACHINES, INC.

USE PART NUMBER DO NOT USE IPB

ITEM NUMBER

PRODUCT MODEL: M9-1500

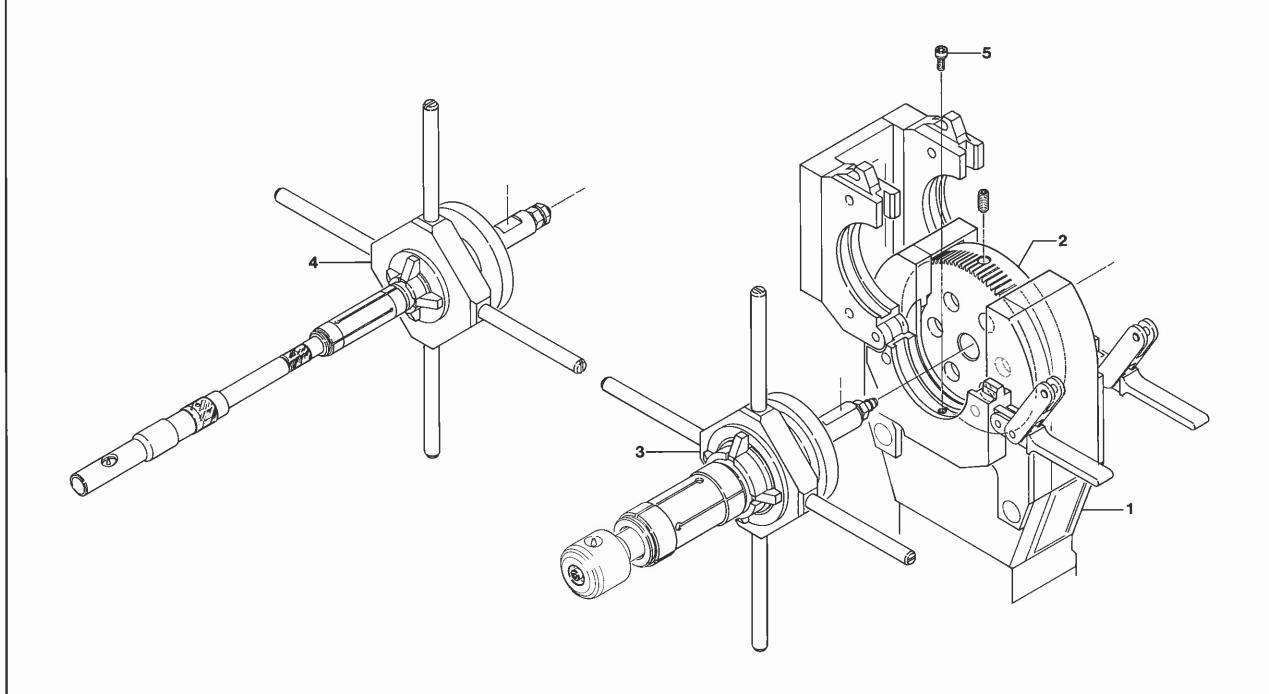
DESCRIPTION: MAIN ASSEMBLY MODEL 9AF

MANUAL NUMBER: 730015

NOTES:

IPB ITEM NUMBER	QTY	U/M	PART NUMBER	DESCRIPTION
202	1	EA	2-010-S604-70	O RING .238 ID .070 W SILICONE
203		EA	420901126-02	GROMMET





MODEL 9BW-1500 IPB 090139 ID WELD HEAD ASSEMBLY

PAGE 1 OF 2

IPB NUMBER:

090139

TO ORDER

ARC MACHINES, INC.

USE PART NUMBER

DO NOT USE IPB

PRODUCT MODEL: 9-1500

ITEM NUMBER DESCRIPTION

DESCRIPTION: ID WELD HEAD ASSEMBLY MANUAL NUMBER: 730015

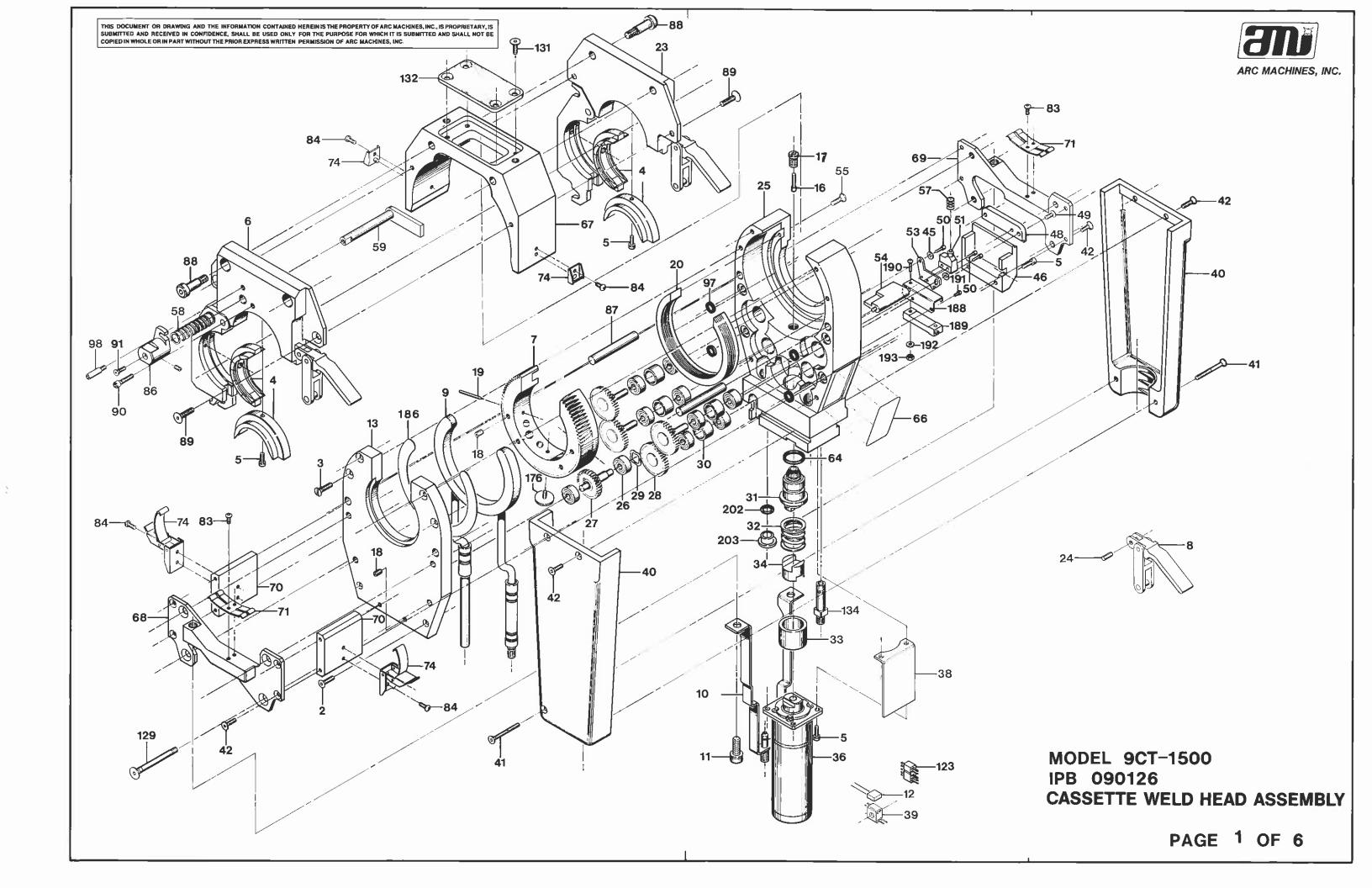
NOTES:

IPB ITEM NUMBER	QTY	U/M	PART NUMBER	DESCRIPTION
1 2 3 4	1 1 1	EA EA EA EA	13090907-01	WELD HD ASSY M9BW-1500 BASIC ROTOR M9BW-1500 TORCH FXTR 1.00ID WLD 9BW-1500 TORCH FXTR 1/2 ID MOD 9BW-1500 SCREW CAP SKT 4-40 1/4 L

PRICE, PART NUMBER AND DESCRIPTION SUBJECT TO

CHANGE WITHOUT NOTICE

Page 2 of 2



IPB NUMBER: 090126 TO ORDER ARC MACHINES, INC.

USE PART NUMBER
DO NOT USE IPB
ITEM NUMBER

PRODUCT MODEL: M9-1500

DESCRIPTION: CASSETTE WELD HEAD ASSEMBLY

MANUAL NUMBER: 730015

IPB ITEM NUMBER	QTY	U/M	PART NUMBER	DESCRIPTION	
1			-		
2	1	SET	SFS04-40-0.50NP	SCREW FLH SKT 4-40 1/2 L	(SET OF 2)
3	1	SET		SCREW FLH SLT 6-32 5/8 L NYL	(SET OF 4)
4		_	-		TUBE CLAMP INSERT-ORD BY SIZE
5	1	SET	SCS04-40-0.31NP	SCREW CAP SKT 4-40 5/16 L	(SET OF 10)
6	1	EA	130905113-01	CLAMP ASSY COVER SIDE 9CT-1500	(INCLUDE ITEM 8 & 24)
7	1	EA	13090776-01	ROTOR 9-1500	(INCLUDE ITEM 176)
8	2	EA	130905111-01	LATCH ASSY 9CT-1500	
9	1	EA	13090729-01	CONDUCTOR RING 9-1500	
10	1	EA	13090730-01	GROUND STRAP	
11	1	SET	SCS25-20-0.62SP	SCREW CAP SKT 1/4-20 5/8 L SP	(SET OF 2)
12	1	EA	CK06BX104K	CAP 0.1MF 100V 10%	
13	1	EA	42090155-01	COVER HSG 9-1500	
14		-	-		
15		-	-		
16	1	ĒA	42090704-02	PUSH ROD LIMIT SW	
17	1	EA	42090704-01	BUSHING PUSH ROD	
18	1	SET	SSS06-32-18NPCU	SCREW SET SKT 6-32 3/16 L CUPT	
19	1	EA	-		TUNGSTEN
20	1	EA	42090702-02	GUIDE RING	
21		_	-		
22		-	-		
23	1	EA	130905112-01	CLAMP ASSY HSG SIDE 9CT-1500	(INCLUDE ITEM 8 & 24)
24	2	EA	PD12-0.31SS	PIN DOWEL 1/8D 5/16L SST	
25	1	EA	42090154-01	HOUSING MAIN 9-1500	
26	10	EA	SSR-3LLRA3P25[BEARING BALL .18 .50 [LY13]	
27	1	EA	13090600-02	GEAR DRIVE	
28	4	EA	13090600-01	GEAR IDLER	
29	1	EA	SV-8 42090602-02 13090602-07	SPRING WAVE WASHER .351D .44	
30	4	EA	42090602-02	SPACER BRG	
31	1	EA	13090602-07	GEAR PINION DRIVE	
32	1	EA	15156	SPRING CPRSN .81D .70L .067W	
33	1	EA	42090602-04	SPACER SPRING	
34	1	EA	42090602-03	COUPLING INSULATING DELRIN CABLE M9 10 FT MOTOR DRIVE PINION 112 RPM	
35	1	EA	13090800-01	CABLE M9 10 FT	
36	1	EA	13090602-02	MOTOR DRIVE PINION 112 RPM	
37		_	-		

IPB NUMBER: 090126 TO ORDER ARC MACHINES, INC.

USE PART NUMBER DO NOT USE IPB ITEM NUMBER

PRODUCT MODEL: M9-1500

DESCRIPTION: CASSETTE WELD HEAD ASSEMBLY MANUAL NUMBER: 730015

IPB ITEM NUMBER	QTY	U/M	PART NUMBER	DESCRIPTION	
38	1	EA	42091102-04	INSULATOR SKIRT	
39	1	EA	JF2P2SCD	CONN 4 PIN PLUG MINIATURE	
40	1	SET	42090104-01	HANDLE	(SET OF 2)
41	1	SET		SCREW FLH SKT 4-40 1.00 L	(SET OF 2)
42	1	SET	SFS04-40-0.37NP	SCREW FLH SKT 4-40 3/8 L	(SET OF 12)
43		-	-		
44		-	-		
45	1	SET	W02ZP-FL	WASHER FL #2	(SET OF 2)
46	1	EA	42091102-02	COVER LIMIT SW LWR 9-1500	
47	_	-	-		
48	1	EA	42091102-01	COVER LIMIT SW UPPER	
49	1	SET		SCREW FLH SKT 4-40 3/16 L	(SET OF 2)
50 51	1	SET	SCS02-56-0.25NP	SCREW CAP SKT 2-56 1/4 L	(SET OF 4)
51 52	1	EA	MMGGD1D0C	SWITCH LIMIT PLUNGER	
52 53	1	-	40007700		
53 54	1	EA	42091103-01	PLATE MTG LIMIT SWITCH	
5 4 55	1 1	EA	42091100-01	LEVER LIMIT SWITCH	()
56	T	SET	SFL06-32-0.43NY	SCREW FLH SLT 6-32 7/16 L NYL	(SET OF 5)
57	7	- EA	- T 14		
58	1 1	EA	L-14 S-910	SPRING CPRSN .25D .43L .020W	
59	1	EA	130905107-01	SPRING CPRSN .31D 2.00L .024W	
60	Τ.	_ _	130903107-01	ARM LOCATING BRAZED M9CT-1500	
61		_			
64	1	EA	2-014	O RING .489 ID .070 W	
65		- EA	JF2S2PCD -	CONN 4 SOCKET RECEPTAGLE MINTR	
66	1	EA	420901111-02	NAMEPLATE IDENT TAG 9-1500	
67	1	EA	420905277-01	FRAME	
68	1	EA	420905276-01		
69	1	EA	420905275-01		
70	2	EA	420905276-02		
71	2	EA	420905276-03	SPRING GROUND	
72	-	_	-		
73		_	-		
74	2	EA	97-50-115-12	LATCH DRAW WITH KEEPER	
75	_	-	_		
76		_	_		

IPB NUMBER: 090126 TO ORDER ARC MACHINES, INC.

USE PART NUMBER

DO NOT USE IPB PRODUCT MODEL: M9-1500

DESCRIPTION: CASSETTE WELD HEAD ASSEMBLY MANUAL NUMBER: 730015 ITEM NUMBER

TUMBER	QTY	U/M	PART NUMBER	DESCRIPTION	
77		_			
78		_	_		
83	1	SET	SBS04-40-0.25NP	SCREW BTH SKT 4-40 1/4 L	(SET OF 4)
84	- 1	SET	SBS08-32-0.31NP	SCREW BTH SKT 8-32 5/16 L	(SET OF 6)
85	_		-		,
86	1	EA	130905108-01	KNOB ASSY 1500 2500 3500 4500	
87	1	EA	42090164-02	PIN .250D 1.72L 9-1500	
88	1	SET	44D31	SCREW SHLDR SKT 10-32 1/2L	(SET OF 4)
89	1	SET	SFS08-32-0.50NP	SCREW FLH SKT 8-32 1/2 L	(SET OF 4)
90	1	EA	SCS04-40-0.37NP	SCREW CAP SKT 4-40 3/8 L	
91	1	EA	SFS02-56-0.31NP	SCREW FLH SKT 2-56 5/16 L	
92	1	EA	42060000-02	- COUPLING Q/D CONN (SM-251B)	
9 3	- 1	BA	B-252-B	- COUPLING Q/D MALE WATER/POWER	
94	- 1	EA	294-PMD-04	DO NOT SELL USE: 1351109-01	
95	1-	BA	MS3106B18-1P	CONN 10 PIN PLUG	
96	1	EA	G1501N186A3A	COM BACKSHELL	
97	4	EA	2-008	O RING .187 ID .070 W VITON	
98	1	EA	420905277-04	STOP (44D22)	
99	1	EA	M639056 3	CONN TELESCOPIC BUSHING	
100		-	-		
101		_	_		
123	1	EA	5PM	OBS USE 7051	
124	-1	ÐA	 5PF	- OBS USE 7052	
125		-	-		
126	1	EA		FTC 1/4 28 FEMALE	
127	2	EA	42060800-01	- ODS (USE ARC 1881)	
128		-			
129	4	EA	13090124-01	SCREW INSULATED	
130		-	-		
131	1	SET	SFS04-40-0.31NP	SCREW FLH SKT 4-40 5/16 L	(SET OF 4)
132	1	EA	42090515-03	WINDOW	
134	1	EA	13090803-01	TUBE FTG GAS	
135		EA	R61002GCB	TERM 16-14 AWG #6	
136		-	-		
144	1	EA	- 12060805-01	DOOT MALE GAS	
145	2	EA	12060801 01	BOOT MALE POWER/CROUND	
146	2	EA	42060800 07	ETC COURTING HOCE CARLE	

IPB NUMBER: 090126 TO ORDER ARC MACHINES, INC.

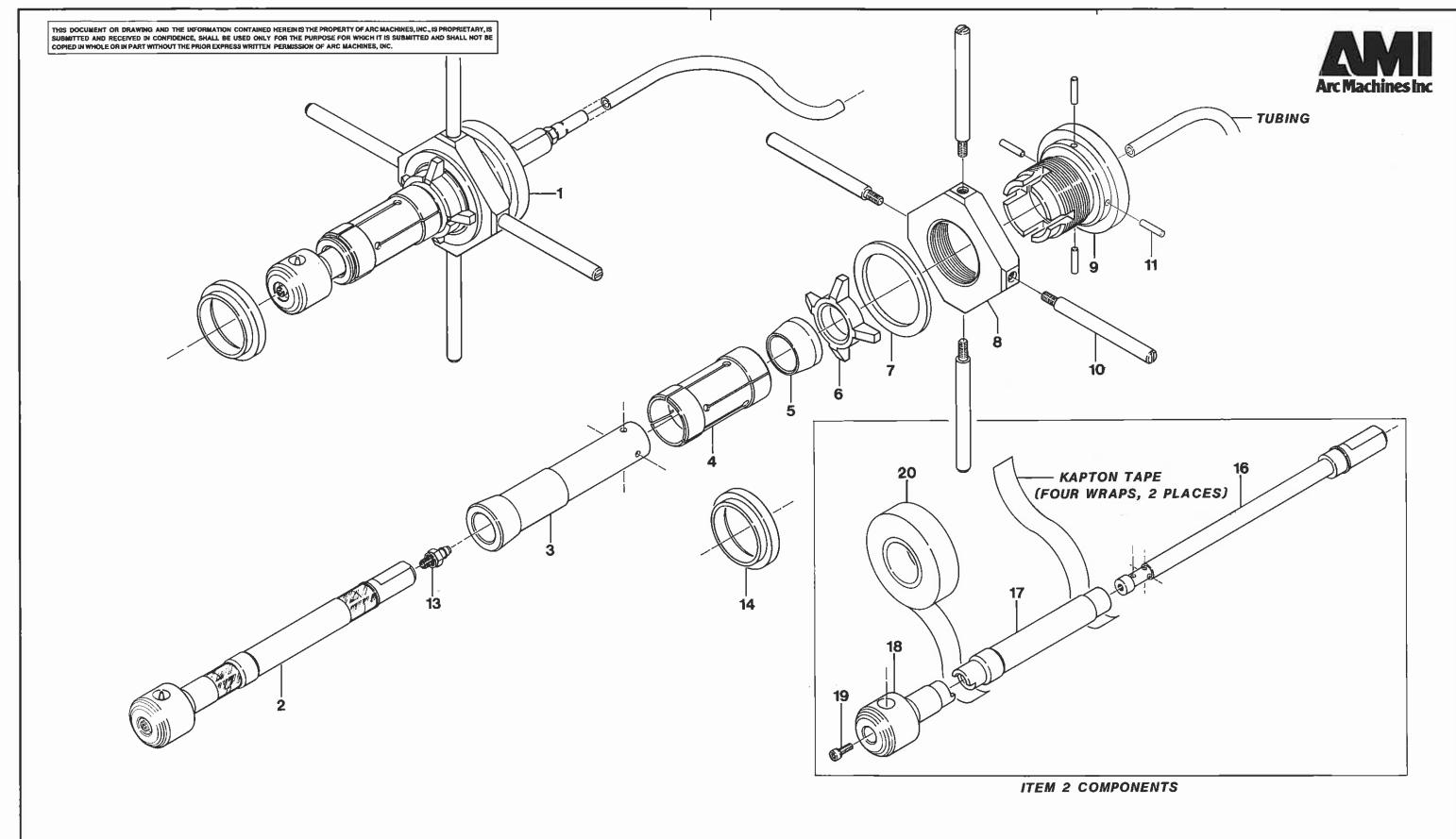
USE PART NUMBER

DO NOT USE IPB PRODUCT MODEL: M9-1500

ITEM NUMBER DESCRIPTION: CASSETTE WELD HEAD ASSEMBLY

MANUAL NUMBER: 730015

	QTY	U/M	PART NUMBER	DESCRIPTION
47		<u>-</u>	_	
		EA	261 PG 04	FTO NUT/CLEEVE CPRING 1/4 TUBE
	1	EA	70200218	CRRING GUARD 34 OD 18 OO LG
	-	 -		ON TIME CHIPOU
1/6	T	EA		CAM LIMIT SWITCH
.85	1	EA	- 1350110 04	- Dust Cap assy w/chain(male18D)
.86	1	EA	420907215-01	PLATE BACKING M9-1500
			DITCH-0 07-50-W	CONDUIT WIT 0.87 ID
	,			mpo continue 1 1 1 2 Th DIV
:01	6	iN	M23053/5-111-0	THE SINING I-1/2 ID BLK
202	1	EA	2-010-S604-70	O RING .238 ID .070 W SILICONE
203	1	EA	420901126-02	GROMMET
	3 ITEM UMBER 	OMBER QTY 147 174 1 175 1 176 1 185 1 186 1 200 9 201 6	OMBER QTY U/M 147 - 174 1 EA 175 1 EA 176 1 EA 185 1 EA 186 1 EA 190 9 FT 1901 6 IN 1902 1 EA	OMBER QTY U/M PART NUMBER



MODEL 9BW-1500 IPB 090907 TORCH 1.00 ID ASSEMBLY

PAGE 1 OF 2

IPB NUMBER: 09

090907

TO ORDER

ARC MACHINES, INC.

USE PART NUMBER

DO NOT USE IPB

PRODUCT MODEL: 9-1500

ITEM NUMBER DESCRIPTION:

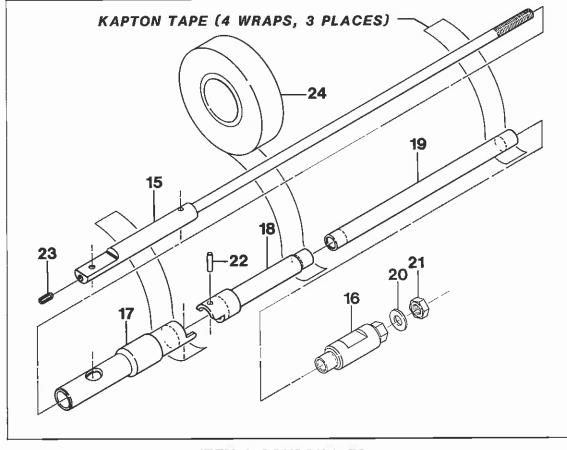
TORCH 1.00 ID ASSEMBLY

MANUAL NUMBER: 730015

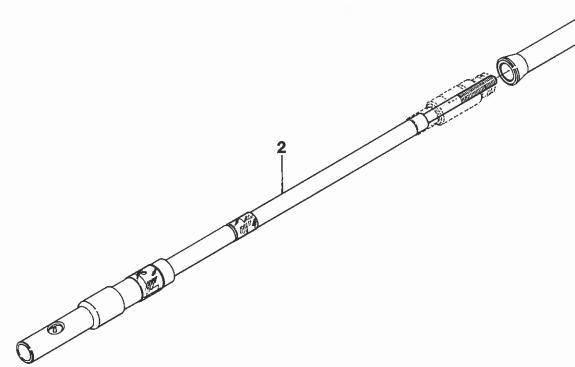
NOTES:

IPB ITEM NUMBER	QTY	U/M	PART NUMBER	DESCRIPTION
1	1	EA	13090907-01	TORCH FXTR 1.00ID WLD 9BW-1500
2	ī	EA	13090778-01	TORCH 1.00 ID WELD M9BW-1500
3	1	EA	42090915-07	SHAFT
4	1	EA	42090915-06	COLLET TORCH FXTR 1.0 9BW-1500
5	1	EA	42090915-05	CONE TORCH FXTR 1.0ID 9BW-1500
6	10	EA	42090915-04	RING
7	1	EA	42090915-03	WASHER
8	1	EA	42090915-02	NUT
9	1	EA	42090915-01	HUB TORCH FXTR M9BW-1500
10	4	EA	42090915-08	LEVER
11	4	EA	PD12-0.50H	PIN DOWEL HARD 1/8D 1/2L
12		-	-	
13	1	EA	MH-1008-2-303	FTG 1/4 TUBE 10-32 MALE
14	1	EA	420907170-05	SPACER
15		-	-	
16	1	EA	420907170-01	TORCH BODY
17	1	EA	420907170-02	INSULATOR
18	1	EA	420907170-03	GAS CUP 9BW-1500 1.0 D
19	1	EA	SCS04-40-0.31NP	SCREW CAP SKT 4-40 5/16 L
20	1	EA	42940730-02	TAPE KAPTON 1/2 WIDE





ITEM 2 COMPONENTS





PAGE 1 OF 2

IPB NUMBER: 090928 TO ORDER ARC MACHINES, INC.

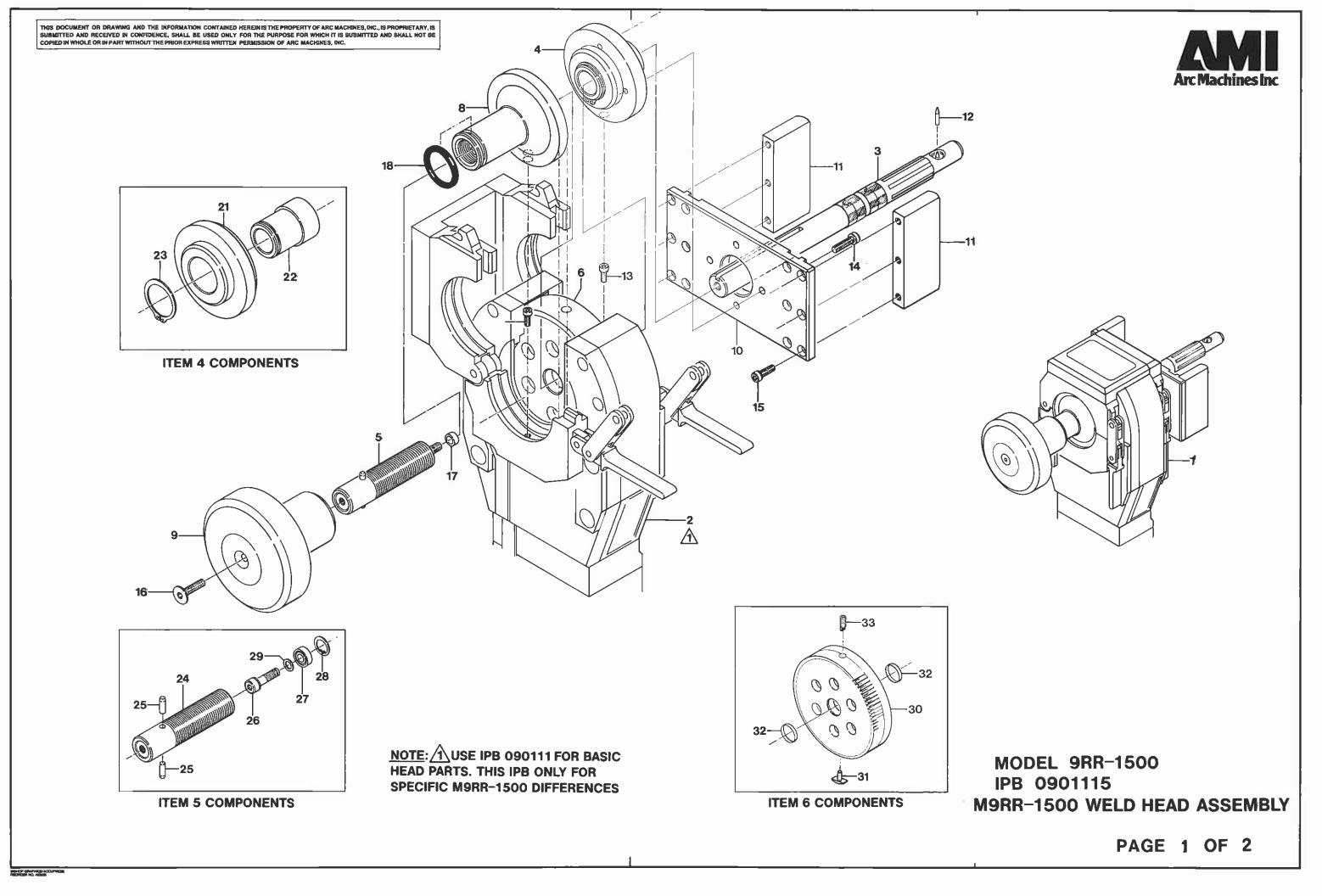
USE PART NUMBER

DO NOT USE IPB PRODUCT MODEL: 9-1500

ITEM NUMBER DESCRIPTION: TORCH 1/2 ID ASSEMBLY

MANUAL NUMBER: 730015

IPB ITEM NUMBER	QTY	U/M	PART NUMBER	DESCRIPTION
1	1	EA	13090928-01	TORCH FXTR 1/2 ID MOD 9BW-1500
2	1	EA	130907103-01	TORCH ASSY 1/2 ID WLD 9BW-1500
3	1	EA	42090930-01	SHAFT DRAW M9BW-1500
4	1	EA	42090930-03	COLLET INTERNAL M9BW-1500
5	1	EA	42090930-02	CONE EXPANDING M9BW-1500
6	1	EA	42090929-04	RING LOCATING M9BW-1500
7	1	EA	42090929-03	WASHER THRUST M9BW-1500
8	1	EA	42090929-02	NUT DRAW M9BW-1500
9	1	EA	42090929-01	HUB MTG M9BW-1500
10	4	EA	PD09-0.37H	PIN DOWEL HARD 3/32D 3/8L
11	4	EA	42090915-08	LEVER
12		-	_	
13		-		
15	1	EA	420907193-01	TORCH BODY M9BW-1500
16	1	EA	420907193-02	NUT TORCH BODY M9BW-1500
17	1	EA	420907194-01	GAS CUP .500 ID M9BW-1500
18	1	EA	420907193-03	INSULATOR SLEEVE M9BW-1500
19	1	EA	420907193-04	INSULATOR TUBE M9BW-1500
20	1	EA	W10SS-FL	WASHER FL #10 SST
21	1	EA	N10-32SS-JAM	NUT HEX JAM 10-32 SST
22	1	EA	PD09-0.37H	PIN DOWEL HARD 3/32D 3/8L
23	1	EA	SSS04-40-25NPFL	
24	1.	EA	42940730-02	TAPE KAPTON 1/2 WIDE



IPB NUMBER: 0901115 TO ORDER ARC MACHINES, INC.

USE PART NUMBER

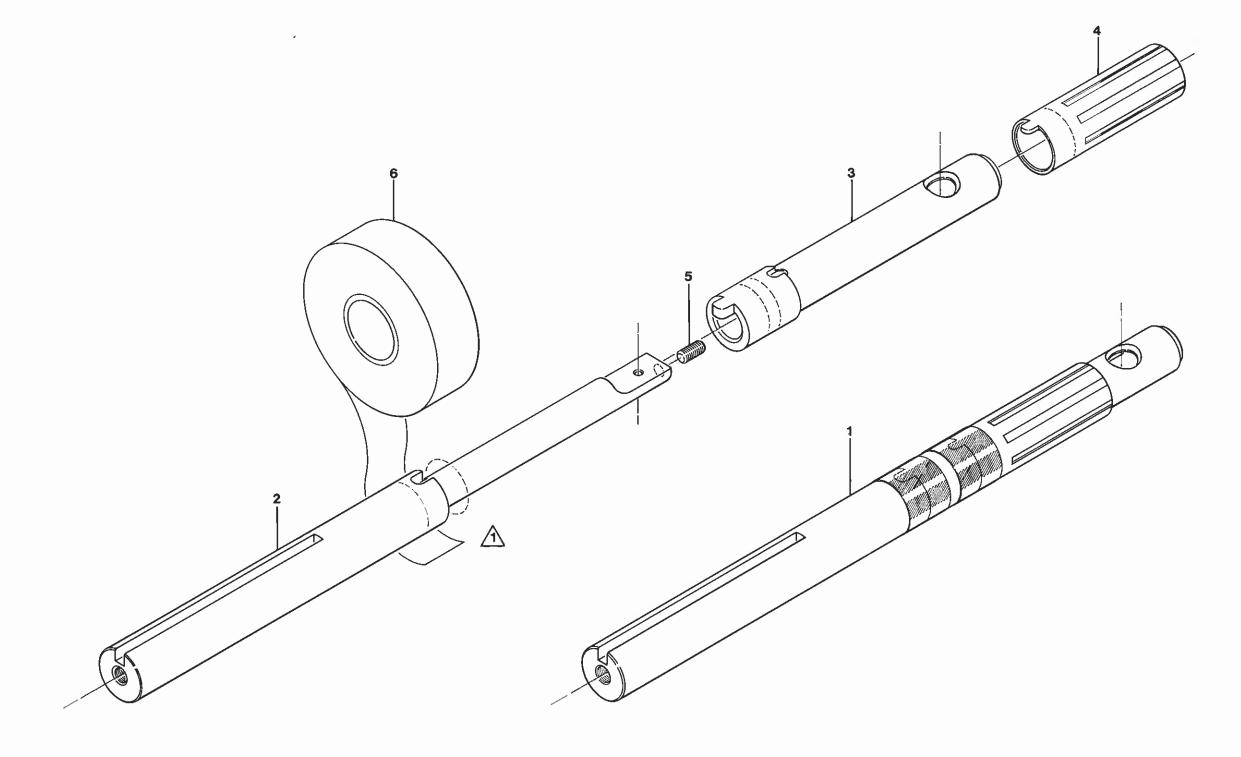
DO NOT USE IPB PRODUCT MODEL: 9-1500

ITEM NUMBER DESCRIPTION: WELD HEAD ASSEMBLY MANUAL NUMBER: 730015

NOTES:

IPB ITEM NUMBER	QTY	U/M	PART NUMBER	DESCRIPTION	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EA E	SCS06-32-0.50NP SCS06-32-0.37NP SFS10-32-0.62NP DB6D11 2-018-V747-75 - 420907202-01 420907202-02 5100-75-H 420907199-01 420907199-02 SCS10-32-0.62NP SSRI-6632LLRA3[N5000-37-H DB6D7 420907200-01 420907156-01	TORCH ASSY M9RR-1500 INSERT FRONT ASSY M9RR-1500 SHAFT ADJUST ASSY M9RR-1500 ROTOR ASSY M9RR-1500 BUSHING INSERT REAR KNOB ADJUST ELECTRODE PLATE MTG ALIGNEMENT PLATE SIDE ALIGNEMENT TUNG ELECTRODE 1/16 D .34 L SCREW CAP SKT 4-40 1/4 L SST SCREW CAP SKT 6-32 1/2 L SCREW CAP SKT 6-32 3/8 L SCREW CAP SKT 10-32 5/8 L SPACER SHAFT .18ID .25D .125T O RING VITON INSERT DISC M9RR-1500 BUSHING INSERT DISC RTNG RING BASIC EXT 3/4 SHAFT SHAFT SCREW 9/16-18 THREAD PIN GUIDE (D17D375) SCREW CAP SKT 10-32 5/8 L BEARING BALL .18 .37 [P25LY13] RTNG RING INTL .375 BASIC SPACER SHAFT .18ID .25D .016T ROTOR GEAR M9RR-1500 CAM LIMIT SWITCH CONTACT ELECTRICAL .20 W .54 D	(SET OF 2) (SET OF 4) (SET OF 6)
33	1	EA	420907201-01	SCREW TANG 8-32 THREAD	





NOTE: APPLY 4 WRAPS (2 PLACES)

MODEL 9RR-1500 IPB 0907105 TORCH ASSEMBLY

PAGE 1 OF 2

IPB NUMBER:

0907105

TO ORDER

ARC MACHINES, INC.

USE PART NUMBER

DO NOT USE IPB ITEM NUMBER

PRODUCT MODEL: 9-1500

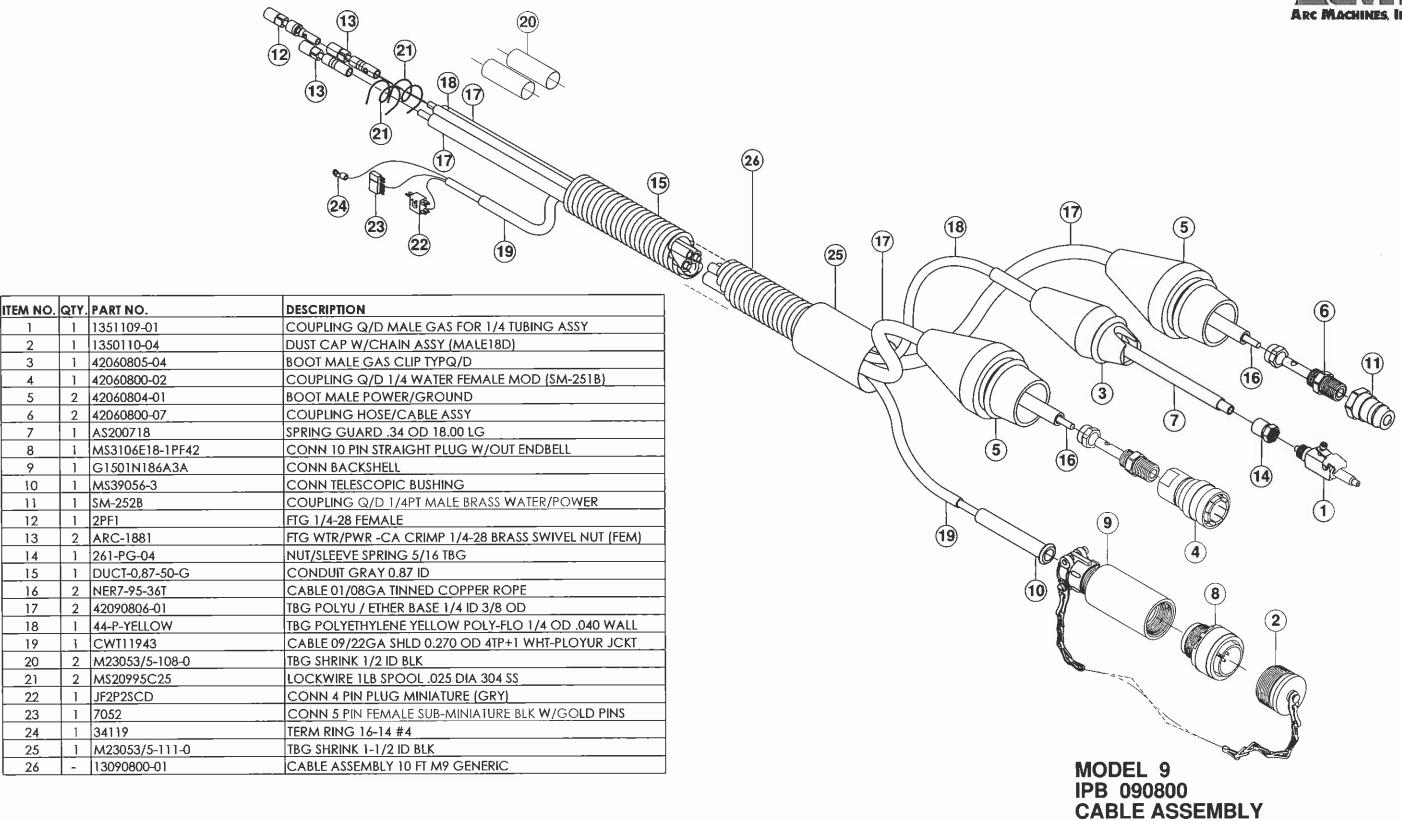
DESCRIPTION:

TORCH ASSEMBLY

MANUAL NUMBER: 730015

IPB ITEM NUMBER	QTY	U/M	PART NUMBER	DESCRIPTION
				TODAY AGAI NORD 1500
1	1	EA	130907105-01	TORCH ASSY M9RR-1500
2	1	EA	420907197-01	TORCH BODY M9RR-1500
3	1	EA	420907198-01	INSULATOR SLEEVE TORCH
4	1	EA	420907198-02	BUSHING SLEEVE TORCH
5	1	EA	SSS04-40-25NPCU	SCREW SET SCT 4-40 1/4 L CUPT
6	1	EA	42940730-02	TAPE KAPTON 1/2 WIDE



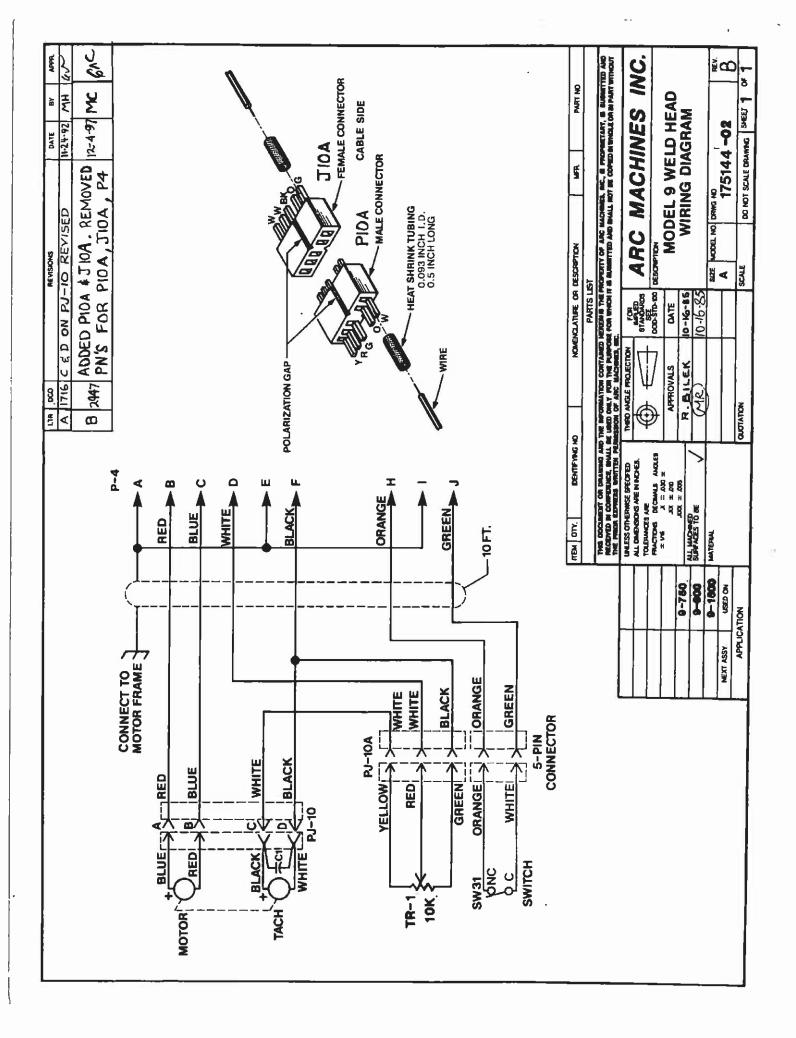


ISSUED: 3 JAN 2005 REVISED: 5 OCT 2010

TO ORDER USE PART NUMBER. PRICE, PART NUMBER AND DESCRIPTION SUBJECT TO CHANGE WITHOUT NOTICE.

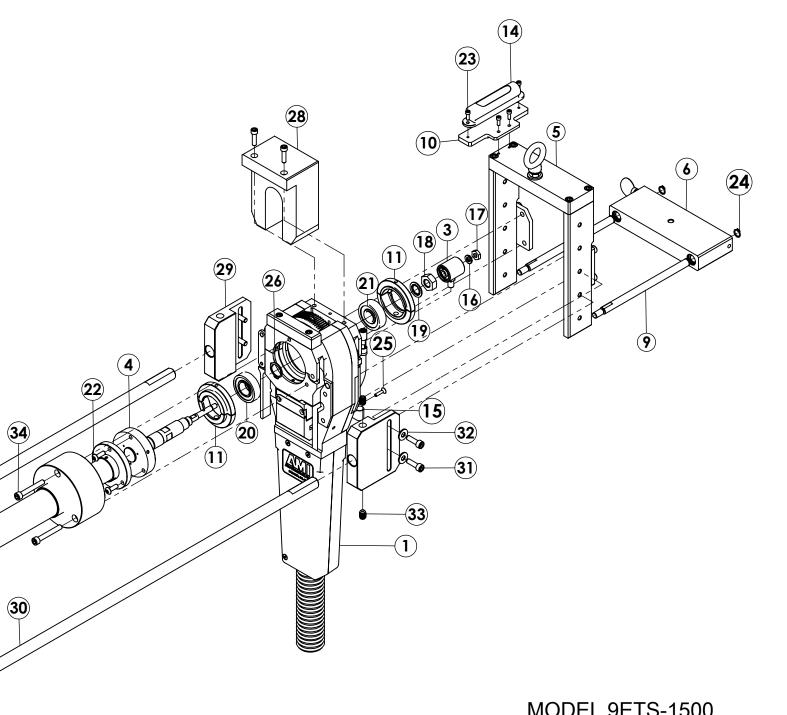
THIS IPB SUPERSEDES ALL OTHER IPB'S REFERENCING 13090800-01 CABLE ASSEMBLY

PAGE 1 OF 1



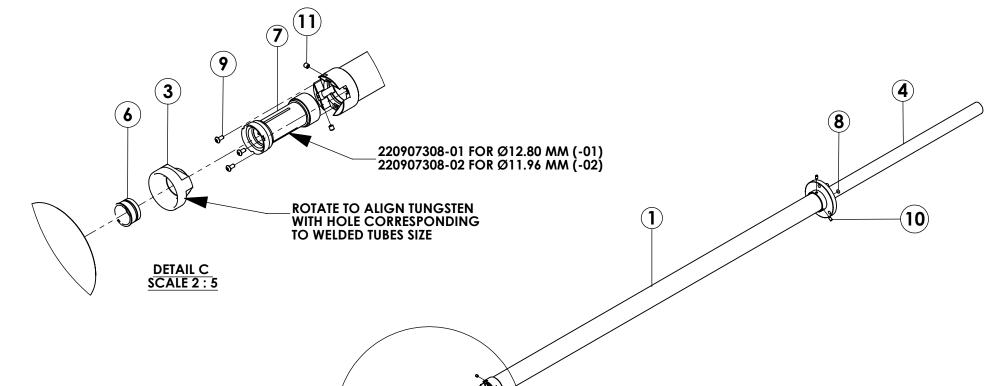


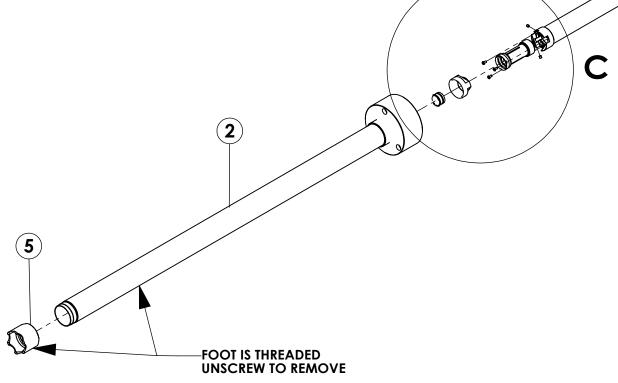
ITEM NO.	PART NUMBER	DESCRIPTION	01 QT
1	13090116-09	M9ETS-1500 BASIC WELD HD ASSY	1
2	130907143	TORCH ASSY M9ETS-1500 (OPTION)	1
3	130907144-01	MANIFOLD GAS REAR WELD HEAD ASSY	1
4	130907145-01	MANIFOLD GAS WELD HEAD BRAZED ASSY	1
5	130901148-01	FRAME SUPPORT WELD HEAD M9ETS-1500	1
6	130901149-01	COUNTER WEIGHT BALANCE ASSY	1
9	220901158-01	SHAFT SLIDE BALANCE	2
10	220901161-01	PLATE MOUNT LEVELS	1
11	220905455-01	CLAMP SOLID M9ETS-1500	2
14	2160A6	LEVEL 0.0035 IN/FT SENSITIVITY	1
15	HP-1/4	CLAMP CABLE 1/4 NY	1
16	DAJ2W	BEARING THRUST .19B .37OD	1
17	N10-32NP-HEX-LG	NUT HEX LOCK #10-32	1
18	N37-16SS-HEX	NUT 3/8-16 SST	1
19	W37NP-LK-IN	WASHER LOCK INT 3/8 ID N/P	1
20	6201ZZA1C3LY17	BEARING ROLLER 12MM ID 32MM OD 10MM W	1
21	6002ZZA1C3LY17	BEARING ROLLER 15MM ID 32MM OD 9MM W	1
22	SBS08-32-0,50NP	SCREW BTH SKT 8-32 1/2 L	3
23	SCS04-40-0,31NP	SCREW CAP SKT 4-40 5/16 L	4
24	5100-31-H	RTNG RING BASIC EXT 5/16 SHAFT	2
25	SFS04-40-0,50NP	SCREW FLH SKT 4-40 1/2 L	1
26	5100-59-H	RTNG RING BASIC EXT 1/4 SHAFT	1
28	220907298-01	COVER COUPLING GAS	1
29	220901162-01	BRACKET ROD SUPPORT	2
30	220901163-01	ROD SUPPORT LATERAL	2
31	SCS10-32-0,62NP	SCREW CAP SKT 10-32 5/16 L	4
32	W10SS-FL	WASHER FL #10 SST	4
33	SSS25-20-37NP	SCREW SET SKT 1/4-20 3/8 L	4
34	SCS10-32-1,37NP	SCREW CAP SKT 10-32 1-3/8 L	3



MODEL 9ETS-1500 IPB 0901150 M9ETS-1500 WELD HEAD ASSY







ITEM NO.	PART NUMBER	DESCRIPTION	130907143-01/-02 QTY.
1	130907157-01	GAS MANIFOLD, BRAZED ASSY	1
2	130907155-01	TUBE INSULATOR ASSEMBLY	1
3	220907304-01	GAS CUP 30 DEG ELECTRODE ANGLE	1
4	220907287-01	TUBE INSULATOR ID.SLDPRT	1
5	220907301-01	SLEEVE FOOT TORCH M9ETS-1501	1
6	220907307-01	NUT, GAS CUP	1
7	220907308	BUSHING CENTERING	1
8	2-003-\$604-70	O RING .056 ID .070 W SIL	3
9	SBS02-56-0,18NP	SCREW BTH SKT 2-56 3/16 L	3
10	SSS04-40-18NPCU	SCREW SET SKT 4-40 3/16 L CUPT	3
11	SSS04-40-12NPCU	SCREW SET SKT 4-40 1/8 L CUPT	2

MODEL 9ETS-1500 IPB 0907143 M9ETS-1500 TORCH ASSY