### **IM537-SA**

# **SP 170-I (12 in.) & SP-170T (301b.)** Supplement A for IM537-[] Supplement A for IM591-[]

For use with machine Code Numbers 10337 and above.

February, 1999

### **Safety Depends on You**

Lincoln arc welding and cutting equipment is designed and built with safety in mind. However, your overall safety can be increased by proper installation ... and thoughtful operation on your part. DO NOT INSTALL, OPERATE OR REPAIR THIS EQUIPMENT WITHOUT READING THIS MANUAL AND THE SAFETY PRECAUTIONS CONTAINED THROUGHOUT. And, most importantly, think before you act and be careful.



### SUPPLEMENTAL OPERATOR'S MANUAL





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SUPPLEMENTAL OPERATORS MANUAL THIS OPERATING MANUAL IS ONLY FOR USE AS A SUPPLEMENT TO THE ORIGINAL IM537-A Dated August, 1996 or IM591 Dated June, 1997

Items in this SUPPLEMENTAL OPERATORS MANUAL refers to the corresponding pages and items in the original IM537-[] or IM591-[] which are changed for the use of 30lb. wire spools.

### PAGE A-1 INSTALLATION

### PHYSICAL DIMENSIONS

Height	Width	Depth	Weight
16 in.	12.6 in.	19.7 in.	59 lbs.
406 mm.	320 mm.	500 mm.	26.8 kg.

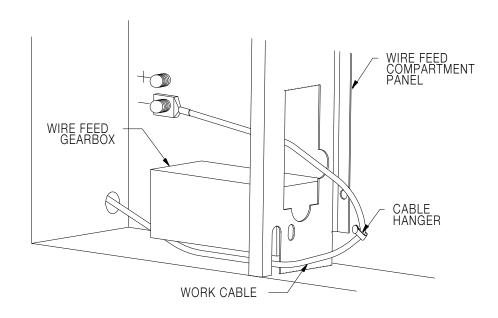
#### PAGE A-2 IDENTIFY AND LOCATE COMPONENTS

New item This supplemental book New item S18221 Spindle Adapter

### PAGE A-4 WORK CABLE INSTALLATION

Changed item 3. Route the cable under the Wire Feed Gearbox (6), through the lower slot in the wire feed compartment panel, through the cable hanger attached to the center panel and back through the

large opening in the wire feed compartment panel to the appropriate output stud. (See below)



### PAGE B-2 DESIGN FEATURES AND ADVANTAGES

Changed 2nd last "•" of "Design Features and Advantages" to: Spindle accommodates both 8 in. (200mm.) diameter and 12 in. (305mm.) diameter spools of wire.

# PAGE B-3 WELDING OPERATIONS SEQUENCE OF OPERATION Wire loading

Changed figures: Refers to Figure B.2a and B.3a

Changed text in right column: The welder is shipped from the factory ready to feed 12" (305mm.) diameter spools with 4" (102 mm.) maximum width. These spools fit on a 2" (51 mm.) diameter spindle that has a built in friction brake to prevent overrun of the spool and excess slack in the wire. Adjust the brake tension with the thumbscrew on the spindle hub, until the reel turns freely but with little or no overrun when wire feeding is stopped. Do not overtighten.

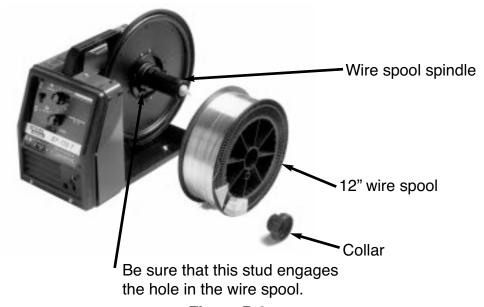


Figure B.2a

To use 8" (200 mm.) diameter spools the S18221 Spindle Adapter must be mounted on the spindle in between the 8" spool and the retaining collar. See Figure B.3a.

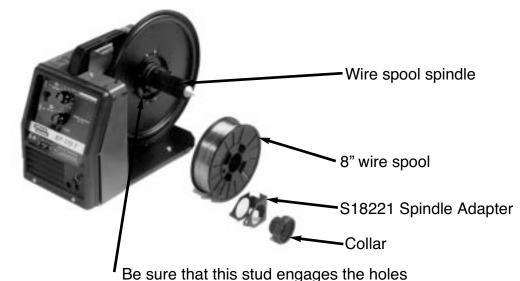


Figure B.3a in the wire spool and spindle adapter.

### PAGE B-3 or B-4 FRICTION BRAKE ADJUSTMENT

Item 1 to 3 replaced by: TENSION ADJUSTMENT. Adjust the brake tension with the wire spool thumb screw, located inside the retaining collar, until the wire reel turns freely but with little or no overrun when wire feeding is stopped.

### **PAGE F-1 Wiring Diagram**

Wiring Diagram M18221 is replaced by M18716, copy of which is included on page 5 of this addendum. Wiring Diagram M18931 is replaced by M18932, copy of which is included on page 6 of this addendum.

### PAGE P-259-A.1 or P-297-A.1

Present code numbers for this machine are 10337, 10403, 10489 and 10633. Specific part number changes are listed below.

### PAGE P-259-B.1 or P-297-B.1

Spot/Stitch Timer Kit is changed from K695-1 to K695-3.

### PAGE P-259-C.1 or P297-C.1

Item 1 Case Side replaced byL10150Item 3 Wiring Diagram (Codes 10337 & 10403) replaced byM18716 (SP-170T)Item 3 Wiring Diagram (Codes 10489 & 10633) replaced byM18932 (SP 170-I)Item 4 Case door replaced byL10151

Item 5 Procedure sheet replaced by L10153 (located inside spool cover)

### PAGE P-259-D.1 or P297-D.1

Item 6 Center panel (SP-170T) replaced by L10149 Item 6 Center panel (SP 170-I) replaced by L10520-1

Items 9-17 Spindle components replaced by See Attached Parts List on Page 4

The following items are not illustrated:

New item 23 Spindle support

New item 24 Spool Cover (includes Backing Plate)\*

New item 25 Insulation (for PC Board)

S23710

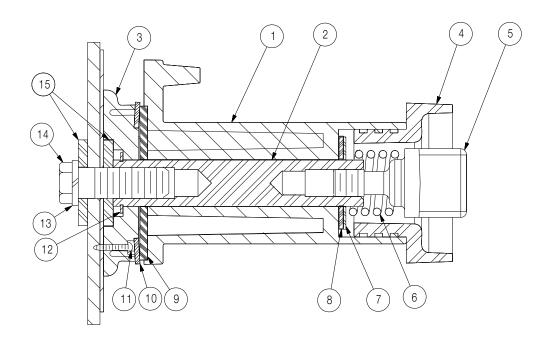
L10152

S22740

New item 26 Compartment Panel M18228

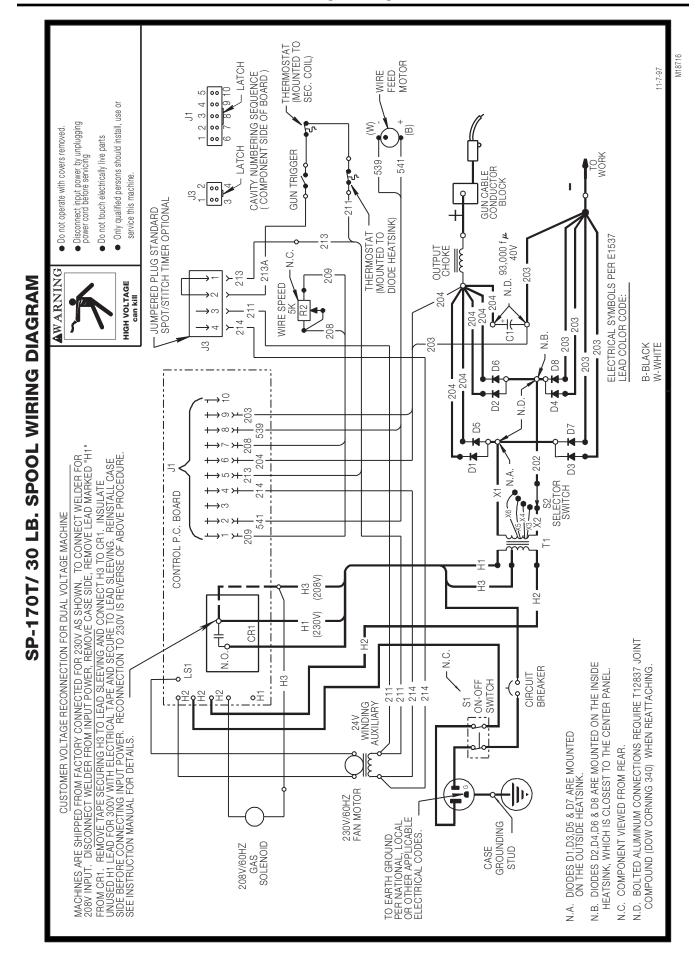
\* Order Procedure Sheet separately per Page P-259-C.1 (above)

PAGE P-259-E.1 or P297-E.1 Item 2 Case Back & Bottom replaced by G3046-1

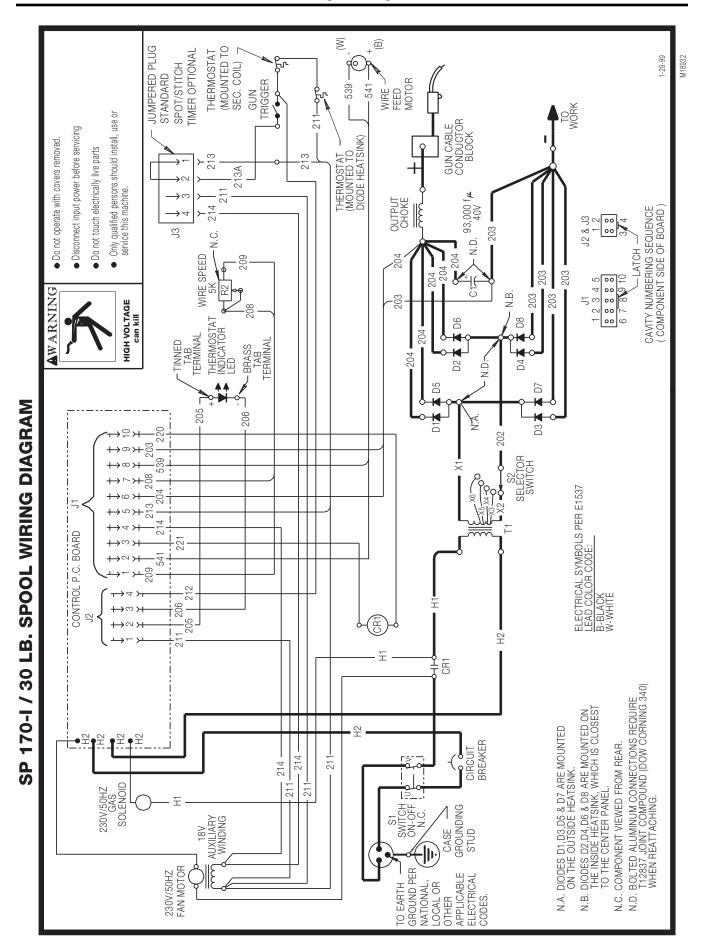


ITEM	PART NO.	DESCRIPTION	REQ'D
1	M14560	SPINDLE	1
2	S17434	SPINDLE SHAFT	1
3	M14586-1	SPINDLE HUB	1
4	M14587-1	RETAINING COLLAR	1
5	T14813	THUMB SCREW	1
6	T11862-14	COMPRESSION SPRING	1
7	T12965	KEYED WASHER	1
8	S17435-1	FRICTION WASHER	1
9	S17435	FRICTION WASHER	1
10	T12965-1	KEYED WASHER	1
11	S8025-62	SELF TAPPING SCREW	2
12	S9776-12	RETAINING RING	1
13	E106A-15	LOCK WASHER	1
14	T8833-5	HHCS 1/2"X1 1/2"	1
15	S9262-14	PLAIN WASHER	2

5-1-97



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## **NOTES**

