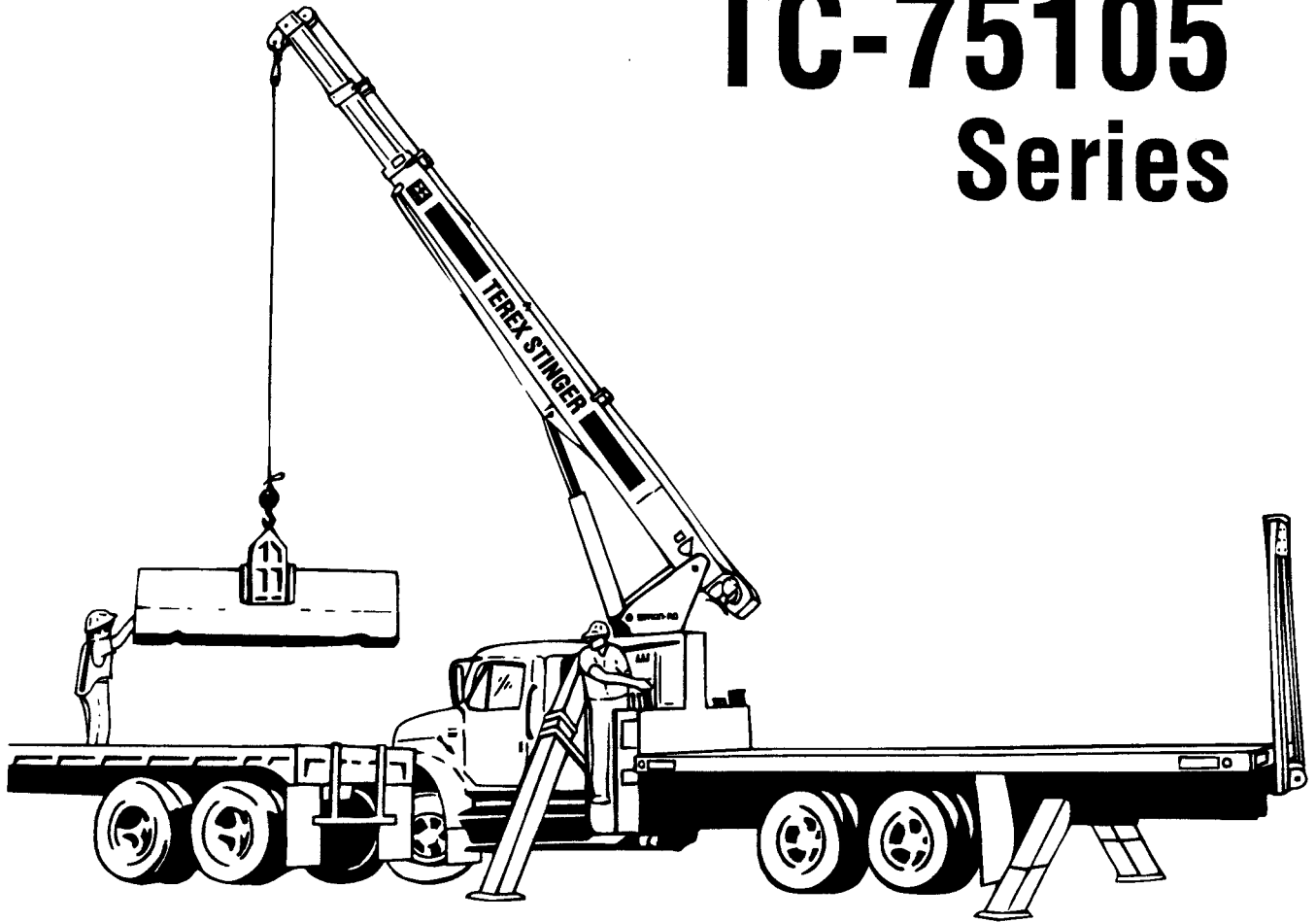


# PARTS MANUAL

## TC-75105 Series



**STINGER® Truck-Mounted Cranes**

990-10152 (6/95)

# TC-75105

## Truck Crane

# Parts Manual

990-10152 (6/95)

This **TEREX CRANES** parts manual is supplied to aid you in the location and correct identification of component parts replacement and is based upon **TEREX CRANES** assembly standards at the time of manufacture.

The **TEREX CRANES** parts manual will enable you to maintain your unit according to the manufacturer's recommendations. This unit is not to be altered or modified without prior factory approval.

### NOTICE

If this crane becomes involved in an accident resulting in property damage or personal injury, please contact your local **TEREX CRANES** dealer or the **TEREX CRANES** service department at (913) 782-1200 **IMMEDIATELY**.

All illustrations and specifications contained in this manual are based on the latest product information available at the time of publication. Right is reserved to make changes at any time, without notice, in specifications, material, and descriptions.

**MADE IN THE U.S.A.**

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This manual is delivered for the sole purpose of operating and maintaining specific equipment for its intended use and shall not be copied or information contained herein delivered to third parties without prior written approval of **TEREX CRANES**.

 **TEREX CRANES**

## INFORMATION

### LOCATING PARTS

IN ORDER TO LOCATE A SPECIFIC PART, FIRST DETERMINE THE ASSEMBLY GROUP WITHIN WHICH IT WOULD MOST LIKELY BE CONTAINED. AFTER LOCATING THE GROUP IDENTIFICATION PAGE FOR THAT GROUP, REVIEW THE TABLE OF CONTENTS FOR THE ILLUSTRATION WHICH WOULD MOST LIKELY DETAIL THE PART IN QUESTION. OPPOSITE EACH ILLUSTRATION IS IT'S CORRESPONDING PART LIST. THESE ARE SPECIFICALLY IDENTIFIED BY ILLUSTRATION NAME AND MODEL NUMBER. ALWAYS BE SURE THAT YOU ARE USING THE CORRECT ILLUSTRATION FOR YOUR MODEL WHEN LOCATING AND IDENTIFYING PARTS.

### READING THE PARTS LIST

EACH PARTS LIST CONTAINS, FROM LEFT TO RIGHT, AN ITEM NUMBER, CORRESPONDING REPLACEMENT PART NUMBER, A DESCRIPTION OF THE PART, AND A QUANTITY REQUIRED FOR ASSEMBLY. QUANTITIES MAY VARY DUE TO TRUCK AND/OR MANUFACTURER'S SPECIFICATIONS. IN THESE INSTANCES AN A/R WILL APPEAR IN THE QUANTITY COLUMN.

ITEMS FOR ALL BOOM LENGTHS						
50'	55'	60'	65'	70'	75'	78'
1850	2450	3200	4050	5000	6100	6300
1350	1650	2250	2500	2850	3000	3250

RO	<b>75105</b>
	25 TON • 10 FEET
MAXIMUM LOAD CHART MAXIMUM OUTRIGGER SPREAD	
9786, 5012939	CANADA PAT. NO. 1097265

### ORDERING INFORMATION

EACH SIMON-RO CORPORATION UNIT IS ASSIGNED A MODEL AND UNIT SERIAL NUMBER. THE MODEL NUMBER IS LOCATED ON THE LOWER RIGHT HAND CORNER OF THE MAXIMUM LOAD CHART. THE MODEL AND SERIAL NUMBERS ARE STAMPED ON THE TRUCK CRANE VIN PLACARD MOUNTED ON THE BACK OF THE TURRET.

MODEL NUMBER	<input style="width: 100%;" type="text"/>
SERIAL NUMBER	<input style="width: 100%;" type="text"/>
MANUFACTURED BY 	
OLATHE, KANSAS 66061 913-782-1200	

### IMPORTANT

IT IS MANDATORY THAT THE MODEL NUMBER AND UNIT SERIAL NUMBER BE INCLUDED ALONG WITH PART NUMBER(S), DESCRIPTION, AND QUANTITY WITH ANY ORDER

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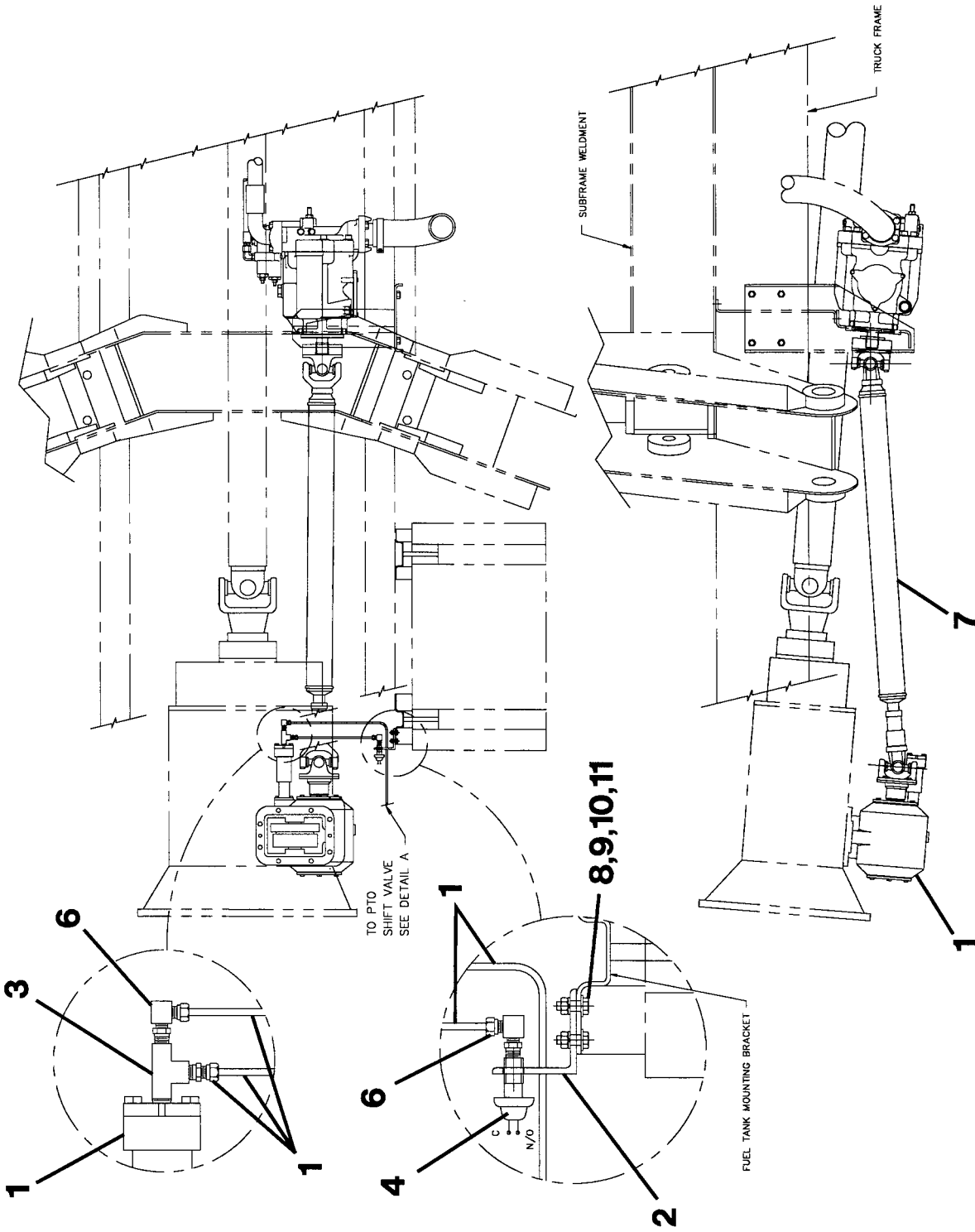
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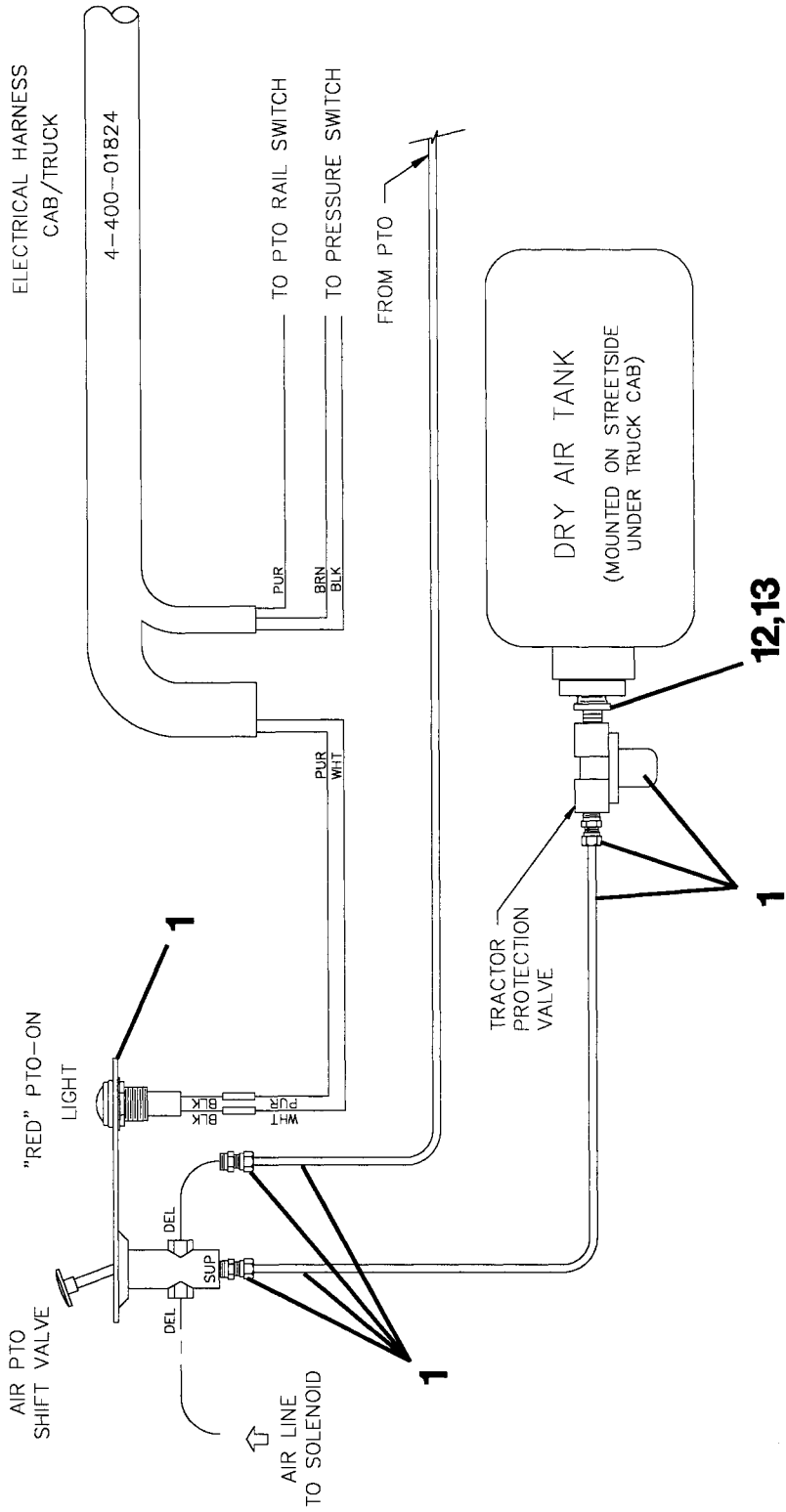
**PTO INSTALL GROUP - FULLER 7608LL**

1.0



350-00179

P-2709.DWG



DETAIL A

TRUCK PREP P/N	DRIVELINE P/N (#7)	LENGTH
690-00398	333-10082	48.0
690-00400	333-10083	49.5
690-00401	333-10084	64.12
690-00405	333-10086	59.25

P-2709A.DWG

350-00179

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	350-00172	.PTO KIT - MUNCIE - RTO7608LL	1
2	770-01642	.BRACKET - PRESSURE SWITCH MOUNTING	1
3	570-50027	.STREET TEE - 1/4NPT BRASS	1
4	400-04994	.PRESSURE SWITCH - NASON #SM-2A-60F	1
5	400-04990	.BOOT - PRESSURE SWITCH	1
6	300-32013	.ELBOW - 1/4 TUBE x 1/8 MPT	2
7	SEE TABLE	.DRIVELINE - HYDRAULIC PUMP	1
8	220-00001	.BOLT 1/4NC x 1" LONG	2
9	221-00001	.HEX NUT - 1/4NC	2
10	222-10005	.LOCKWASHER - 1/4 MED	2
11	222-00006	.FLATWASHER - 1/4 MED	2
12	570-01040	.NIPPLE - 1/4 NPT BRASS	1
13	570-42002 P-2709.D	.REDUCER BUSHING - 1/2 NPT x 1/4 NPT	1

**PTO INSTALL GROUP - FULLER 7608LL**

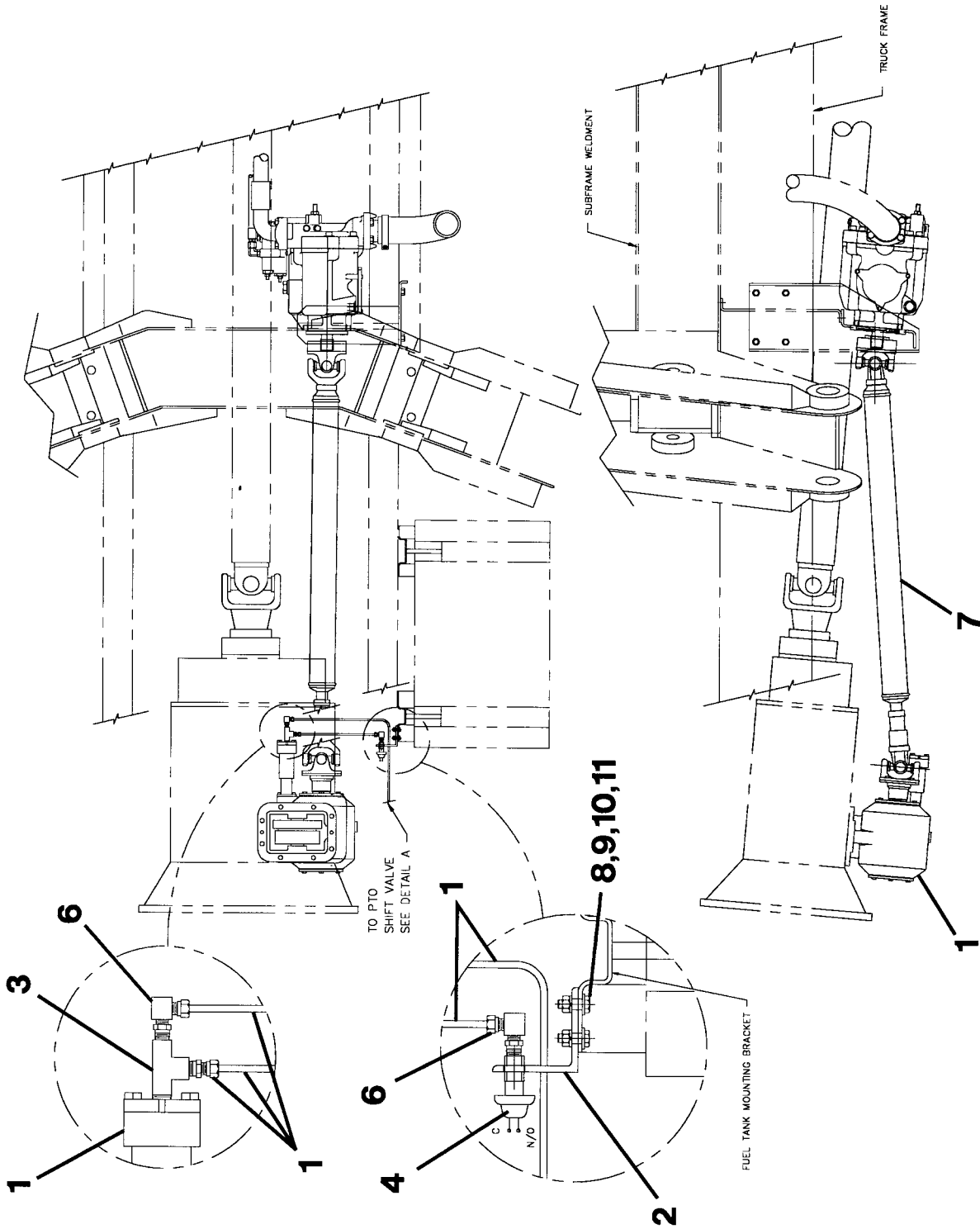
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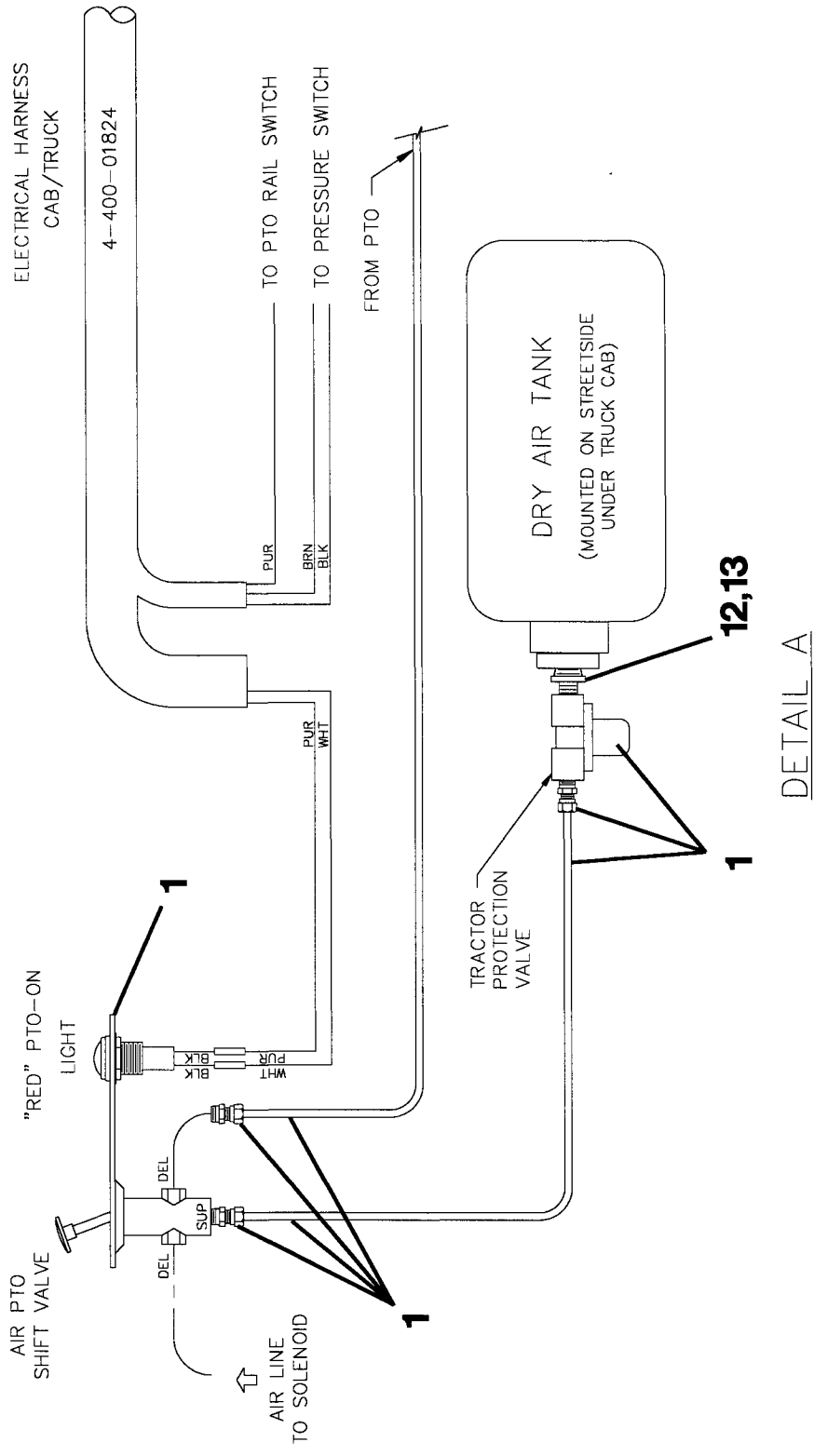
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350-00169

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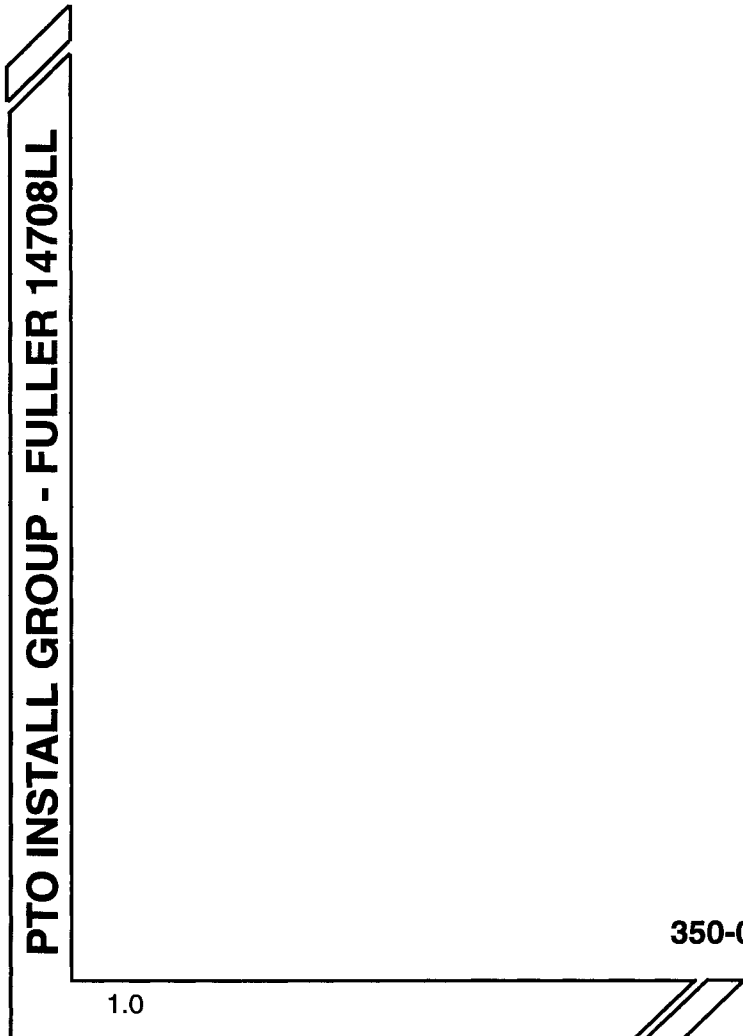
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TRUCK PREP P/N	DRIVELINE P/N (#7)	LENGTH
690-00398	333-10082	48.0
690-00400	333-10083	49.5
690-00401	333-10084	64.12
690-00405	333-10086	59.25

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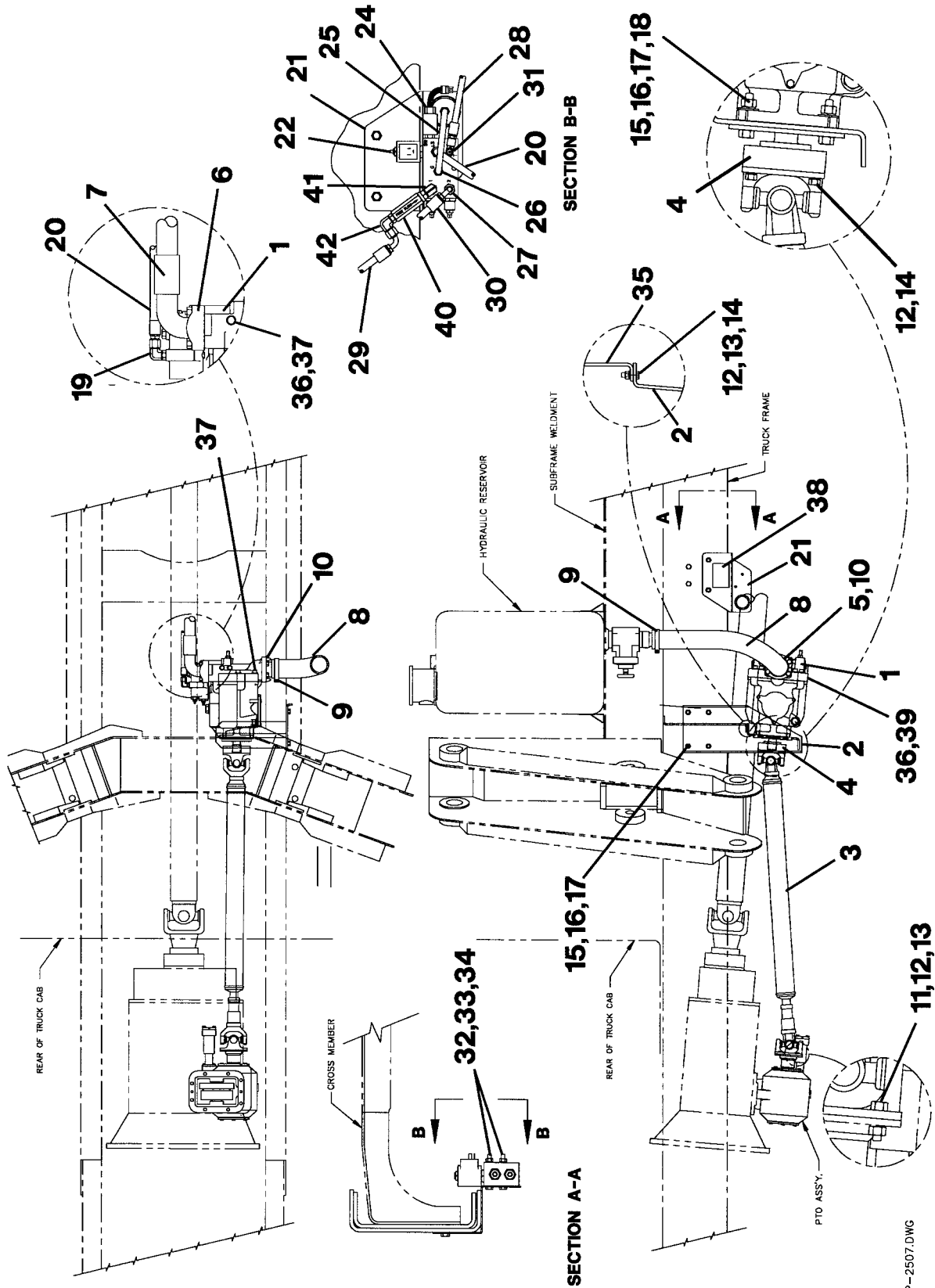
**PTO INSTALL GROUP - FULLER 14708LL**

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	350-00163	.PTO KIT - MUNCIE - RTO 14708LL	1
2	770-01642	.BRACKET - PRESSURE SWITCH MOUNTING	1
3	570-50027	.STREET TEE - 1/4NPT BRASS	1
4	400-04994	.PRESSURE SWITCH - NASON #SM-2A-60F	1
5	400-04990	.BOOT - PRESSURE SWITCH	1
6	300-32013	.ELBOW - 1/4 TUBE x 1/8 MPT	2
7	SEE TABLE	.DRIVELINE - HYDRAULIC PUMP	1
8	220-00001	.BOLT 1/4NC x 1" LONG	2
9	221-00001	.HEX NUT - 1/4NC	2
10	222-10005	.LOCKWASHER - 1/4 MED	2
11	222-00006	.FLATWASHER - 1/4 MED	2
12	570-01040	.NIPPLE - 1/4 NPT BRASS	1
13	570-42002 P-2708.D	.REDUCER BUSHING - 1/2 NPT x 1/4 NPT	1



PUMP INSTALLATION

1.1



521-00046

P-2507.DWG

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	520-30030	.PUMP - HYDRAULIC	1
2	771-00190	.PUMP - SUPPORT	1
3	333-10082	.PUMP - DRIVELINE	1
4	333-30025	.ADAPTER - DRIVELINE	1
5	519-90121	.ADAPTER - 4-BOLT FLANGE 2 1/2	1
6	505-03005	.KIT - FLANGE 4-BOLT 1 1/4	1
7	502-60119	.HOSE ASSEMBLY - PUMP/MANIFOLD	1
8	503-06006	.HOSE SUCTION - TANK/PUMP	1
9	201-00140	.CLAMP - T-BOLT	2
10	505-06004	.KIT - FLANGE 4-BOLT 2 1/2	1
11	220-02004	.BOLT - HEX HD, 3/8-16NC x 1" LONG	4
12	222-02004	.LOCKWASHER - 3/8 DIA	10
13	221-02001	.NUT - HEX 3/8	6
14	220-02002	.BOLT - HEX HD, 3/8 x 1 1/4" LONG	6
15	220-04005	.BOLT - HEX HD, 1/2 x 1 1/2" LONG	8
16	222-14003	.LOCKWASHER - 1/2 DIA	8
17	221-04001	.NUT - HEX 1/2	8
18	222-04001	.FLATWASHER - 1/2 DIA	4
19	514-54004	.ELBOW - 90°, #6 OFS x #6 ORB	1
20	502-20865	.HOSE ASSEMBLY - LOAD SENSE (PUMP/VALVE)	1
21	770-02111	.BRACKET - VALVE SUPPORT	1
22	559-00196	.VALVE - UNLOAD	1
	551-10126	..COIL - SOLENOID	1
23	600-40385	.GAUGE - 0-6000 PSI	1
24	400-05337	.SWITCH - PRESS	1
25	502-11171	.HOSE - GAUGE ASSEMBLY	1
26	513-20017	.CONNECTOR - STRAIGHT #4	1
27	513-40014	.CONNECTOR - STRAIGHT #6	3
28	502-11173	.HOSE ASSEMBLY - DRAIN	1
29	502-20867	.HOSE ASSEMBLY - LOAD SENSE (VALVE/CENTERPOST)	1
30	502-20863	.HOSE ASSEMBLY - LOAD SENSE (VALVE/OUTRIGGER)	1
31	514-52003	.ELBOW - 90°, #4 OFS	1
32	220-01002	.BOLT - HEX HD, 5/16 x 2 3/4" LONG	2
33	222-11002	.LOCKWASHER - 5/16 DIA	2
34	221-01001	.NUT - HEX 5/16	2
35	783-03321	.BAR - PUMP SUPPORT (FRONT)	1
36	513-00006	.ADAPTER - METRIC CONNECTOR	1
37	785-01887	.BAR - PUMP SUPPORT (REAR)	1
38	519-20002	.CAP - TUBE #4 OFS	1
39	221-01001	.NUT - HEX 5/16	2
40	552-10262	.CHECK VALVE - LINE MOUNT	1
41	514-54005	.ELBOW - S.N. #6 OFS	1
42	514-54004	.ELBOW - #6 OFS	1

P-2507.D

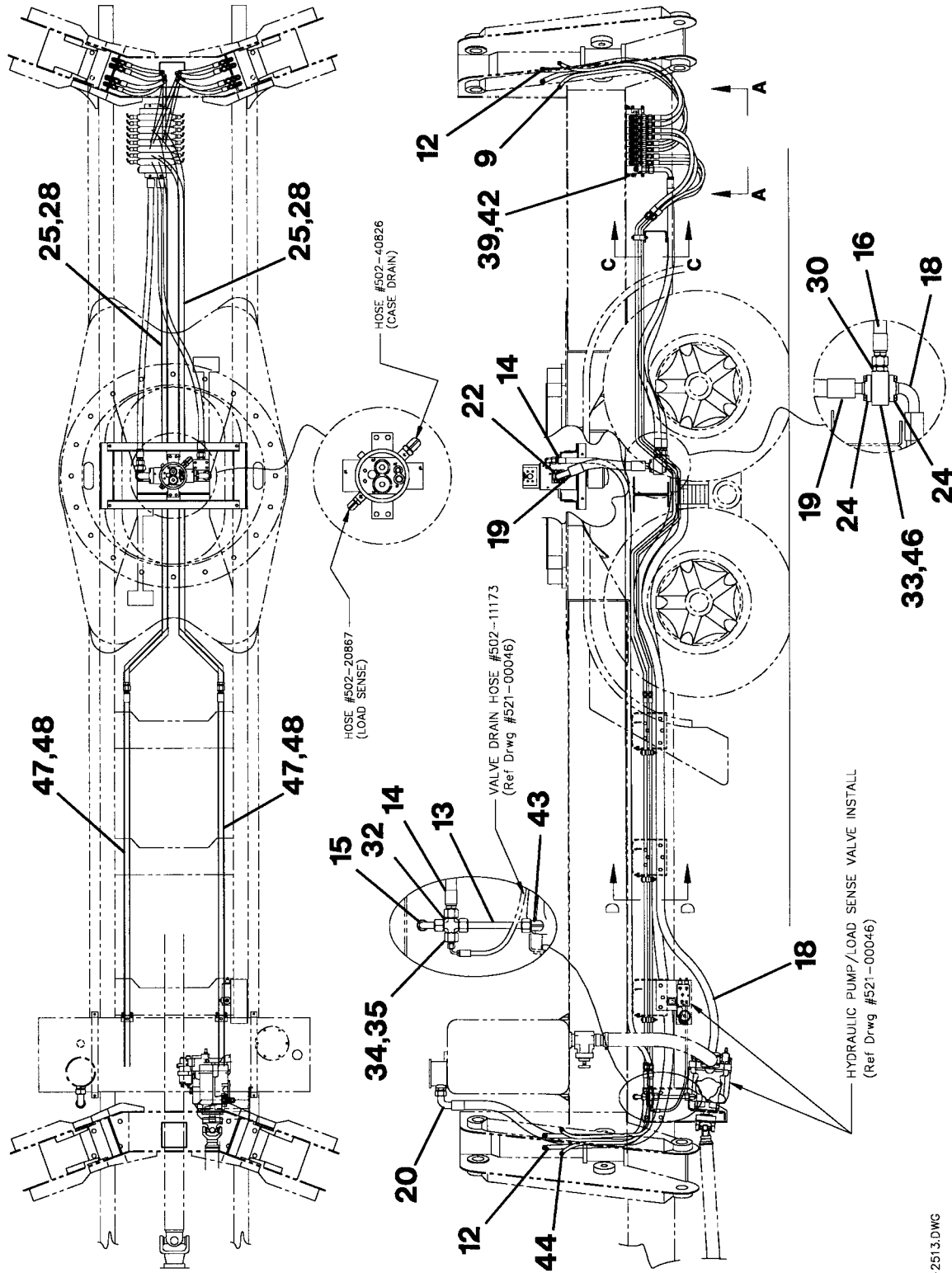
\* NOTE:

DRIVETRAIN LENGTH AND PART NUMBER DEPENDS ON TRUCK SERIAL NUMBER AND CHASSIS USED.

521-00046

HYDRAULIC PIPING GROUP - LWR

1.2



500-01651

P-2513.DWG

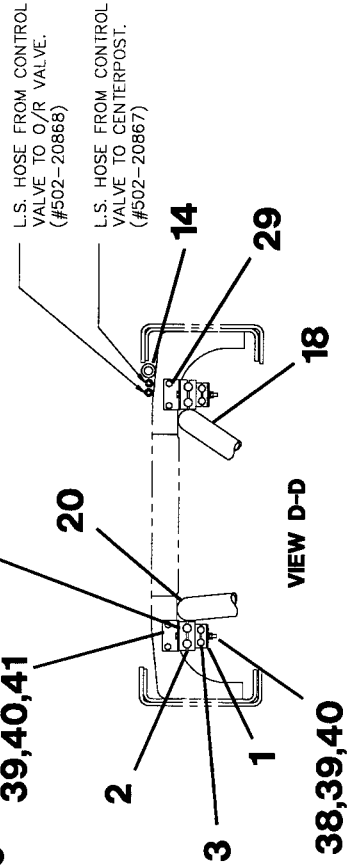
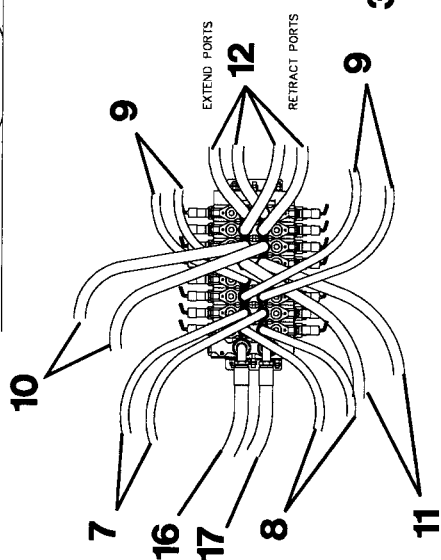
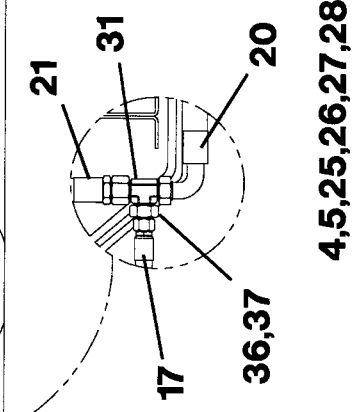
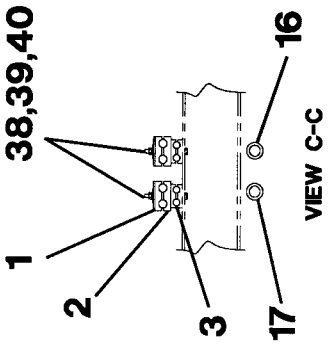
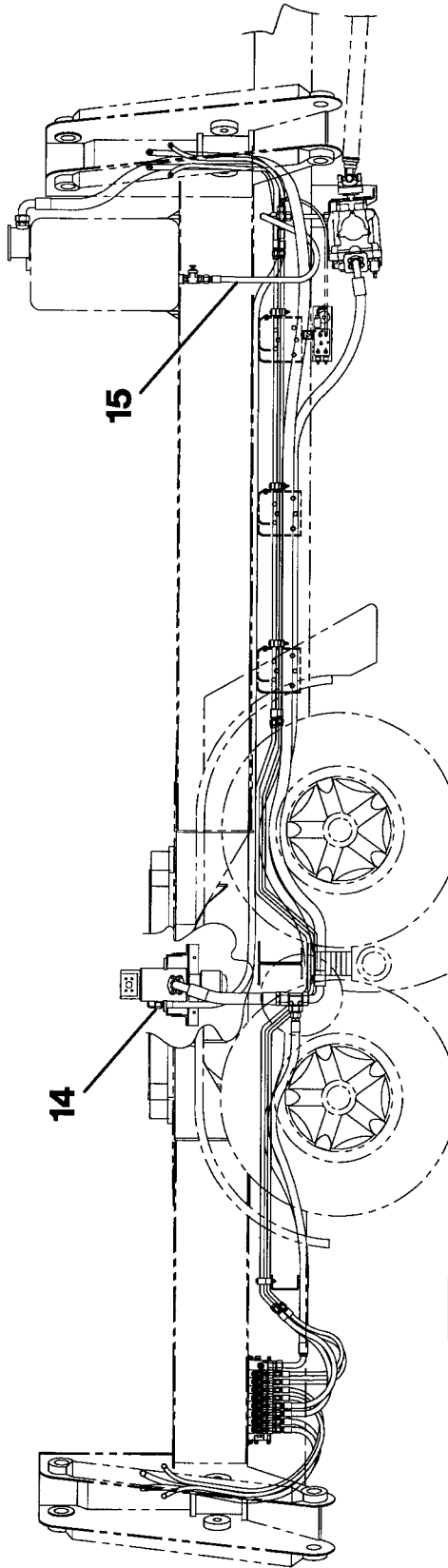
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	201-00194	.PLATE - COVER-CLAMP BLOCK	8
2	201-00225	.BLOCK - CLAMP-DOUBLE TUBE	8
3	201-00226	.BLOCK - CLAMP-DOUBLE TUBE	8
4	260-00003	.O-RING	8
5	260-00017	.O-RING	8
6	500-01642	.VALVE SUBASSY - OUTRIGGER CONTROL (SEE 1.8.1.4)	1
7	502-30632	.HOSE ASSEMBLY, CYLINDER	2
8	502-30633	.HOSE ASSEMBLY, OUTRIGGER CYLINDER	2
9	502-30634	.HOSE ASSEMBLY, OUTRIGGER CYLINDER	4
10	502-35046	.HOSE ASSEMBLY, OUTRIGGER CYLINDER	2
11	502-35047	.HOSE ASSEMBLY, OUTRIGGER CYLINDER	2
12	502-35048	.HOSE ASSEMBLY, OUTRIGGER CYLINDER	8
13	510-70834	.TUBE ASSEMBLY, CASE DRAIN	1
14	502-40826	.HOSE ASSEMBLY, RETURN	1
15	502-40827	.HOSE ASSEMBLY, DRAIN	1
16	502-50437	.HOSE ASSEMBLY, SUPPLY	1
17	502-50438	.HOSE ASSEMBLY, RETURN	1
18	502-60119	.HOSE ASSEMBLY, SUPPLY	1
19	502-60120	.HOSE ASSEMBLY, SUPPLY	1
20	502-70033	.HOSE ASSEMBLY, RETURN	1
21	502-70034	.HOSE ASSEMBLY, RETURN	1
22	505-03001	.FLANGE KIT, SPLIT	1
23	505-03003	.FLANGE KIT, SPLIT	1
24	505-03005	.FLANGE KIT, SPLIT	2
25	510-60018	.TUBE ASSEMBLY - FRONT SS CYLINDER	2
26	510-60019	.TUBE ASSEMBLY - FRONT CS CYLINDER	2
27	510-70832	.TUBE ASSEMBLY - FRONT CS CYLINDER	2
28	510-70833	.TUBE ASSEMBLY - FRONT SS CYLINDER	2
29	785-01846	.SUPPORT ANGLE - TUBE CLAMP	6
30	513-90032	.CONNECTOR - #16 OFS x #16 ORB	1
31	516-49005	.CONNECTOR - TUBE TEE, #24 OFS	1
32	517-40008	.CONNECTOR - CROSS TUBE, #12 OFS	1
33	559-00192	.MANIFOLD - HIGH PRESSURE	1
34	519-70034	.REDUCER - TUBE, #12 OFS x #4 OFS	1
35	511-70004	.NUT - #12 OFS	1
36	519-90123	.REDUCER - TUBE, #24 OFS x #16 OFS	1
37	511-90009	.NUT - #24 OFS	1
38	220-01011	.BOLT - HEX HD, 5/16 x 3 1/2 LONG	8
39	222-11002	.LOCKWASHER - 5/16 DIA	24
40	221-01001	.HEX NUT - 5/16	20
41	220-01005	.BOLT - HEX HD, 5/16 x 1 LONG	12
42	220-01004	.BOLT - HEX HD, 5/16 x 3/4 LONG	4
43	514-57011	.ELBOW - 90°, #12 OFS x #10 ORB	1
44	502-30641	.HOSE ASSY - OUTRIGGER (TUBE\BULKHEAD)	4
45	209-00470	.EDGING - SEAL TRIM	5'
46	517-30005	.PLUG - HEX HD, #4 ORB	1
47	510-60020	.TUBE ASSY - 5/8 DIA, O/R EXTEND	4
48	510-70835	.TUBE ASSY - 3/4 DIA, O/R EXTEND	4

P-2513

500-01651

**HYDRAULIC PIPING GROUP - LWR**

1.2



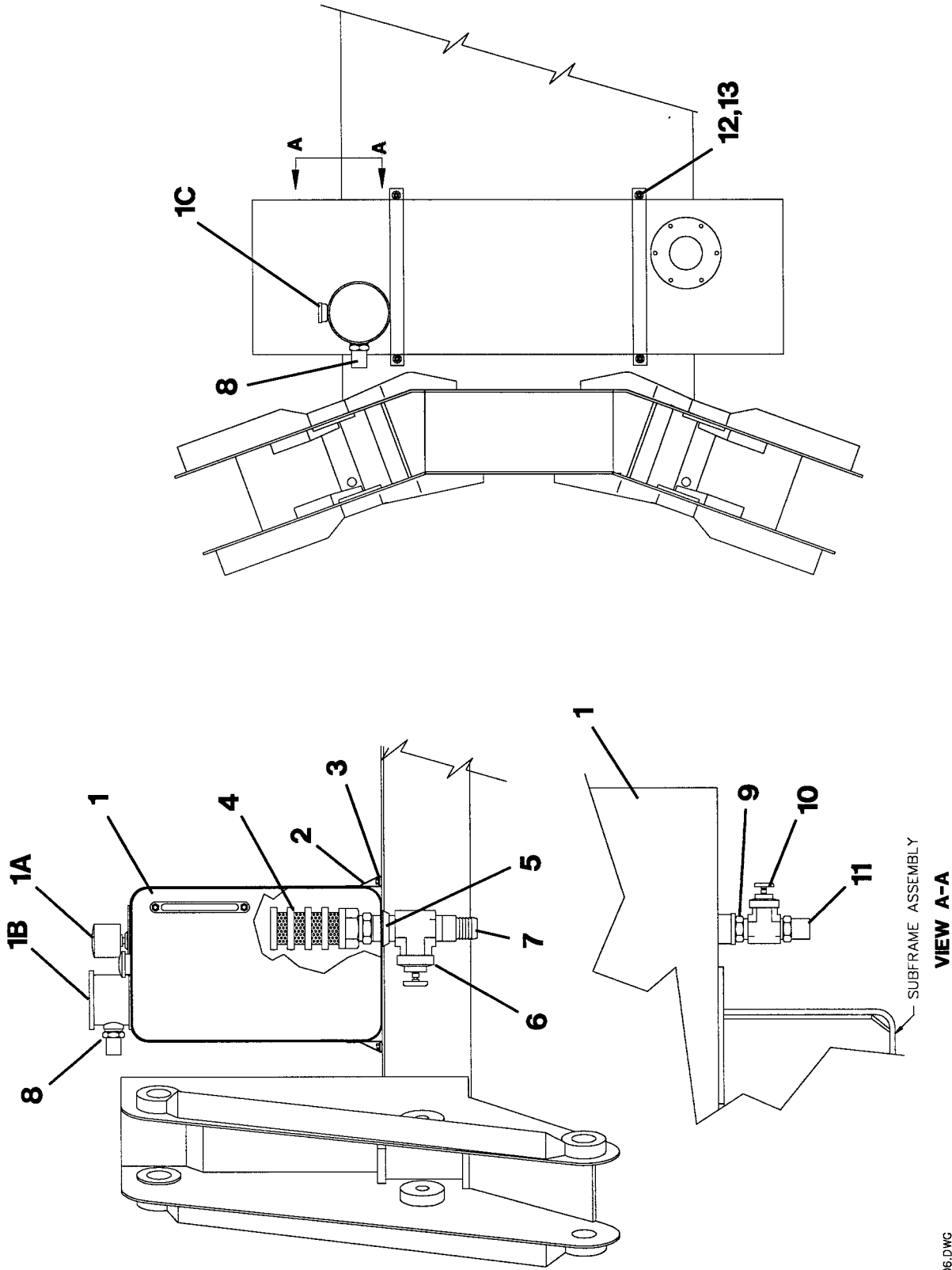
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**RESERVOIR INSTALLATION**

1.3



876-00037

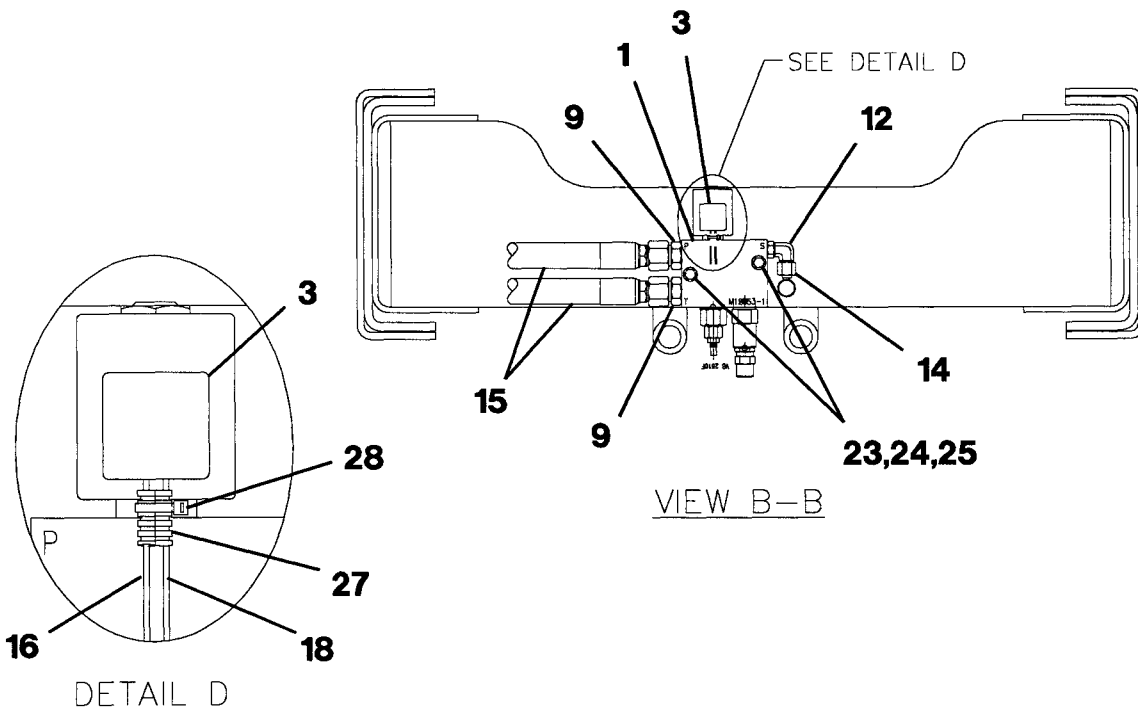
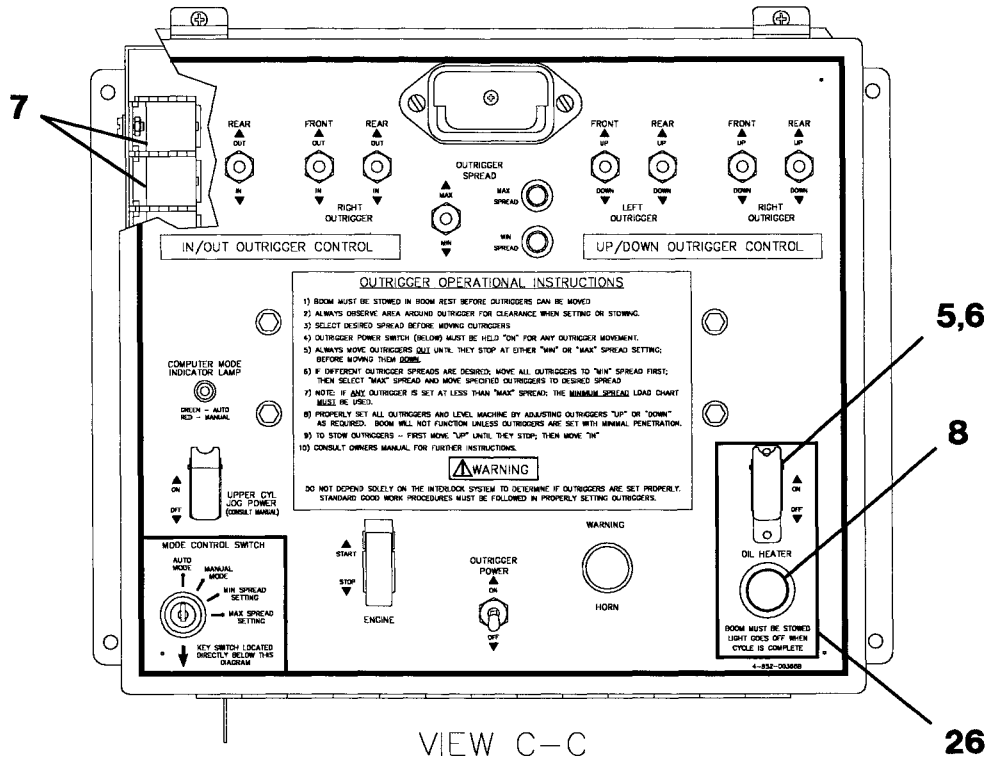
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SUBFRAME ASSEMBLY

**VIEW A-A**

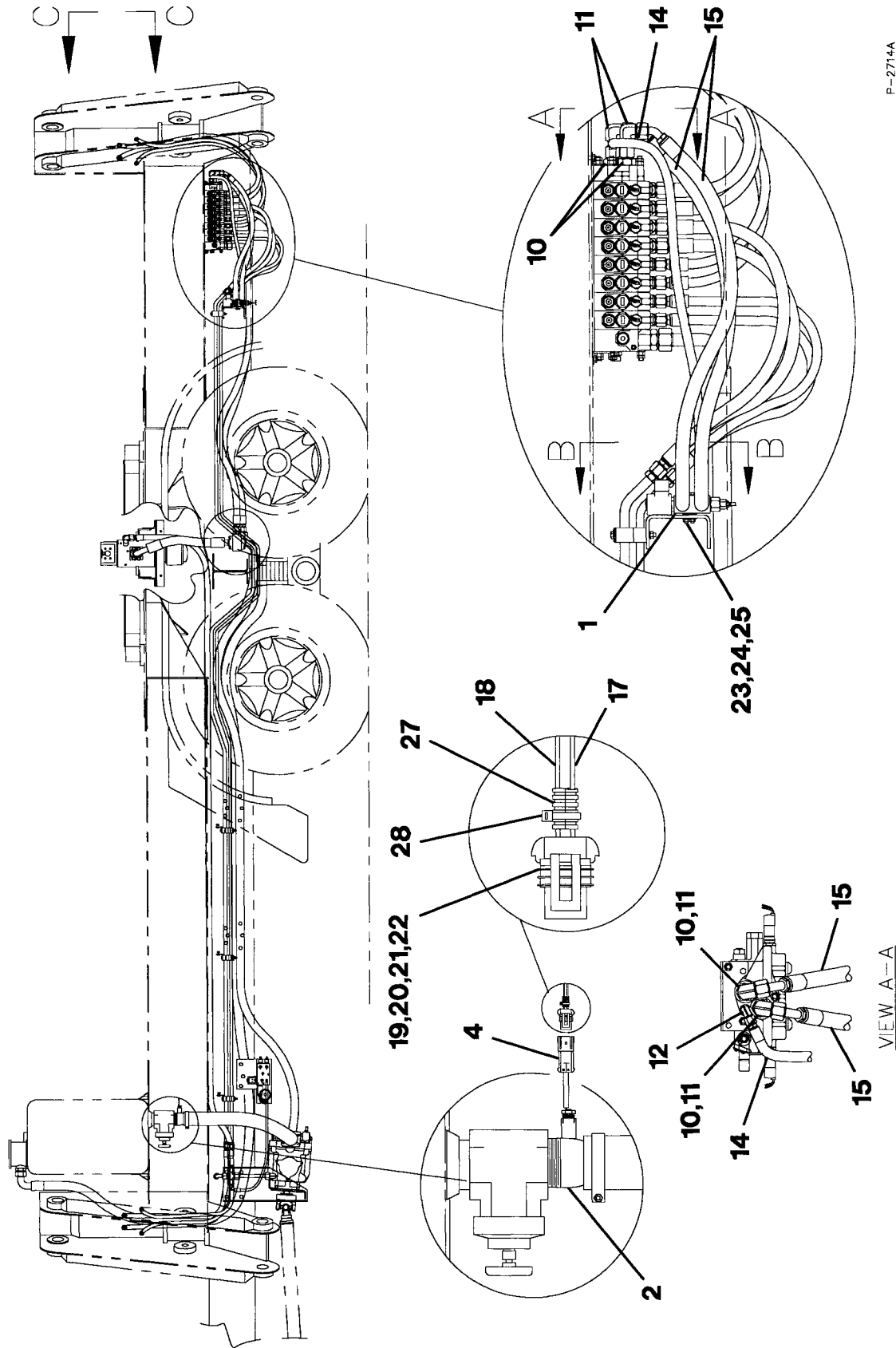
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	875-10207	.RESERVOIR ASSEMBLY	1
1A	875-90138	..FILTER - TANK BREATHER	1
1B	501-01031	..ELEMENT - HYDRAULIC RETURN FILTER	1
1C	935-00113	..GAUGE - FILTER BYPASS	1
2	875-90269	.STRAP - SUPPORT RESERVOIR	2
3	873-03023	.BAR - STRAP SUPPORT	4
4	552-00122	.STRAINER - SUCTION-MAGNETIC	1
5	570-09005	.NIPPLE - CLOSE 2 1/2	1
6	570-90055	.VALVE ASSY - 2 1/2 GATE	1
7	504-00902	.NIPPLE - COMBINATION 2 1/2 NPT	1
8	513-90055	.CONNECTOR - #24 OFS x #24 ORB	1
9	513-70034	.CONNECTOR - 3/4 MPT x #12 ORB	1
10	570-90042	.VALVE ASSY - 3/4 GATE	1
11	513-70032	.CONNECTOR - #12 OFS x 3/4 MPT	1
12	220-02004	.BOLT - HEX HD, 3/8 x 1" LONG	4
13	222-12001	.LOCKWASHER - 3/8 DIA	4
	P-2506.D		

876-00037



**OIL PREHEAT INSTALLATION**

P-2714A



500-80001

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	559-00206	.VALVE - OIL PREHEAT ASSEMBLY	1
	551-10126	..COIL - SOLENOID	1
2	519-90129	.NIPPLE - 3/8 TO 2 1/2 WELDMENT	1
3	400-23221	.CONNECTOR - DIN	1
4	400-24003	.SWITCH - OIL PREHEAT TEMPERATURE SUBASSEMBLY	1
5	400-04034	.SWITCH - TOGGLE	1
6	400-04036	.GUARD - SWITCH	1
7	400-05459	.RELAY	2
8	400-09255	.LIGHT - PILOT RED	1
9	513-60012	.CONNECTOR	2
10	513-60009	.CONNECTOR	2
11	514-66003	.ELBOW - 90°	2
12	514-52006	.ELBOW - 90° LONG	1
13	514-53003	.ELBOW - 90°	1
14	502-11172	.HOSE - TRANSDUCER ASSEMBLY	1
15	502-35045	.HOSE - UPPER CYLINDER ASSEMBLY	2
16	400-01379	.WIRE - WHITE	8'
17	400-01376	.WIRE - RED	25'
18	400-01378	.WIRE - BLACK	4'
19	400-23193	.CONNECTOR - 2 WAY	1
20	400-23188	.LOCK - SECONDARY 2 WAY	1
21	400-23197	.TERMINAL - FEMALE	2
22	400-23199	.SEAL - CABLE	2
23	220-00005	.BOLT - 1/4 x 2 1/2"	2
24	222-00006	.WASHER - FLAT 1/4	8
25	221-90001	.NUT - TOPLOCK 1/4	2
26	652-00416	.PLACARD - OIL HEATER	1
27	400-01411	.LOOM - SPLIT	35'
28	400-15086	.TIE - CABLE	4
29	400-24000	.BOX - ELECTRICAL OUTRIGGER CONTROLS	REF
30	400-02243	.RING - TERMINAL	4
31	400-15086	.RING - TERMINAL	2
32	400-02277	.RING - TERMINAL	2
33	400-02202	.CONNECTOR - BUTT	2

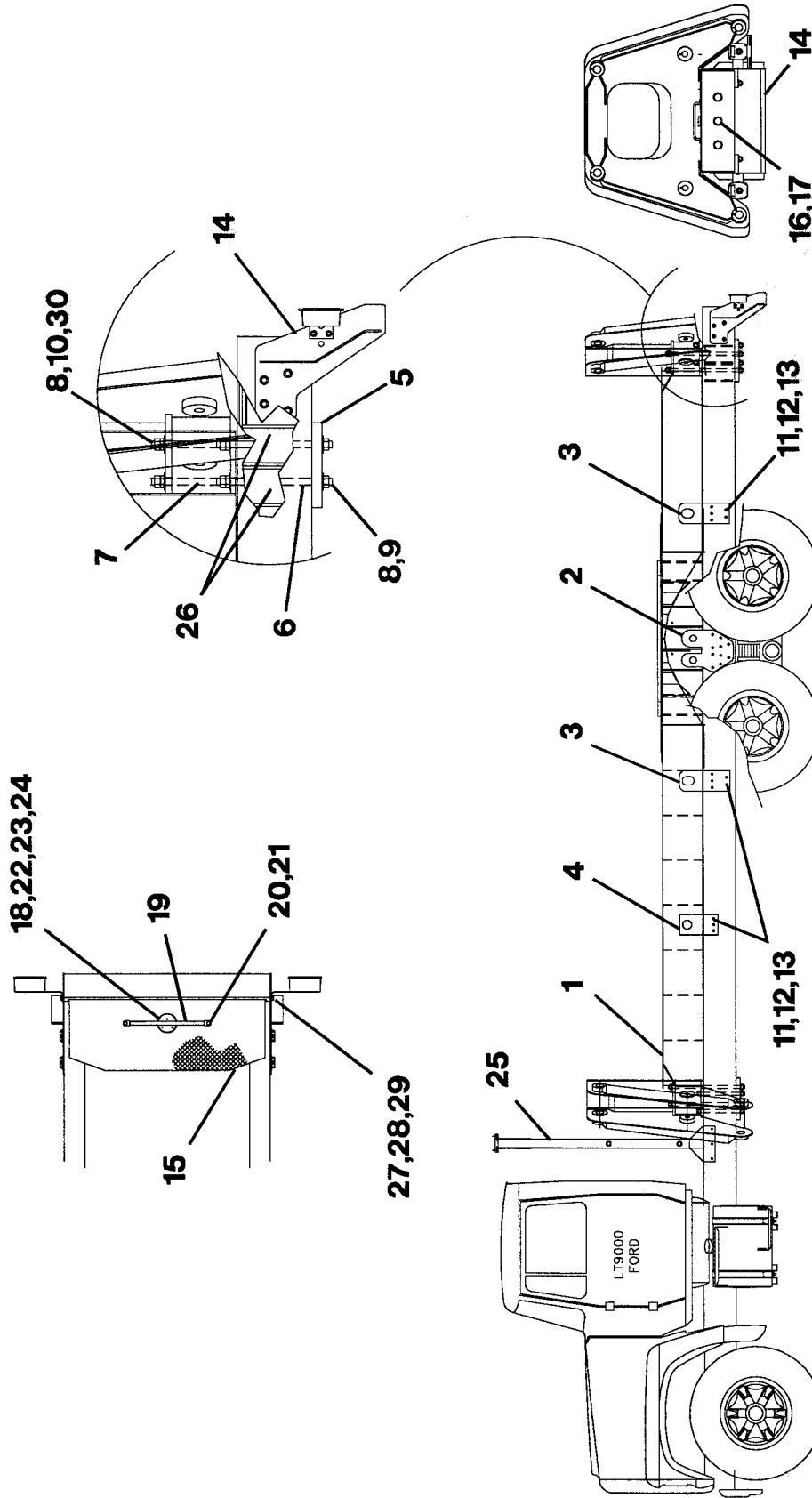
P-2714

OIL PREHEAT INSTALLATION

500-80001

**SUBFRAME INSTALLATION LT9000**

1.5



691-00013

P--25356.DWG

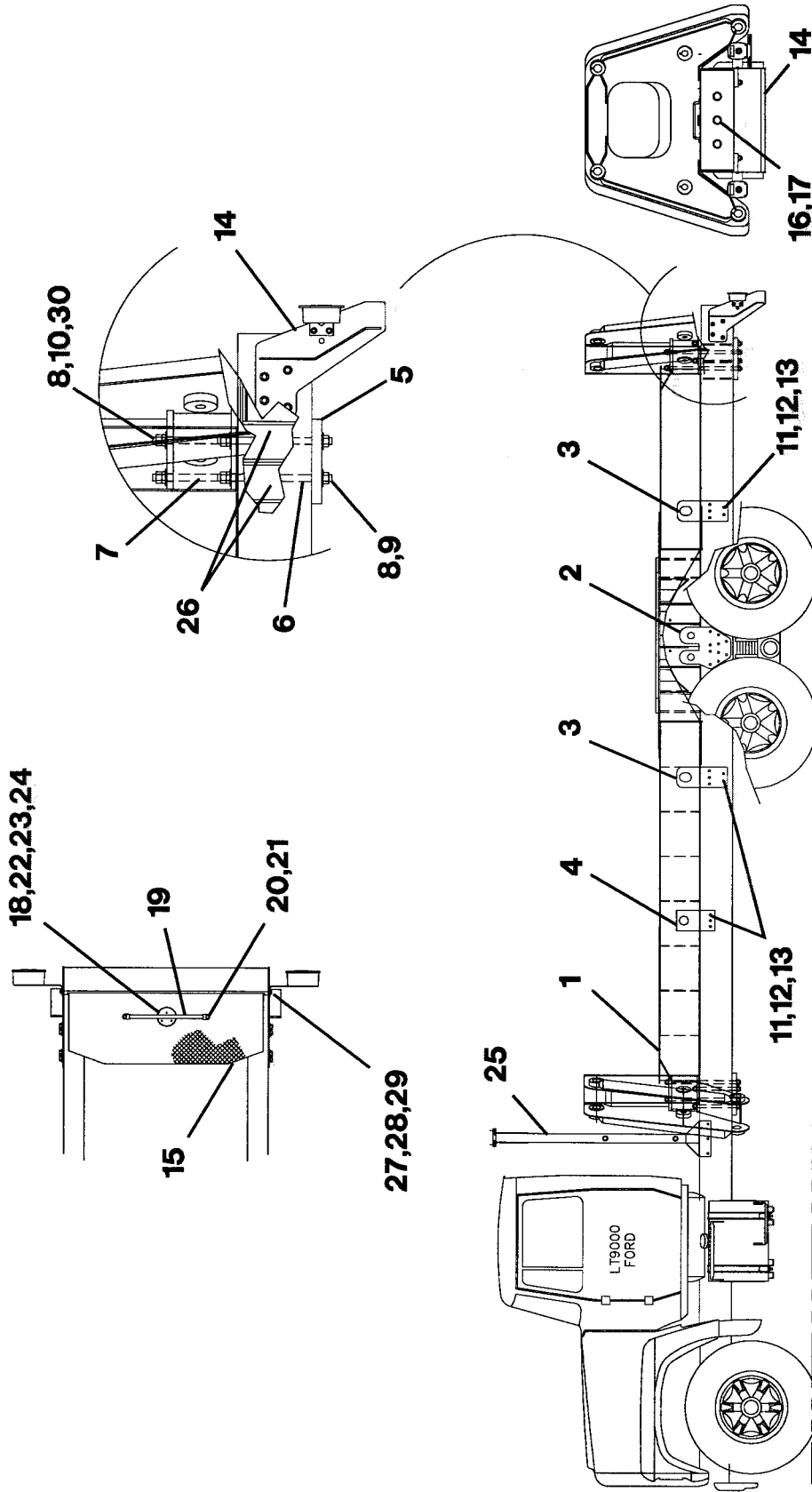
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	700-00580	.SUBFRAME WELDMENT	REF
2	709-01460	.PLATE - MAIN SHEAR	2
3	709-01519	.PLATE - AUXILIARY SHEAR	4
4	709-01251	.PLATE - SHEAR	2
5	783-03274	.BAR - SUBFRAME TIEDOWN	4
6	220-09094	.STUD - TIEDOWN (SHORT)	8
7	220-09095	.STUD - TIEDOWN (LONG)	8
8	222-09004	.FLATWASHER - 1" DIA	32
9	221-99013	.HEX NUT - LOCK 1"	16
10	221-29007	.HEX NUT - 1"	16
11	220-06032	.BOLT - HEX HD, 5/8 x 2 1/2" LONG	46
12	222-06010	.FLATWASHER - 5/8 DIA	92
13	221-96002	.HEX NUT - TOPLOCK 5/8	46
14	600-22074	.GUARD - UNDERRIDE WELDMENT	1
15	789-04524	.PLATE - REAR FRAME COVER	1
16	400-09094	.LAMP - RED MARKER	3
17	400-09095	.GROMMET - LAMP MOUNTING	3
18	209-00577	.LEVEL INDICATOR	1
19	209-00444	.GRAB HANDLE	1
20	220-02047	.BOLT - HEX HD, 3/8 x 1" LONG	2
21	221-92001	.NUT - TOPLOCK #8	2
22	223-00102	.SCREW - MACHINE #8 x 3/4" LONG	3
23	221-00003	.NUT #8	3
24	222-10004	.LOCKWASHER - #8 DIA	3
25	698-00040	.BOOM REST INSTALLATION (SEE 1.10)	REF
26	021-40043	.CHANNEL - FRAME REINFORCEMENT	8
27	220-01005	.BOLT - HEX HD, 5/16 x 1" LONG	4
28	222-01001	.FLATWASHER - 5/16 DIA	8
29	221-91001	.HEX NUT - 5/16, TOPLOCK	4
30	221-29005	.HEX NUT - 1-14UNF, JAM	16

P-2536.D

691-00013

**SUBFRAME INSTALLATION LTS8000**

1.5



691-00015

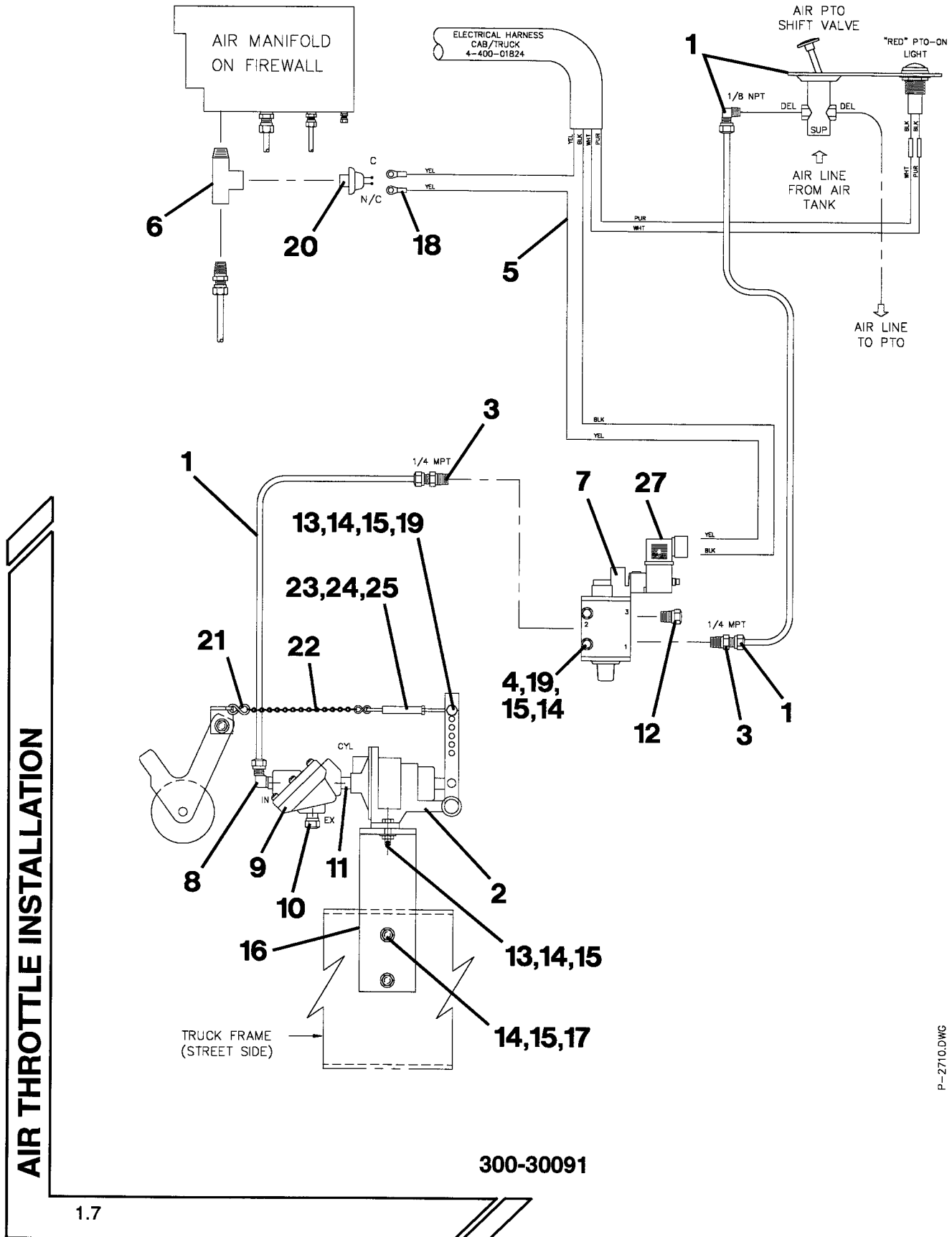
P-2537.DWG



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	700-00580	.SUBFRAME WELDMENT	REF
2	709-01542	.PLATE - MAIN SHEAR	2
3	709-01519	.PLATE - AUXILIARY SHEAR	4
4	709-01251	.PLATE - SHEAR	2
5	783-03274	.BAR - SUBFRAME TIEDOWN	4
6	220-09094	.STUD - TIEDOWN (SHORT)	8
7	220-09095	.STUD - TIEDOWN (LONG)	8
8	222-09004	.FLATWASHER - 1" DIA	32
9	221-99013	.HEX NUT - LOCK 1"	16
10	221-29007	.HEX NUT - 1"	16
11	220-06032	.BOLT - HEX HD, 5/8 x 2 1/2" LONG	46
12	222-06010	.FLATWASHER - 5/8 DIA	92
13	221-96002	.HEX NUT - TOPLOCK 5/8	46
14	600-22074	.GUARD - UNDERRIDE WELDMENT	1
15	789-04639	.PLATE - REAR FRAME COVER	1
16	400-09094	.LAMP - RED MARKER	3
17	400-09095	.GROMMET - LAMP MOUNTING	3
18	209-00577	.LEVEL INDICATOR	1
19	209-00444	.GRAB HANDLE	1
20	220-02047	.BOLT - HEX HD, 3/8 x 1" LONG	2
21	221-92001	.NUT - TOPLOCK #8	2
22	223-00102	.SCREW - MACHINE #8 x 3/4" LONG	3
23	221-00003	.NUT #8	3
24	222-10004	.LOCKWASHER - #8 DIA	3
25	698-00040	.BOOM REST INSTALLATION (SEE 1.10)	REF
26	021-40042	.CHANNEL - FRAME REINFORCEMENT	8
27	220-01005	.BOLT - HEX HD, 5/16 x 1" LONG	4
28	222-01001	.FLATWASHER - 5/16 DIA	8
29	221-91001	.HEX NUT - 5/16, TOPLOCK	4
30	221-29005	.HEX NUT - 1-14UNF, JAM	16

P-2537.D

691-00015



P-2710.DWG

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	350-00163	.PTO KIT - MUNCIE	REF
2	300-00332	.THROTTLE AIR CYLINDER POSITIONER	1
3	300-32002	.CONNECTOR - 1/4 MPT x 1/4 TUBE	2
4	220-00006	.BOLT 1/4-20NC x 1 3/4" LONG	2
5	400-01377	.WIRE - YELLOW 16GA	1FT
6	570-50027	.STREET TEE - 1/4 NPT, BRASS	1
7	300-00309	.AIR SOLENOID VALVE - 12V 2POS 3WAY	1
8	300-32015	.90° ELBOW - 1/4 MPT x 1/4 TUBE	1
9	300-00464	.QUICK RELEASE AIR VALVE	1
10	300-00435	.AIR VENT BREATHER - 3/8 NPT	1
11	570-01017	.BRASS CLOSE NIPPLE - 1/4 NPT	1
12	300-00418	.BREATHER VENT - 1/4 OD	1
13	220-00001	.BOLT 1/4-20NC x 1" LONG	3
14	222-00006	.FLATWASHER - 1/4 DIA	10
15	221-90001	.LOCKNUT 1/4-20NC	7
16	785-01679	.AIR THROTTLE POSITIONER BRACKET	1
17	220-00008	.BOLT 1/4-20NC x 1 1/2" LONG	2
18	400-02243	.RING EYELET - 14/16 GA #10	2
19	222-10005	.LOCKWASHER 1/4 DIA	3
20	400-05381	.SWITCH - PRESSURE 0-60PSI	1
21	209-00359	.S-HOOK - #812	1
22	205-00005	.CHAIN - #16 JACK	1FT
23	209-00360	.S-HOOK - #813	1
24	209-00402	.TURNBUCKLE	1
25	221-00003	.HEX NUT #8-32NC	1
26	400-01411	.WIRE SPLIT LOOM - 1/4 DIA	12FT
27	400-23300	.RECTIFIER - SCHOITKY	1

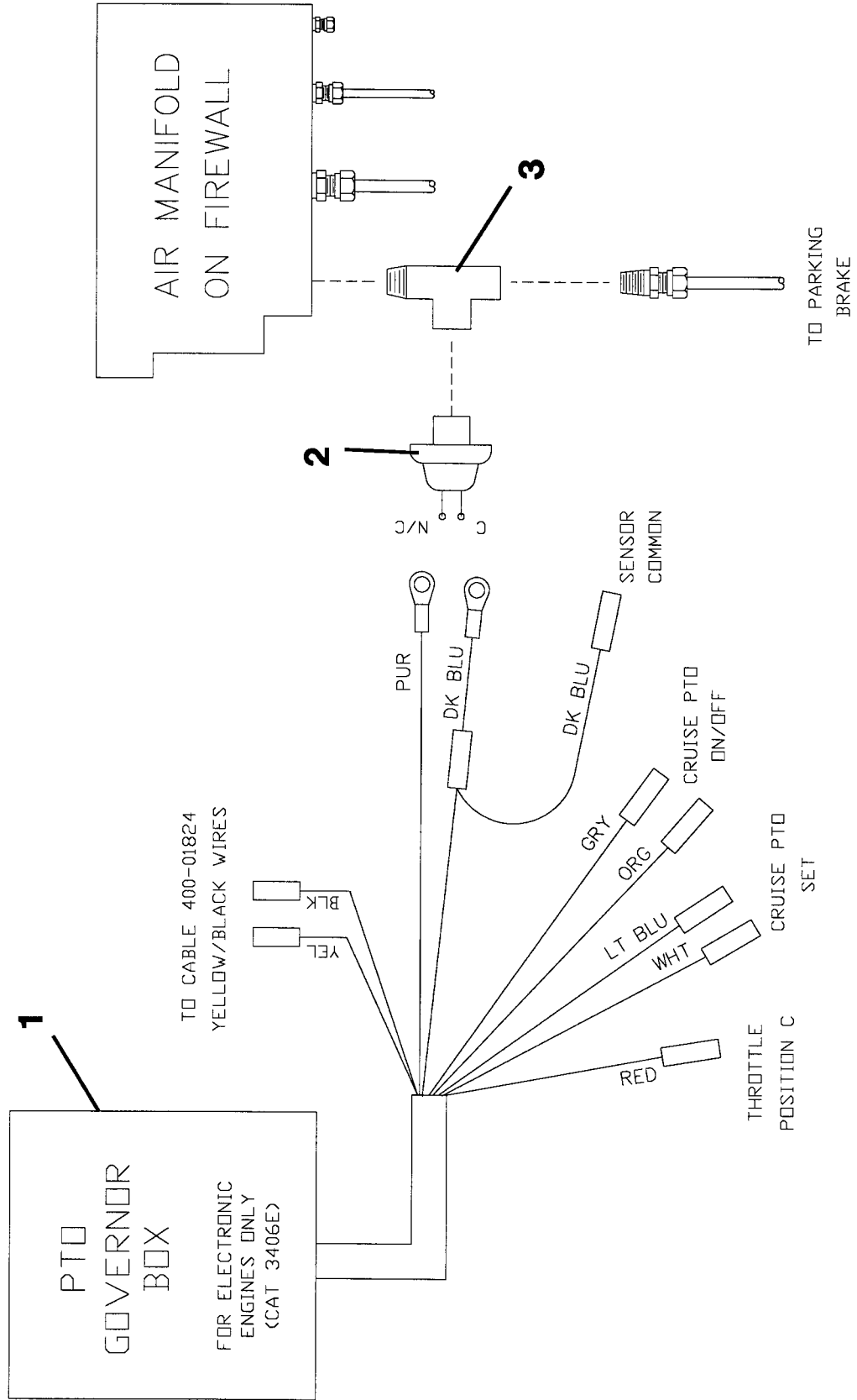
P-2710

AIR THROTTLE INSTALLATION

300-30091

# GOVERNOR INSTALLATION

1.7



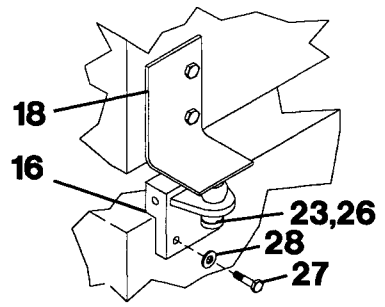
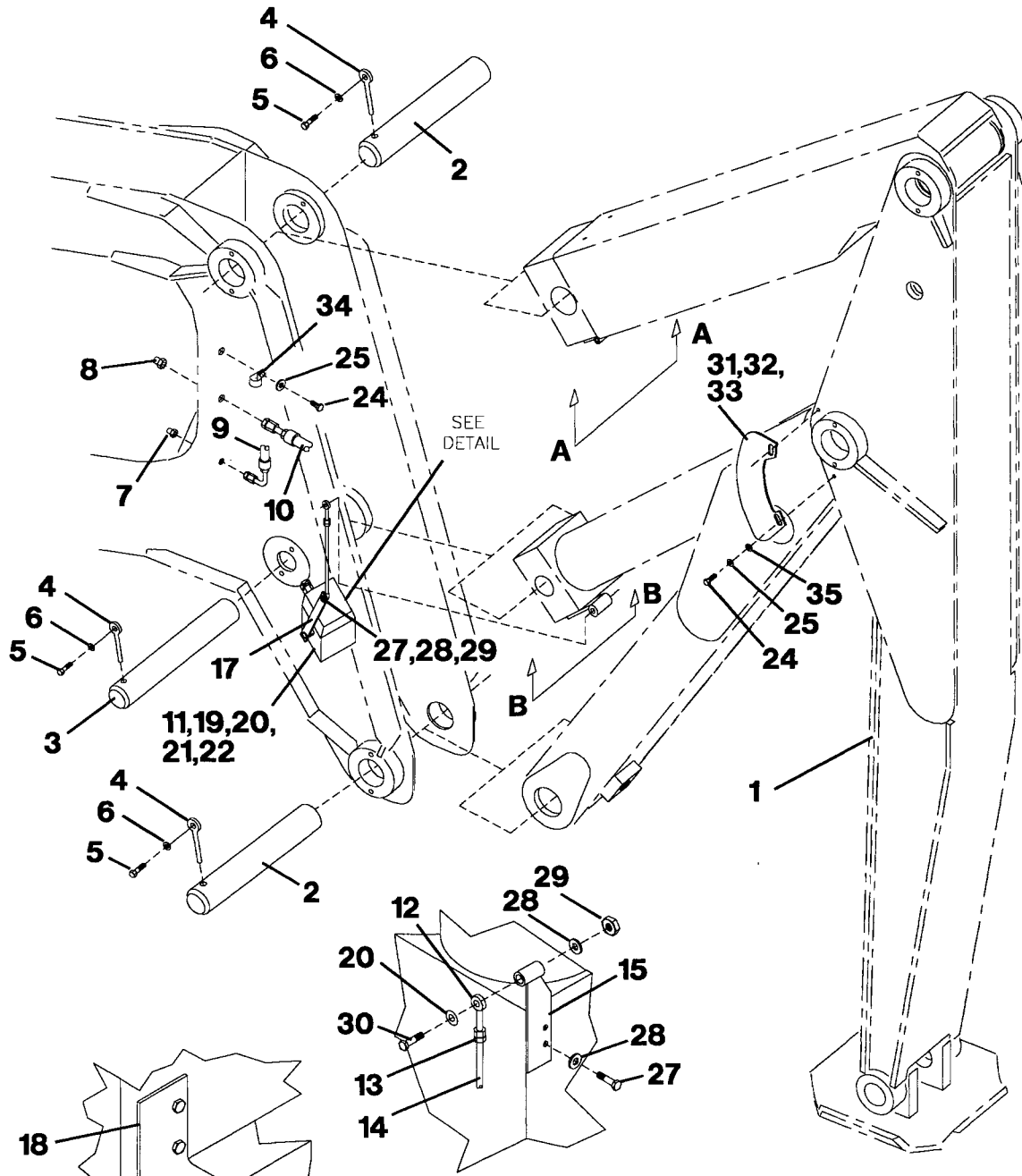
600-40390

P-2711.DWG

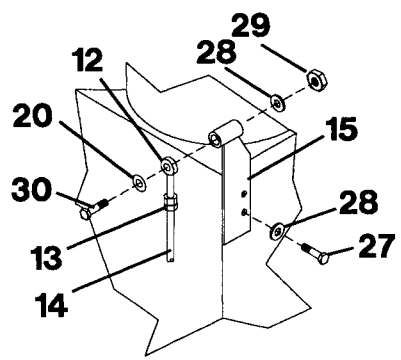
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	400-00947	.ELECTRICAL BOX - PTO GOVERNOR	1
2	400-05381	.SWITCH - PRESSURE 0-60PSI	1
3	570-50027	.STREET TEE - 1/4 NPT BRASS	1
*4	502-30640	.HOSE ASSY - FUEL COOLER SUPPLY	2
*5	514-65001	.ELBOW - 90° , 1/4 TUBE SWIVEL NUT	2
*6	785-01851	.ANGLE - FUEL COOLER SUPPORT, UPPER	1
*7	785-01853	.ANGLE - FUEL COOLER SUPPORT, LOWER	1
	P-2711		
	* NOT SHOWN		

600-40390

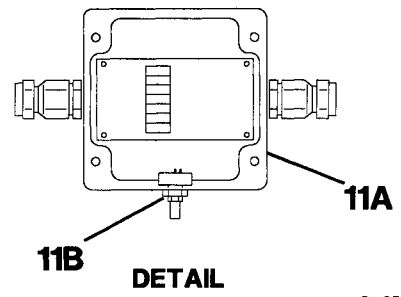
**OUTRIGGER INSTALLATION**



**SECTION A-A**  
ROTATED  
FOR CLARITY



**SECTION B-B**  
ROTATED  
FOR CLARITY



**DETAIL**

P-2508

765-00023

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	760-00339	.LEG ASSEMBLY - OUTRIGGER (SEE 1.8.1)	1
2	870-80008	.PIN - 2 3/4 x 14 1/2" LONG	2
3	870-60217	.PIN - 2 x 12" LONG	1
4	224-26005	.PIN - ROD 5/8 x 4 1/4" LONG	3
5	220-04002	.BOLT - HEX HD, 1/2 x 1 1/4" LONG	3
6	222-14003	.LOCKWASHER - 1/2 DIA	3
7	518-45002	.UNION - BULKHEAD, #8	2
8	518-55002	.UNION - BULKHEAD, #10	2
9	502-30631	.HOSE ASSEMBLY - LOWER CYLINDER	2
10	502-35045	.HOSE ASSEMBLY - UPPER CYLINDER	2
11	400-16059	.POSITION INDICATOR ASSEMBLY - LEFT FRONT	REF
	400-16060	.POSITION INDICATOR ASSEMBLY - RIGHT FRONT	REF
	400-16061	.POSITION INDICATOR ASSEMBLY - LEFT REAR	REF
	400-16062	.POSITION INDICATOR ASSEMBLY - RIGHT REAR	REF
11A	400-16045	..ANGLE POSITION ASSEMBLY (LESS CABLE & ARM)	1
11B	400-14024	...SENSOR - ANGLE POTENTIOMETER	1
12	809-00437	.ROD END - 1/4 BALL	4
13	221-10006	.HEX NUT - JAM, 1/4	2
14	229-00021	.STUD - 1/4 x 8 1/4" LONG	2
15	770-02088	.ACTUATOR - LOWER ASSEMBLY	1
16	770-02089	.ACTUATOR - UPPER ASSEMBLY	1
*17	809-00438	.ARM - ACTUATOR POTENTIOMETER	REF
18	875-01847	.SWITCH - ANGLE ACTUATOR	1
19	223-01130	.SCREW - MACHINE #10 x 1 1/4" LONG	8
20	222-00007	.FLATWASHER - #10 DIA	10
21	222-10006	.LOCKWASHER - #10 DIA	8
22	221-00002	.HEX NUT - #10-24NC	8
**23	400-15086	.TIEWRAPPS - MEDIUM	3
24	220-01005	.BOLT - HEX HD, 5/16 x 1" LONG	2
25	222-11002	.LOCKWASHER - 5/16 DIA	2
26	400-04213	.SWITCH	1
27	220-00001	.BOLT - HEX HD, 1/4 x 1" LONG	6
28	222-10005	.LOCKWASHER - 1/4 DIA	7
29	221-00001	.HEX NUT - 1/4-20UNC-2B	3
30	220-00007	.BOLT - HEX HD, 1/4-20UNC x 2" LONG	1
31	789-04708	.PLATE - PLACARD MOUNTING	1
***32	652-00411	.PLACARD - OUTRIGGER POSITION	REF
***33	652-00414	.STRIPING TAPE - INDICATOR	REF
34	201-00086	.CLAMP - NYLON COVERED	1
35	222-01001	.FLATWASHER - 5/16	2

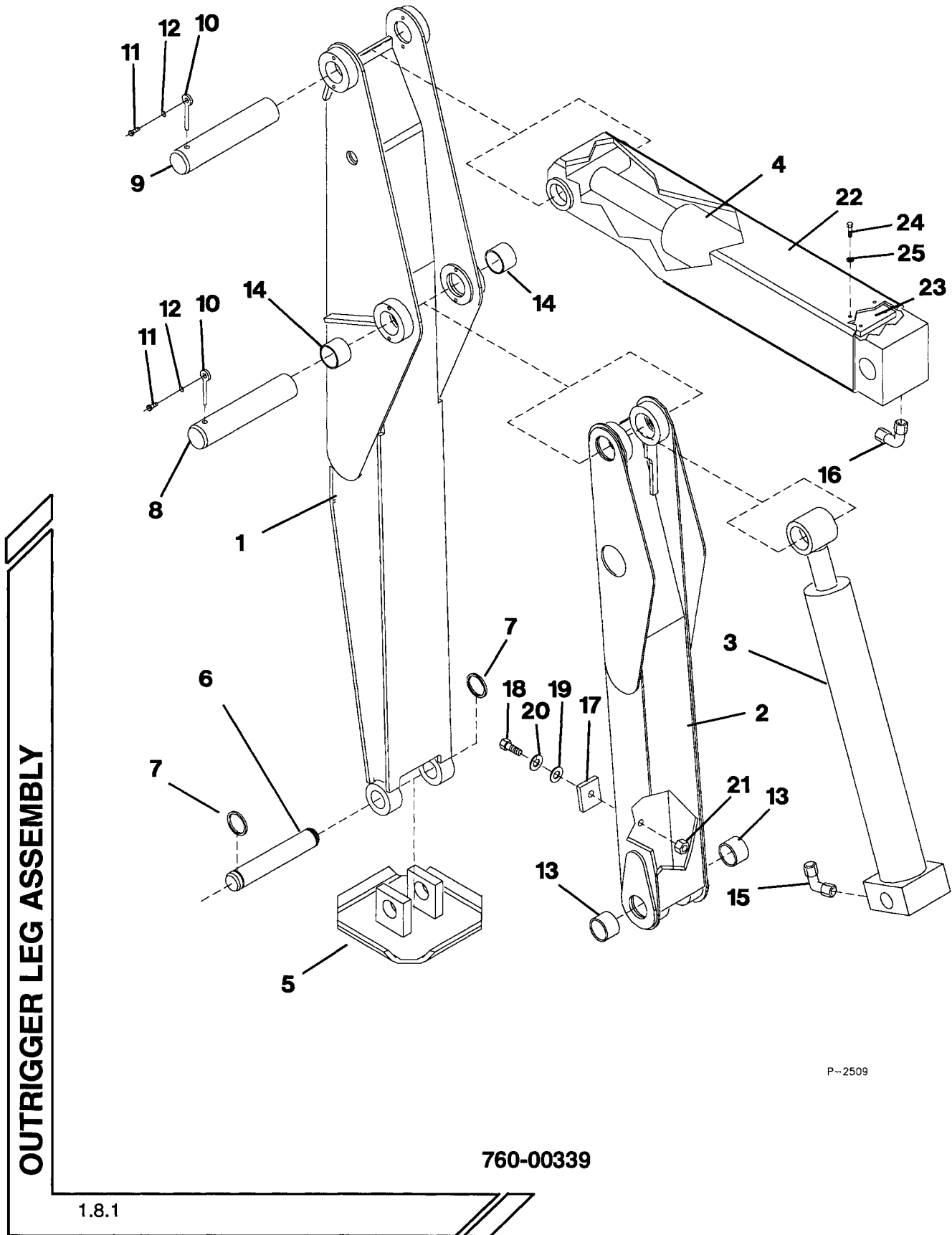
P-2508.D

\*ARM IS PART OF POSITION INDICATOR ASSEMBLY.  
REQUIRES SPECIAL PROCEDURE TO PROPERLY INSTALL.

\*\*ITEM NOT SHOWN

\*\*\*PART OF PLACARD INSTALLATION

765-00023





ITEM	PART NUMBER	DESCRIPTION	QTY.
1	760-10349	.LEG ASSEMBLY	1
2	760-90040	.LINK - LOWER OUTRIGGER LEG	1
3	540-50020	.CYLINDER - LOWER OUTRIGGER (SEE 1.8.1.1)	1
4	540-70018	.CYLINDER - UPPER OUTRIGGER (SEE 1.8.1.2)	1
5	760-30167	.SHOE - OUTRIGGER	1
6	870-70066	.PIN - 2 1/4 DIA x 11 3/16" LONG	1
7	200-30009	.RING - RETAINING 2 1/4 DIA	2
8	870-90037	.PIN - 3 DIA x 15" LONG	1
9	870-80009	.PIN - 2 3/4 DIA x 15" LONG	1
10	224-26005	.PIN - ROD, 5/8 DIA x 4 1/4" LONG	2
11	220-04002	.BOLT - HEX HD, 1/2 x 1 1/4" LONG	2
12	222-14003	.LOCKWASHER - 1/2 DIA	2
13	271-18002	.BEARING - 2 3/4 DIA x 2 3/4" LONG	2
14	271-19018	.BEARING - 3 DIA x 1 1/2" LONG	2
15	514-55011	.ELBOW - 90°, #8 OFS x #8 ORB	2
16	514-56003	.ELBOW - 90°, #10 OFS x #10 ORB	2
17	780-00221	.PAD	1
18	220-02002	.BOLT - HEX HD, 3/8 x 1 1/4" LONG	1
19	222-02005	.FLATWASHER - 3/8 DIA	1
20	222-12001	.LOCKWASHER - 3/8 DIA	1
21	221-02001	.HEX NUT - 3/8	1
22	760-90044	.COVER - UPPER OUTRIGGER CYLINDER	1
23	729-02550	.PAD - OUTRIGGER COVER SLIDER	2
24	220-01005	.BOLT - HEX HD, 5/16 x 1" LONG	8
25	222-11002	.LOCKWASHER - 5/16 DIA	8

P-2509.D

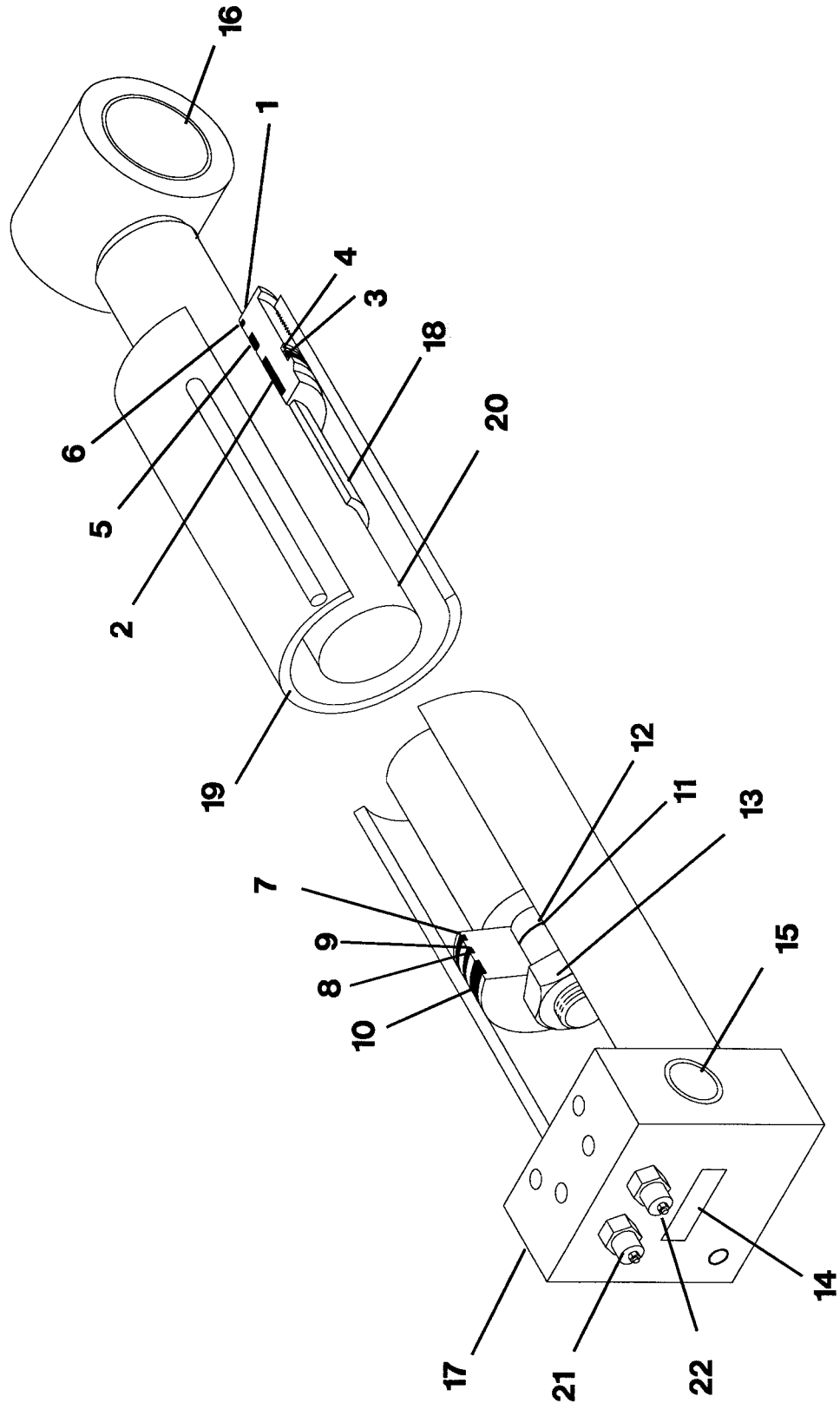
OUTRIGGER LEG ASSEMBLY

760-00339

1.8.1

**OUTRIGGER CYLINDER - LOWER**

1.8.1.1



540-50020

P-2421.DWG

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	830-00317	.HEAD	1
*2	830-00318	.RING - ROD WEAR	3
*3	830-00230	.O-RING	1
*4	830-00231	.BACKUP	1
*5	830-00247	.SEAL - ROD	1
*6	830-00248	.WIPER - ROD	1
7	830-00319	.PISTON	1
*8	830-00028	.SEAL - PISTON	1
*9	830-00224	.O-RING	1
*10	830-00229	.RING - WEAR	2
*11	830-00208	.O-RING	1
*12	830-00209	.BACKUP	1
13	830-00204	.LOCKNUT	1
14	830-00200	.TAG - ID	1
15	830-00321	.BUSHING - FIBERGLIDE	2
16	830-00322	.BUSHING - FIBERGLIDE	2
17	830-00327	.PLUG - MACHINING	1
18	830-00324	.SPACER	1
19	830-00325	.CASE WELDMENT	1
20	830-00326	.ROD WELDMENT	1
**21	552-00119	.VALVE - COUNTERBALANCE (5000 PSI) EXTEND	1
**22	552-00089	.VALVE - COUNTERBALANCE (3400 PSI) RETRACT	1

P-2421.D

\*ITEMS INCLUDED IN SEAL KIT #268-90150

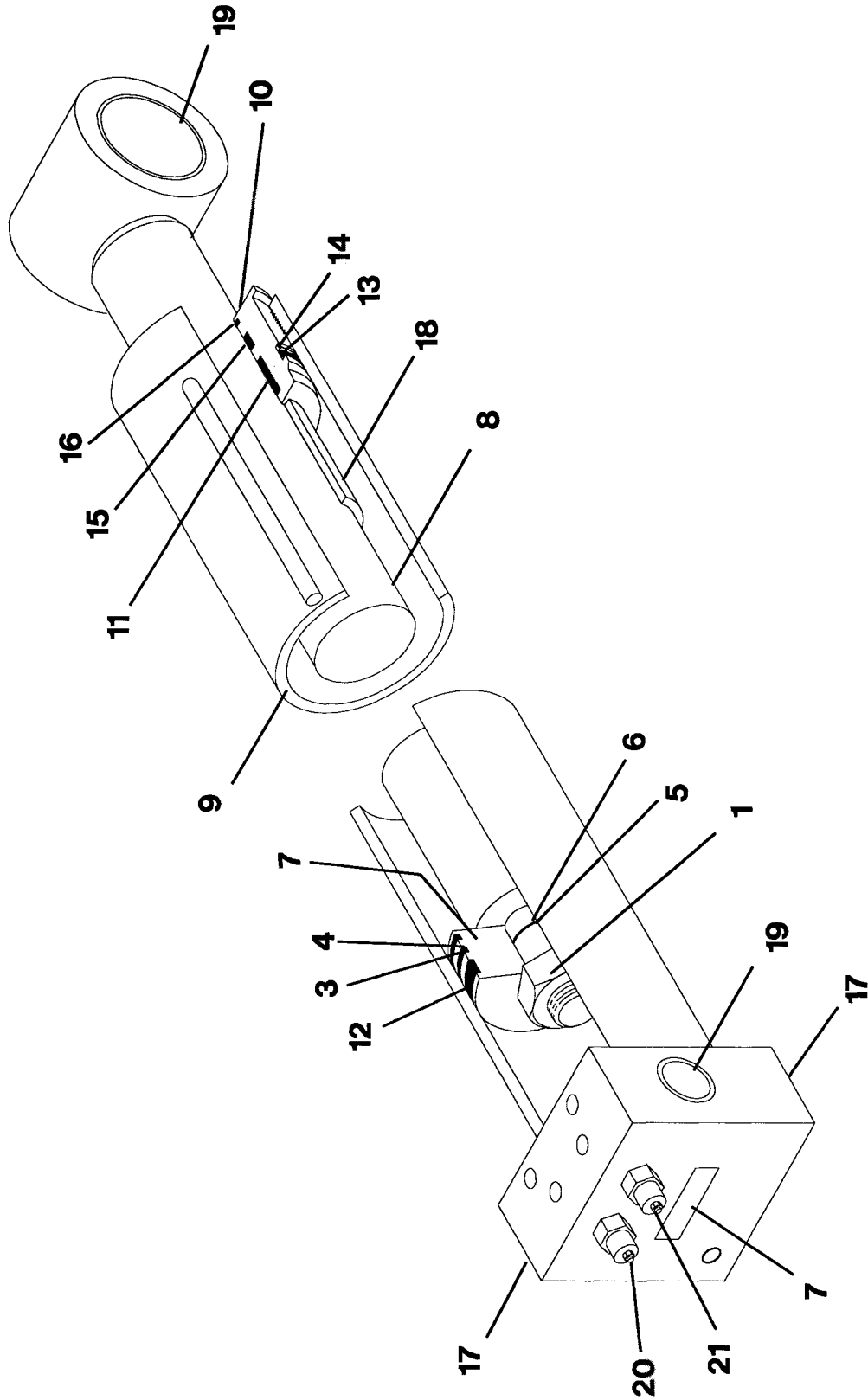
\*\*SEAL KIT #059-00012

540-50020

1.8.1.1

**OUTRIGGER CYLINDER - UPPER**

1.8.1.2



540-70018

P-2459.DWG

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	830-00121	.LOCKNUT	1
2	830-00331	.PISTON	1
*3	830-00332	.SEAL - PISTON	1
*4	830-00333	.O-RING	1
*5	830-00123	.O-RING	1
*6	830-00006	.BACKUP	2
7	830-00200	.TAG - ID	1
8	830-00334	.ROD WELDMENT	1
9	830-00335	.CASE WELDMENT	1
10	830-00336	.HEAD	1
*11	830-00337	.RING - ROD WEAR	2
*12	830-00338	.RING - PISTON WEAR	2
*13	830-00339	.O-RING	1
*14	830-00340	.BACKUP	1
*15	830-00128	.SEAL - ROD	1
*16	830-00129	.WIPER - ROD	1
17	830-00327	.PLUG - MACHINING	1
18	830-00341	.SPACER	1
19	830-00171	.BUSHING	4
**20	552-00119	.VALVE - COUNTERBALANCE (5000 PSI) EXTEND	1
**21	552-00089	.VALVE - COUNTERBALANCE (3400 PSI) RETRACT	1

P-2459.D

\*ITEMS INCLUDED IN SEAL KIT #268-90147

\*\*SEAL KIT #059-00012

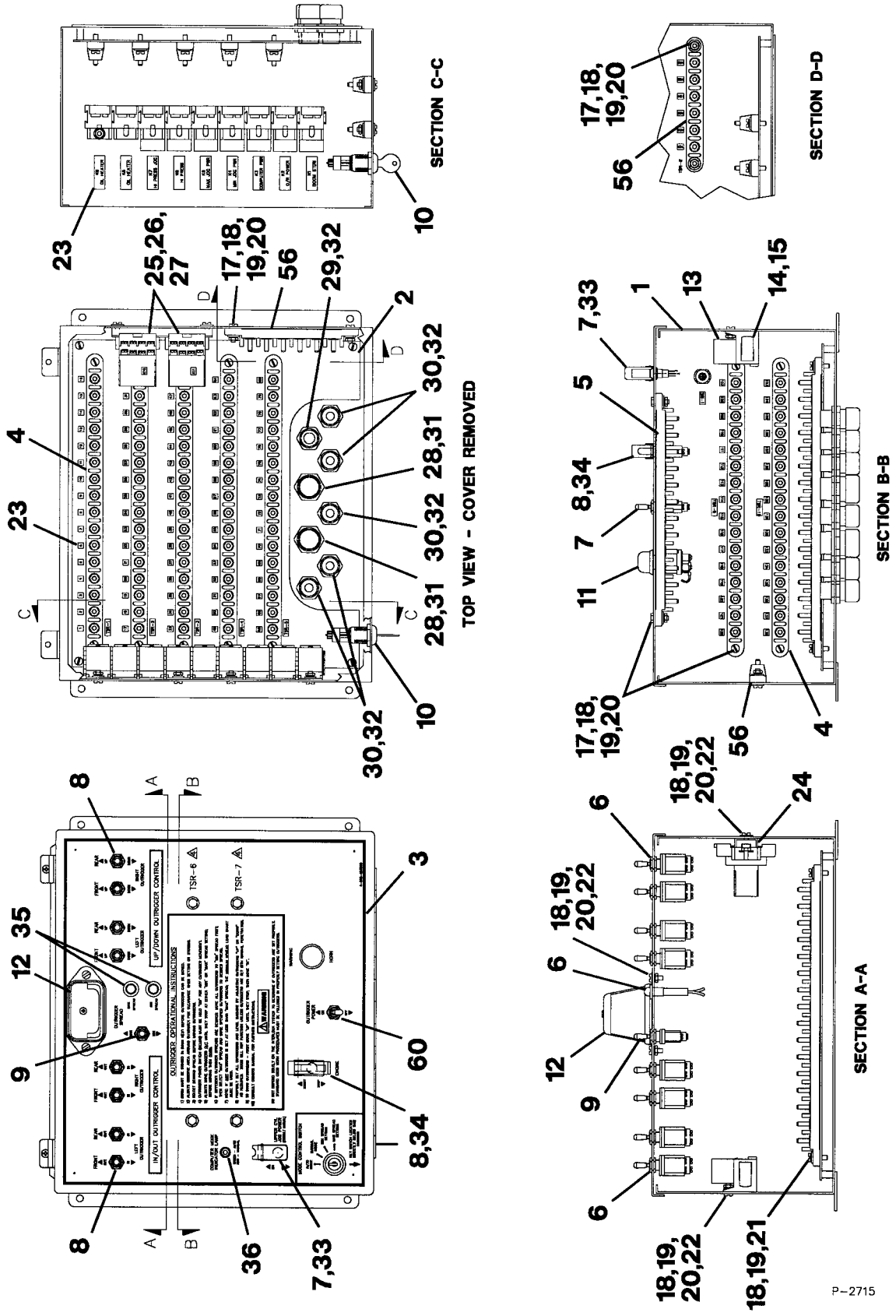
OUTRIGGER CYLINDER - UPPER

540-70018

1.8.1.2

**OUTRIGGER CONTROL ELECTRIC BOX**

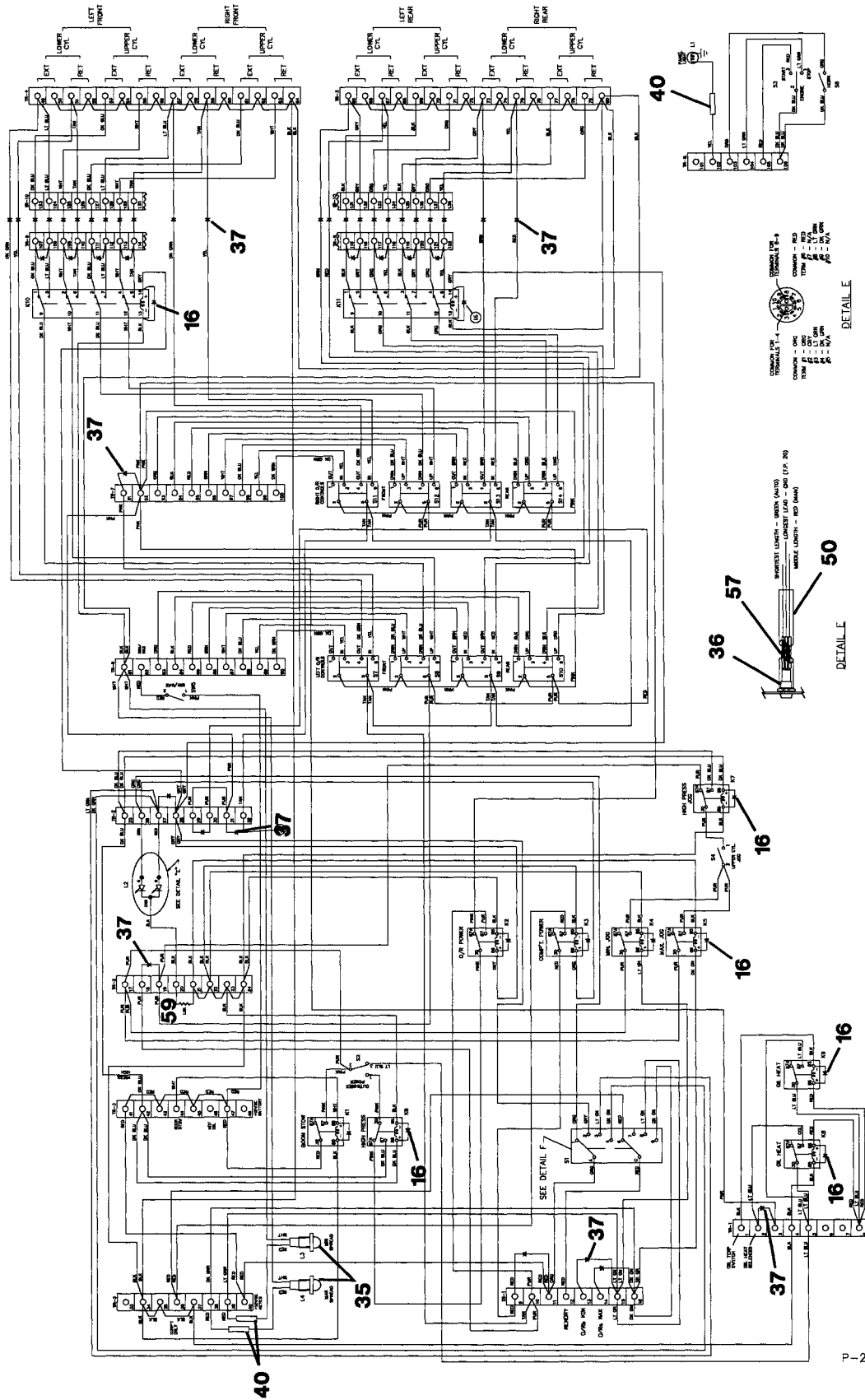
1.8.1.3



400-24000

P-2715

OUTRIGGER CONTROL ELECTRIC BOX



P-2715A

400-24000

1.8.1.3

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	400-05362	.ELECTRIC BOX - OUTRIGGER CONTROLS MOD	1
2	400-05363	.ELECTRIC PANEL - OUTRIGGER CONTROLS MOD	1
3	652-00366	.PLACARD - OUTRIGGER CONTROLS	1
4	400-03048	.STRIP - TERMINAL, 16 POST	7
5	400-03058	.STRIP - TERMINAL, 12 POST	2
6	400-04014	.SWITCH - MOMENTARY	8
7	400-04034	.SWITCH - MOMENTARY	1
8	400-04015	.SWITCH - MOMENTARY	1
9	400-04031	.SWITCH - MAINTAINED	1
10	400-04253	.SWITCH - KEYLOCK	1
11	400-04213	.BUTTON - HORN	1
12	400-09123	.LIGHT - PANEL	1
13	400-05459	.RELAY - SPDT	7
14	400-02377	.CONNECTOR - RELAY BRACKET MOUNT	9
15	400-02337	.TERMINAL -RELAY	39
16	400-23300	.RECTIFIER	11
17	223-03113	.SCREW - PHM #10NC x 3/4"	10
18	222-00007	.WASHER - FLAT #10	38
19	222-10006	.WASHER - LOCK #10	28
20	221-00002	.NUT - HEX #10NC	18
21	223-14106	.SCREW - PHM #10NC x 3/4	10
22	223-03103	.SCREW - PHM #10NC x 1/2"	2
23	654-00163	.TAPE - IDENT	A/R
24	400-05246	.RAIL - RELAY MOUNTING	1
25	400-05274	.BASE - RELAY	2
26	400-05360	.RELAY - 12VDC	2
27	400-05116	.CLIP - RELAY RETAINER	4
28	400-15125	.RELEIF - 3/4 STRAIN	2
29	400-15084	.RELEIF - 1/2 STRAIN	1
30	400-15066	.RELEIF - 1/2 STRAIN	5
31	400-15103	.NUT 0 3/4 HUB	2
32	400-15054	.NUT - 1/2 HUB	6
33	400-04032	.GUARD - SWITCH	1
34	400-04036	.GUARD - SWITCH	1
35	400-09345	.LIGHT - GREEN LED INDICATOR	2
36	400-09317	.LIGHT - RED/GREEN LED INDICATOR	1
37	400-23046	.DIODE	41
38	400-02243	.RING - TERMINAL #10	281
39	400-02290	.RING - TERMINAL #6	75
40	400-02202	.CONNECTOR - BUTT	3
41	400-15086	.TIE - CABLE	A/R
42	400-01376	.WIRE - RED	A/R
43	400-01378	.WIRE - BLACK	A/R
44	400-01513	.WIRE - PINK	A/R
45	400-01379	.WIRE - WHITE	A/R
46	400-01377	.WIRE - YELLOW	A/R
47	400-01374	.WIRE - BROWN	A/R
48	400-01380	.WIRE - ORANGE	A/R
49	400-01389	.WIRE - DARK BLUE	A/R
50	400-01375	.WIRE - DARK GREEN	A/R
51	400-01390	.WIRE - LIGHT GREEN	A/R

**OUTRIGGER CONTROL ELECTRIC BOX**

**400-24000**

1.8.1.3



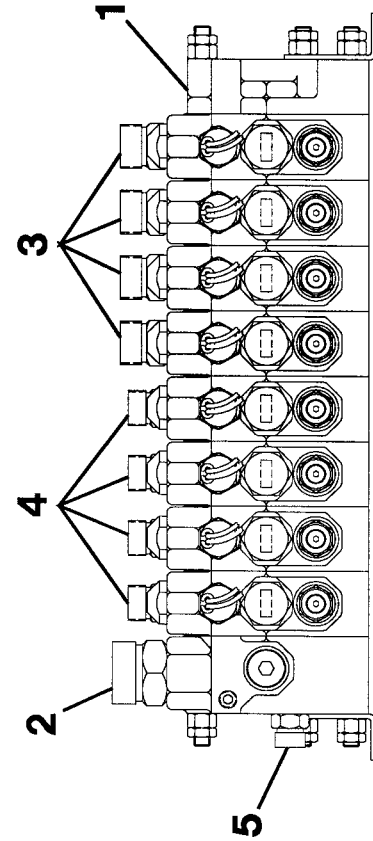
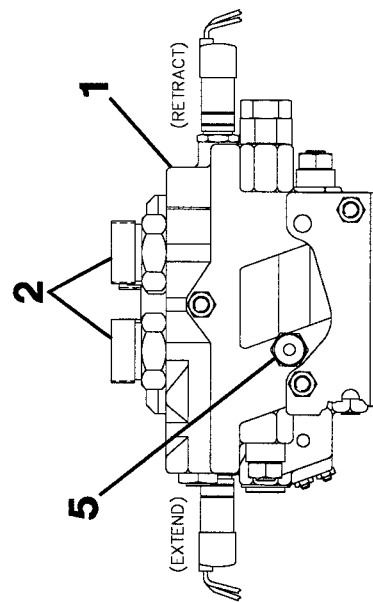
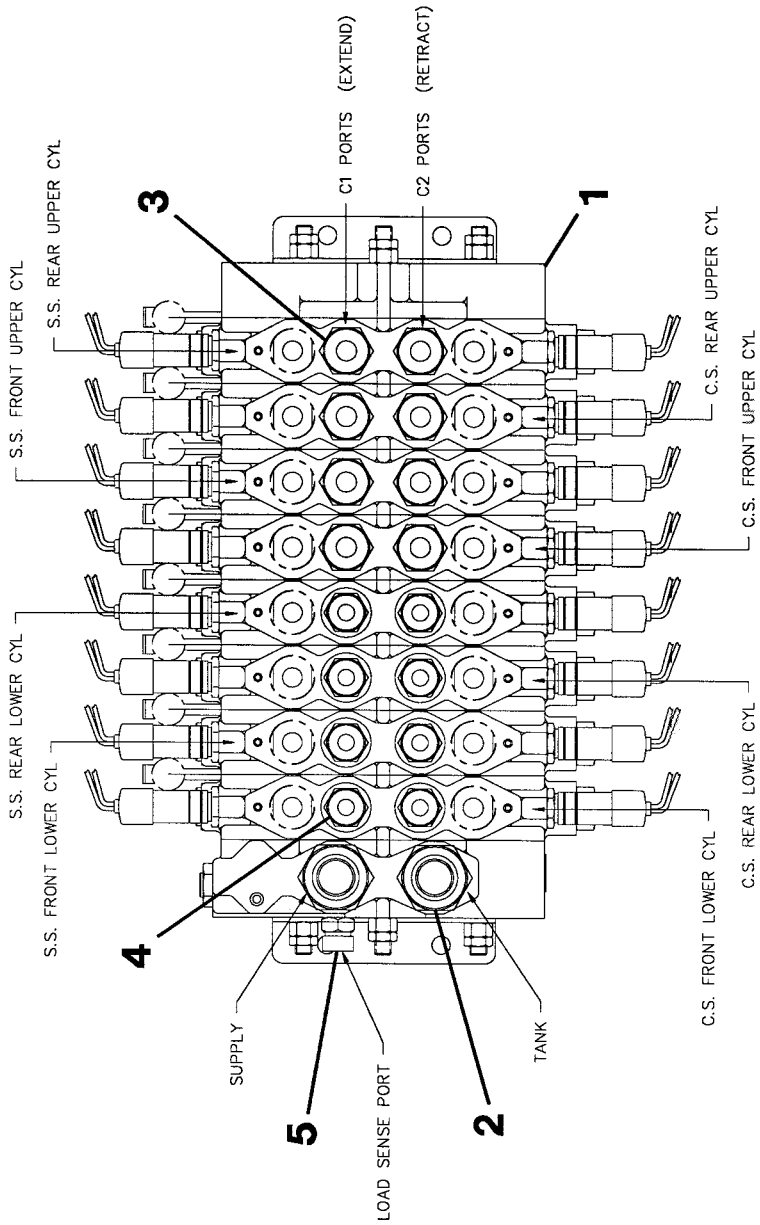
ITEM	PART NUMBER	DESCRIPTION	QTY.
52	400-01404	.WIRE - PURPLE	A/R
53	400-01512	.WIRE - GRAY	A/R
54	400-01600	.WIRE - TAN	A/R
55	400-01599	.WIRE - LIGHT BLUE	A/R
56	400-03095	.STRIP - TERMINAL, 6 POST	1
57	400-15101	.TUBING - HEAT SHRINK	1
58	400-15094	.TUBING - HEAT SHRINK	1
59	400-23249	.RESISTOR	1
60	400-04039	.SWITCH - MAINTAINED/MOMENTARY	1
	P-2715		

400-24000

1.8.1.3

**OUTRIGGER CONTROL VALVE S/A**

1.8.1.4



500-01642

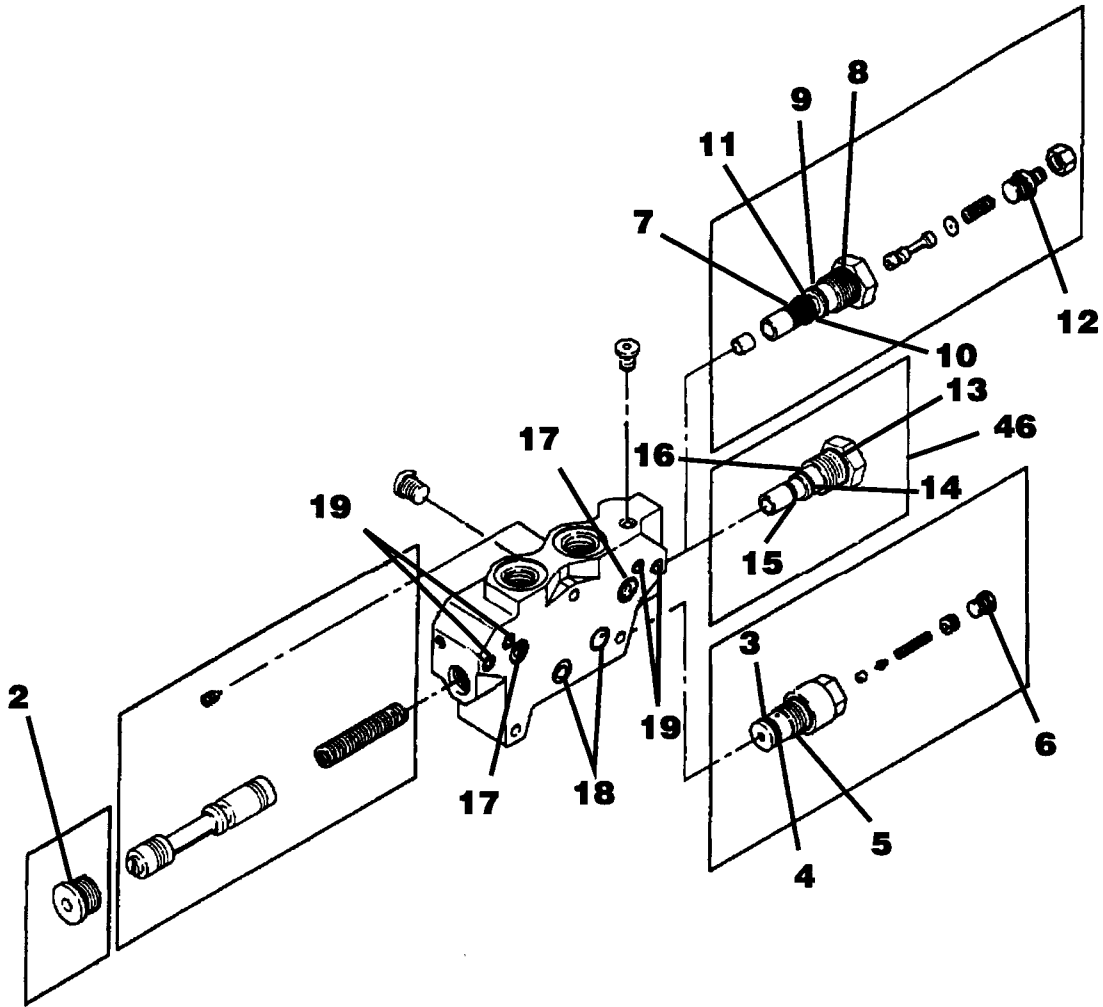
P-2493.DWG

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	500-01626	.VALVE ASSY - OUTRIGGER CONTROL (SEE 1.8.1.4.1)	1
2	513-90035	.CONNECTOR - #16 OFS x #12 ORB	2
3	513-60012	.CONNECTOR - #10 OFS x #8 ORB	8
4	513-50023	.CONNECTOR - #8 OFS x #8 ORB	8
5	513-40017	.CONNECTOR - #6 OFS x #4 ORB	1
*6	654-00163	.IDENTIFICATION TAPE - BRADY	.5FT
	P-2493.D		
	*NOT SHOWN		

500-01642

1.8.1.4

**OUTRIGGER CONTROL VALVE**

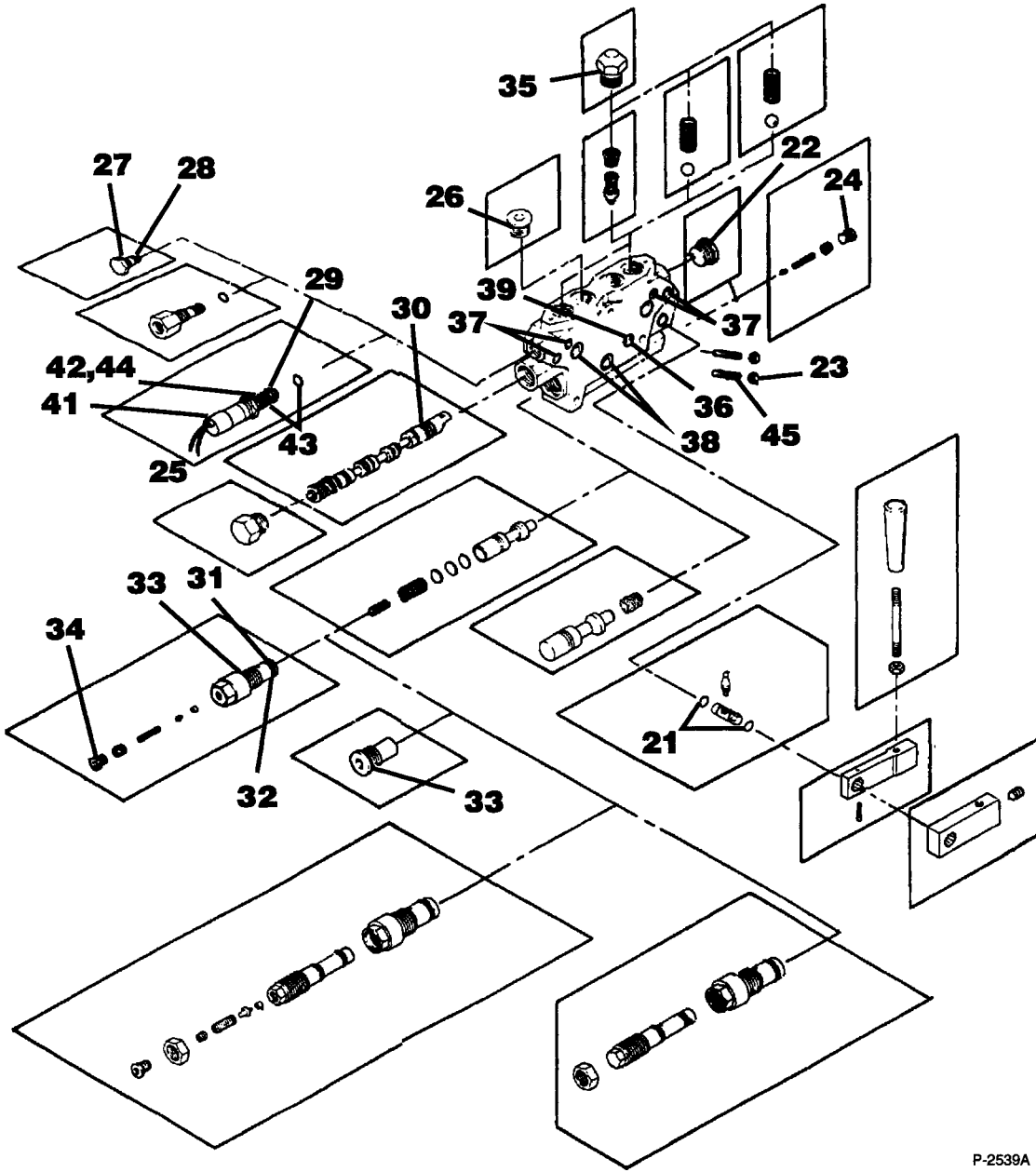


P-2539

**LOAD SENSING INLET**

**500-01626**

1.8.1.4.1



P-2539A

WORK SEGMENT

500-01626

1.8.1.4.1

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	269-00142	.SEAL KIT - INLET	1
2		..O-RING	1
3		..O-RING	1
4		..BACK-UP RING	2
5		..O-RING	1
6		..O-RING	1
7		..FILTER	1
8		..O-RING	1
9		..O-RING	1
10		..O-RING	1
11		..BACK-UP RING	1
12		..O-RING	1
13		..O-RING	1
14		..O-RING	1
15		..O-RING	1
16		..BACK-UP RING	1
17		..O-RING	3
18		..O-RING	1
19		..O-RING	4
20	269-00143	.SEAL KIT - WORK SEGMENT	1
21		..O-RING	2
22		..O-RING	1
23	941-00003	..NUT - SEAL	2
24		..O-RING	1
25		..O-RING	1
26		..O-RING	1
27		..O-RING	2
28		..O-RING	2
29		..BACK-UP RING	2
30		..O-RING	1
31		..O-RING	1
32		..BACK-UP RING	2
33		..O-RING	1
34		..O-RING	1
35		..O-RING	2
36		..BALL	1
37		..O-RING	4
38		..O-RING	3
39		..O-RING	1
40	269-00144	.KIT - SOLENOID	1
41	941-00007	..PULSAR	1
42		..O-RING	1
43		..BACK-UP RING	1
44		..FILTER	1
45	941-00002	..STEM - FLOW ADJUSTER	2
46	941-00008	..REGULATOR - PILOT PRESSURE ASSEMBLY	1

P-2539

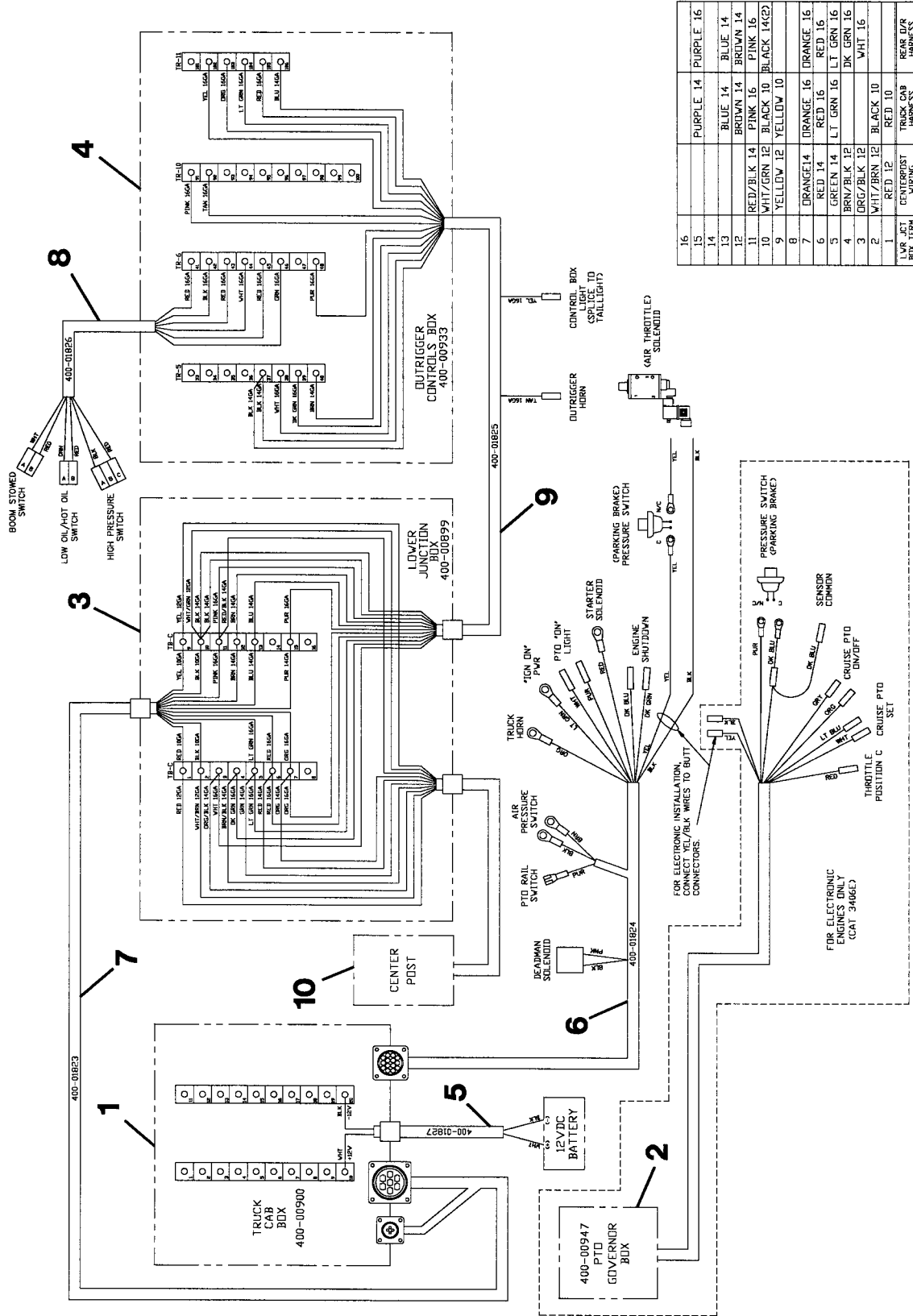
500-01626

OUTRIGGER CONTROL VALVE

1.8.1.4.1

**WIRING DIAGRAM - LOWER ELECTRICAL**

1.9



400-00951

P-2530.DWG

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	400-00900	.ELECTRICAL BOX S/A - TRUCK CAB (SEE 1.9.1)	REF
*2	400-00947	.ELECTRICAL BOX S/A - PTO GOVERNOR (SEE 1.9.2)	REF
3	400-00899	.ELECTRICAL BOX S/A - LOWER JUNCTION (SEE 1.9.3)	REF
4	400-00933	.ELECTRICAL BOX S/A - OUTRIGGER (SEE 1.8.1.3)	REF
5	400-01827	.CABLE ASSEMBLY - CAB/BATTERY	REF
6	400-01824	.ELECTRICAL HARNESS - CAB/TRUCK	REF
7	400-01823	.ELECTRICAL HARNESS - CAB/JUNCTION	REF
8	400-01826	.ELECTRICAL HARNESS - BOOM/PRESS/TEMP	REF
9	400-01825	.ELECTRICAL HARNESS - JUNCTION/REAR	REF
10	560-00067	.CENTERPOST ASSEMBLY (SEE 2.0.2)	REF
11	400-16054	.COMPUTER - OUTRIGGER CONTROL	REF
12	400-16062	.SENSOR - OUTRIGGER ANGLE C.S.R.	REF
13	400-16061	.SENSOR - OUTRIGGER ANGLE S.S.R.	REF
14	400-16060	.SENSOR - OUTRIGGER ANGLE C.S.F.	REF
15	400-16059	.SENSOR - OUTRIGGER ANGLE S.S.F.	REF
16	400-01924	.CABLE - OUTRIGGER CONTROL VALVE	REF

P-2530

\* ONLY FOR TRUCKS WITH CAT ENGINES AND ELECTRONIC GOVERNORS.

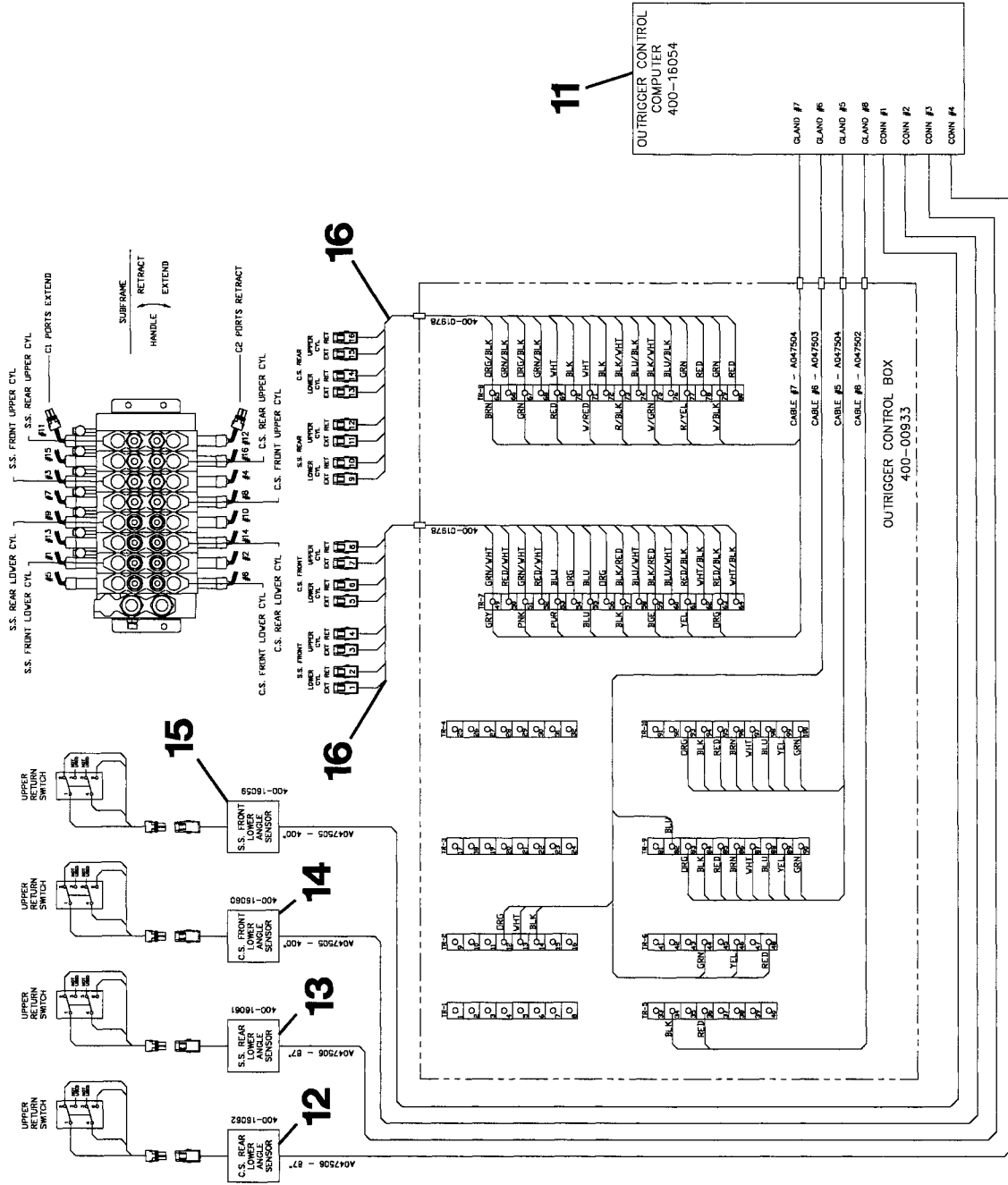
WIRING DIAGRAM - LOWER ELECTRICAL

400-00951



**WIRING DIAGRAM - LOWER ELECTRICAL**

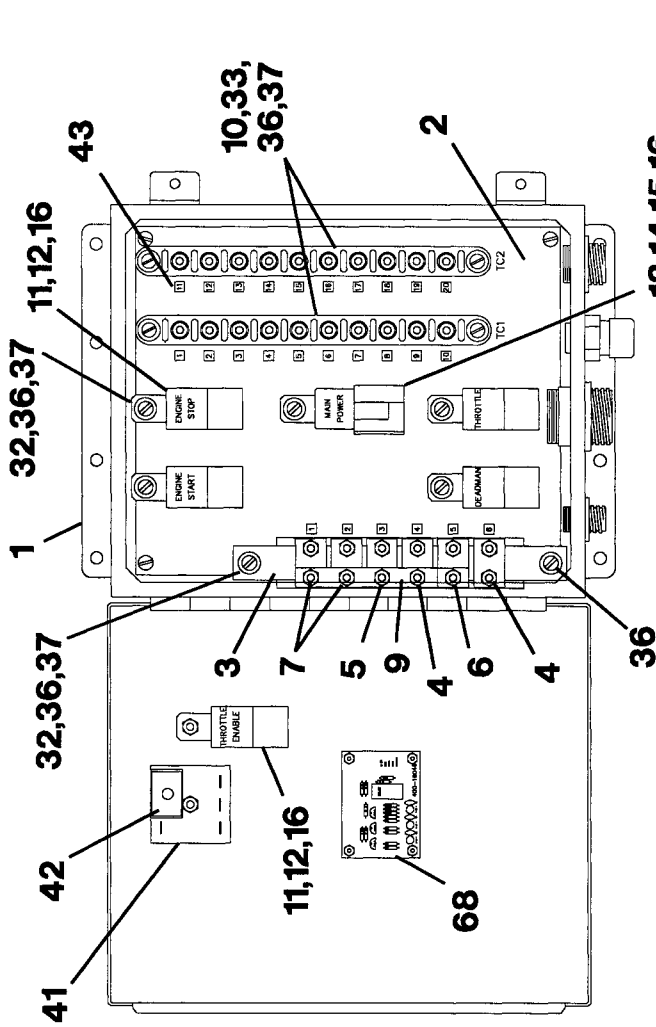
1.9



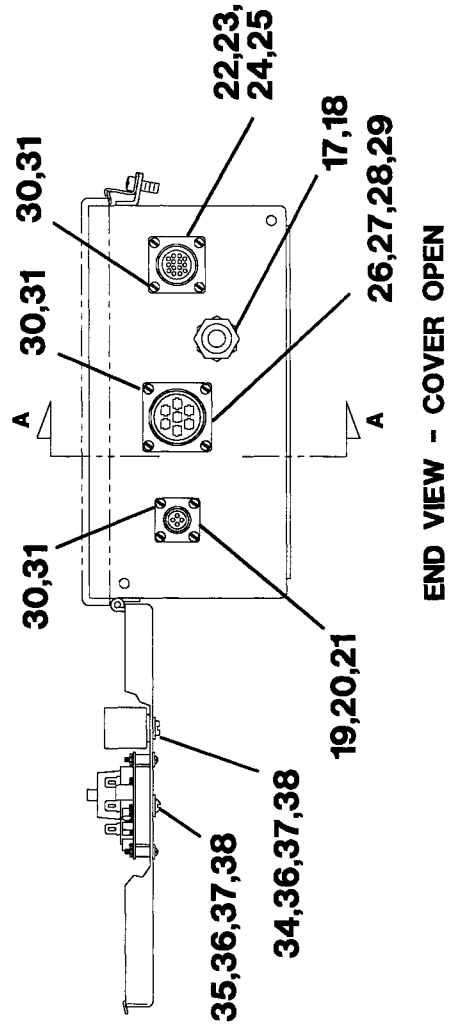
400-00951

**ELECTRICAL BOX S/A TRUCK CAB**

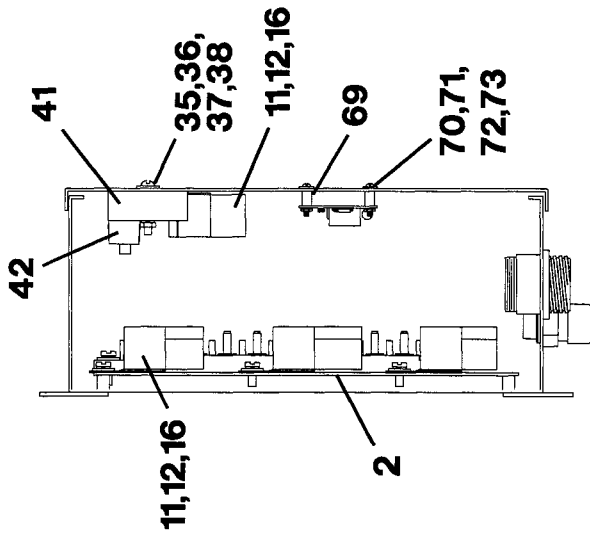
1.9.1



**TOP VIEW - COVER OPEN**



**END VIEW - COVER OPEN**



**SECTION A-A - COVER CLOSED**

400-00900

ITEM NO. NUMBER	WIRE GAUGE	WIRE COLOR	SIMON-RO PART NUMBER
48		RED	3-400-01376
49		BLACK	3-400-01378
50		DK BLUE	3-400-01389
51		LT BLUE	3-400-01589
52		DK GREEN	3-400-01375
53		LT GREEN	3-400-01390
54		PINK	3-400-01513
55		BROWN	3-400-01374
56		YELLOW	3-400-01377
57		ORANGE	3-400-01380
58		PURPLE	3-400-01404
59		WHITE	3-400-01379
60		GREY	3-400-01512
61		DK BLUE	3-400-01361
62	14	BROWN	3-400-01566
63		PURPLE	3-400-01572
64		BLACK	3-400-01402
65	10	RED	3-400-01401
66		YELLOW	3-400-01809
67	8	RED	3-400-01391

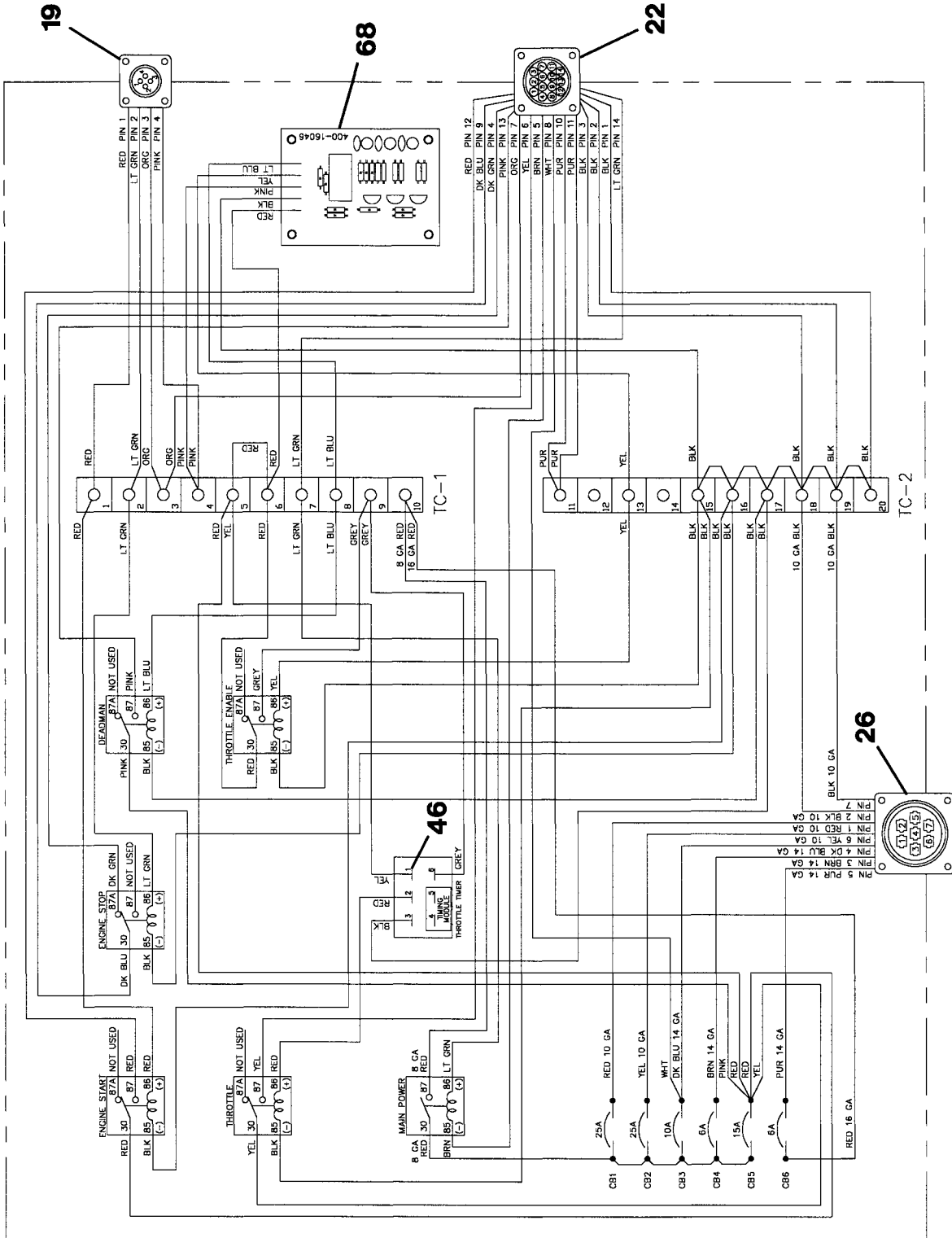
P-2491.DWG

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	400-05347	.BOX - ELECTRICAL MOD.-TRUCK CAB	1
*2	400-05364	.PANEL - ELECTRICAL MOD.-TRUCK CAB	1
3	400-10057	.BRACKET - MOUNTING-CIRCUIT BREAKER	1
4	400-10051	.BREAKER - CIRCUIT - 6 A	1
5	400-10048	.BREAKER - CIRCUIT - 10 A	2
6	400-10049	.BREAKER - CIRCUIT - 15 A	1
7	400-10050	.BREAKER - CIRCUIT - 25 A	2
8	NOT USED		
9	400-01288	.BAR - BUS	1
10	400-03043	.STRIP - TERMINAL #10 STUD	2
11	400-05197	.RELAY - 40A	5
12	400-02332	.CONNECTOR - RELAY	5
13	400-05198	.CONNECTOR - 70A	1
14	400-02333	.CONNECTOR - RELAY	1
15	400-02334	.TERMINAL - RELAY 10-12 GA.	2
16	400-02335	.TERMINAL - RELAY 14-18 GA.	22
17	400-15125	.RELIEF - STRAIN 3/4 .750/.885	1
18	400-15103	.NUT - STRAIN RELIEF 3/4	1
19	400-23136	.CONNECTOR - PLASTIC SHELL 11-4 RCPT	1
20	400-23124	.PIN - CONTACT 16-18 GA.	4
21	400-23106	.SEAL - PERIPHEAL -11	1
22	400-23054	.CONNECTOR - PLASTIC SHELL 17-14 RCPT	1
23	400-23125	.SOCKET - CONTACT 16-18 GA.	14
24	400-23056	.SEAL - PERIPHERAL -17	1
25	400-23139	.PLUG - KEYING SERIES 1	2
26	400-23245	.CONNECTOR - PLASTIC SHELL 23-7 RCPT	1
27	400-23154	.CONTACT - MALE 16 GA.	3
28	400-23156	.CONTACT - MALE 8-10 GA.	4
29	400-23111	.SEAL - PERIPHERAL -23	1
30	223-14125	.SCREW - PAN HEAD MACHINE #5 x 1/2" LONG	12
31	222-10003	.WASHER - LOCK #5	12
32	223-14108	.SCREW - PAN HEAD MACHINE #5 x 1/2" LONG	6
33	223-14117	.SCREW - PAN HEAD MACHINE #5 x 3/4" LONG	4
34	223-03113	.SCREW - PAN HEAD MACHINE #24 x 3/4" LONG	1
35	223-01126	.SCREW - MACHINE #5 x 1/2" LONG	1
36	222-00007	.WASHER - FLAT #10	13
37	222-10006	.WASHER - LOCK #10	12
38	221-00002	.NUT - HEX #10	2
*39	400-02221	.RING - TERMINAL #10 10-12 GA.	
*40	400-02243	.RING - TERMINAL #10 14-16 GA.	
41	400-18032	.RELAY - TIMER DELAY ON BREAK	1
42	400-18033	.MODULE - TIMING RESISTOR	1
43	654-00163	.TAPE - IDENTIFICATION	1
44	400-23046	.DIODE	1
*45	400-02295	.RING - TERMINAL #10 8 GA.	
46	400-02203	.TERMINAL - SPADE 1/4 14-16 GA.	4
*47	400-15086	.TIE - CABLE	
*48	400-01376	.WIRE - FLAME RETARDANT 16 GA.-RED	
*49	400-01378	.WIRE - FLAME RETARDANT 16 GA.-BLACK	

400-00900

ELECTRICAL BOX S/A TRUCK CAB

1.9.1



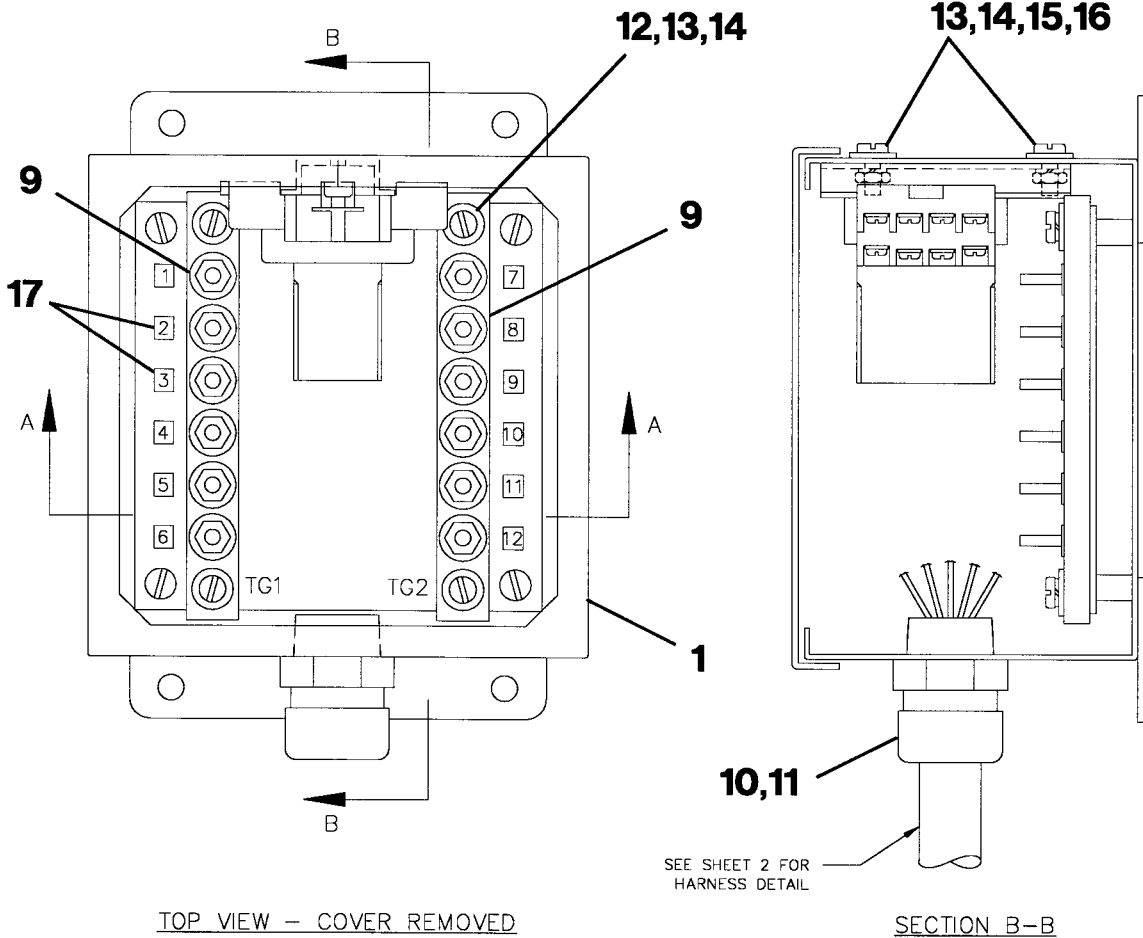
400-00900

ITEM	PART NUMBER	DESCRIPTION	QTY.
*50	400-01389	.WIRE - FLAME RETARDANT 16 GA.-DK BLUE	
*51	400-01599	.WIRE - FLAME RETARDANT 16 GA.-LT BLUE	
*52	400-01375	.WIRE - FLAME RETARDANT 16 GA.-DK GREEN	
*53	400-01390	.WIRE - FLAME RETARDANT 16 GA.-LT GREEN	
*54	400-01513	.WIRE - FLAME RETARDANT 16 GA.-PINK	
*55	400-01374	.WIRE - FLAME RETARDANT 16 GA.-BROWN	
*56	400-01377	.WIRE - FLAME RETARDANT 16 GA.-YELLOW	
*57	400-01380	.WIRE - FLAME RETARDANT 16 GA.-ORANGE	
*58	400-01404	.WIRE - FLAME RETARDANT 16 GA.-PURPLE	
*59	400-01379	.WIRE - FLAME RETARDANT 16 GA.-WHITE	
*60	400-01572	.WIRE - FLAME RETARDANT 16 GA.-GRAY	
*61	400-01361	.WIRE - FLAME RETARDANT 14 GA.-DK BLUE	
*62	400-01566	.WIRE - FLAME RETARDANT 14 GA.-BROWN	
*63	400-01572	.WIRE - FLAME RETARDANT 14 GA.-PURPLE	
*64	400-01402	.WIRE - FLAME RETARDANT 10 GA.-BLACK	
*65	400-01401	.WIRE - FLAME RETARDANT 10 GA.-RED	
*66	400-01809	.WIRE - FLAME RETARDANT 10 GA.-YELLOW	
*67	400-01391	.WIRE - FLAME RETARDANT 8 GA.-RED	
68	400-16046	.BOARD - DEADMAN CONTROLLER	1
69	400-09337	.STAND-OFF #4 NYLON	4
70	223-01113	.SCREW - ROUND HEAD MACHINE #4 x 3/4" LONG	4
71	222-00010	.WASHER - FLAT #4	4
72	222-10008	.WASHER - LOCK	4
73	221-00006	.NUT #4	4

P-2491.D

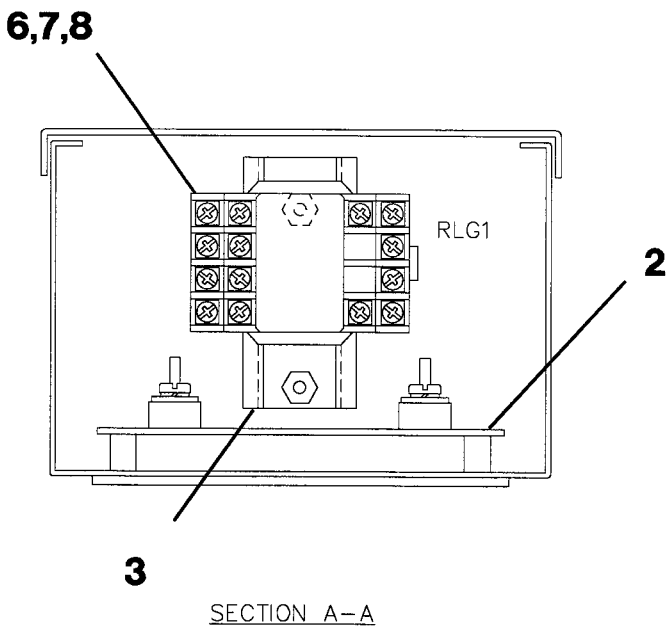
\*ITEMS NOT SHOWN

400-00900



TOP VIEW - COVER REMOVED

SECTION B-B

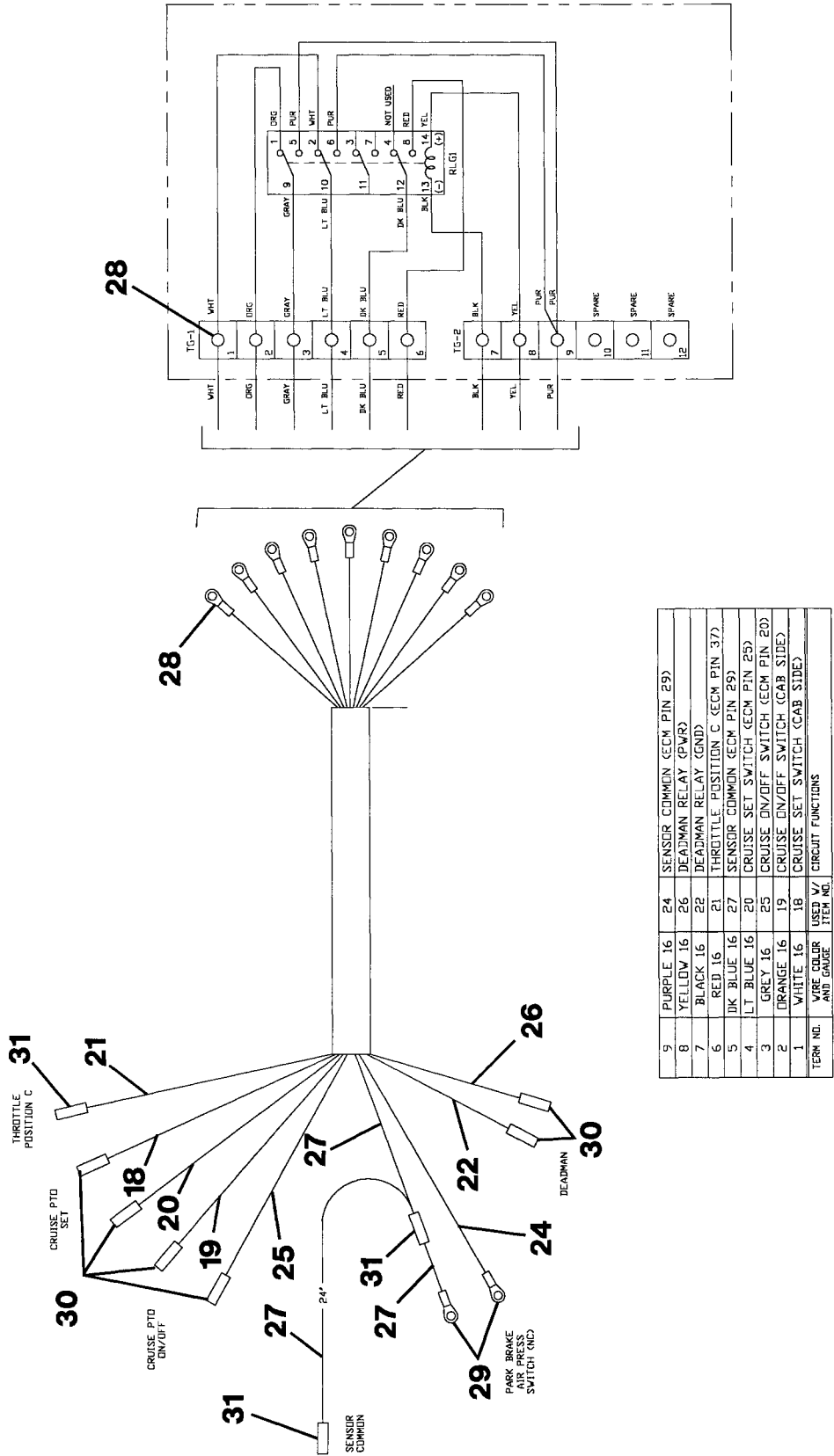


SECTION A-A

P-2512

400-00947

ELECTRICAL BOX - PTO GOVERNOR



400-00947

P-2512A

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	400-05377	.BOX - ELECTRICAL MODIFICATION	1
2	400-05378	.PANEL - ELECTRICAL	1
3	400-05380	.RAIL - RELAY MOUNTING	1
6	400-05360	.RELAY 4PDT 12VDC	1
7	400-05274	.RELAY - BASE 4PDT	1
8	400-05116	.CLIP - RELAY RETAINER	2
9	400-03017	.BLOCK - TERMINAL 6 POST	2
10	400-15119	.RELIEF - STRAIN 3/4 .250/.375	1
11	400-15103	.NUT - LOCK 3/4 CONDUIT	1
12	223-14106	.SCREW - PHM #10 x 3/4" LONG	4
13	222-00007	.WASHER - FLAT #10	6
14	222-10006	.WASHER - LOCK #10	6
15	223-03103	.SCREW - PHM #10 x 1/2" LONG	2
16	221-00002	.NUT #10	2
17	654-00163	.TAPE - IDENTIFICATION	1
18	400-01379	.WIRE - FLAME RETARDANT 16 GA. WHITE	
19	400-01380	.WIRE - FLAME RETARDANT 16 GA. ORANGE	
20	400-01599	.WIRE - FLAME RETARDANT 16 GA. LT. BLUE	
21	400-01376	.WIRE - FLAME RETARDANT 16 GA. RED	
22	400-01378	.WIRE - FLAME RETARDANT 16 GA. BLACK	
24	400-01404	.WIRE - FLAME RETARDANT 16 GA. PURPLE	
25	400-01512	.WIRE - FLAME RETARDANT 16 GA. GREY	
26	400-01377	.WIRE - FLAME RETARDANT 16 GA. YELLOW	
27	400-01389	.WIRE - FLAME RETARDANT 16 GA. DK. BLUE	
28	400-02243	.TERMINAL - RING #10 16-14 GA.	19
29	400-02323	.TERMINAL - RING #8 16-14 GA.	2
30	400-02202	.CONNECTOR - HEAT SHRINK BUTT 16 GA.	6
31	400-02344	.CONNECTOR - HEAT SHRINK BUTT 12 GA.	3
32	400-02360	.SPLICE - QUICK 18-16-14 GA.	1

P-2512.D

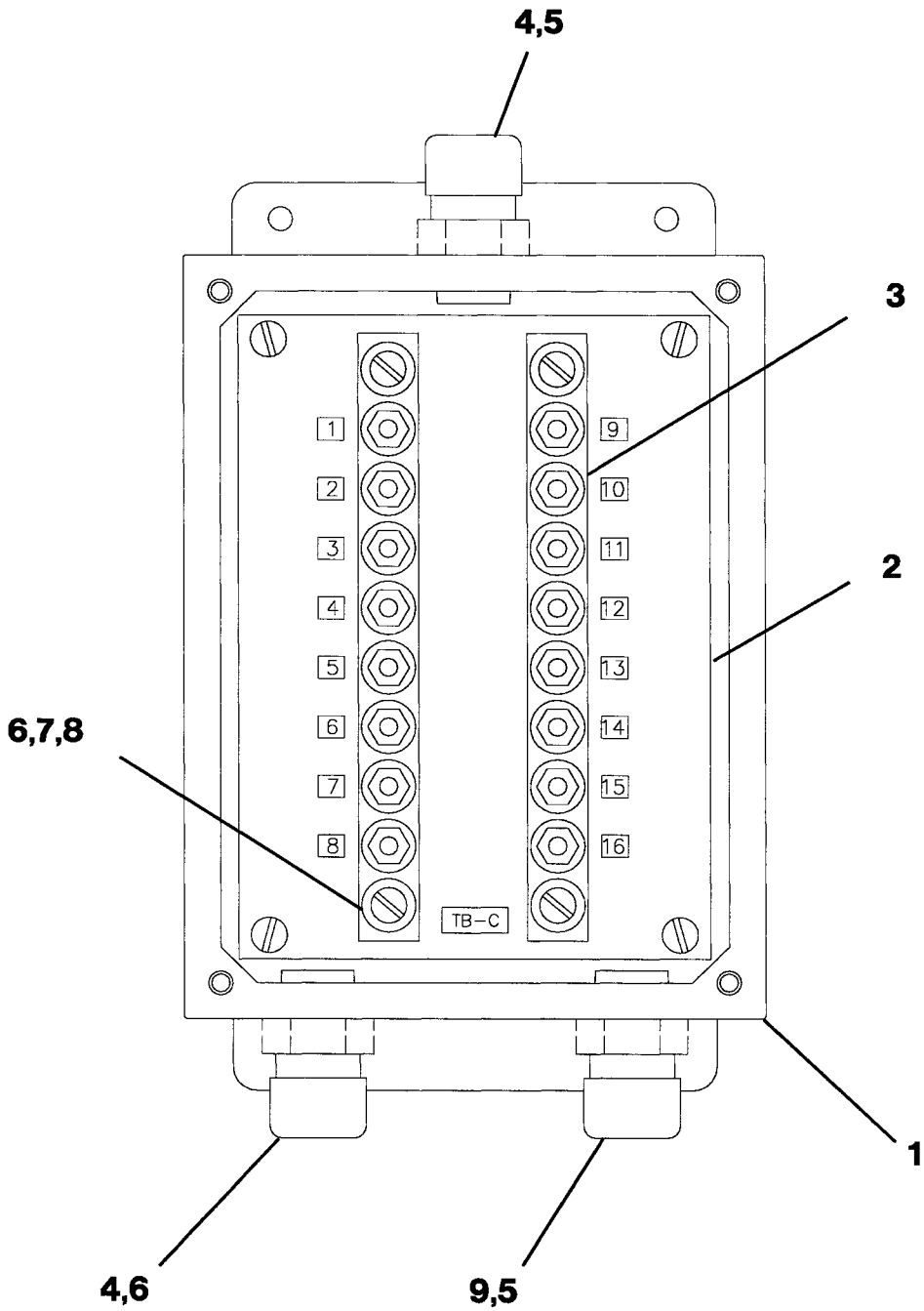
**ELECTRICAL BOX - PTO GOVERNOR**

**400-00947**

1.9.2



**ELECTRICAL BOX S/A LOWER JUNCTION**



P-2578

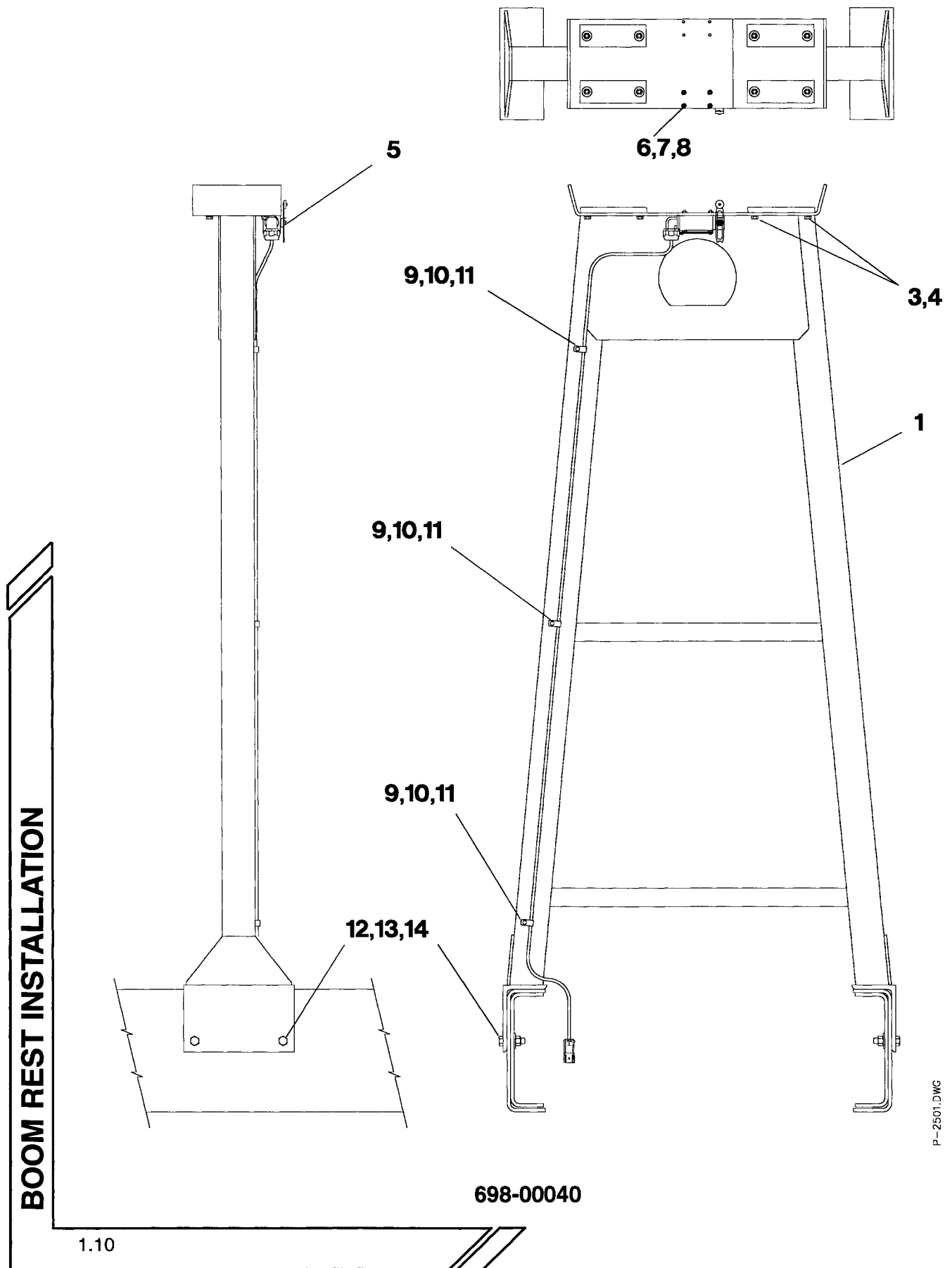
400-00899

1.9.3

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	400-05361	.BOX - ELECTRICAL MOD	1
2	400-05231	.PANEL - ELECTRIC BOX	1
3	400-03013	.BLOCK - TERMINAL	2
4	400-15048	.CONNECTOR - 3/4 STRAIN RELIEF	2
5	400-15103	.NUT - LOCK 3/4 CONDUIT	3
6	222-00007	.WASHER - FLAT #10	4
7	222-10006	.WASHER - LOCK #10	4
8	400-15083	.CONNECTOR - 3/4 STRAIN RELIEF	1
	P-2578		

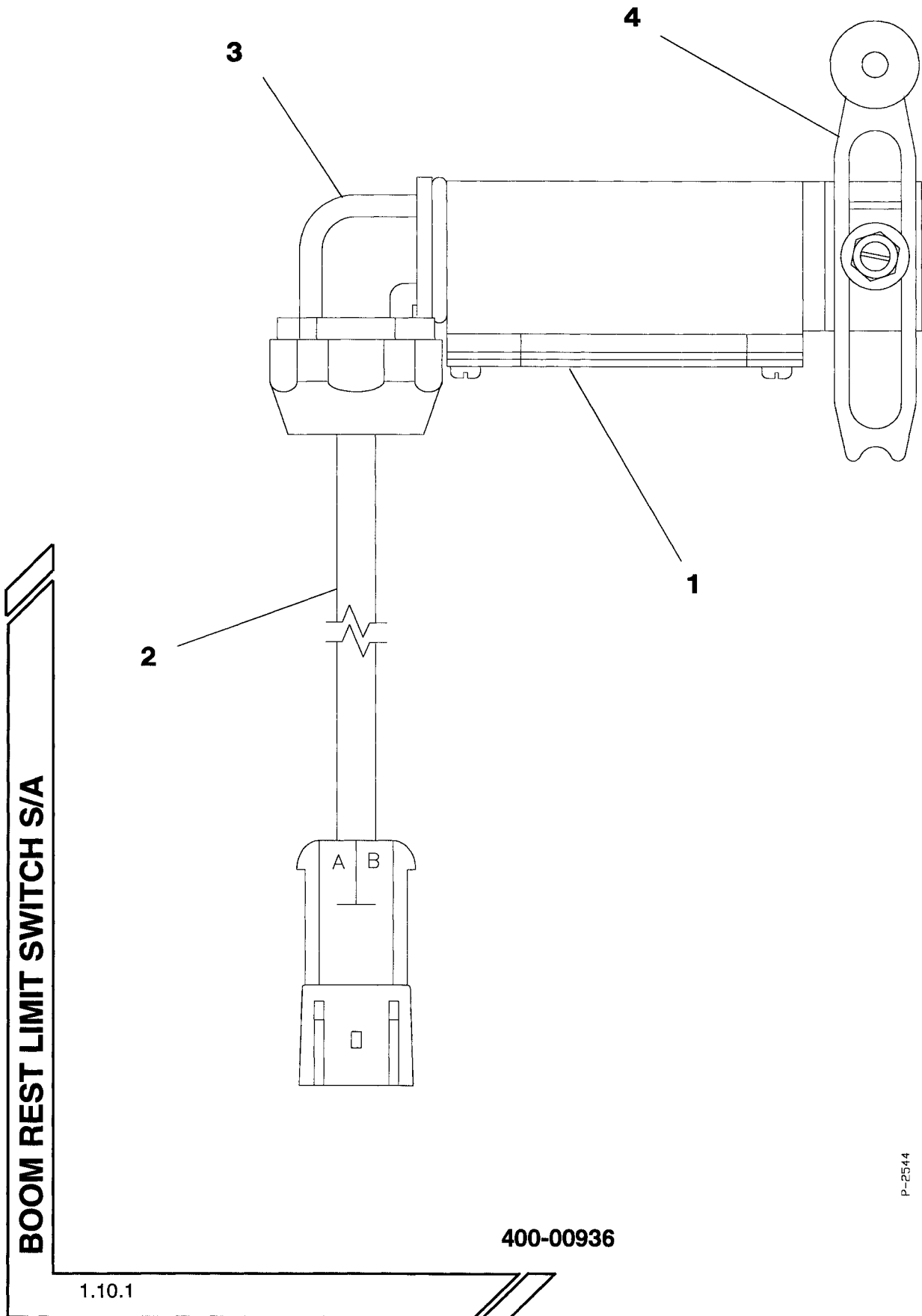
ELECTRICAL BOX S/A LOWER JUNCTION

400-00899



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	709-01513	.REST - BOOM WELDMENT	1
2	729-02175	.PAD - WEAR W/POLYSERT	4
3	222-11002	.WASHER - LOCK 5/16	8
4	220-01013	.BOLT 5/16 x 5/8" LONG	8
5	400-00936	.SWITCH - BOOM REST SUBASSEMBLY (SEE 1.10.1)	1
6	223-04008	.SCREW - HEX HEAD MACHINE #10 x 1 1/2" LONG	4
7	222-00007	.WASHER - FLAT #10	8
8	221-90005	.NUT - HEX TOPLOCK #10	4
9	201-00086	.CLAMP - VINYL COVERED 1/4	3
10	222-00006	.WASHER - FLAT 1/4	3
11	223-15219	.SCREW 1/4 x 1/2" LONG	3
12	220-04048	.SCREW - HEX HEAD CAP 1/2 x 2" LONG	4
13	222-04009	.WASHER - FLAT 1/2	8
14	221-94002	.NUT - HEX TOPLOCK 1/2	4
	P-2501.D		

698-00040



**BOOM REST LIMIT SWITCH S/A**

1.10.1

400-00936

P-2544

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	400-05119	.SWITCH - ROTARY LIMIT	1
2	400-01948	.CABLE ASSEMBLY	1
3	400-15041	.RELIEF - STRAIN 90°	1
4	400-05447	.ARM - ACTUATOR ROLLER	1
	P-2544		

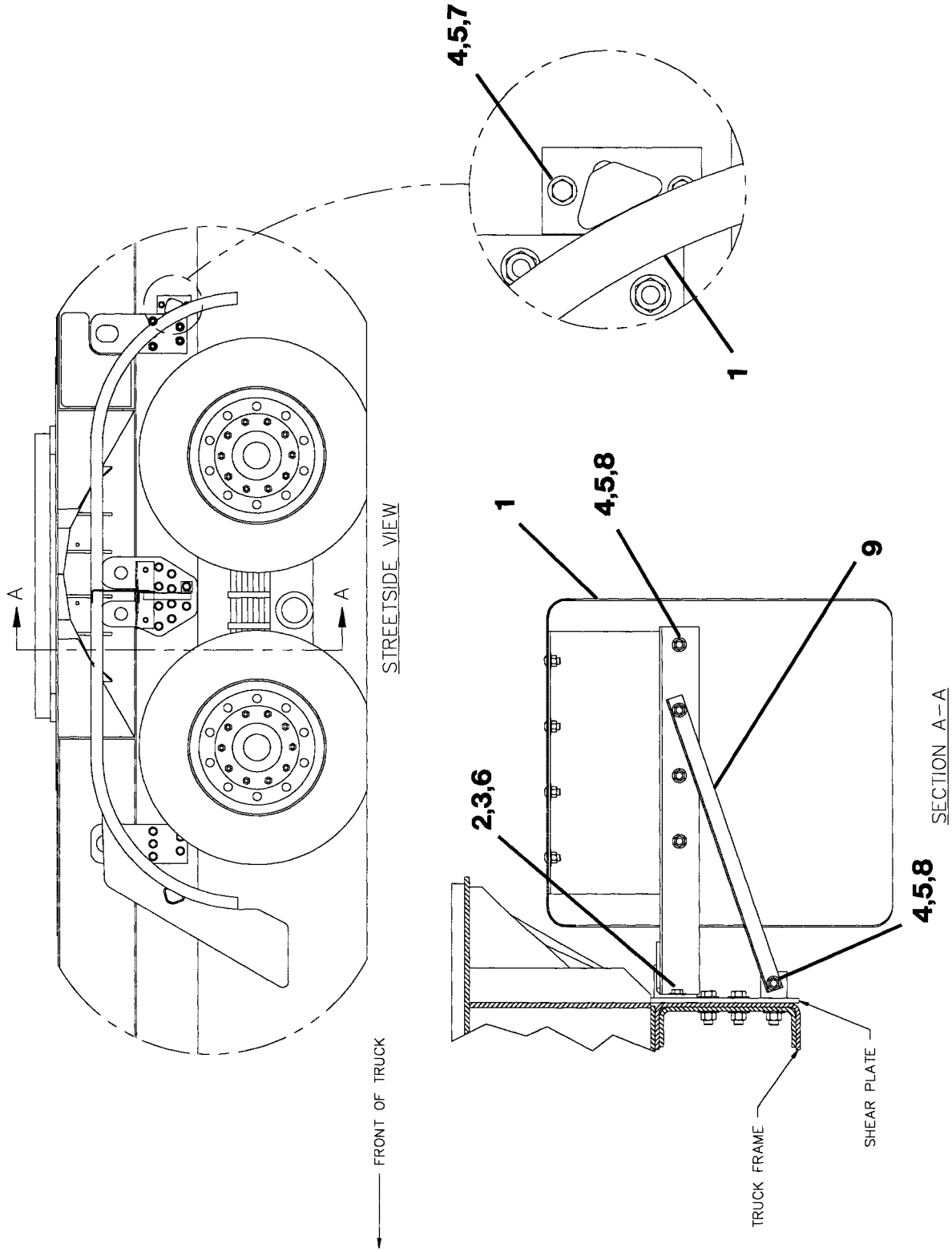
BOOM REST LIMIT SWITCH S/A

400-00936

1.10.1

**FENDER INSTALLATION - 52"**

1.11



600-32001

P-2579

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	600-22065	.FENDER - TANDEM WELDMENT - 52"	1
2	222-14003	.WASHER - LOCK 1/2	4
3	222-04001	.WASHER - FLAT 1/2	4
4	222-02005	.WASHER - FLAT 3/8	36
5	221-92001	.NUT - TOPLOCK 3/8	18
6	220-04003	.BOLT 1/2 x 3/4" LONG	4
7	220-02007	.BOLT 3/8 x 1 3/4" LONG	8
8	220-02004	.BOLT 3/8 x 1" LONG	10
9	020-10085	.ANGLE - FENDER MOUNTING	2

P-2579

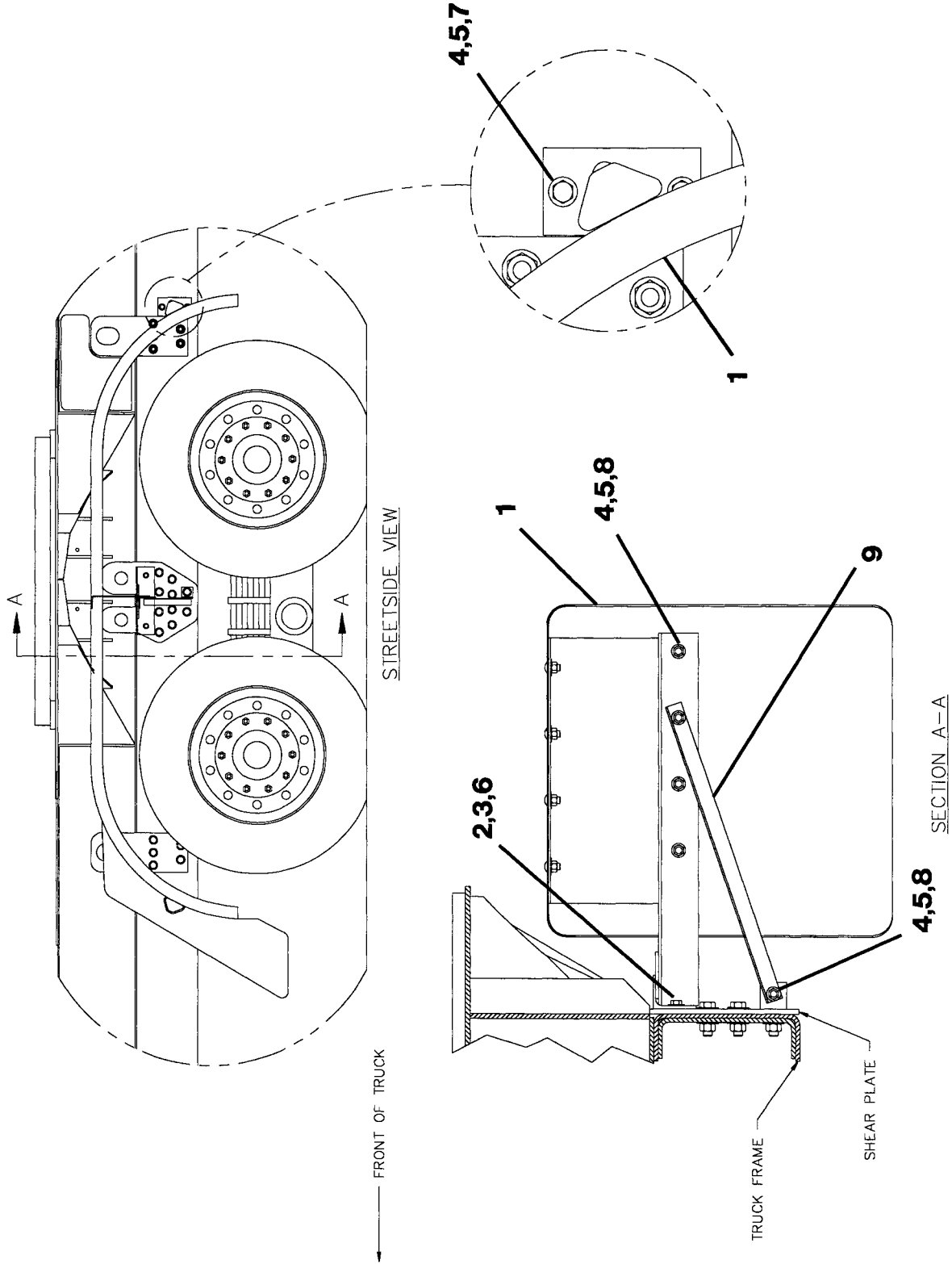
FENDER INSTALLATION - 52"

600-32001



**FENDER INSTALLATION - 60"**

1.11



600-32002

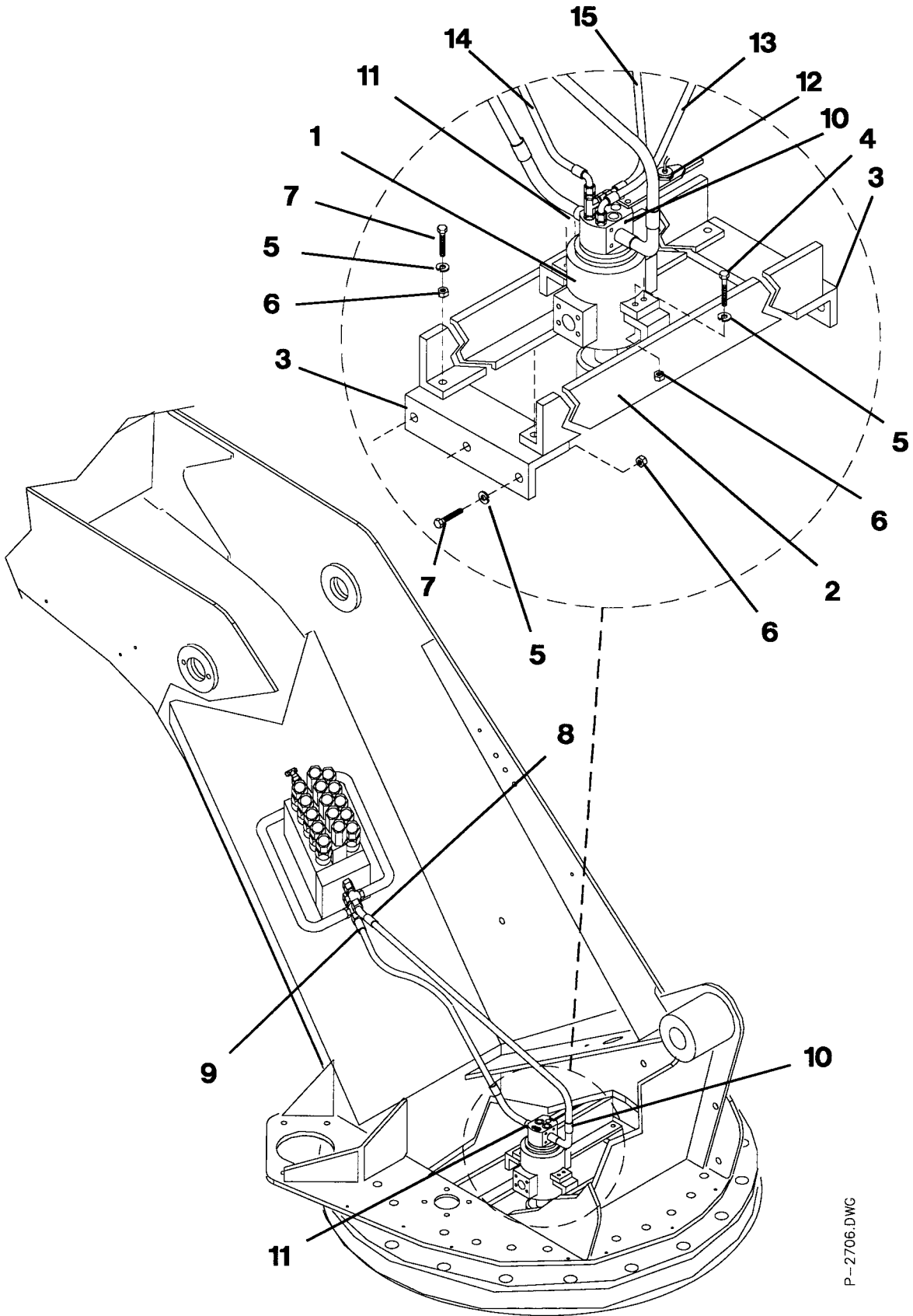
P-2579

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	600-22077	.FENDER - TANDEM WELDMENT - 60"	1
2	222-14003	.WASHER - LOCK 1/2	4
3	222-04001	.WASHER - FLAT 1/2	4
4	222-02005	.WASHER - FLAT 3/8	36
5	221-92001	.NUT - TOPLOCK 3/8	18
6	220-04003	.BOLT 1/2 x 3/4" LONG	4
7	220-02007	.BOLT 3/8 x 1 3/4" LONG	8
8	220-02004	.BOLT 3/8 x 1" LONG	10
9	020-10085	.ANGLE - FENDER MOUNTING	2
	P-2580		

FENDER INSTALLATION - 60"

600-32002

CENTERPOST INSTALLATION



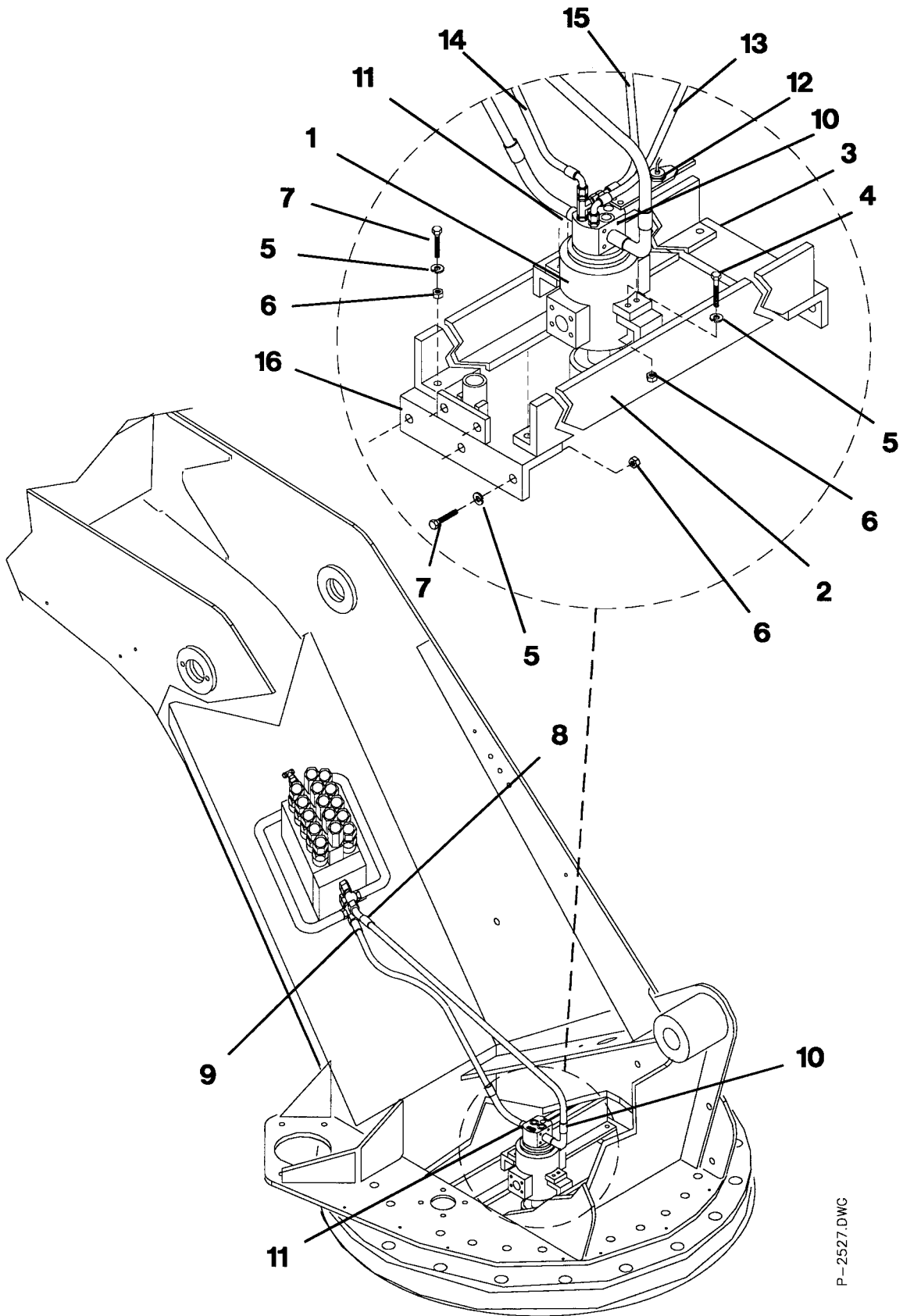
500-01643

2.0

P-2706.DWG

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	500-01644	.CENTERPOST SUBASSEMBLY (SEE 2.0.1)	1
2	770-02046	.BRACKET - CENTERPOST SUPPORT	2
3	785-01823	.ANGLE - CENTERPOST BRACKET SUPPORT	2
4	220-04005	.BOLT 1/2 x 1 1/2" LONG	4
5	222-14003	.WASHER - LOCK 1/2	12
6	221-04001	.NUT - HEX 1/2	12
7	220-04002	.BOLT 1/2 x 1 1/4" LONG	8
8	502-60117	.HOSE - SUPPLY ASSEMBLY	1
9	502-60118	.HOSE - RETURN ASSEMBLY	1
10	505-03001	.KIT - FLANGE 1 1/4	1
11	505-03003	.KIT - FLANGE 1 1/2	1
12	400-05373	.PROXIMITY SENSOR	REF
13	502-20866	.HOSE ASSY - LOAD SENSE (M VALVE/CENTERPOST)	1
14	502-30639	.HOSE ASSY - DRAIN (CENTERPOST/SWING)	1
15	502-11174	.HOSE ASSY - DRAIN (MAIN VALVE/CENTERPOST)	1
	P-2706.D		

500-01643



**CENTERPOST INSTALL w/HOUSELOCK**

500-01662

2.0

P-2527.DWG

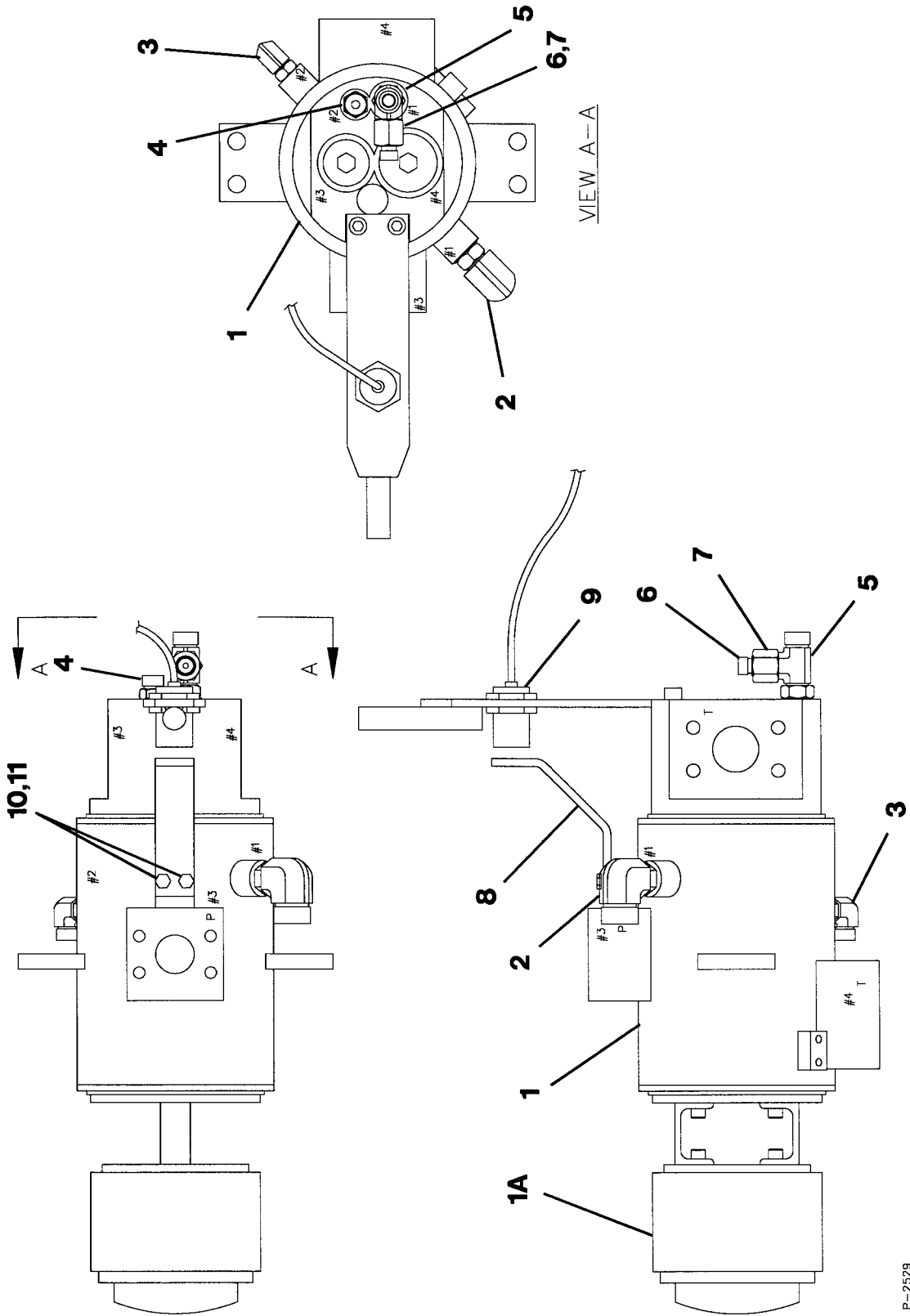
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	500-01644	.CENTERPOST SUBASSEMBLY (SEE 2.0.1)	1
2	770-02046	.BRACKET - CENTERPOST SUPPORT	2
3	785-01823	.ANGLE - CENTERPOST BRACKET SUPPORT	1
4	220-04005	.BOLT 1/2 x 1 1/2" LONG	6
5	222-04001	.WASHER -FLAT 1/2	15
6	221-94002	.NUT - HEX 1/2, TOPLOCK	15
7	220-04002	.BOLT 1/2 x 1 1/4" LONG	9
8	502-60117	.HOSE - SUPPLY ASSEMBLY	1
9	502-60118	.HOSE - RETURN ASSEMBLY	1
10	505-03001	.KIT - FLANGE 1 1/4	1
11	505-03003	.KIT - FLANGE 1 1/2	1
12	400-05373	.PROXIMITY SENSOR	REF
13	502-20866	.HOSE ASSY - LOAD SENSE (M VALVE/CENTERPOST)	1
14	502-30639	.HOSE ASSY - DRAIN (CENTERPOST/SWING)	1
15	502-11174	.HOSE ASSY - DRAIN (MAIN VALVE/CENTERPOST)	1
16	770-02151	.BRACKET - HOUSELOCK SUPPORT WELDMENT	1
	P-2527.D		

CENTERPOST INSTALL W/HOUSELOCK

500-01662

CENTERPOST SUBASSEMBLY

2.0.1



500-01644

P-2529

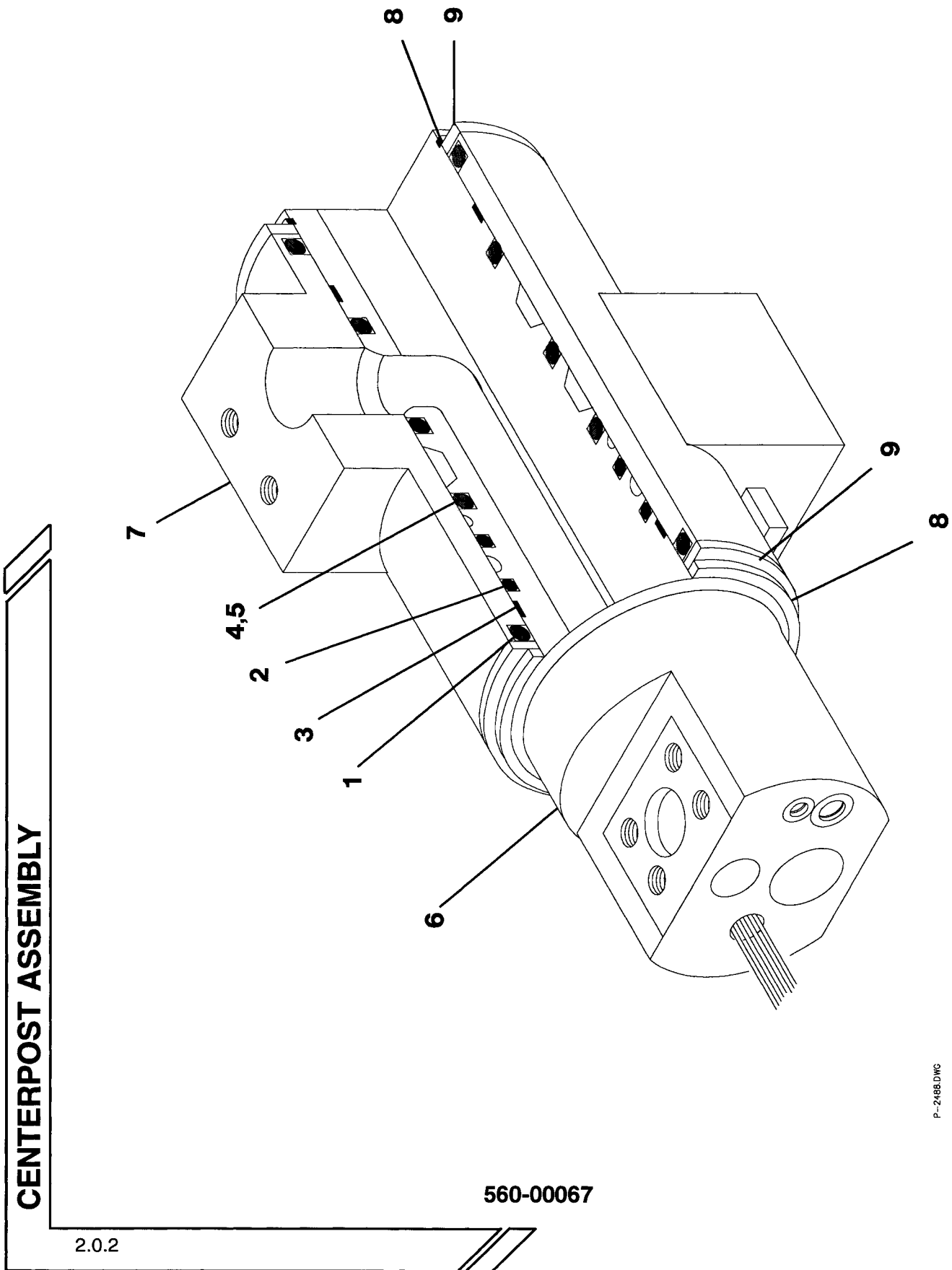
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	560-00067	.CENTERPOST ASSEMBLY (SEE 2.0.2)	1
1A	903-00027	..CONTACT - 10 CIRCUIT ROTARY ASSEMBLY	1
2	514-57013	.ELBOW - 90°	1
3	514-54004	.ELBOW - 90°	1
4	513-40014	.CONNECTOR - STRAIGHT	1
5	516-85005	.TEE - RUN	1
6	519-50012	.REDUCER	1
7	511-50004	.NUT - #8 OFS	1
8	785-01856	.ANGLE - PROXIMITY SENSOR TARGET	1
9	400-05373	.SWITCH - PROXIMITY SENSOR	1
10	220-00003	.BOLT - HHCS 1/4NC x 3/4" LONG	2
11	222-10005	.WASHER - LOCK 1/4	2
*12	400-15169	.HEAT SHRINK TUBING - 1"	10FT
	* NOT SHOWN		
	P-2529		

CENTERPOST SUBASSEMBLY

500-01644

2.0.1





P-2458.DWG

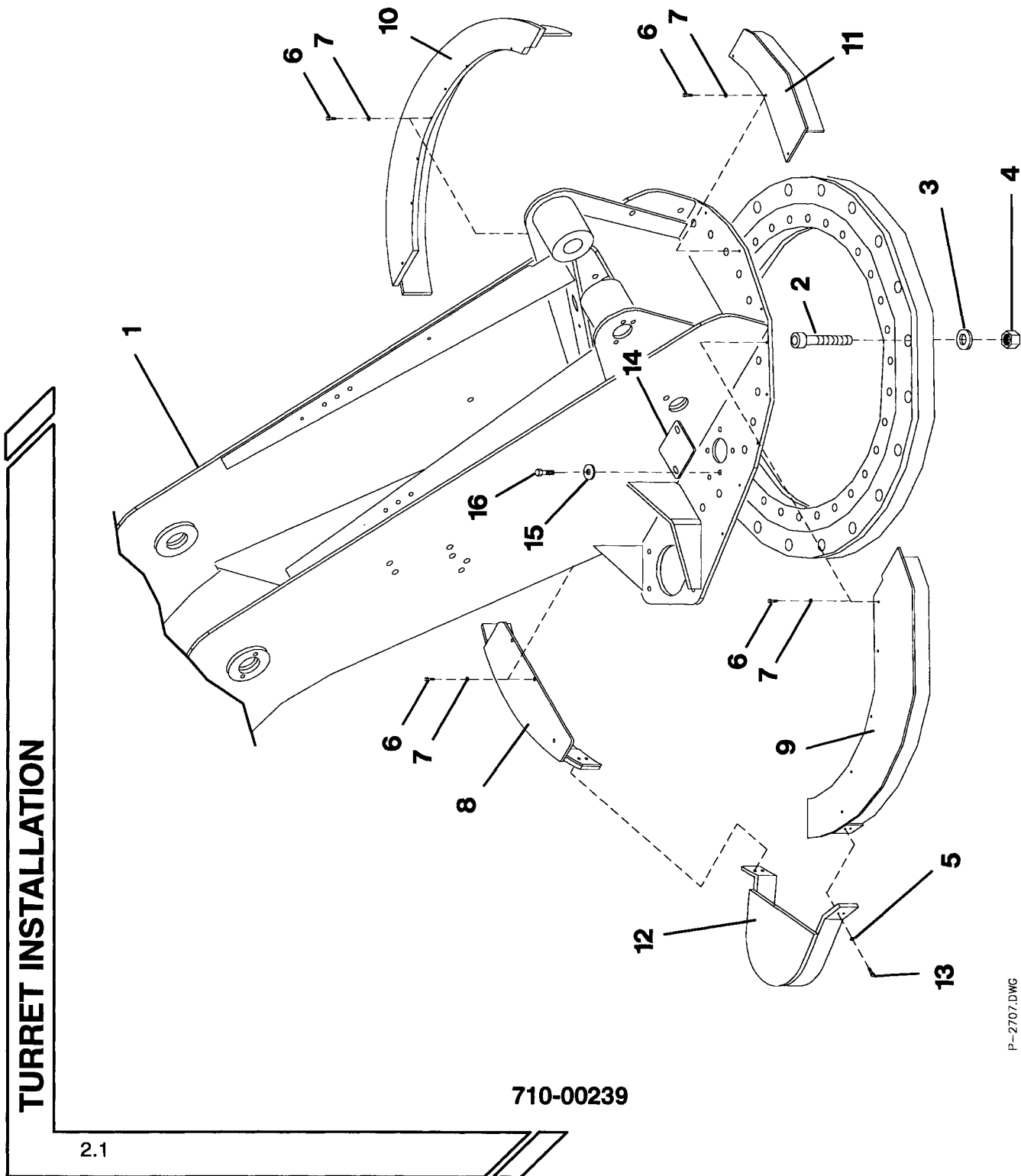
ITEM	PART NUMBER	DESCRIPTION	QTY.
*1	903-00018	.SEAL - ENVIRONMENTAL	2
*2	903-00019	.SEAL - ENVIRONMENTAL	2
*3	903-00020	.BEARING	2
*4	903-00021	.SEAL - CAP	3
*5	903-00022	.O-RING	3
6	903-00023	.BODY	1
7	903-00024	.HOUSING ASSEMBLY	1
8	903-00025	.RETAINING RING	2
9	903-00026	.RING	2

P-2488.D

\*ITEMS INCLUDED IN SEAL KIT #268-95015

560-00067

2.0.2



P-2707.DWG

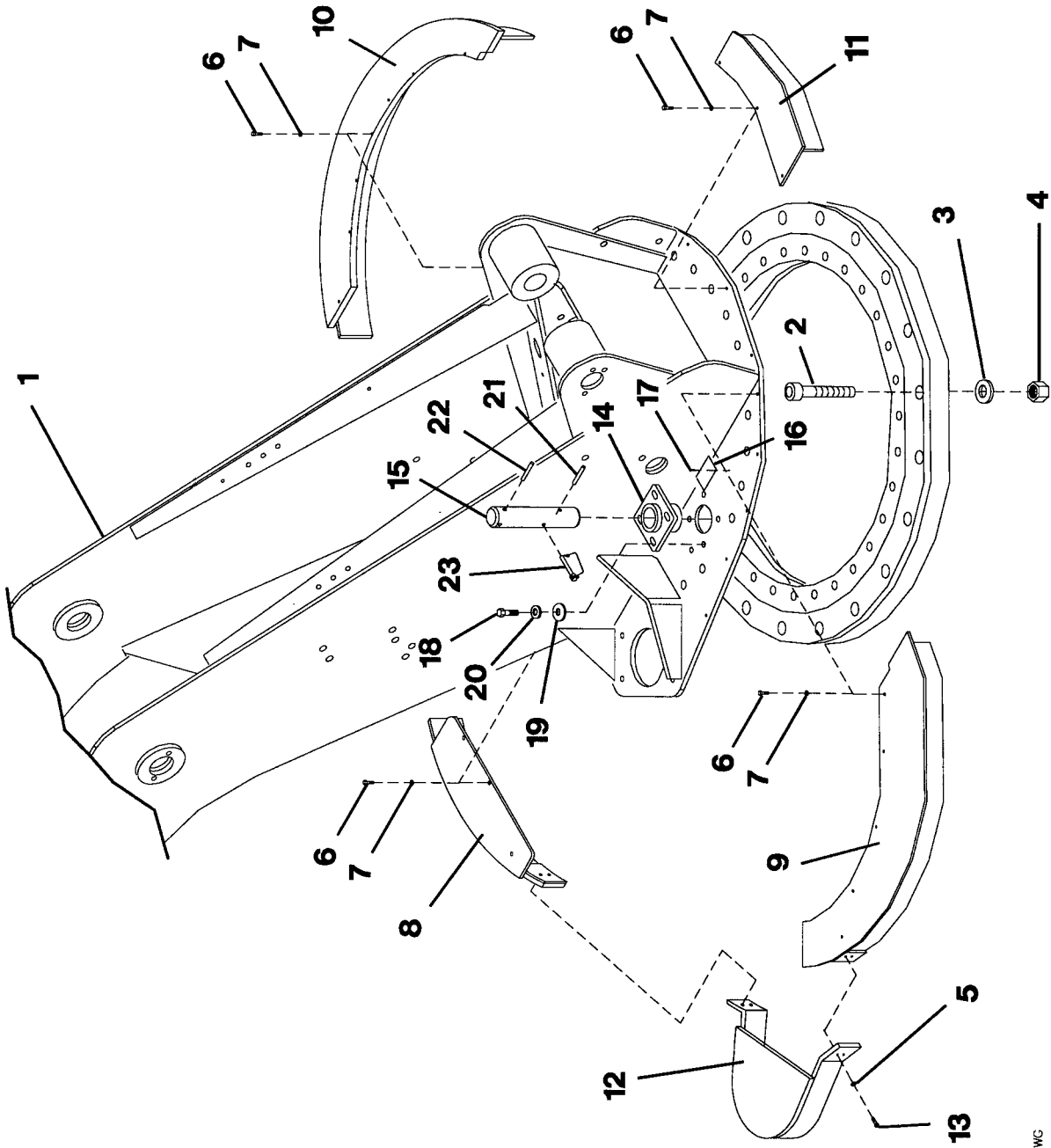
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	711-00020	.TURRET ASSEMBLY	1
2	220-39005	.SCREW - SOCKET HEAD CAP 1 x 5 1/2" LONG	20
3	222-09004	.WASHER - FLAT 1	20
4	221-99002	.NUT - HEX TOPLOCK 1	20
5	222-12001	.LOCKWASHER - 3/8 MED	4
6	223-15217	.SCREW - HEX HEAD MACHINE 5/16 x 1/2" LONG	18
7	222-11002	.WASHER - LOCK 5/16 MEDIUM	18
8	719-00406	.SHROUD - ROTATION GEAR WELDMENT-BACK	1
9	719-00405	.SHROUD - ROTATION GEAR WELDMENT-RIGHT	1
10	719-00404	.SHROUD - ROTATION GEAR WELDMENT-LEFT	1
11	719-00403	.SHROUD - ROTATION GEAR WELDMENT-FRONT	1
12	802-01498	.COVER - PINION WELDMENT	1
13	220-02013	.BOLT 3/8 x 1/2" LONG	4
14	789-04715	.PLATE - HOUSELOCK COVER	1
15	222-04001	.FLATWASHER - 1/2 MED	2
16	220-04004	.BOLT 1/2 x 1" LONG	2

P-2707

710-00239

**TURRET INSTALLATION wHOUSELOCK**

2.1



710-00244

P-2523.DWG

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	711-00020	.TURRET ASSEMBLY	1
2	220-39005	.SCREW - SOCKET HEAD CAP 1 x 5 1/2" LONG	20
3	222-09004	.WASHER - FLAT 1	20
4	221-99002	.NUT - HEX TOPLOCK 1	20
5	222-12001	.LOCKWASHER - 3/8 MED	4
6	223-15217	.SCREW - HEX HEAD MACHINE 5/16 x 1/2" LONG	18
7	222-11002	.WASHER - LOCK 5/16 MEDIUM	18
8	719-00406	.SHROUD - ROTATION GEAR WELDMENT-BACK	1
9	719-00405	.SHROUD - ROTATION GEAR WELDMENT-RIGHT	1
10	719-00404	.SHROUD - ROTATION GEAR WELDMENT-LEFT	1
11	719-00403	.SHROUD - ROTATION GEAR WELDMENT-FRONT	1
12	802-01498	.COVER - PINION WELDMENT	1
13	220-02013	.BOLT 3/8 x 1/2" LONG	4
14	770-02158	.SUPPORT - HOUSELOCK PIN	1
15	870-40185	.PIN - HOUSELOCK	1
16	651-00316	.PLACARD - HOUSELOCK WARNING	1
17	226-40001	.RIVET - METAL TACK	4
18	220-04005	.SCREW - HEX HEAD CAP 1/2 x 1 1/2" LONG	4
19	222-04001	.WASHER - FLAT 1/2	4
20	222-14003	.WASHER - LOCK 1/2	4
21	224-16003	.ROLLPIN - 1/4 x 2 1/2" LONG	1
22	224-16002	.ROLLPIN - 1/4 x 2 1/2" LONG	1
23	870-00081	.PIN - SNAPPER	1

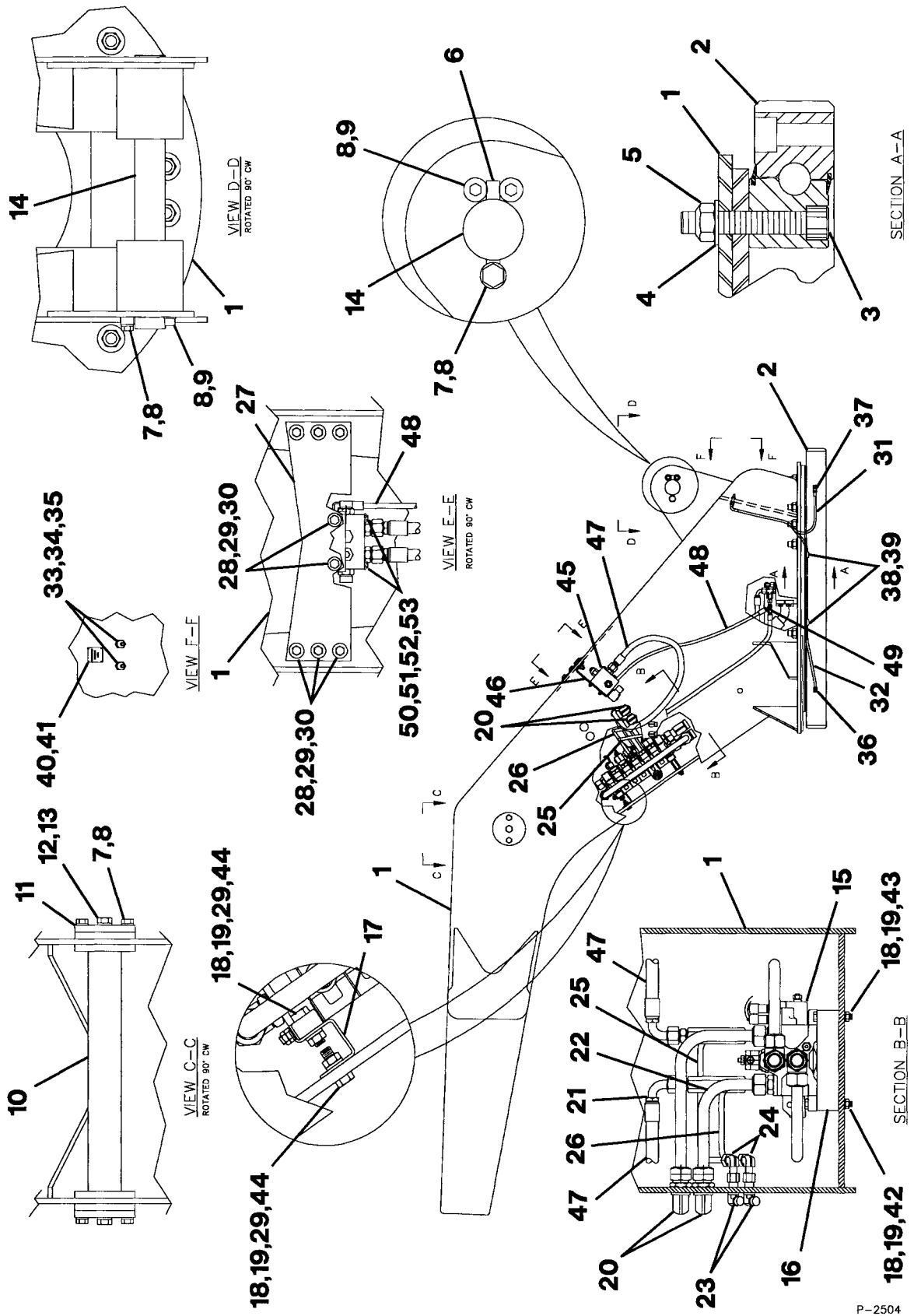
P-2523

TURRET INSTALLATION WHOUSELOCK

710-00244

TURRET ASSEMBLY

2.1.1



711-00020

P-2504

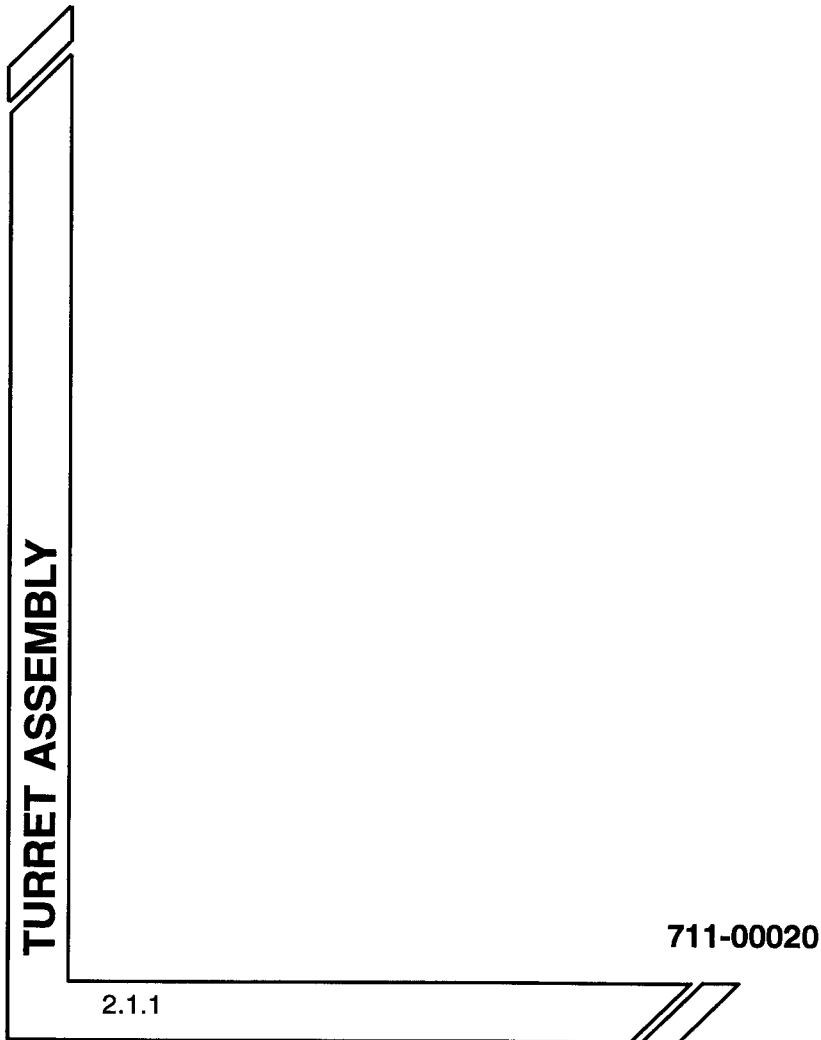
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	712-00203	.TURRET WELDMENT - FINAL	1
2	716-00034	.BEARING - ROTATION	1
3	220-39005	.SCREW - SLOT HEAD CAP 1 x 5 1/2" LONG	29
4	222-09004	.WASHER - FLAT 1	29
5	221-99002	.NUT - HEX TOPLOCK 1	29
6	224-26005	.ROD - END 5/8 x 4 1/4" LONG	1
7	220-06037	.BOLT 5/8 x 1 1/2" LONG	5
8	222-16003	.WASHER - LOCK 5/8	7
9	220-36010	.BOLT 5/8 x 3/4" LONG	2
10	870-90038	.PIN 3 x 25" LONG	1
11	789-04452	.PLATE - PIN RETAINER	2
12	220-07006	.BOLT 3/4 x 2" LONG	2
13	222-17001	.WASHER - LOCK 3/4	2
14	870-80010	.PIN 2 3/4 x 24 5/8" LONG	1
15	550-01641	.VALVE - MAIN HYDRAULIC SUBASSEMBLY	1
16	782-01519	.TUBE - VALVE SPACER	2
17	770-02245	.BRACKET - VALVE SUPPORT	2
18	221-04001	.WASHER - LOCK 1/2	6
19	220-04001	.NUT - HEX 1/2	6
20	518-80009	.ELBOW - 90° BULKHEAD #16	2
21	510-90354	.TUBE - MAIN WINCH ASSEMBLY-LOWER	1
22	510-90355	.TUBE - MAIN WINCH ASSEMBLY-RAISE	1
23	518-40008	.ELBOW - 90° BULKHEAD #8	2
24	514-65004	.ELBOW - 90° SWIVEL NUT #8	2
25	510-50413	.TUBE - SWING (BULKHEAD/C1 PORT) ASSEMBLY	1
26	510-50412	.TUBE - SWING (BULKHEAD/C2 PORT) ASSEMBLY	1
27	789-04414	.PLATE - STIFFENER	1
28	220-04007	.SCREW - HEX HEAD CAP 1/2 x 1 3/4" LONG	8
29	222-04001	.WASHER - FLAT 1/2	20
30	221-94002	.NUT - TOPLOCK 1/2	8
31	502-11175	.HOSE - BEARING LUBE ASSEMBLY-FRONT	1
32	502-11176	.HOSE - BEARING LUBE ASSEMBLY-REAR	1
33	501-03002	.ZERK - GREASE 1/8 STRAIGHT	2
34	518-20001	.CONNECTOR #4 x 1/8" LONG	2
35	511-21001	.NUT - LOCK #4	2
36	515-02002	.ELBOW - 45° #4 x 1/8	1
37	513-20007	.CONNECTOR #4 x 1/8	1
38	201-00142	.CLAMP - TUBE 1/4 x 1/2" LONG	2
39	223-15210	.SCREW - HEX HEAD MACHINE 5/16 x 3/4" LONG	2
40	652-00116	.PLACARD - MAIN BEARING LUBE	1
41	226-40001	.RIVET - METAL TACK	4
42	220-04011	.BOLT 1/2 x 4" LONG	1
43	220-04010	.BOLT 1/2 x 3 1/4" LONG	1
44	220-04005	.BOLT 1/2 x 1 1/2" LONG	4
45	559-00207	.VALVE - BOOM REGEN ASSEMBLY	1
46	770-02250	.BRACKET - BOOM REGEN VALVE MOUNTING	1
47	502-40853	.HOSE - BOOM REGEN VALVE ASSEMBLY	2
48	502-11172	.HOSE - TRANS TRANS/CYLINDER	1

711-00020



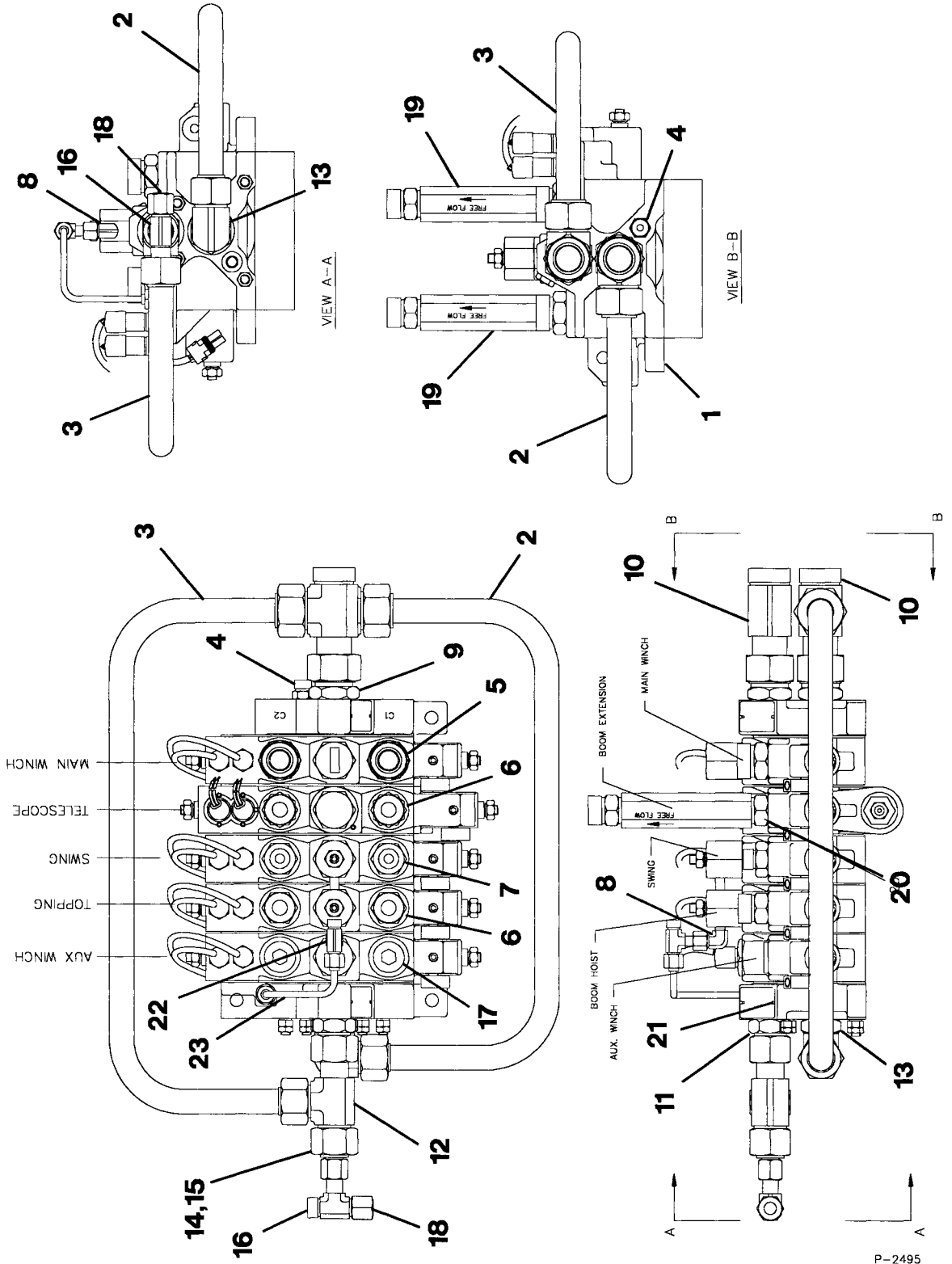
TC-75105 TRUCK CRANE

49	516-82003	.CONNECTOR - TEE	1
50	220-01023	.BOLT 5/16 x 4 1/2" LONG	2
51	221-01001	.NUT - HEX 5/16	2
52	222-01001	.WASHER - FLAT 5/16	2
53	222-11002	.WASHER - LOCK 5/16	2
	P-2504.D		



**MAIN CONTROL VALVE SUBASSEMBLY**

2.1.2



P-2495

500-01641

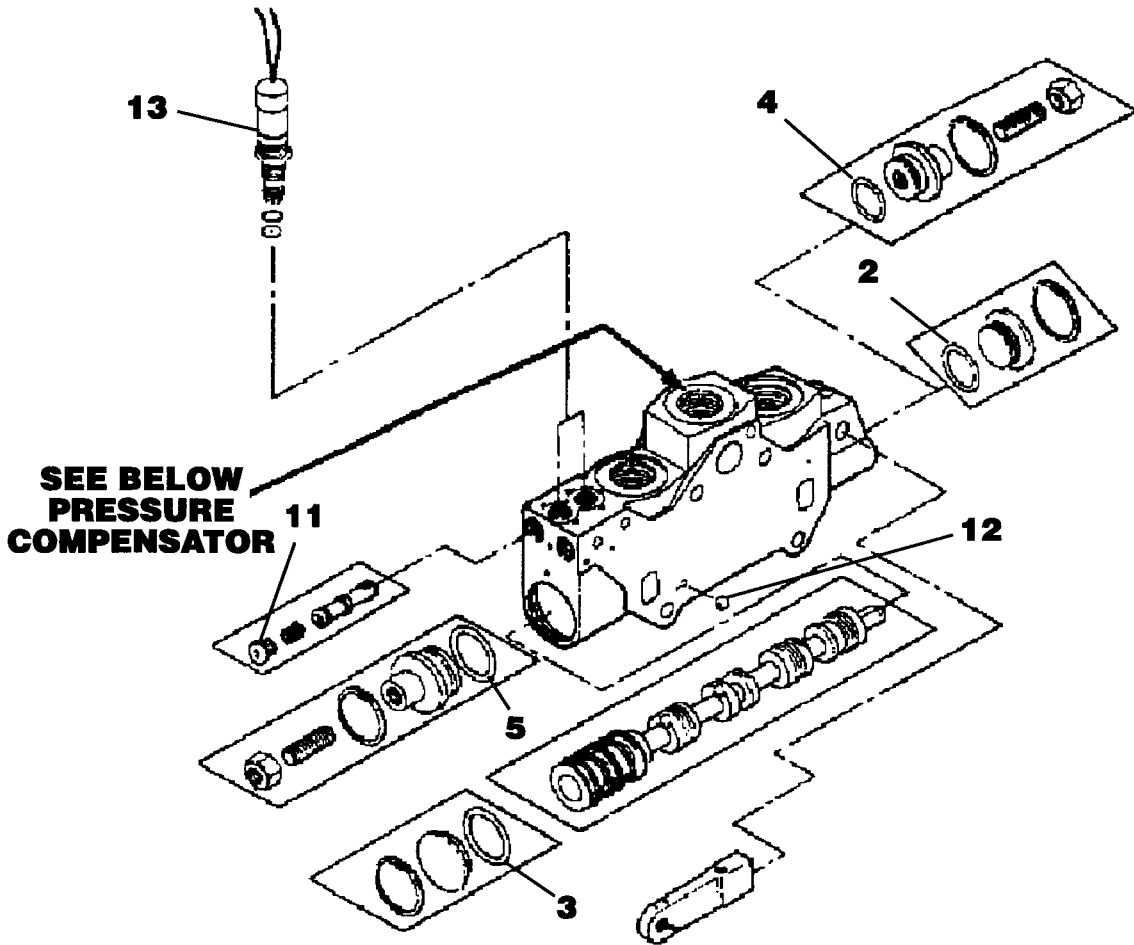
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	500-01625	.VALVE - MAIN CONTROL ASSEMBLY	1
2	510-90351	.TUBE - RETURN CROSS-OVER ASSEMBLY	1
3	510-90350	.TUBE - PRESS CROSS-OVER ASSEMBLY	1
4	513-40017	.CONNECTOR #6 OFS x #4 ORB	1
5	513-90035	.CONNECTOR #16 OFS x #12 ORB	4
6	513-70023	.CONNECTOR #12 OFS x #12 ORB	4
7	513-50028	.CONNECTOR #8 OFS x #12 ORB	2
8	514-02008	.ELBOW - 90° #4 OFS x 1/8 MPT	1
9	513-90056	.CONNECTOR #20 OFS x #16 ORB	2
10	516-89022	.TEE - RUN S.N. #20 OFS	2
11	513-90032	.CONNECTOR #16 OFS x #16 ORB	1
12	516-89011	.TEE - RUN S.N. #16 OFS	1
13	514-59021	.ELBOW - 90° #16 OFS x #16 ORB	1
14	519-70036	.TUBE - REDUCER #16 OFS x #8 OFS	1
15	511-90006	.NUT #16 OFS	1
16	516-85007	.TEE S.N. BRANCH #8 OFS	1
*17	517-30012	.PLUG #12 ORB	2
**18	519-50010	.CAP #8 OFS	1
19	559-00200	.RELEIF VALVE - INLINE	2
20	517-00014	.UNION CONNECTOR #12 ORB	2
21	513-20017	.CONNECTOR #4 OFS x #4 ORB	1
22	516-82004	.TEE - S.N. BRANCH #4 OFS	1
23	510-20446	.TUBE ASSEMBLY - DRAIN	1

P-2495.D

\*PLUGS ARE OMITTED WITH FITTINGS (ITEM #5) IF EQUIPPED WITH  
OPTIONAL AUXILIARY WINCH; REPLACE WITH ITEM #5. SEE 4.0

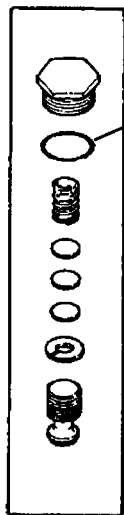
\*\*CAP IS OMITTED IF EQUIPPED WITH OPTIONAL AIR CONDITIONER.  
SEE 2.7

500-01641

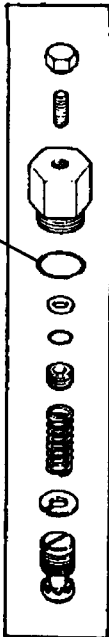


**MAIN CONTROL VALVE ASSEMBLY**

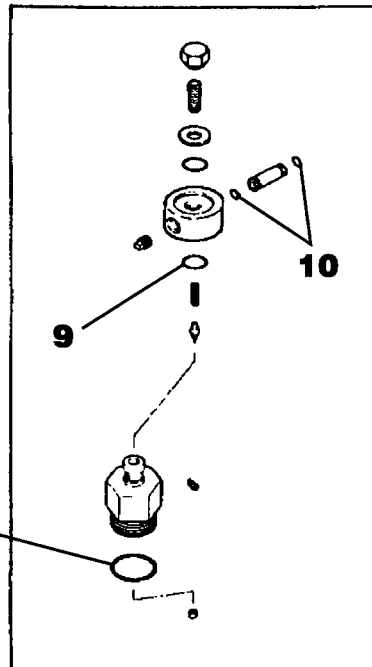
**AUXILIARY WINCH  
BOOM EXTEND/RETRACT**



**MAIN  
WINCH**



**SWING/TOPPING**



**WORK SEGMENT**

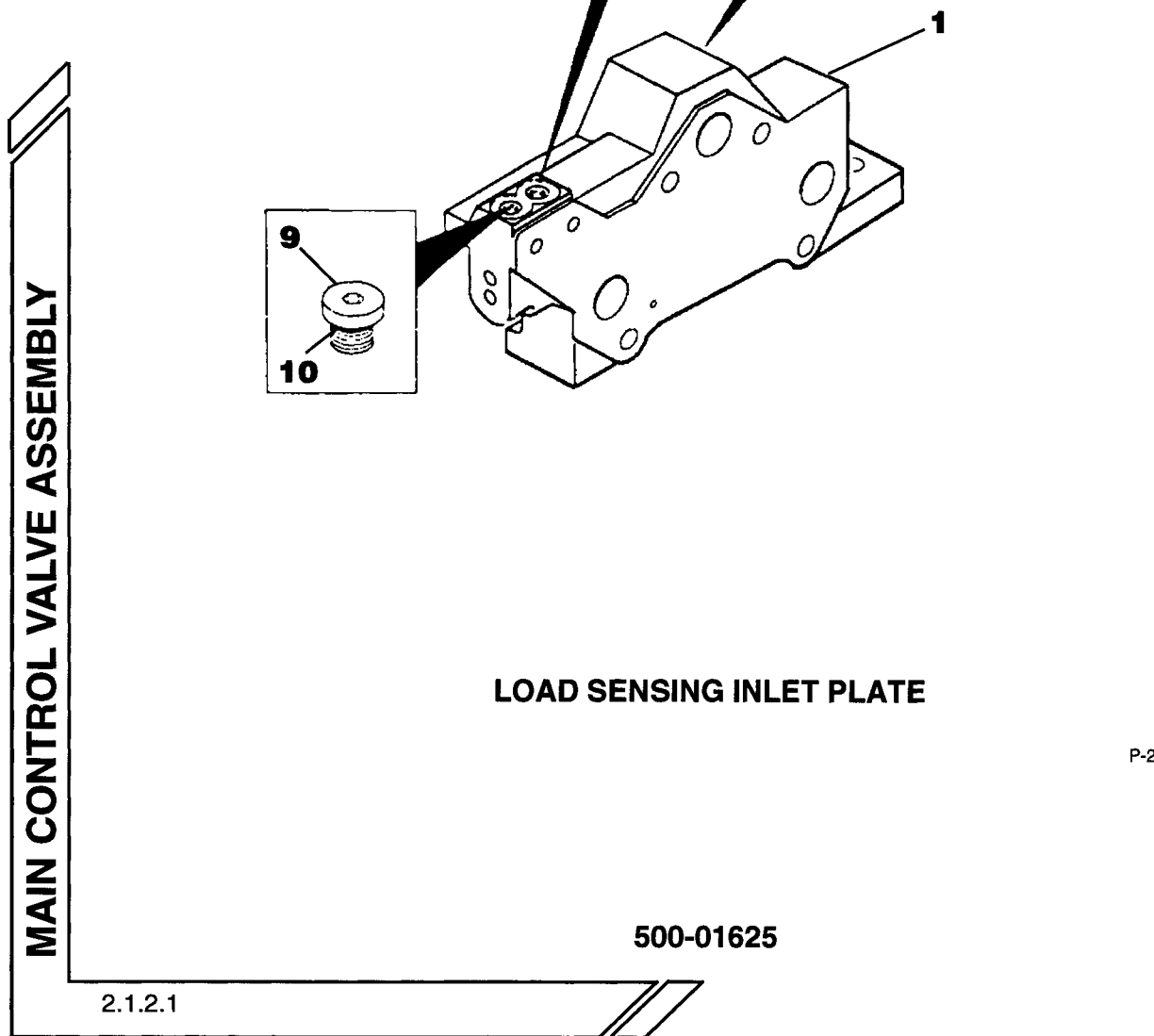
500-01625

P-2718

2.1.2.1

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	269-00151	.SEAL KIT - WORK SEGMENT (ONE PER SEGMENT)	1
2		..O-RING	1
3		..O-RING	1
4		..O-RING	1
5		..O-RING	1
6		..O-RING	1
7		..O-RING	1
8		..O-RING	1
9		..O-RING	1
10		..O-RING	2
11		..O-RING	2
12		..BALL	1
13	941-00007	.PULSAR	1
REFER TO VENDOR MANUAL FOR OTHER SERVICE PARTS.			
P-2718			

**WORK SEGMENT**  
**500-01625**



**LOAD SENSING INLET PLATE**

P-2718A

500-01625

2.1.2.1

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	941-00005	.INLET - LOAD SENSE	1
2	269-00147	.KIT - PILOT REDUCING	1
3		..SPOOL - PILOT REDUCING	1
4		..BALL	1
5		..GUIDE - SPRING	1
6		..SPRING	1
7		..SHIM	1
8		..SHIM	1
9		..PLUG - SOCKET	2
*10		..O-RING	2
11	269-00148	.KIT - INLET FILTER	1
*12		..O-RING	1
*13		..FILTER	1
14		..TUBE - FILTER EXTENSION	1
15		..PLUG - SOCKET	1
*16		..O-RING	1

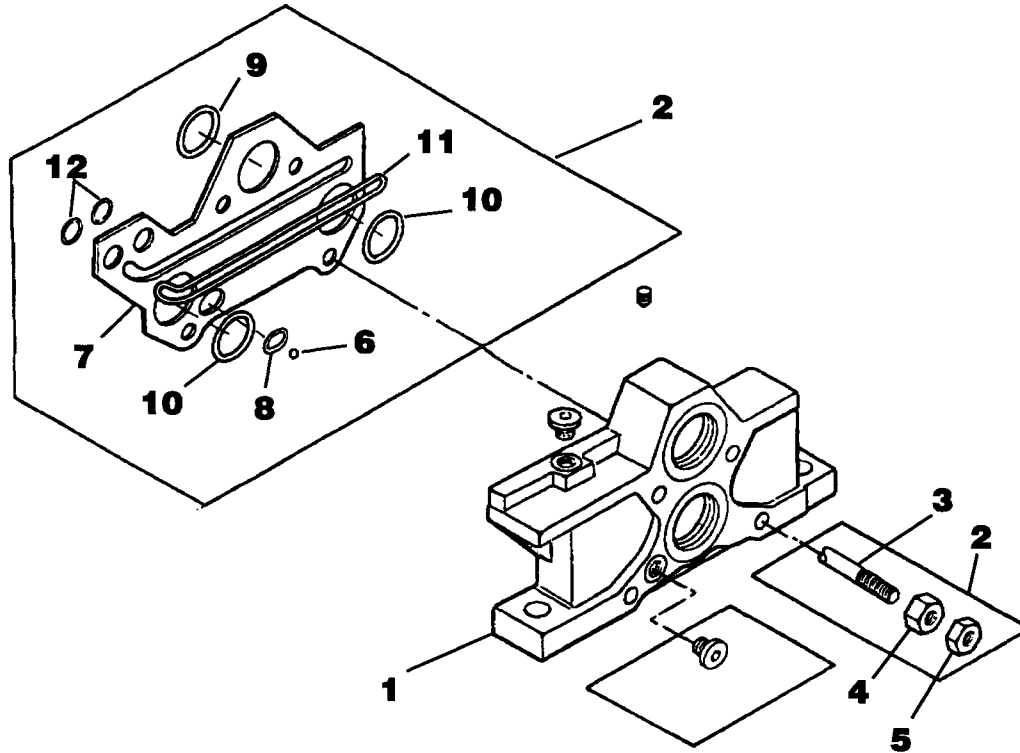
\*ITEMS INCLUDED IN SEAL KIT # 269-00149

P-2718A

**LOAD SENSING INLET PLATE**

**500-01625**

2.1.2.1



**MAIN CONTROL VALVE ASSEMBLY**

**OUTLET PLATE**

P-2718B

**500-01625**

2.1.2.1



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	941-00006	.PLATE - STACKING	5
2	941-00009	.KIT - SEAL PLATE	1
3		..ROD - TIE	4
4		..NUT - HEX	4
5		..NUT - JAM	4
*6		..BALL	5
*7		..PLATE - SEAL	6
*8		..O-RING	6
*9		..O-RING	6
*10		..O-RING	12
*11		..O-RING	6
*12		..O-RING	12

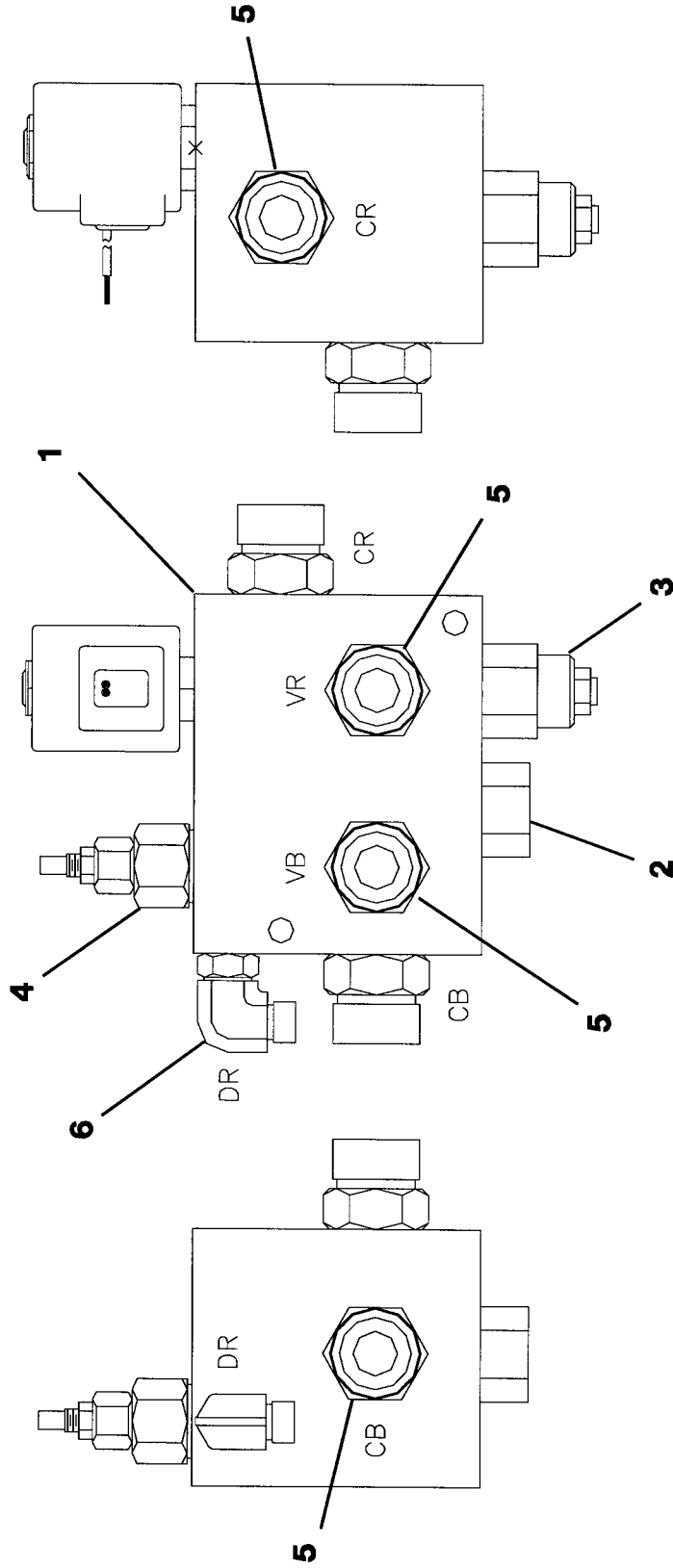
\*ITEMS INCLUDED IN SEAL KIT # 269-00150  
P-2718B

## OUTLET PLATE

**500-01625**

2.1.2.1

**BOOM REGEN VALVE SUBASSEMBLY**



**559-00207**

P-2717

2.1.2.2

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	559-00209	.BODY - VALVE	1
2	552-00125	.VALVE - CHECK	1
3	552-10262	.VALVE - COUNTERBALANCE, 3000 PSI	1
4	552-10263	.VALVE - SEQUENCING, 2900 PSI	1
5	513-70023	.CONNECTOR - STRAIGHT	4
6	514-52005	.ELBOW - 90°	1

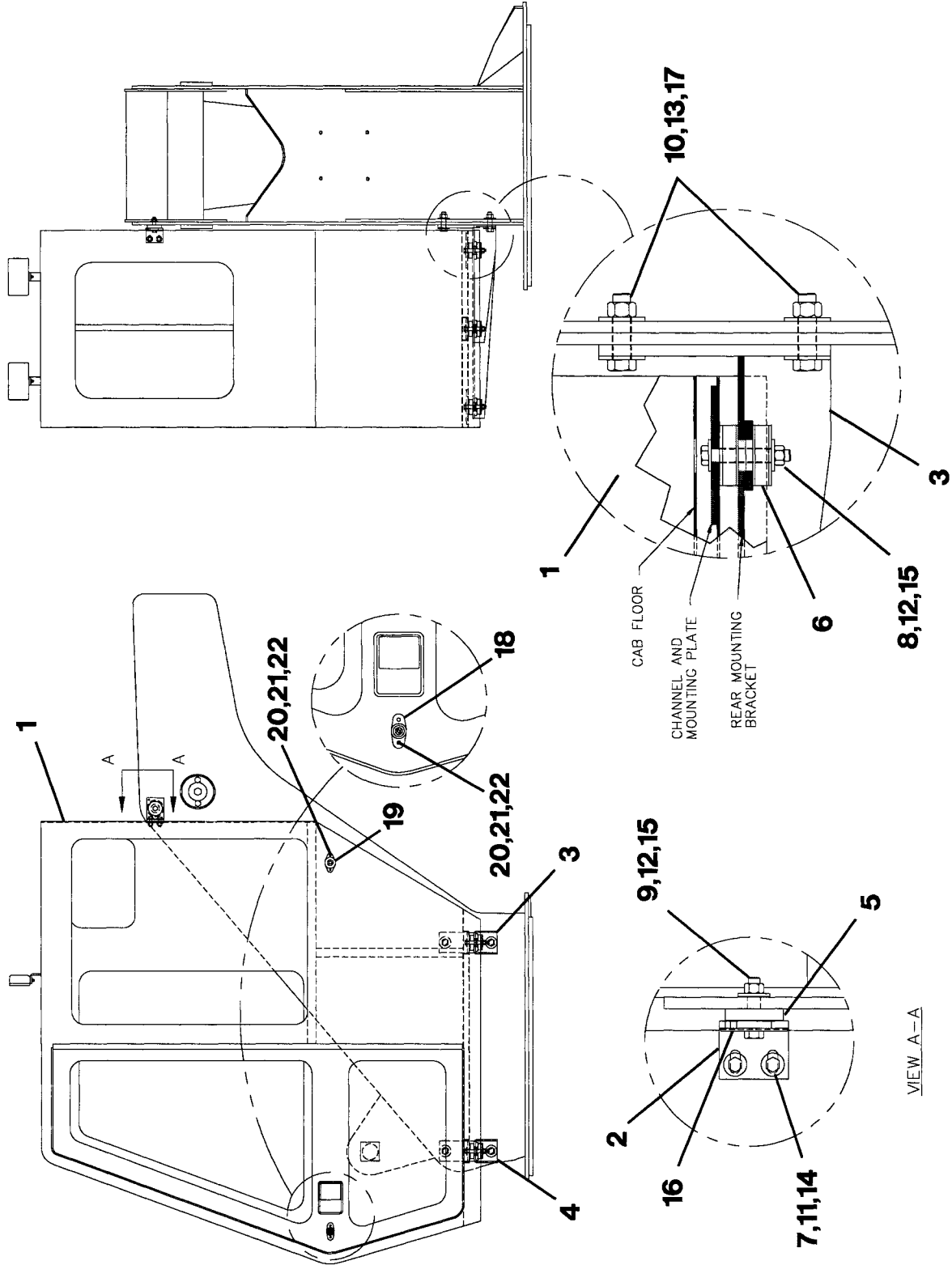
P-2717

**559-00207**

2.1.2.2

**OPERATOR'S CAB INSTALLATION**

2.2



706-00012 / 706-00014

P-2532.DWG

ITEM	PART NUMBER	DESCRIPTION	QTY.
*1	600-92003	.CAB - OPERATOR SUBASSEMBLY (706-00012)	1
**1	600-92004	.CAB - OPERATOR SUBASSEMBLY (706-00014)	1
2	770-02108	.BRACKET - CAB MOUNTING	1
3	770-02049	.BRACKET - CAB MOUNTING REAR	1
4	770-02047	.BRACKET - CAB MOUNTING FRONT	1
5	209-00609	.ISOLATOR	1
6	209-00717	.ISOLATOR - CAB MOUNTING	3
7	220-02003	.BOLT 3/8 x 3/4" LONG	2
8	220-04036	.BOLT 1/2 x 3 1/2" LONG	3
9	220-04052	.BOLT 1/2 x 2 1/4" LONG	1
10	220-07005	.BOLT 3/4 x 2 1/2" LONG	4
11	221-92001	.NUT - TOPLOCK 3/8	2
12	221-94006	.NUT - TOPLOCK 1/2	4
13	221-97002	.NUT - LOCK 3/4	4
14	222-02005	.WASHER - FLAT 3/8	4
15	222-04009	.WASHER - FLAT 1/2	7
16	222-06012	.WASHER - SPECIAL	1
17	222-07003	.WASHER - FLAT 3/4	8
18	600-93096	.PLUNGER - DOOR HOLDER	1
19	600-93097	.SOCKET - DOOR HOLDER	1
20	223-00306	.FSHMS - 5/16NC x 1" LONG	4
21	222-01001	.FLATWASHER - 5/16	4
22	221-91001	.HEXNUT - 5/16 TOPLOCK	4

P-2532

\*DUAL WINCH - OPTIONAL

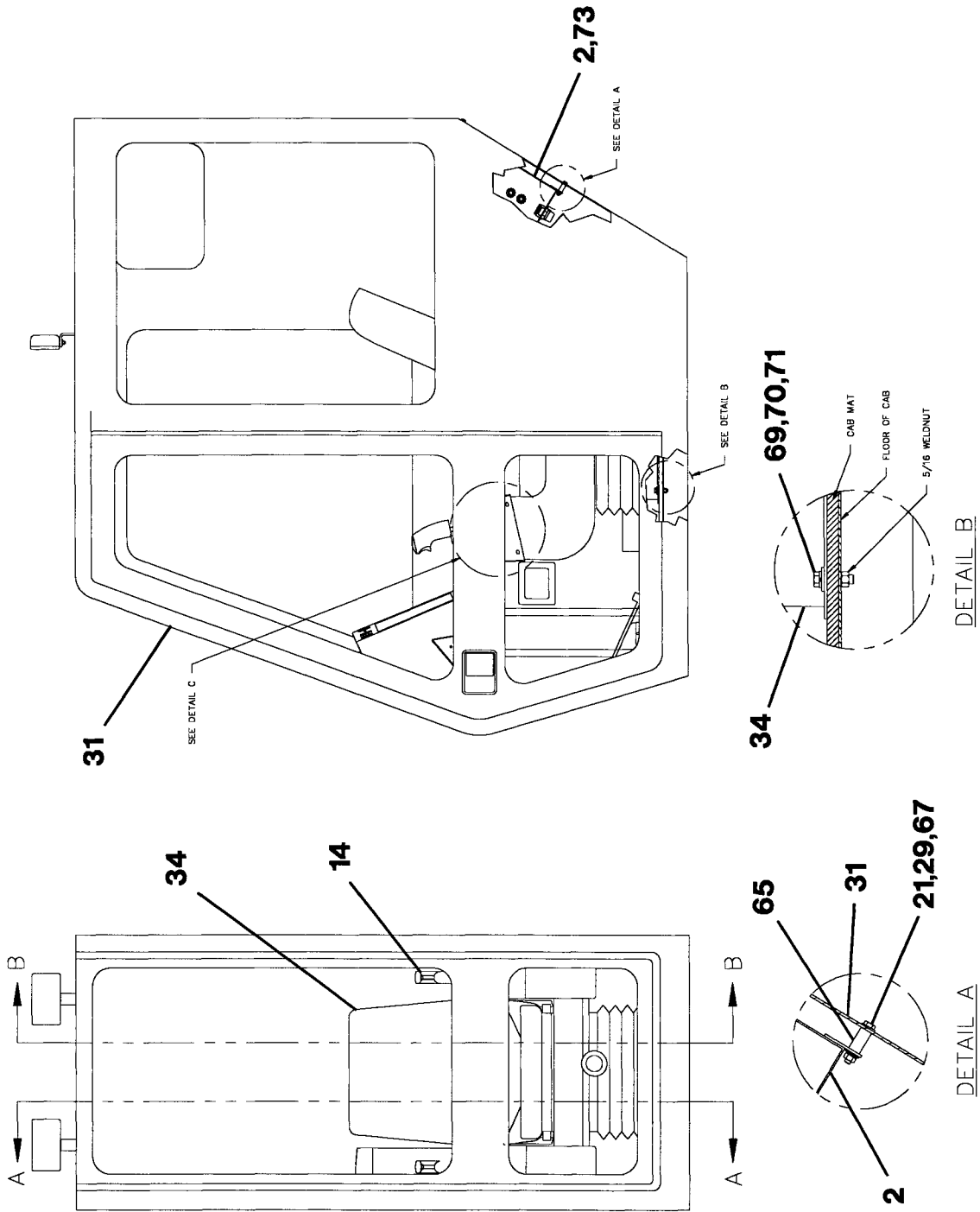
\*\*SINGLE WINCH - STANDARD

706-00012 / 706-00014

**OPERATOR'S CAB - DUAL WINCH**

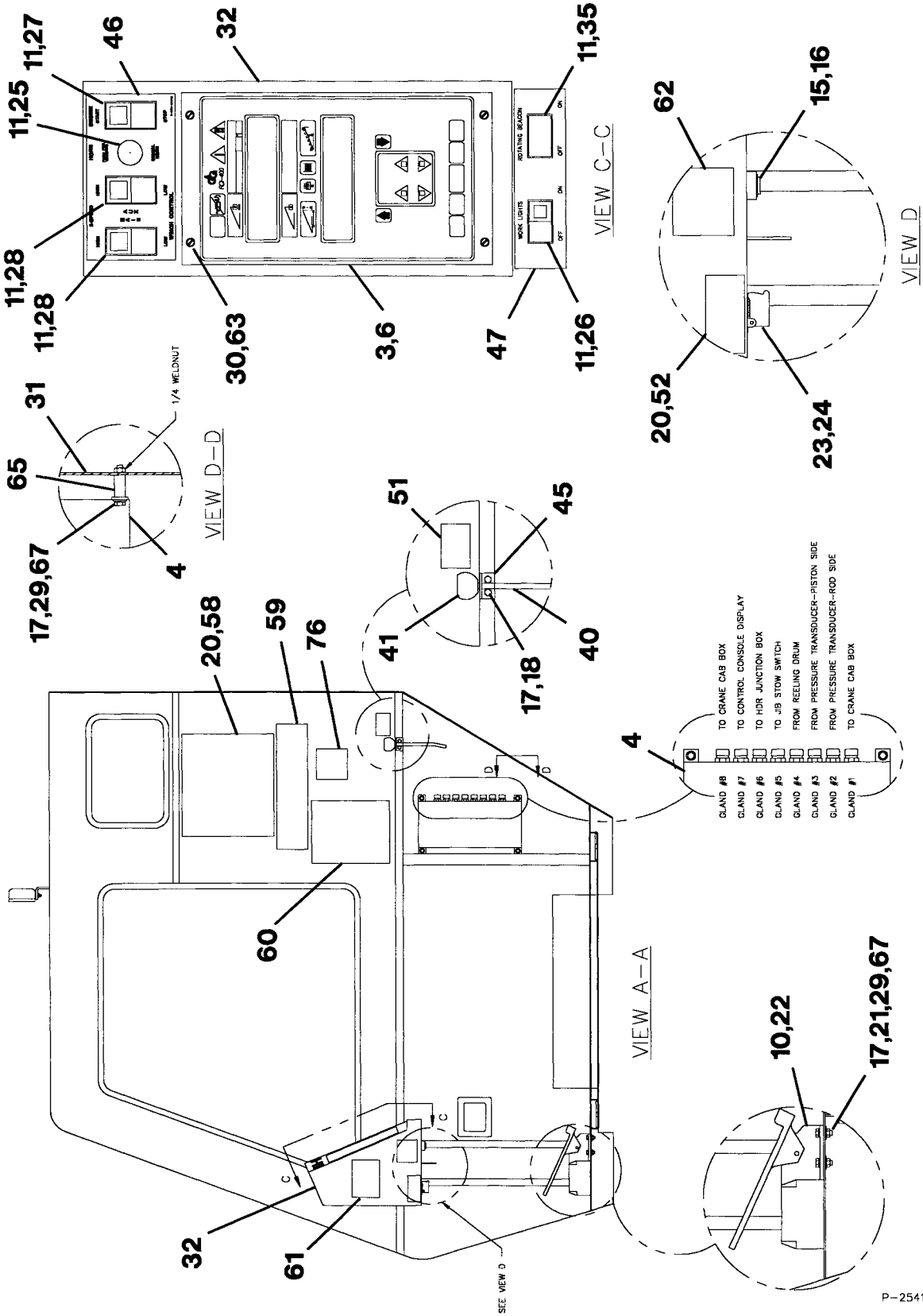
2.2.1

600-92003



P-2541

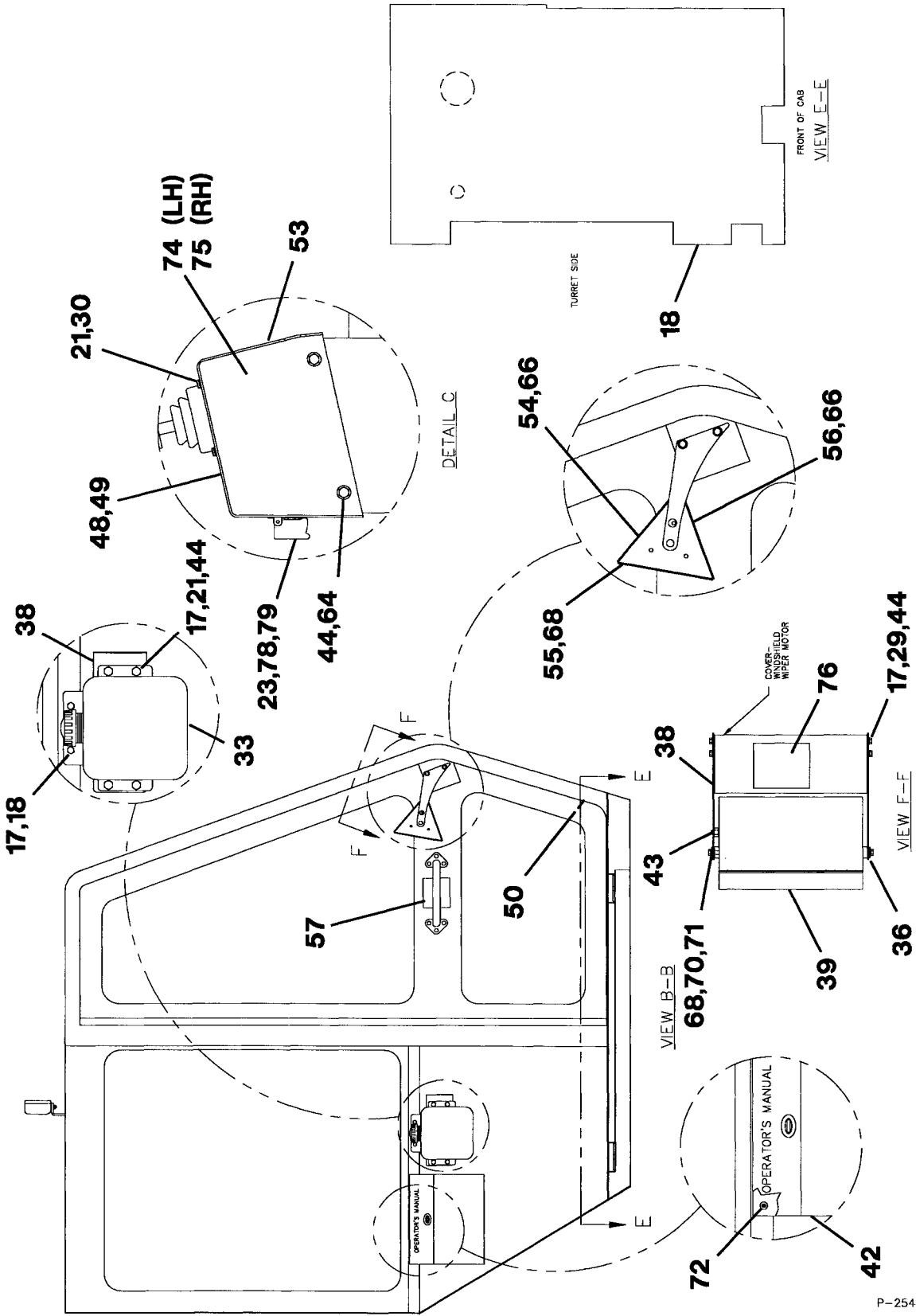
OPERATOR'S CAB - DUAL WINCH



600-92003

**OPERATOR'S CAB - DUAL WINCH**

2.2.1



600-92003

P-2541B



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	400-00946	.ELECTRICAL - UPPER INSTALLATION	1
2	400-00932	.ELECTRICAL - CAB BOX SUBASSEMBLY	1
3	400-16053	.SCREEN - LMI DISPLAY	1
4	400-16052	.COMPUTER - UPPER ASSEMBLY	1
*5	400-01914	.CABLE ASSEMBLY - JIB STOW SWITCH	1
*6	400-01863	.CABLE ASSEMBLY - LMI DISPLAY	1
*7	400-01834	.HARNESS - CRANE CONTROLS	1
*8	400-01833	.HARNESS - BOOM ANGLE SWITCHS	1
*9	400-01832	.HARNESS - CRANE CONTROLS, JUMPER	1
*10	400-01831	.HARNESS - CRANE CONTROLS, SEAT	1
*11	400-01830	.HARNESS - CRANE CAB CONTROLS	1
*12	400-01829	.HARNESS - CRANE CAB ACCESS	1
*13	400-01987	.HARNESS - BOOM REGEN VALVE	1
14	400-00885	.CONTROLLER - DUAL AXIS	2
15	400-21003	.HORN - LMI ALARM	1
16	400-21004	.SHUTTER ASSEMBLY - ALARM VOLUME	1
17	222-10005	.WASHER - LOCK 1/4	24
18	600-93092	.MAT - CAB FLOOR	1
19	223-15213	.SCREW - MACHINE 1/4 x 3/4" LONG	4
20	226-00001	.RIVET - POP	10
21	221-90001	.NUT - LOCK 1/4	12
22	400-00886	.FOOT PEDAL - BI-DIRECTIONAL	1
23	400-04032	.GUARD - SWITCH COVER	2
24	400-04034	.SWITCH - TOGGLE	1
25	400-04213	.SWITCH - MOMENTARY	1
26	400-04245	.SWITCH - LIGHTED ROCKER	1
27	400-04246	.SWITCH - MOMENTARY ROCKER	1
28	400-04247	.SWITCH - LIGHTED ROCKER	2
29	222-00006	.WASHER - FLAT 1/4	22
30	222-10006	.WASHER - LOCK #10	8
31	600-32413	.CAB - ENCLOSED	1
32	600-32414	.CONSOLE - CONTROL	1
33	600-93066	.RESERVOIR/PUMP - WINDSHIELD WASHER	1
	520-90013	..MOTOR - PUMP	1
34	600-93083	.SEAT - INTEGRAL JOYSTICK MOUNTS	1
**35	400-04250	.COVER - SWITCH	1
36	770-02191	.BRACKET - PLACARD STAGE MOUNT R/H	1
37	770-02194	.BRACKET - PLACARD STAGE MOUNT L/H	1
38	770-02171	.BRACKET - WASHER BOTTLE MOUNTING	1
39	770-02052	.STAGE - PLACARD WELDMENT	1
40	803-00105	.HANDLE - CONTROL	1
41	808-00028	.KNOB 3/8	1
42	209-00358	.POUCH - MANUAL	1
43	209-00718	.PLUNGER - BAL SPRING	1
44	220-00003	.BOLT 1/4 x 3/4" LONG	18
45	770-02199	.BRACKET - MANUAL CONTROL HANDLE	1
46	650-00730	.PLACARD - CONTROL PANEL	1
47	650-00734	.PLACARD - AUXILIARY CONTROLS	1
48	650-00743	.PLACARD - JOYSTICK CONTROL L/H	1
49	650-00744	.PLACARD - JOYSTICK CONTROL R/H	1
50	650-00745	.PLACARD - BOOM EXTEND/RETRACT	1
51	650-00750	.PLACARD - MANUAL CONTROL HANDLE	1

600-92003

ITEM	PART NUMBER	DESCRIPTION	QTY.
52	652-00367	.PLACARD - OUTRIGGER OVERRIDE	1
53	652-00372	.PLACARD - OEM CONTROL ADJUSTMENT	2
54	654-00520	.PLACARD - MAX LOAD CHART-MAX O/R SPREAD	1
55	654-00521	.PLACARD - MAX LOAD CHART-MIN O/R SPREAD	1
56	654-00522	.PLACARD - MAX LOAD CHART-JIB DEDUCTION	1
57	651-00315	.PLACARD - EMERGENCY EXIT	1
58	652-00111	.PLACARD - OPERATING INSTRUCTIONS	1
59	652-00358	.PLACARD - ROPE & REAVING CHART	1
60	652-00114	.PLACARD - STANDARD HAND SIGNALS	1
61	651-00270	.PLACARD - DANGER 2-BLOCK	1
62	651-00314	.PLACARD - RIDE TRUCK CAB	1
63	223-00106	.SCREW - MACHINE #10 x 3/4" LONG	4
64	221-80041	.NUT - SPRING 1/4	8
65	032-50005	.SPACER - TUBE 1/2 x 1" LONG	8
66	226-00019	.RIVET - POP 1/8	12
67	220-00006	.BOLT 1/4 x 1 3/4" LONG	12
68	223-03209	.SCREW - MACHINE 5/16 x 1" LONG	2
69	220-01006	.BOLT 5/16 x 1 1/2" LONG	4
70	222-11002	.WASHER - LOCK 5/16	6
71	222-01001	.WASHER - FLAT 5/16	6
72	209-00361	.FASTENER - 1/4 x 3/4 QUICK-HIT	2
73	400-00978	.MODIFICATION - DUAL WINCH ELECTRICAL BOX	1
74	770-02237	.BRACKET - JOYSTICK MOUNT WELDMENT (LH)	1
75	770-02238	.BRACKET - JOYSTICK MOUNT WELDMENT (RH)	1
76	651-00628	.PLACARD - STABILITY	2
77	400-01998	.WIRE ASSEMBLY - JUMPER	1
78	650-00758	.PLACARD - BOOM REGEN	1
79	400-04016	.SWITCH - ON/OFF	1

P-2541

\*ITEM NOT SHOWN

\*\*UNLESS EQIPPED WITH OPTIONAL STROBE LIGHT. SEE 2.4

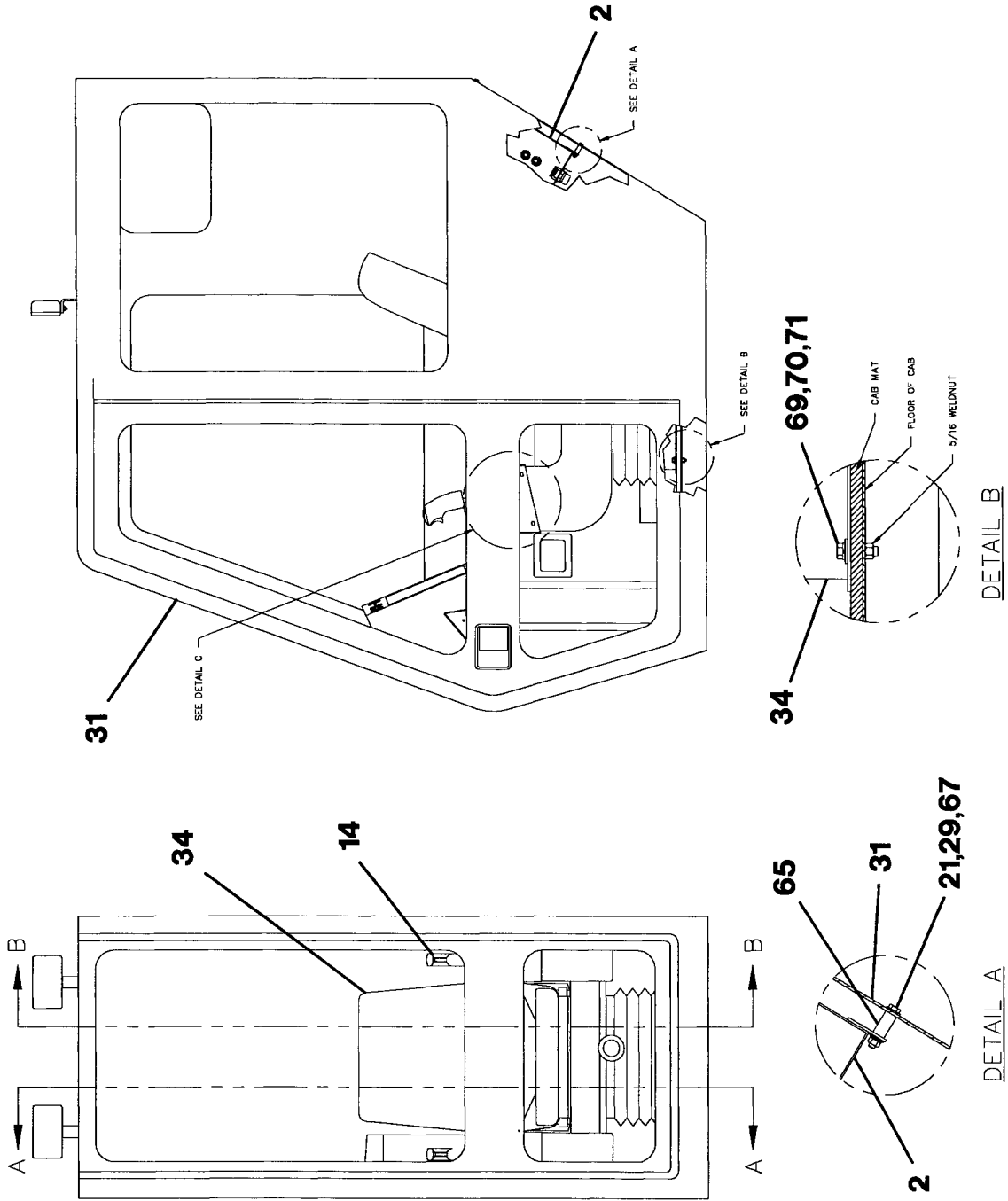
OPERATOR'S CAB - DUAL WINCH

600-92003

2.2.1

**OPERATOR'S CAB - SINGLE WINCH**

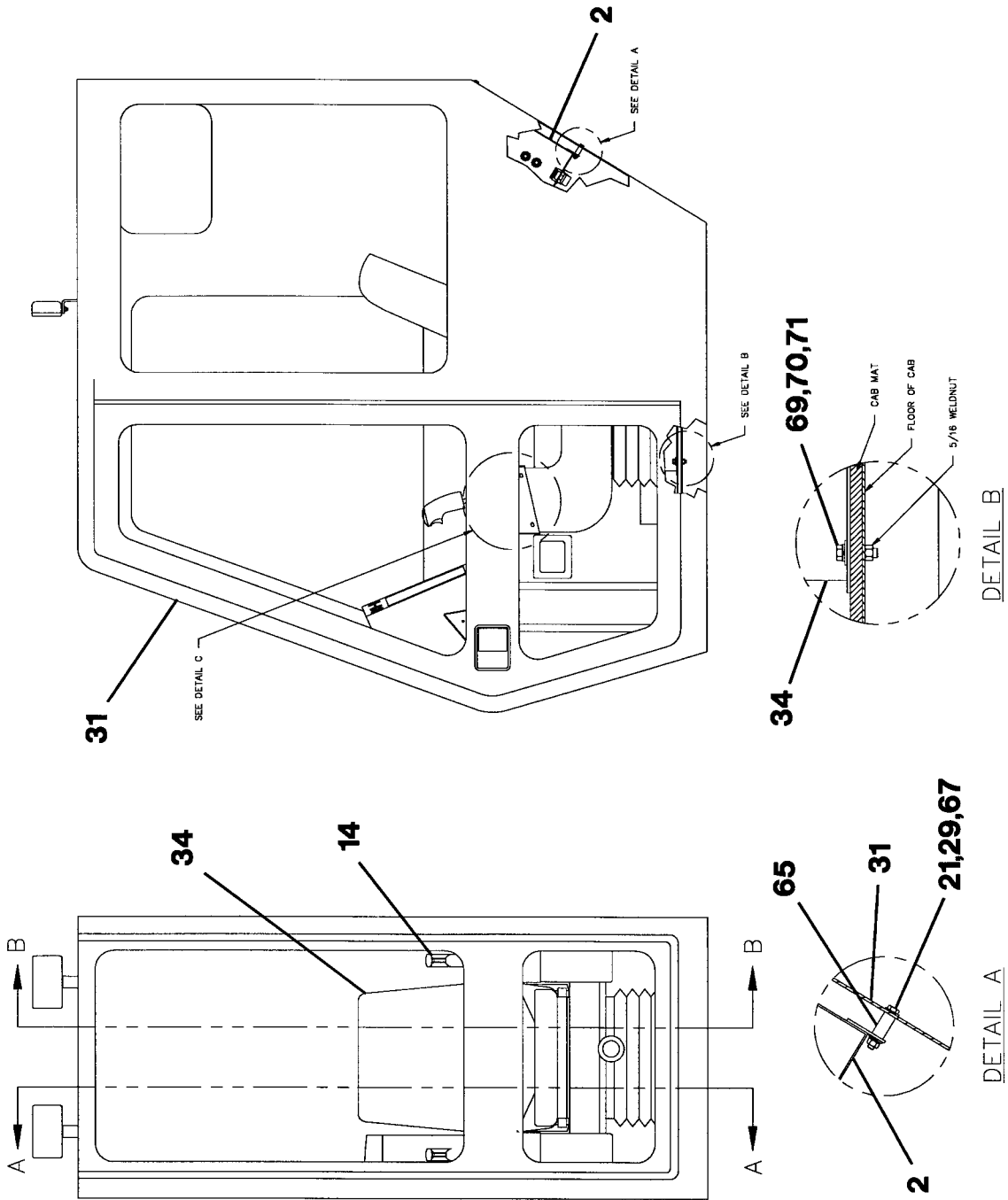
2.2.1



600-92004

P-2543

OPERATOR'S CAB - SINGLE WINCH



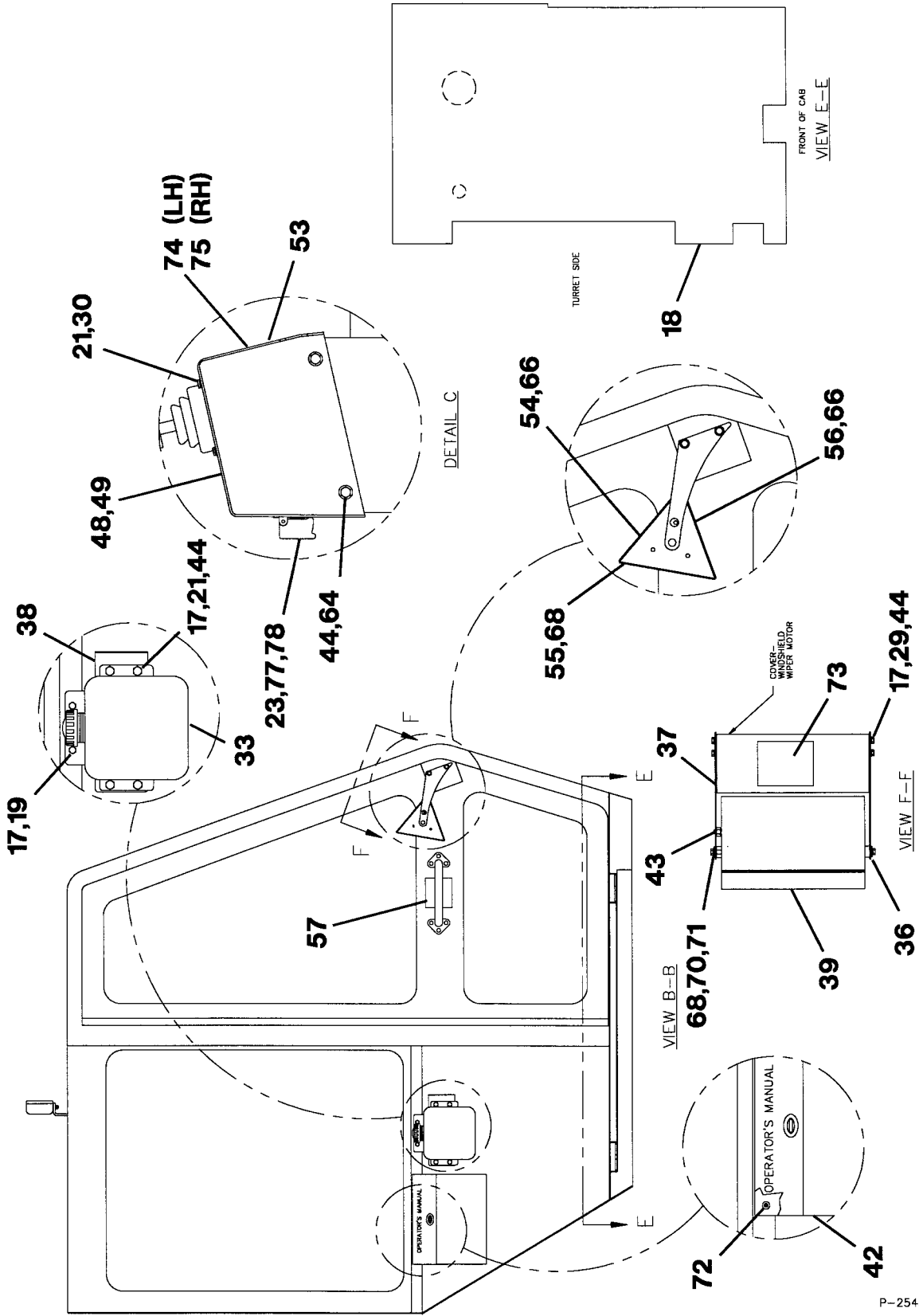
600-92004

P-2543

2.2.1

**OPERATOR'S CAB - SINGLE WINCH**

2.2.1



600-92004

P-254.3B

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	400-00946	.ELECTRICAL - UPPER INSTALLATION	1
2	400-00932	.ELECTRICAL - CAB BOX SUBASSEMBLY	1
3	400-16053	.SCREEN - LMI DISPLAY	1
4	400-16052	.COMPUTER - UPPER ASSEMBLY	1
*5	400-01914	.CABLE ASSEMBLY - JIB STOW SWITCH	1
*6	400-01863	.CABLE ASSEMBLY - LMI DISPLAY	1
*7	400-01834	.HARNESS - CRANE CONTROLS	1
*8	400-01833	.HARNESS - BOOM ANGLE SWITCHS	1
*9	400-01832	.HARNESS - CRANE CONTROLS, JUMPER	1
*10	400-01831	.HARNESS - CRANE CONTROLS, SEAT	1
*11	400-01830	.HARNESS - CRANE CAB CONTROLS	1
*12	400-01829	.HARNESS - CRANE CAB ACCESS	1
*13	400-01987	.HARNESS - BOOM REGEN VALVE	1
14	400-00885	.CONTROLLER - DUAL AXIS	2
15	400-21003	.HORN - LMI ALARM	1
16	400-21004	.SHUTTER ASSEMBLY - ALARM VOLUME	1
17	222-10005	.WASHER - LOCK 1/4	20
18	600-93092	.MAT - CAB FLOOR	1
19	223-15213	.SCREW - MACHINE 1/4 x 3/4" LONG	4
20	226-00001	.RIVET - POP	10
21	221-90001	.NUT - LOCK 1/4	8
22	400-04248	.COVER - SWITCH BLANK	1
23	400-04032	.GUARD - SWITCH COVER	1
24	400-04034	.SWITCH - TOGGLE	1
25	400-04213	.SWITCH - MOMENTARY	1
26	400-04245	.SWITCH - LIGHTED ROCKER	2
27	400-04246	.SWITCH - MOMENTARY ROCKER	1
28	400-04247	.SWITCH - LIGHTED ROCKER	1
29	222-00006	.WASHER - FLAT 1/4	18
30	222-10006	.WASHER - LOCK #10	8
31	600-32413	.CAB - ENCLOSED	1
32	600-32414	.CONSOLE - CONTROL	1
33	600-93066	.RESERVOIR/PUMP - WINDSHIELD WASHER	1
	520-90013	..MOTOR - PUMP	1
34	600-93083	.SEAT - INTEGRAL JOYSTICK MOUNTS	1
**35	400-04250	.COVER - SWITCH	1
36	770-02191	.BRACKET - PLACARD STAGE MOUNT R/H	1
37	770-02194	.BRACKET - PLACARD STAGE MOUNT L/H	1
38	770-02171	.BRACKET - WASHER BOTTLE MOUNTING	1
39	770-02052	.STAGE - PLACARD WELDMENT	1
40	803-00105	.HANDLE - CONTROL	1
41	808-00028	.KNOB 3/8	1
42	209-00358	.POUCH - MANUAL	1
43	209-00718	.PLUNGER - BAL SPRING	1
44	220-00003	.BOLT 1/4 x 3/4" LONG	18
45	770-02199	.BRACKET - MANUAL CONTROL HANDLE	1
46	650-00730	.PLACARD - CONTROL PANEL	1
47	650-00734	.PLACARD - AUXILIARY CONTROLS	1
48	650-00731	.PLACARD - JOYSTICK CONTROL L/H	1
49	650-00732	.PLACARD - JOYSTICK CONTROL R/H	1
*50	400-02257	.TERMINAL - SPADE LOCKING	2
51	650-00750	.PLACARD - MANUAL CONTROL HANDLE	1

600-92004

ITEM	PART NUMBER	DESCRIPTION	QTY.
52	652-00367	.PLACARD - OUTRIGGER OVERRIDE	1
53	652-00372	.PLACARD - OEM CONTROL ADJUSTMENT	2
54	654-00520	.PLACARD - MAX LOAD CHART-MAX O/R SPREAD	1
55	654-00521	.PLACARD - MAX LOAD CHART-MIN O/R SPREAD	1
56	654-00522	.PLACARD - MAX LOAD CHART-JIB DEDUCTION	1
57	651-00315	.PLACARD - EMERGENCY EXIT	1
58	652-00111	.PLACARD - OPERATING INSTRUCTIONS	1
59	652-00358	.PLACARD - ROPE & REAVING CHART	1
60	652-00114	.PLACARD - STANDARD HAND SIGNALS	1
61	651-00270	.PLACARD - DANGER 2-BLOCK	1
62	651-00314	.PLACARD - RIDE TRUCK CAB	1
63	223-00106	.SCREW - MACHINE #10 x 3/4" LONG	4
64	221-80041	.NUT - SPRING 1/4	8
65	032-40011	.SPACER - TUBE 3/8 x 1" LONG	8
66	226-00019	.RIVET - POP 1/8	12
67	220-00006	.BOLT 1/4 x 1 3/4" LONG	8
68	223-03209	.SCREW - MACHINE 5/16 x 1" LONG	2
69	220-01006	.BOLT 5/16 x 1 1/2" LONG	4
70	222-11002	.WASHER - LOCK 5/16	6
71	222-01001	.WASHER - FLAT 5/16	6
72	209-00361	.FASTENER - 1/4 x 3/4 QUICK-HIT	2
73	651-00628	.PLACARD - STABILITY	2
74	770-02237	.BRACKET WELD - JOYSTICK MOUNT (LH)	1
75	770-02238	.BRACKET WELD - JOYSTICK MOUNT (RH)	2
*76	400-01998	.WIRE ASSEMBLY - JUMPER	1
77	650-00758	.PLACARD - BOOM REGEN	1
78	400-04016	.SWITCH - ON/OFF	1

P-2543

\*ITEM NOT SHOWN

\*\*UNLESS EQUIPPED WITH OPTIONAL CAB BEACON; SEE 2.4

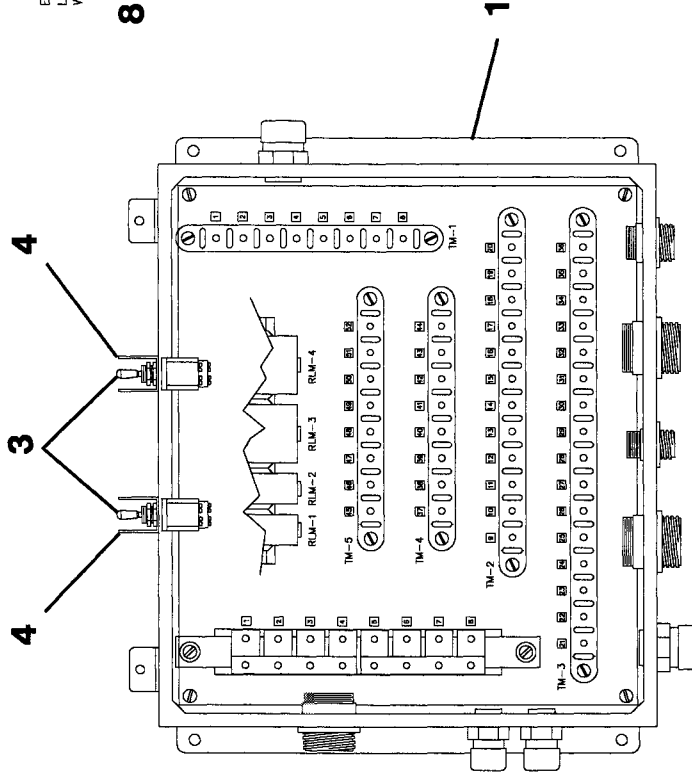
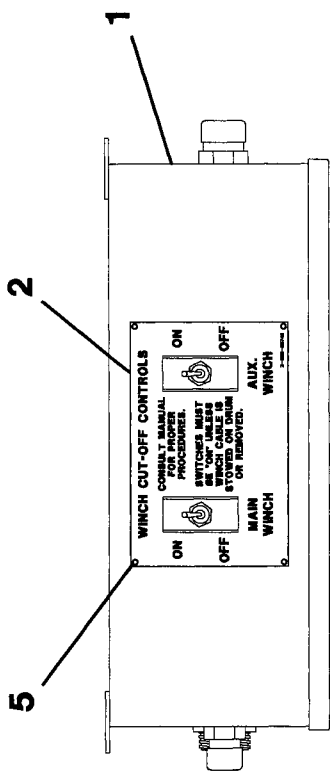
OPERATOR'S CAB - SINGLE WINCH

600-92004

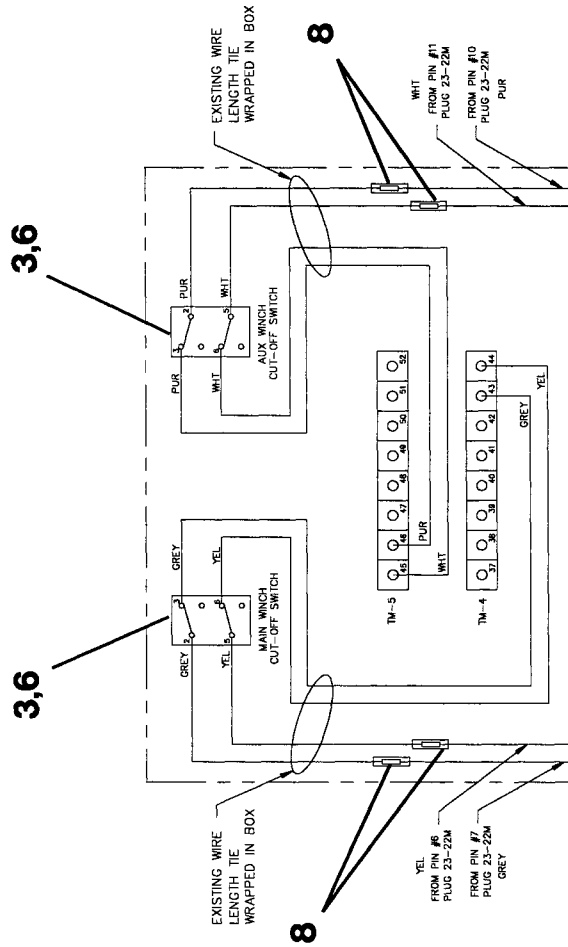
2.2.1

**CONTROL BOX MODIFICATION**

2.2.1.1



TOP VIEW -- COVER REMOVED



DETAIL-A  
WIRING MODIFICATION

400-00978

P-2538



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	400-00932	.BOX - ELECTRICAL CAB CONTROL	1
2	650-00748	.PLACARD - WINCH CONTROL CUTOFF	1
3	400-04038	.SWITCH - TOGGLE	2
4	400-04024	.PROTECTOR - SWITCH	2
5	226-00001	.RIVET - POP .104	4
6	400-18032	.TERMINAL RING #10	8
7	400-15086	.CABLE TIE	8
8	400-02202	.CONNECTOR - BUTT	4

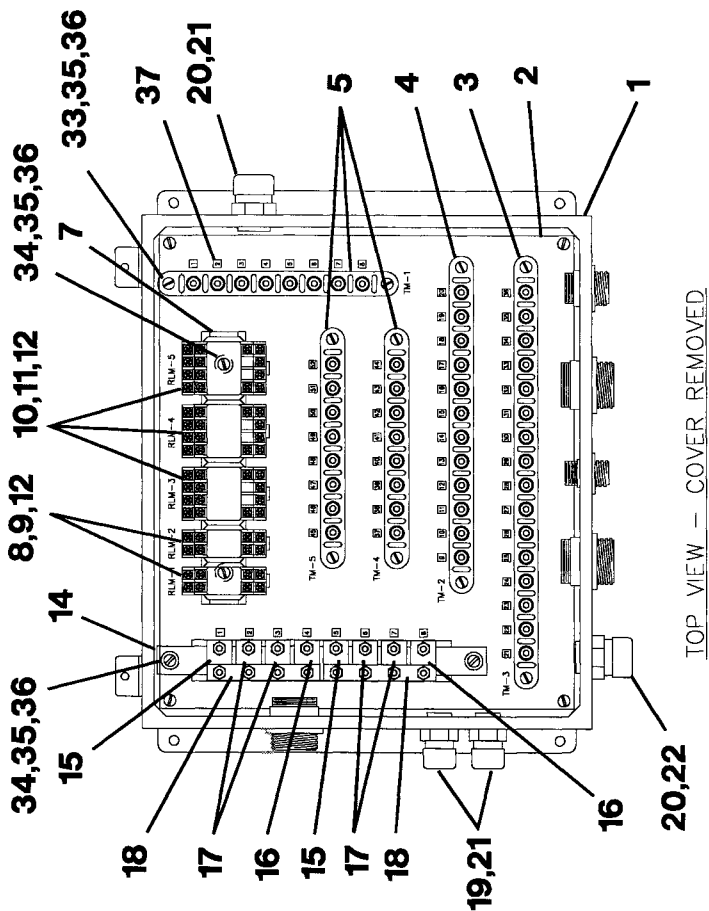
P-2538

**400-00978**

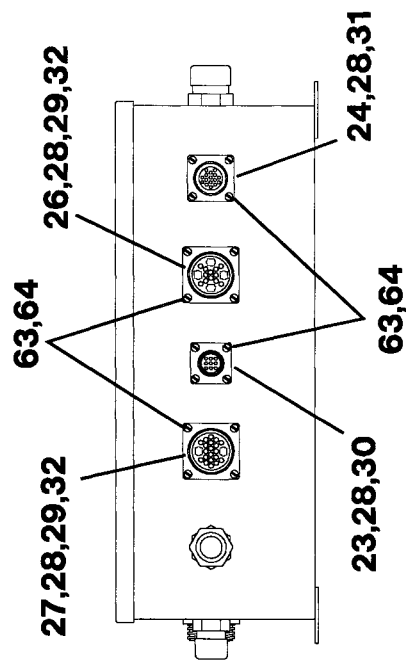
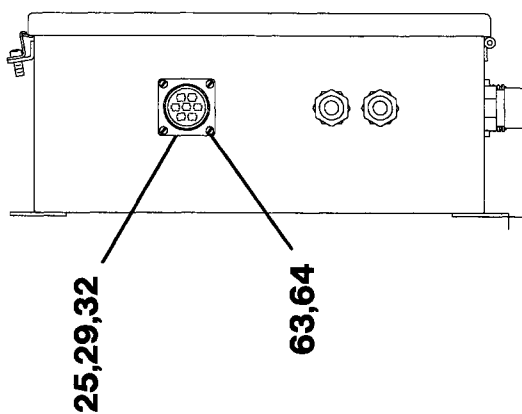
2.2.1.1

**CONTROL BOX - CRANE CAB**

2.2.1.2



TOP VIEW - COVER REMOVED



400-00932

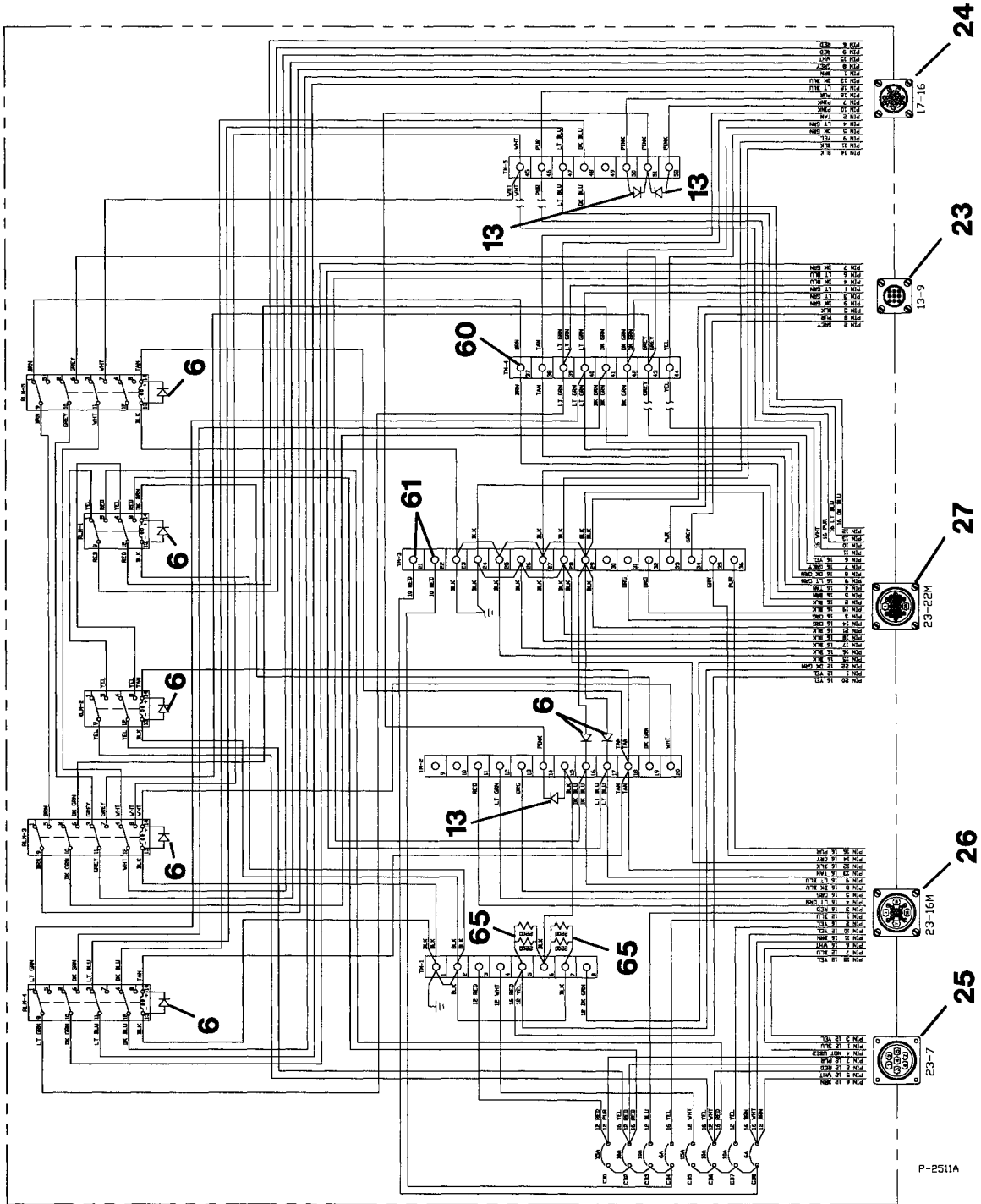
P-2511

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	400-05379	.BOX - ELECTRICAL MODIFICATION-CRANE CAB	1
2	400-05376	.PANEL - ELECTRICAL MODIFICATION-CRANE CAB	1
3	400-03048	.STRIP - TERMINAL-16 POST	1
4	400-03058	.STRIP - TERMINAL-12 POST	1
5	400-03062	.STRIP - TERMINAL-8 POST	3
6	400-23300	.RECTIFIER	7
7	652-00366	.RAIL — RELAY MOUNTING-7"	1
8	400-05206	.RELAY 2PDT 12VDC	2
9	400-05150	.RELAY - BASE 2PDT	3
10	400-05360	.RELAY 4PDT 12VDC	3
11	400-05274	.RELAY - BASE 4PDT	2
12	400-05116	.CLIP - RELAY RETAINER	8
13	400-23046	.DIODE	3
14	400-10052	.BRACKET - CIRCUIT BREAKER-8 POSITION	1
15	400-10049	.BREAKER - CIRCUIT-15 AMP	2
16	400-10051	.BREAKER - CIRCUIT-6 AMP	2
17	400-10048	.BREAKER - CIRCUIT-10 AMP	4
18	400-01288	.BAR - BUSS CIRCUIT BREAKER-5	2
19	400-15084	.RELIEF - STRAIN 1/2 HUB	2
20	400-15048	.RELIEF - STRAIN 3/4 HUB	2
21	400-15054	.NUT - PANEL 1/2	2
22	400-15103	.NUT - PANEL 3/4	2
23	400-23160	.RECEPTACLE - CPC FLANGE MOUNT 13-9	1
24	400-23075	.RECEPTACLE - CPC FLANGE MOUNT 17-16	1
25	400-23245	.RECEPTACLE - CPC FLANGE MOUNT 23-7	1
26	400-23333	.RECEPTACLE - CPC FLANGE MOUNT 23-16M	1
27	400-23334	.RECEPTACLE - CPC FLANGE MOUNT 23-22M	1
28	400-23124	.PIN - MALE CPC MULTIMATE	57
29	400-23154	.PIN - MALE CPC TYPE XII	13
30	400-23160	.SEAL - PERIPHERAL SHELL SIZE 13	1
31	400-23176	.SEAL - PERIPHERAL SHELL SIZE 17	1
32	400-23056	.SEAL - PERIPHERAL SHELL SIZE 23	3
33	223-14106	.SCREW - PAN HEAD MACHINE #10 x 3/4" LONG	10
34	223-14121	.SCREW - PAN HEAD MACHINE #10 x 3/8" LONG	4
35	222-00007	.WASHER - FLAT #10	14
36	222-10006	.WASHER - LOCK #10	14
37	654-00163	.TAPE - IDENTIFICATION	1
*38	400-01401	.WIRE - FLAME RETARDANT 10 GA.-RED	A/R
*39	400-01382	.WIRE - FLAME RETARDANT 12 GA.-BROWN	A/R
*40	400-01387	.WIRE - FLAME RETARDANT 12 GA.-WHITE	A/R
*41	400-01384	.WIRE - FLAME RETARDANT 12 GA.-RED	A/R
*42	400-01397	.WIRE - FLAME RETARDANT 12 GA.-LT. BLUE	A/R
*43	400-01385	.WIRE - FLAME RETARDANT 12 GA.-YELLOW	A/R
*44	400-01388	.WIRE - FLAME RETARDANT 12 GA.-PURPLE	A/R
*45	400-01384	.WIRE - FLAME RETARDANT 12 GA.-DK. GREEN	A/R
*46	400-01378	.WIRE - FLAME RETARDANT 16 GA.-BLACK	A/R
*47	400-01376	.WIRE - FLAME RETARDANT 16 GA.-RED	A/R
*48	400-01600	.WIRE - FLAME RETARDANT 16 GA.-TAN	A/R
*49	400-01374	.WIRE - FLAME RETARDANT 16 GA.-BROWN	A/R
*50	400-01377	.WIRE - FLAME RETARDANT 16 GA.-YELLOW	A/R

400-00932

**CONTROL BOX - CRANE CAB**

2.2.1.2



400-00932

ITEM	PART NUMBER	DESCRIPTION	QTY.
*51	400-01512	.WIRE - FLAME RETARDANT 16 GA.-GREY	A/R
*52	400-01375	.WIRE - FLAME RETARDANT 16 GA.-DK. GREEN	A/R
*53	400-01390	.WIRE - FLAME RETARDANT 16 GA.-LT. GREEN	A/R
*54	400-01404	.WIRE - FLAME RETARDANT 16 GA.-PURPLE	A/R
*55	400-01379	.WIRE - FLAME RETARDANT 16 GA.-WHITE	A/R
*56	400-01389	.WIRE - FLAME RETARDANT 16 GA.-DK. BLUE	A/R
*57	400-01599	.WIRE - FLAME RETARDANT 16 GA.-LT. BLUE	A/R
*58	400-01380	.WIRE - FLAME RETARDANT 16 GA.-ORANGE	A/R
*59	400-01513	.WIRE - FLAME RETARDANT 16 GA.-PINK	A/R
60	400-18032	.RING - TERMINAL #10 14-16 GA.	86
61	400-02221	.RING - TERMINAL #10 10-12 GA.	16
62	400-15086	.TIE - CABLE	A/R
63	223-14125	.SCREW - PHILIPS HEAD MACHINE #5 x 1/2"	20
64	222-10003	.WASHER - LOCK #5	20
65	400-14021	.RESISTOR 220K OHM 1/2 WATT	4

P-2511.D

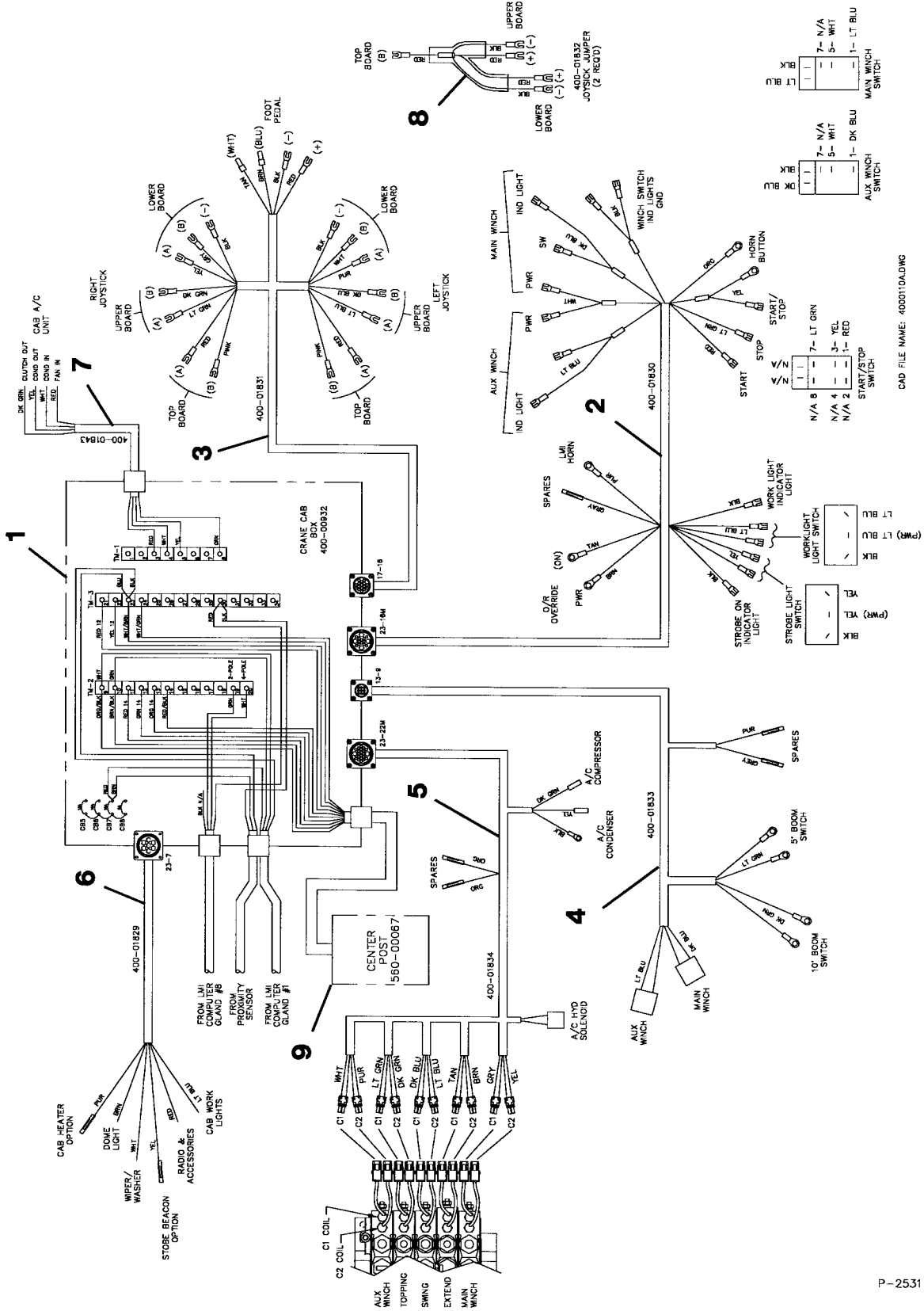
\* ITEM NOT SHOWN

400-00932

2.2.1.2

**WIRING DIAGRAM - UPPER ELECTRICAL**

2.3



CAD FILE NAME: 400010ADWG

400-00952

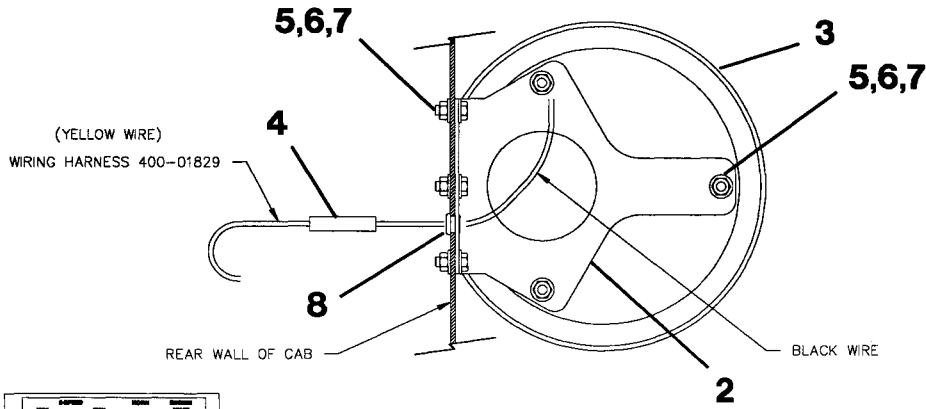
P-2531

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	400-00932	.JUNCTION BOX - CRANE CAB	1
2	400-01830	.ELECTRICAL HARNESS - CRANE CAB CONTROLS	1
3	400-01831	.ELECTRICAL HARNESS - CRANE CONTROLS, SEAT	1
4	400-01833	.ELECTRICAL HARNESS - BOOM ANGLE SWITCH	1
5	400-01834	.ELECTRICAL HARNESS - MAIN HARNESS	1
6	400-01829	.ELECTRICAL HARNESS - CRANE CAB ACCESSORY	1
7	400-01843	.ELECTRICAL HARNESS - CAB A/C	1
8	400-01832	.ELECTRICAL HARNESS - JOYSTICK JUMPER	1
9	560-00067	.CENTERPOST ASSEMBLY	1
10	400-16052	.LMI COMPUTER	1
11	400-16053	.DISPLAY - LMI UNIT	1
12	400-05394	.TRANSDUCER - PRESSURE MODIFICATION	2
13	400-16055	.REEL - DRUM	1
14	400-16051	.BOX - HDR JUNCTION	1
15	400-16050	.TRANSMITTER - HDR	2
16	400-00958	.SWITCH - JIB STOW SUBASSEMBLY	1
	400-05189	..SWITCH - LIMIT-ROLLER	1
17	400-01914	.ELECTRICAL HARNESS - JIB STOW	1
	P-2531		

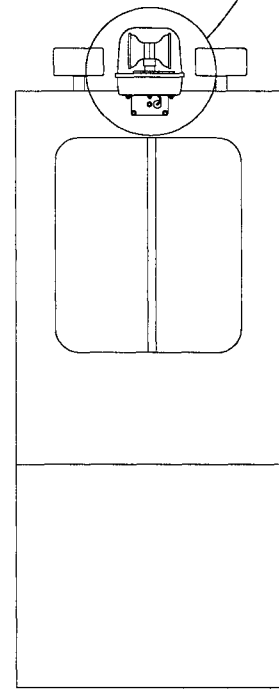
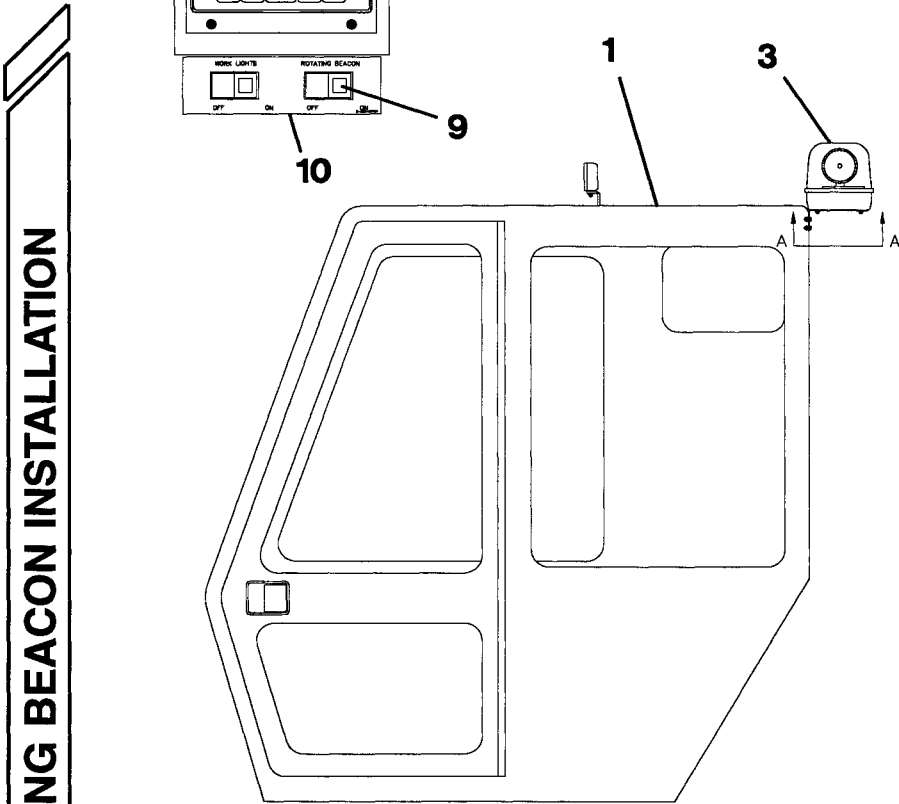
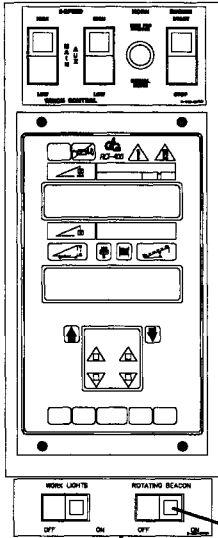
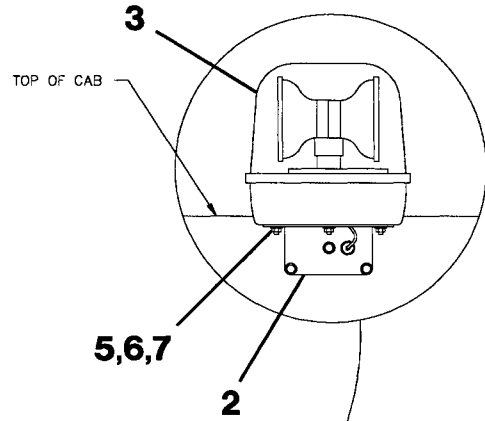
400-00952







VIEW A-A



ROTATING BEACON INSTALLATION

P-2533

600-95001

ITEM	PART NUMBER	DESCRIPTION	QTY.
*1	600-92003	.CAB - OPERATOR SUBASSEMBLY (706-00012)	1
**1	600-92004	.CAB - OPERATOR SUBASSEMBLY (706-00014)	1
2	770-02103	.BRACKET - STROBE LIGHT	1
3	400-09343	.LIGHT - ROTATING STROBE	1
4	400-02343	.CONNECTOR - BUTT	1
5	222-00006	.WASHER - FLAT 1/4	9
6	221-90001	.NUT - TOPLOCK 1/4	6
7	220-00003	.BOLT 1/4 x 3/4" LONG	6
8	209-00408	.GROMMET 1/4	1
9	400-04245	.SWITCH - LIGHTED ROLLER	1
10	600-32414	.CONTROL CONSOLE	REF

P-2533

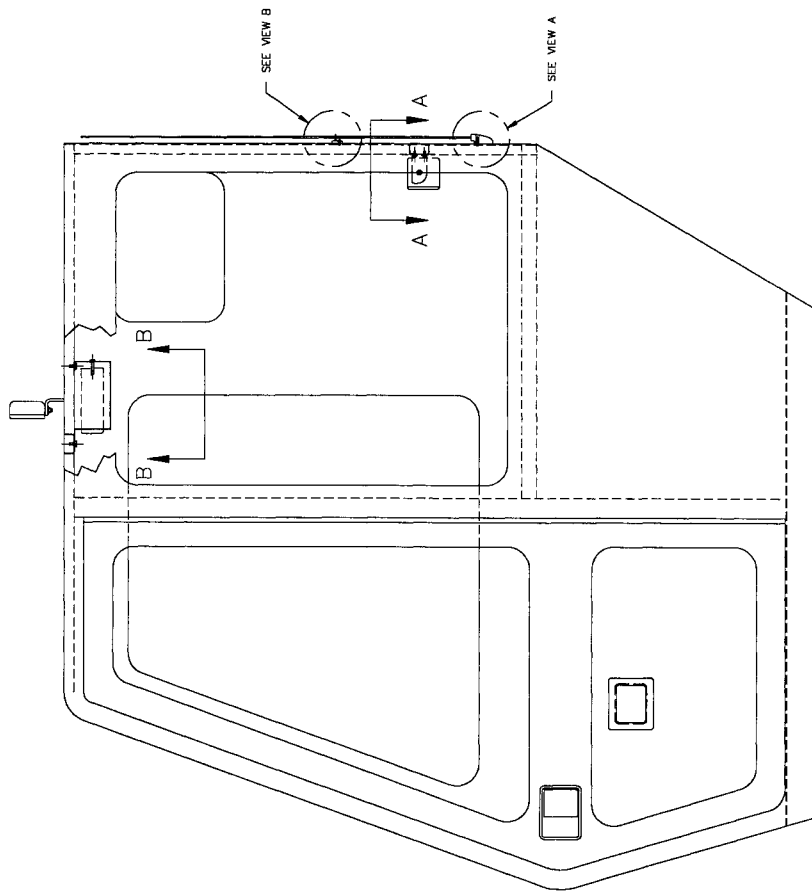
\*DUAL WINCH - OPTIONAL

\*\*SINGLE WINCH - STANDARD

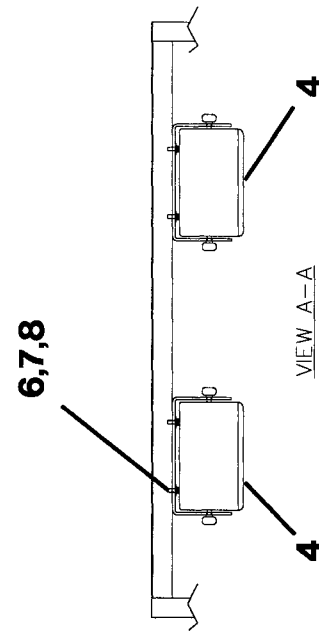
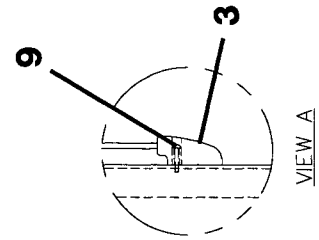
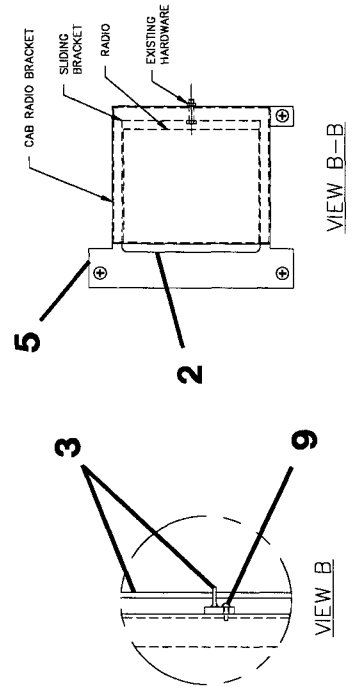
600-95001

**CAB RADIO INSTALLATION**

2.5



600-95003



P-2535

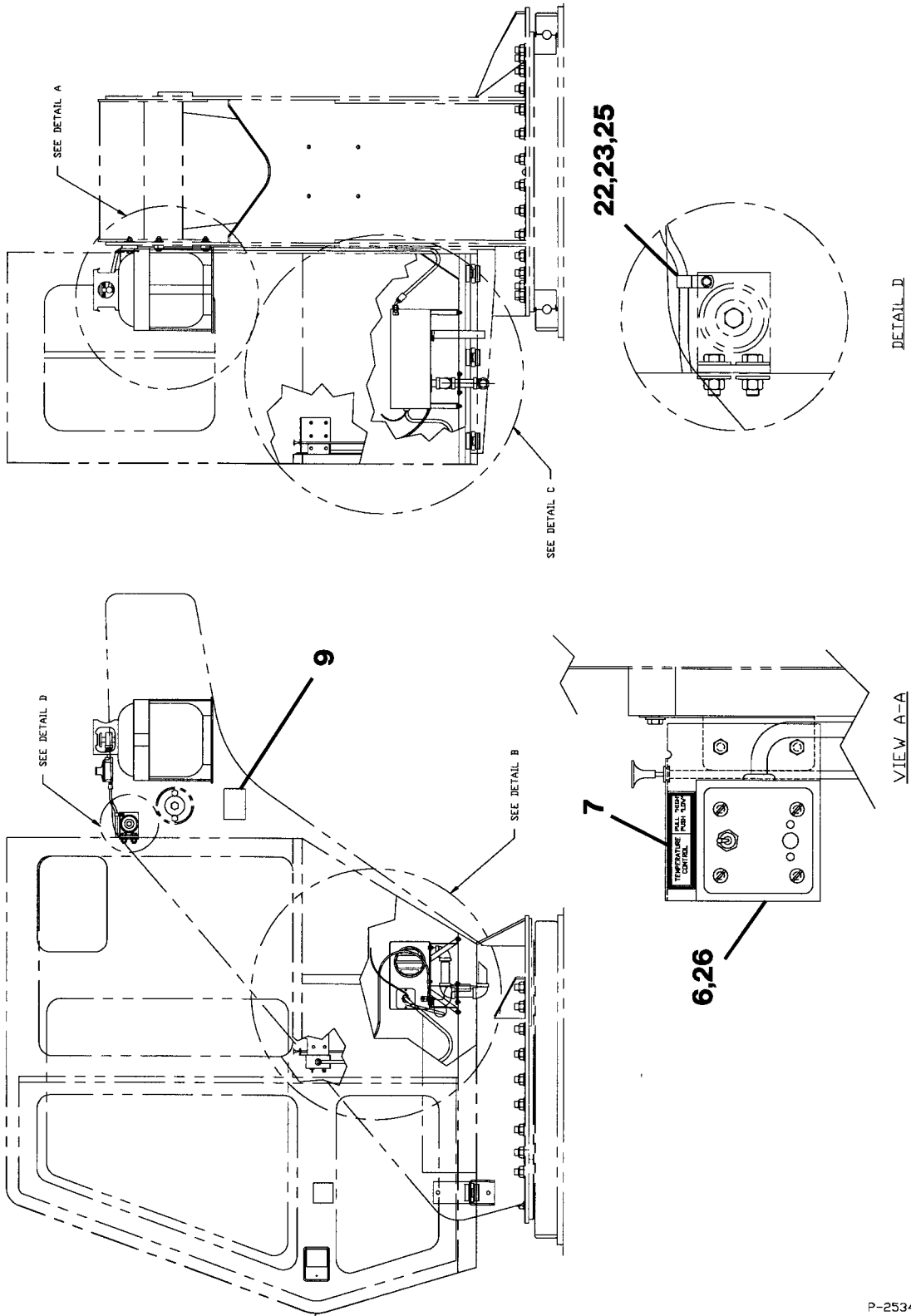
ITEM	PART NUMBER	DESCRIPTION	QTY.
*1	600-92003	.CAB - OPERATOR SUBASSEMBLY (706-00012)	1
**1	600-92004	.CAB - OPERATOR SUBASSEMBLY (706-00014)	1
2	600-93084	.RADIO - PULLOUT	1
3	600-93093	.ANTENNA - RADIO	1
4	600-93094	.SPEAKER - SURFACE MOUNT	2
5	770-02181	.BRACKET - RADIO MOUNT	1
6	223-03101	.SCREW - MACHINE #10 x 1/2" LONG	8
7	222-10006	.WASHER - LOCK #10	8
8	222-00007	.WASHER - FLAT #10	8
9	223-14118	.SCREW - SELF TAP #6 x 3/4" LONG	2
	P-2535		
	*DUAL WINCH - OPTIONAL		
	**SINGLE WINCH - STANDARD		

600-95003

**CAB HEATER INSTALLATION**

2.6

600-95002



ITEM	PART NUMBER	DESCRIPTION	QTY.
*1	600-92003	.CAB - OPERATOR SUBASSEMBLY (706-00012)	1
**1	600-92004	.CAB - OPERATOR SUBASSEMBLY (706-00014)	1
2	600-93078	.HEATER - CAB	1
3	770-02176	.BRACKET - HEATER MOUNTING WELDMENT	1
4	802-01527	.BRACKET - PROPANE TANK WELDMENT	1
5	802-01524	.BOTTLE - PROPANE	1
6	785-01758	.BRACKET - HEATER CONTROLS	1
7	650-00753	.PLACARD - TEMPERATURE CONTROL	1
8	651-00311	.PLACARD - DANGER HOT	1
9	651-00310	.PLACARD - DANGER PROPANE	1
10	600-12046	.HOSE - FLEXIBLE DEFROSTER	1.5'
11	570-35002	.ELBOW - 90°	3
12	570-05044	.NIPPLE - 1 x 4 1/2" LONG	1
13	570-05042	.NIPPLE - 1 x 4" LONG	2
14	502-20870	.HOSE ASSEMBLY - PROPANE HEATER	1
15	223-04012	.SCREW - MACHINE #10 x 1 3/4" LONG	3
16	222-04001	.WASHER - FLAT 1/2	8
17	222-00007	.WASHER - FLAT #10	3
18	221-94002	.NUT - TOPLOCK 1/2	4
19	221-90005	.NUT - TOPLOCK #10	3
20	220-04001	.BOLT 1/2 x 2" LONG	4
21	201-00180	.CLAMP - HOSE	1
22	201-00145	.CLAMP 11/16	1
23	220-00003	.BOLT 1/4 x 3/4" LONG	11
24	221-90001	.NUT - TOPLOCK 1/4	10
25	222-00006	.WASHER - FLAT 1/4	21
26	600-93101	.CONTROL - HEATER REMOTE	1

P-2534

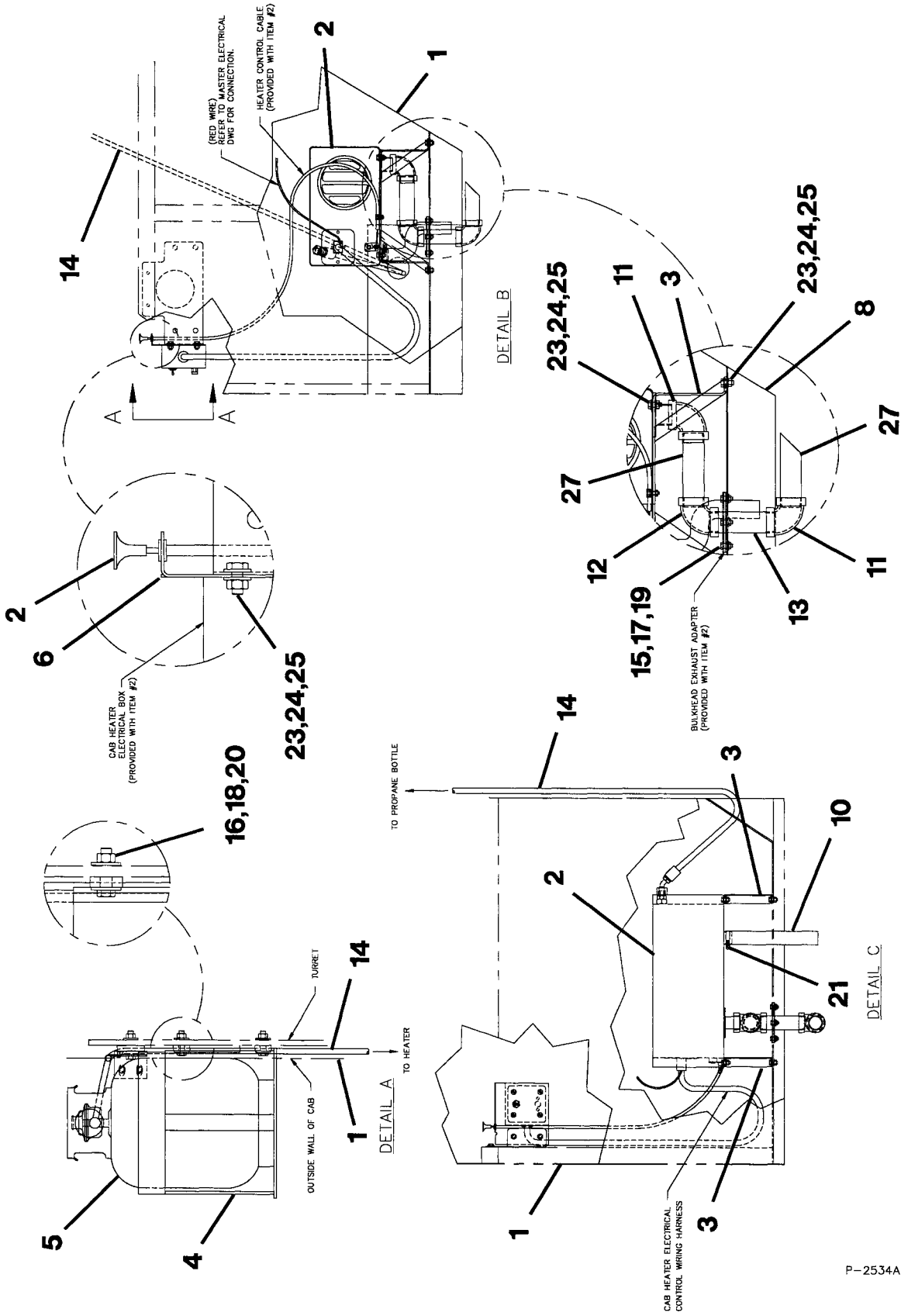
\*DUAL WINCH - OPTIONAL

\*\*SINGLE WINCH - STANDARD

600-95002

# CAB HEATER INSTALLATION

2.6

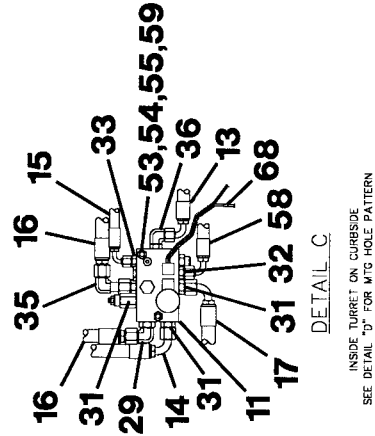
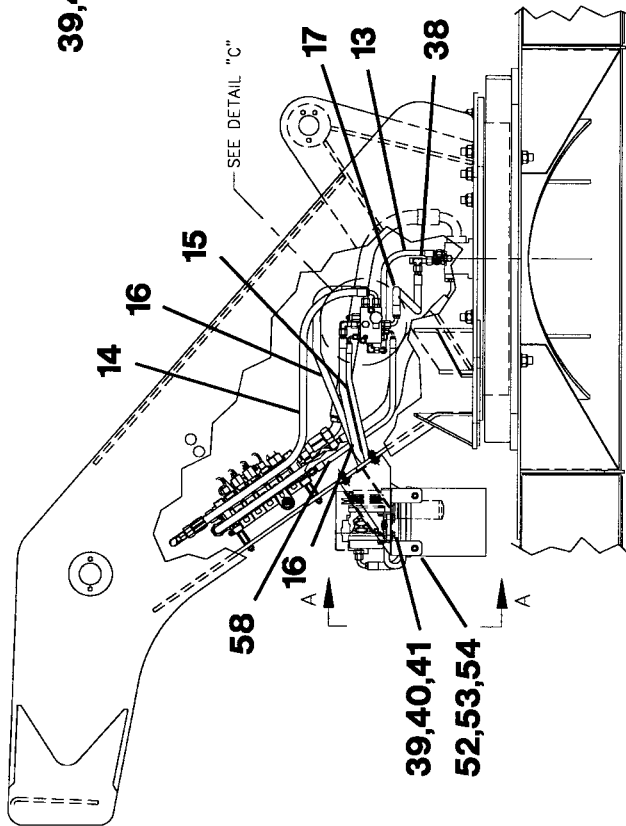
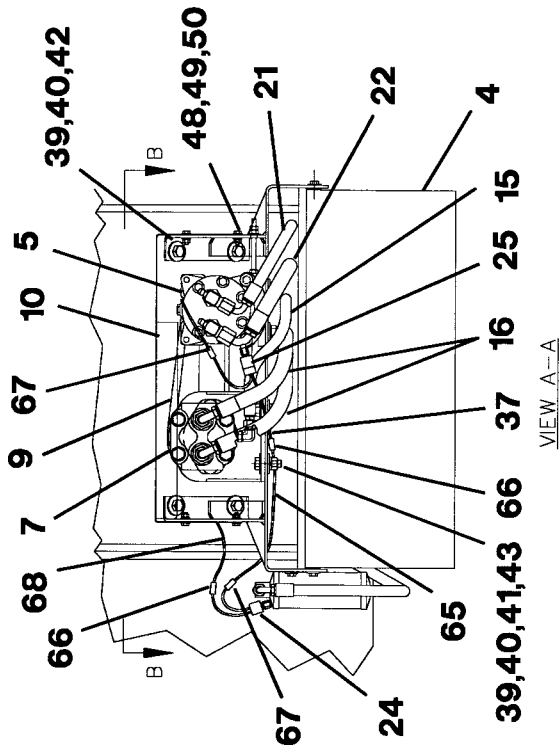
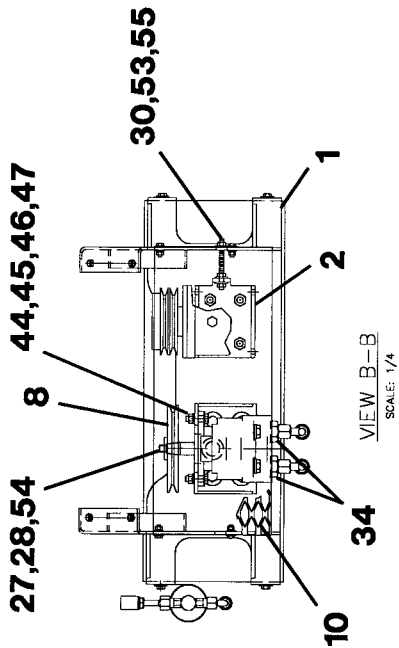


600-95002

P-2534A

**CAB AIR CONDITIONER INSTALLATION**

2.7

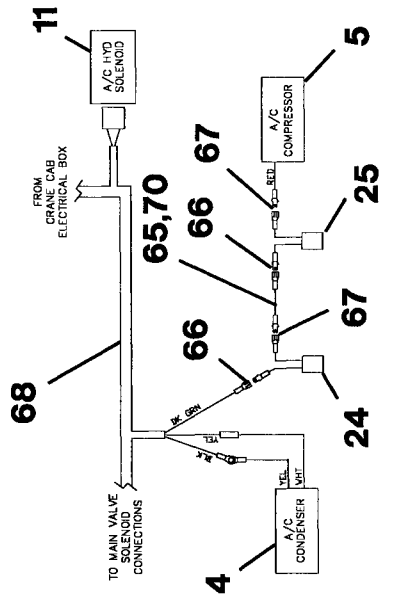
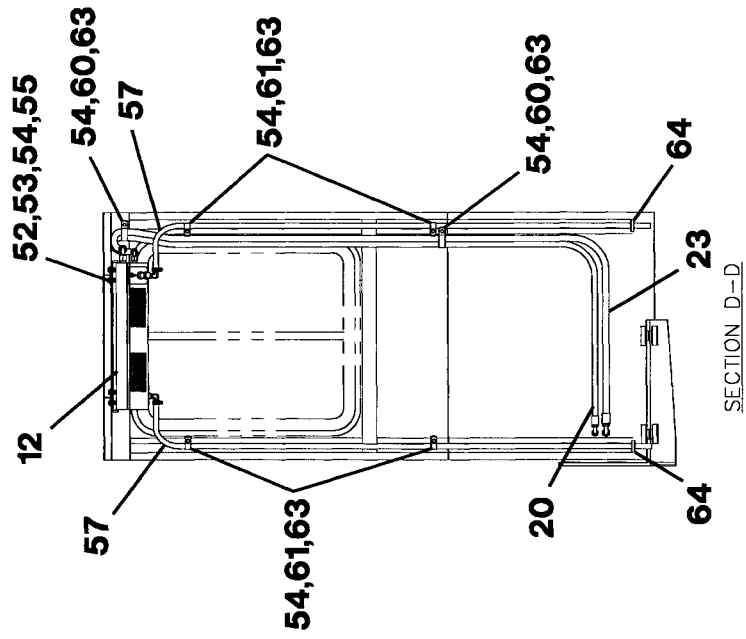
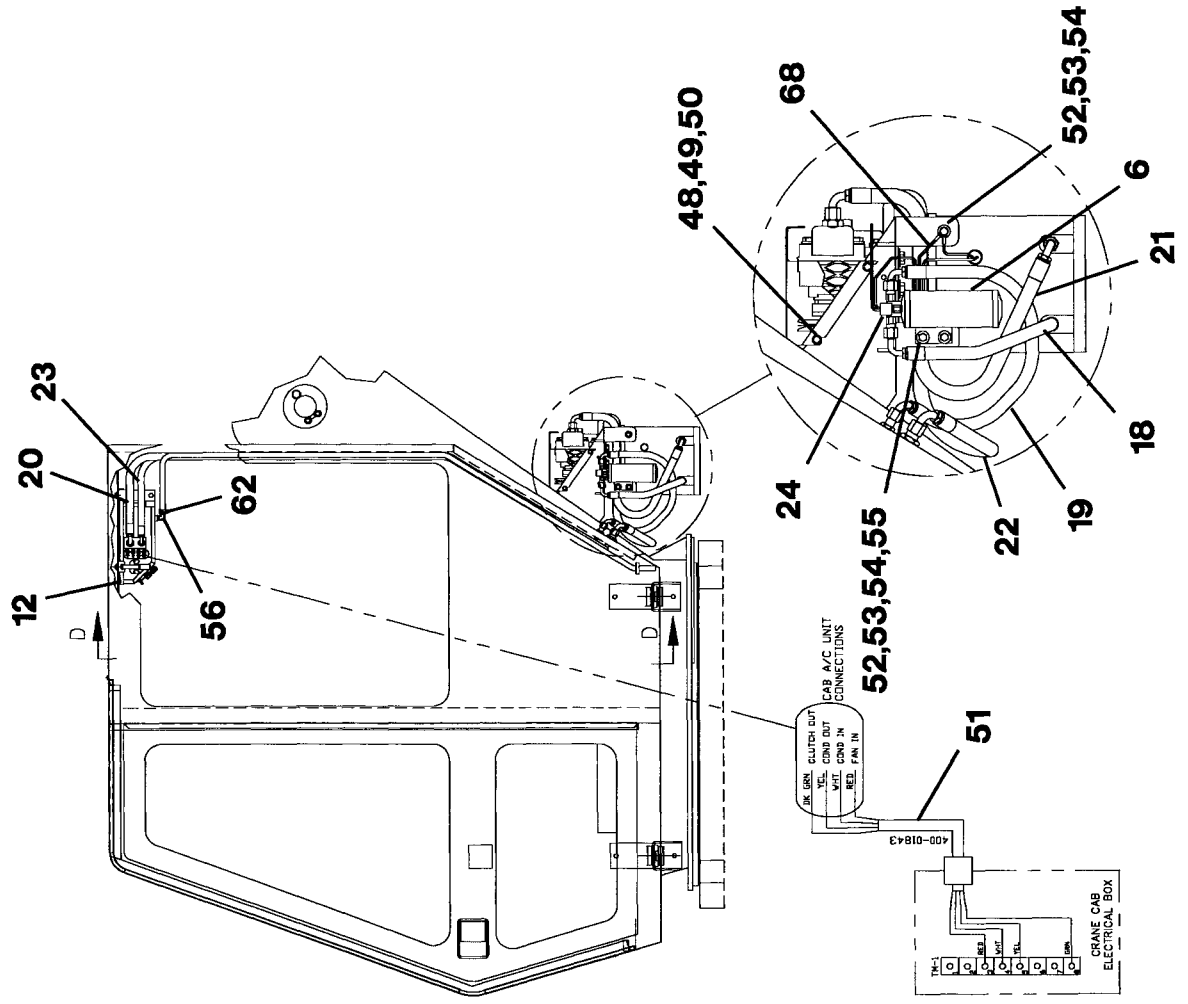


500-01652

P-2514



CAB AIR CONDITIONER INSTALLATION



P-2514A

500-01652

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	770-02127	.BRACKET - A/C MOUNTING WELDMENT	1
2	771-00196	.BRACKET - COMPRESSOR MOUNTING WELDMENT	1
3	770-02126	.BRACKET - A/C MOTOR WELDMENT	1
4	600-93080	.CONDENSER ASSEMBLY	1
5	600-93081	.COMPRESSOR ASSEMBLY	1
6	600-93082	.RECEIVER/DRYER ASSEMBLY	1
7	530-20139	.MOTOR - A/C COMPRESSOR DRIVE	1
8	335-03010	.PULLEY - DRIVE COMPRESSOR	1
9	335-06017	.V-BELT - A/C DRIVE	1
10	802-01523	.GUARD - A/C BELT WELDMENT	1
11	559-00197	.VALVE - A/C HYDRAULIC MOTOR CONTROL ASSEMBLY	1
	551-10126	..COIL - SOLENOID	1
12	600-93079	.A/C - CAB UNIT	1
13	502-20869	.HOSE ASSEMBLY - A/C VALVE L.S.	1
14	502-30574	.HOSE ASSEMBLY - A/C VALVE SUPPLY	1
15	502-11179	.HOSE ASSEMBLY - A/C MOTOR CASE DRAIN	1
16	502-30575	.HOSE ASSEMBLY - A/C MOTOR SUPPLY/RETURN	2
17	502-30639	.HOSE ASSEMBLY - DRAIN CENTERPOST	1
18	502-20880	.HOSE ASSEMBLY - A/C DRYER	1
19	502-20881	.HOSE ASSEMBLY - A/C CONDENSER	1
20	502-20882	.HOSE ASSEMBLY - A/C EVAPORATOR	1
21	502-30649	.HOSE ASSEMBLY - A/C CONDENSER	1
22	502-35051	.HOSE ASSEMBLY - A/C CONDENSER	1
23	502-35052	.HOSE ASSEMBLY - A/C EVAPORATOR	1
24	400-04310	.SWITCH - PRESSURE CUTOUT-HI	1
25	400-04311	.SWITCH - PRESSURE CUTOUT-LO	1
26	400-01843	.HARNESS ASSEMBLY - CRANE CAB A/C	1
27	222-50077	.WASHER - A/C PULLEY	1
28	220-31009	.SCREW - HEX 5/16 x 1 1/2" LONG	1
29	514-55011	.ELBOW - 90°	1
30	229-01009	.STUD 5/16 x 4 1/4:" LONG	1
31	513-50023	.CONNECTOR	3
32	513-40017	.CONNECTOR	1
33	513-20017	.CONNECTOR	1
34	513-50028	.CONNECTOR	2
35	514-67004	.ELBOW - 90°	1
36	514-54004	.ELBOW - 90°	1
37	514-52003	.ELBOW - 90°	1
38	516-85004	.TEE - SWIVEL NUT RUN	1
39	220-04005	.BOLT 1/2 x 1 1/2" LONG	12
40	222-04001	.WASHER - FLAT 1/2	20
41	222-14003	.WASHER - LOCK 1/2	8
42	221-94002	.NUT - TOP LOCK 1/2	4
43	221-04001	.NUT - HEX 1/2	4
44	220-02002	.BOLT 3/8 x 1 1/4" LONG	2
45	222-02005	.WASHER - FLAT 3/8	4
46	222-12001	.WASHER - LOCK 3/8	2
47	221-02001	.NUT - HEX 3/8	2
48	220-00003	.BOLT 1/4 x 3/4" LONG	4
49	222-00006	.WASHER - FLAT 1/4	4
50	222-10005	.WASHER - LOCK 1/4	4
51	400-01843	.HARNESS - CAB A/C CABLE	1

**500-01652**

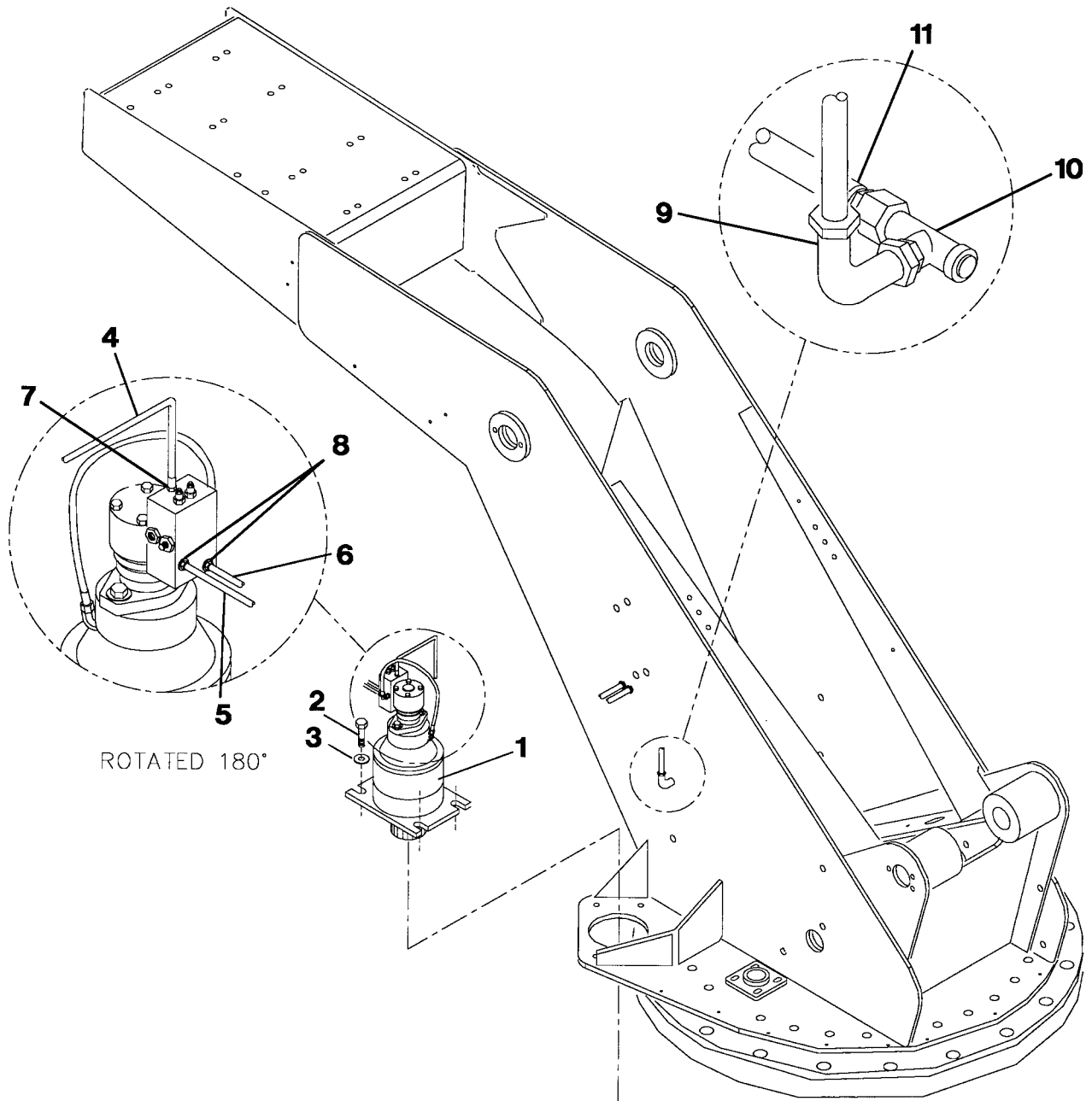
**CAB AIR CONDITIONER INSTALLATION**

ITEM	PART NUMBER	DESCRIPTION	QTY.
52	220-01005	.BOLT 5/16 x 1" LONG	1
53	222-01001	.WASHER - FLAT 5/16	7
54	222-11002	.WASHER - LOCK 5/16	28
55	221-01001	.NUT - HEX 5/16	10
56	570-90082	.ELBOW - 90°	2
57	036-10026	.TUBE - CLEAR	14'
58	502-20866	.HOSE ASSEMBLY - MAIN VALVE/CENTERPOST	1
59	220-01024	.BOLT 5/16 x 4" LONG	2
60	201-00191	.CLAMP - TUBE	2
61	201-00145	.CLAMP - TUBE	4
62	201-00164	.CLAMP - HOSE	2
63	223-15216	.SCREW - MACHINE 5/16 x 5/8" LONG	6
64	209-00007	.GROMMET	2
65	400-01378	.WIRE - BLACK 16 GA	2'
66	400-23362	.TERMINAL - SPADE	2
67	400-23363	.TERMINAL - SPADE	2
68	400-01834	.CABLE HARNESS - MAIN VALVE	1
69	400-15086	.TIE - CABLE	5
70	400-01412	.LOOM - WIRE	4'

P-2514

500-01652

**SWING GEARBOX INSTALLATION**



**705-00015**

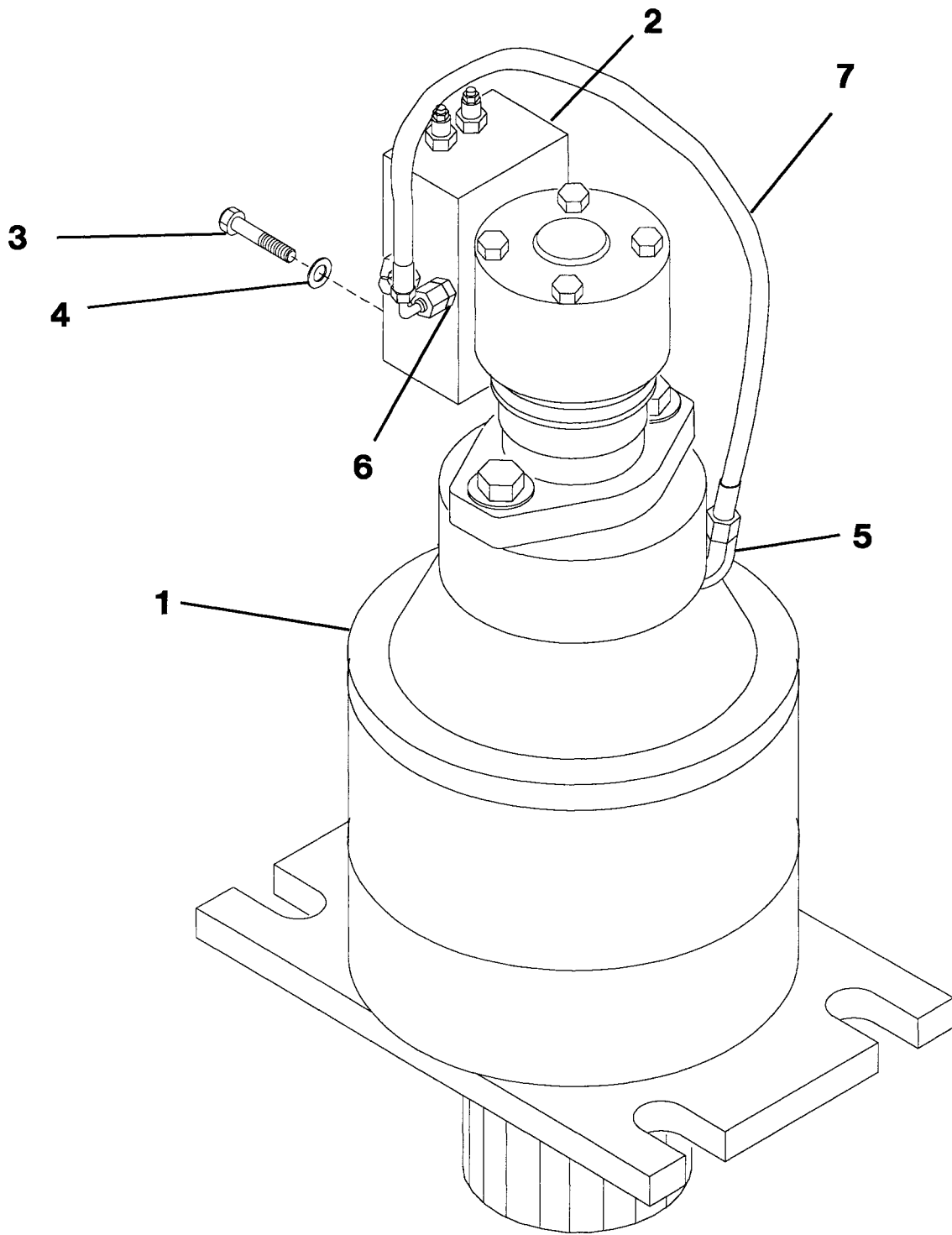
2.10

P-2502.DWG

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	292-00016	.GEARBOX - ROTATION ASSEMBLY	1
2	220-37002	.BOLT 3/4 x 2" LONG	4
3	222-07003	.WASHER - FLAT 3/4	4
4	510-40409	.TUBE - SWING MOTOR ASSEMBLY	1
5	510-50410	.TUBE - SWING V1/BULKHEAD ASSEMBLY	1
6	510-50411	.TUBE - SWING V2/BULKHEAD ASSEMBLY	1
7	513-40017	.CONNECTOR	1
8	513-50023	.CONNECTOR	2
9	518-40008	.ELBOW - 90° BULKHEAD #8	1
10	516-85007	.TEE - BRANCH #8	1
11	502-30638	.HOSE - WINCH VALVE DRAIN ASSEMBLY	1
	P-2502.D		

SWING GEARBOX INSTALLATION

705-00015



**ROTATION GEARBOX ASSEMBLY**

292-00016

2.10.1

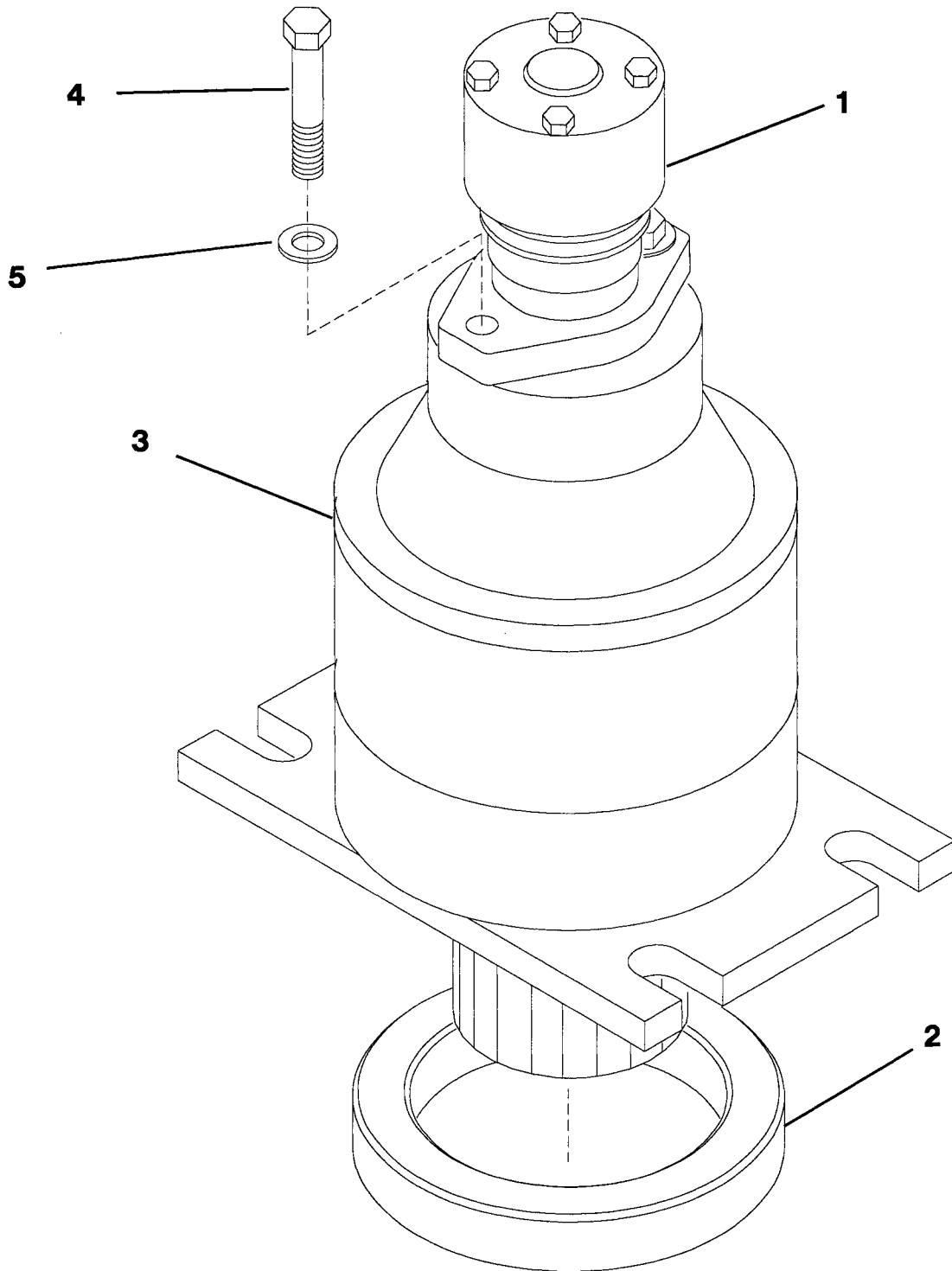
P-2422.DWG

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	292-00020	.GEARBOX - ROTATION SUBASSEMBLY	1
2	552-00063	.VALVE - SWING	1
3	220-01011	.BOLT 5/16 x 3 1/2" LONG	4
4	222-01001	.WASHER - FLAT 5/16	4
5	515-02004	.ELBOW - 45°, #4 OFS	1
6	513-20017	.CONNECTOR - STRAIGHT, #4 OFS	1
7	502-10974	.HOSE - BRAKE RELEASE ASSEMBLY	1

P-2422.D

**292-00016**

2.10.1



**ROTATION GEARBOX SUBASSEMBLY**

**292-00020**

2.10.1.1

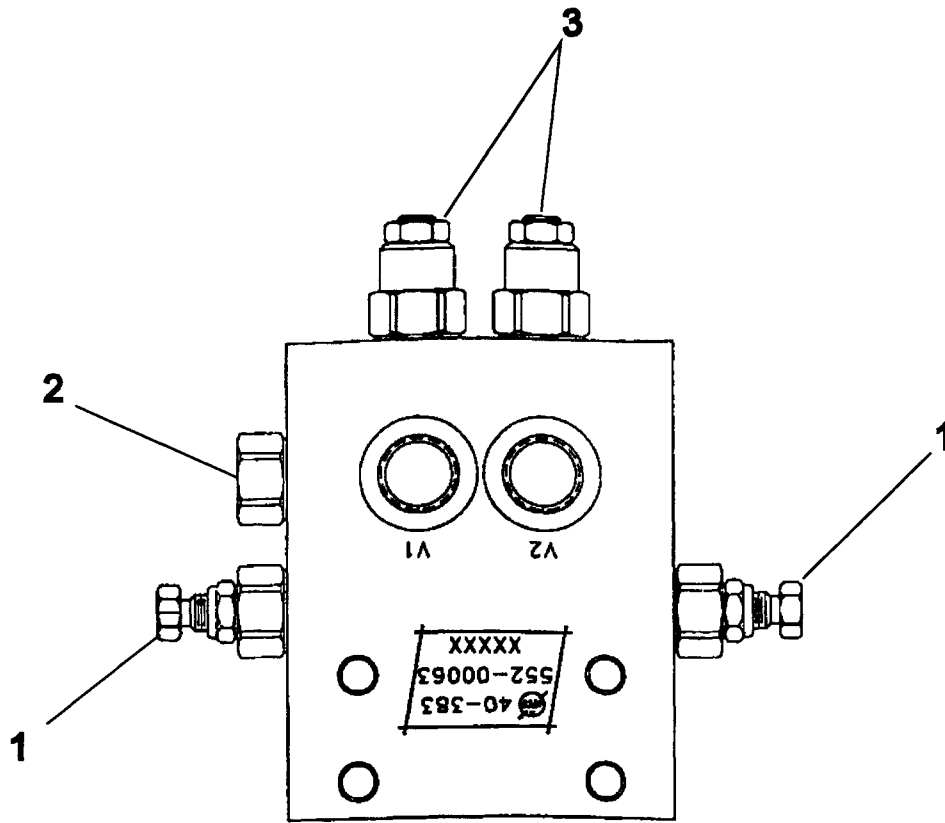
P-2489.DWG



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	530-20135	.MOTOR - SWING	1
2	280-00523	.RING - ECCENTRIC	REF.
3	282-00006	.GEARBOX - ROTATION	1
4	220-04005	.BOLT 1/2 x 1 1/2" LONG	2
5	222-04009	.WASHER - FLAT 1/2	2
	P-2489.D		

292-00020

2.10.1.1



SWING VALVE SUBASSEMBLY

552-00063

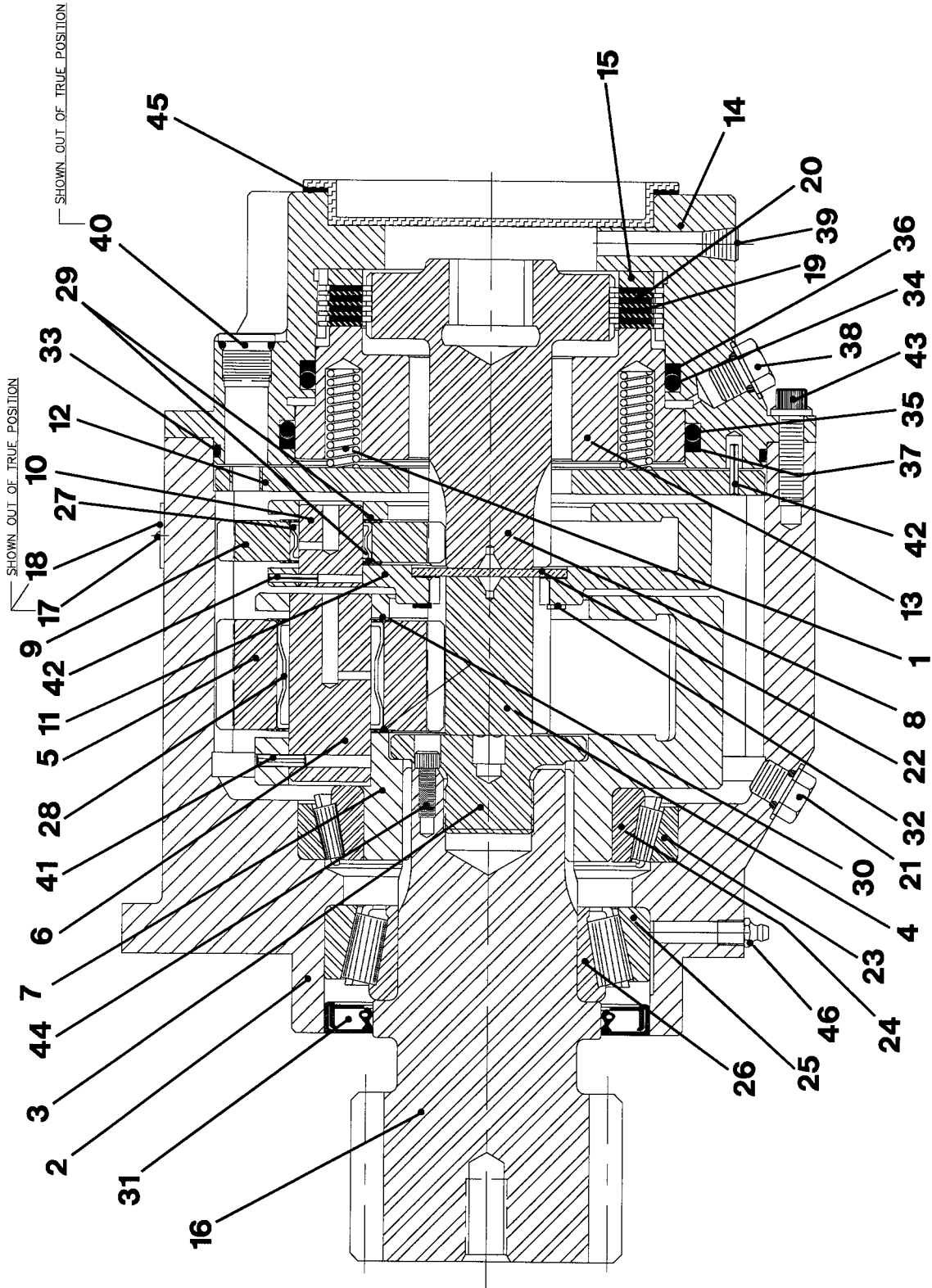
2.10.1.1.2

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	552-00072	.VALVE - SEQUENCE	2
2	552-00073	.VALVE - SHUTTLE	1
3	552-00074 P-2721	.VALVE - COUNTERBALANCE, 3000 PSI	2

552-000063

2.10.1.1.2

**SWING GEARBOX**



282-00006

P-2490.DWG

2.10.1.1.3

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	347-00171	.SPRING - BRAKE	11
2	347-01393	.HOUSING	1
3	347-01394	.BOLT - OUTPUT	1
4	347-01395	.GEAR - SECONDARY SUN	1
5	347-01396	.GEAR - SECONDARY PLANET	3
6	347-01397	.PIN - SECONDARY PLANET	3
7	347-01398	.CARRIER - SECONDARY PLANET	1
8	347-01399	.GEAR - INPUT	1
9	347-01400	.GEAR - PRIMARY PLANET	3
10	347-01401	.PIN - PRIMARY PLANET	3
11	347-01402	.CARRIER - PRIMARY PLANET	1
12	347-01403	.PLATE - SPRING	1
13	347-01404	.PISTON - BRAKE	1
14	347-01405	.HOUSING - BRAKE	1
15	347-01406	.PLATE - BACKUP	1
16	347-01407	.SHAFT - OUTPUT	1
17	347-01201	.DRIVE - SCREW	2
18	347-01377	.LABEL - PLATE	1
19	347-00169	.DISC - REACTION	4
20	347-00170	.DISC - BRAKE	4
21	347-01390	.PLUG - STRAIGHT THREAD	1
22	347-01043	.SPACER	1
23	347-01408	.BEARING - CUP	1
24	347-01409	.BEARING - CONE	1
25	347-01410	.BEARING - CUP	1
26	347-01411	.BEARING - CONE	1
27	347-01412	.BEARING - ROLLER	3
28	347-01413	.BEARING - ROLLER	3
29	347-01303	.WASHER - THRUST TORQUE	6
30	347-01414	.WASHER - THRUST	6
31	347-01415	.SEAL	1
32	347-01416	.RING - SNAP	1
33	347-01038	.O-RING	1
34	347-00173	.O-RING	1
35	347-00174	.O-RING	1
36	347-00175	.RING - BACKUP	1
37	347-00176	.RING - BACKUP	1
38	347-00449	.PLUG - STRAIGHT THREADED	1
39	347-01266	.PLUG - PIPE 1/8	1
40	347-00448	.PLUG - STRAIGHT THREADED	1
41	347-00187	.PIN - ROLL 3/16 x 3/4" LONG	3
42	347-01418	.PIN - ROLL 1/8 x 3/4" LONG	4
43	347-00658	.SCREW - CAP 3/8 x 1 1/4" LONG	8
44	347-01419	.SCREW - CAP 1/4 x 5/8" LONG	1
45	347-00024	.GASKET - HYDRAULIC MOTOR	1
46	347-00260	.ZERK	1

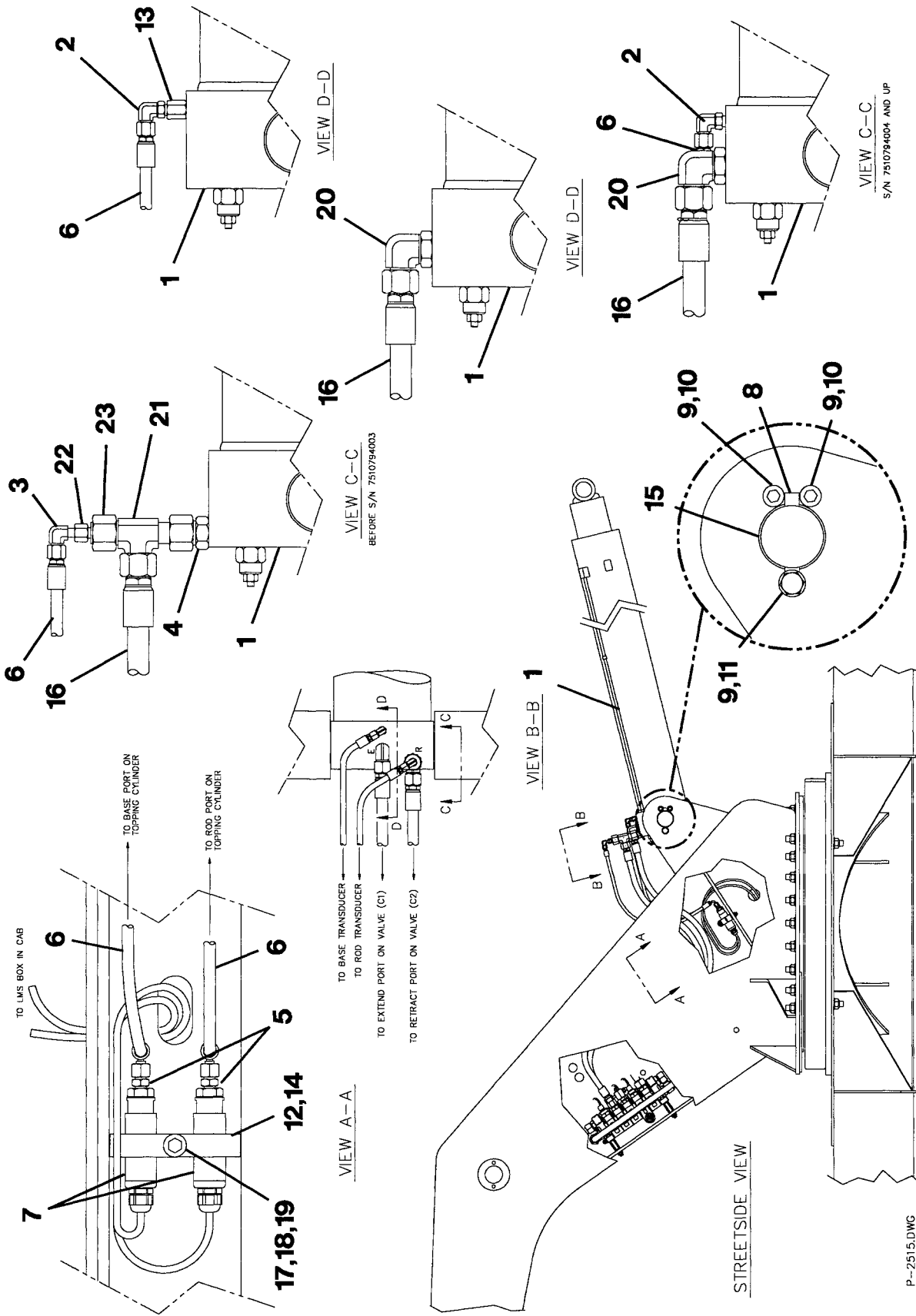
P-2490.D

282-00006

2.10.1.1.3

# TOPPING CYLINDER INSTALLATION

2.11



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	540-90067	.CYLINDER - TOPPING (SEE 2.11.1)	1
*2	514-52005	.ELBOW - 90°	1
**3	514-52003	.ELBOW - 90°	1
**4	513-70022	.CONNECTOR - STRAIGHT	1
5	513-20017	.CONNECTOR - STRAIGHT	2
6	502-11172	.HOSE - TRANSDUCER/TOPPING CYLINDER	2
7	400-05394	.TRANSDUCER - PRESSURE MOD.	2
8	224-26005	.ROD END - 5/8 x 4 1/2" LONG	1
9	222-16003	.WASHER - LOCK 5/8	3
10	220-36010	.BOLT 5/8 x 3/4" LONG	2
11	220-06037	.BOLT 5/8 x 1 1/2" LONG	1
12	201-00224	.CLAMP - PRESSURE TRANSDUCER	2
13	552-10198	.FUSE - VELOCITY	1
14	789-04487	.BAR - CLAMP REINFORCEMENT	1
15	870-80010	.PIN - TOPPING CYLINDER BASE	1
16	502-40829	.HOSE - TOPPING CYLINDER	2
17	220-02008	.BOLT 3/8 x 3 1/2" LONG	1
18	221-92001	.NUT - TOPLOCK 3/8	1
19	222-02005	.WASHER - FLAT 3/8	2
*20	514-57011	.ELBOW - 90°	1
**21	516-87006	.TEE - SN RUN	1
**22	519-70034	.REDUCER	1
**23	511-70004	.NUT - TUBE	1

P-2515

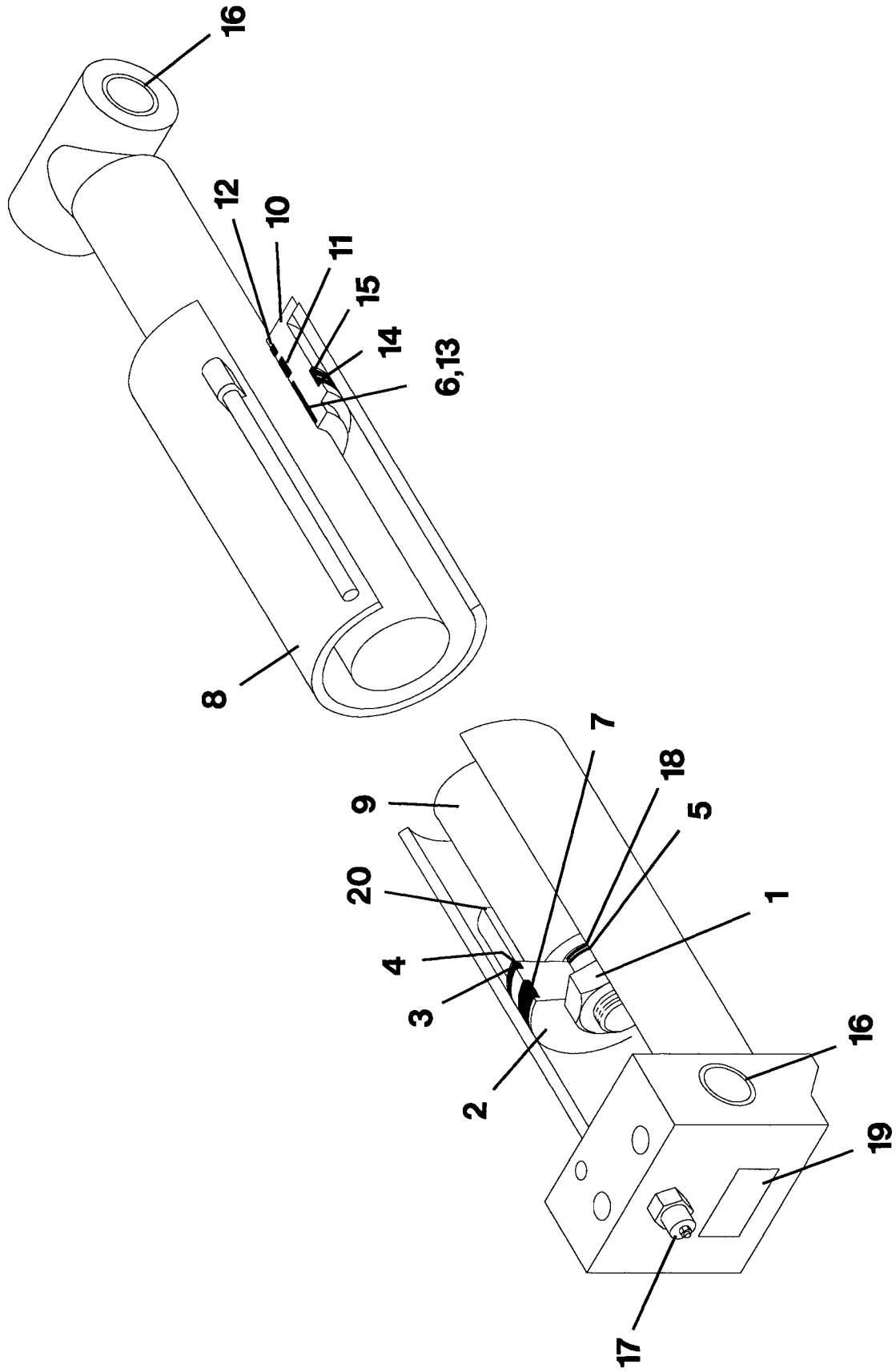
\*QUANTITY (2) FOR UNITS S/N 7510794004 AND UP.

\*\*USED ONLY ON UNITS S/N 7510794001 TO 7510794003.

548-00037

**TOPPING CYLINDER ASSEMBLY**

2.11.1



540-90067

P-2418.DWG



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	830-00081	.LOCKNUT	1
2	830-00290	.PISTON	1
*3	830-00158	.PISTON SEAL	1
*4	830-00159	.O-RING	1
*5	830-00160	.BACK-UP	2
*6	830-00291	.RING - ROD WEAR	2
*7	830-00162	.RING - PISTON WEAR	2
8	830-00298	.CASE WELDMENT	1
9	830-00292	.ROD WELDMENT	1
10	830-00293	.HEAD	1
*11	830-00294	.SEAL - ROD	1
*12	830-00295	.WIPER - ROD	1
*13	830-00296	.RING - ROD WEAR	1
*14	830-00169	.O-RING	1
*15	830-00170	.BACK-UP	1
16	830-00171	.BUSHING	4
**17	552-00114	.VALVE - COUNTERBALANCE	1
*18	830-00172	.O-RING	1
19	830-00200	.TAG - ID	1
20	830-00297	.SPACER	1

P-2418.D

\*ITEMS INCLUDED IN SEAL KIT #268-90148

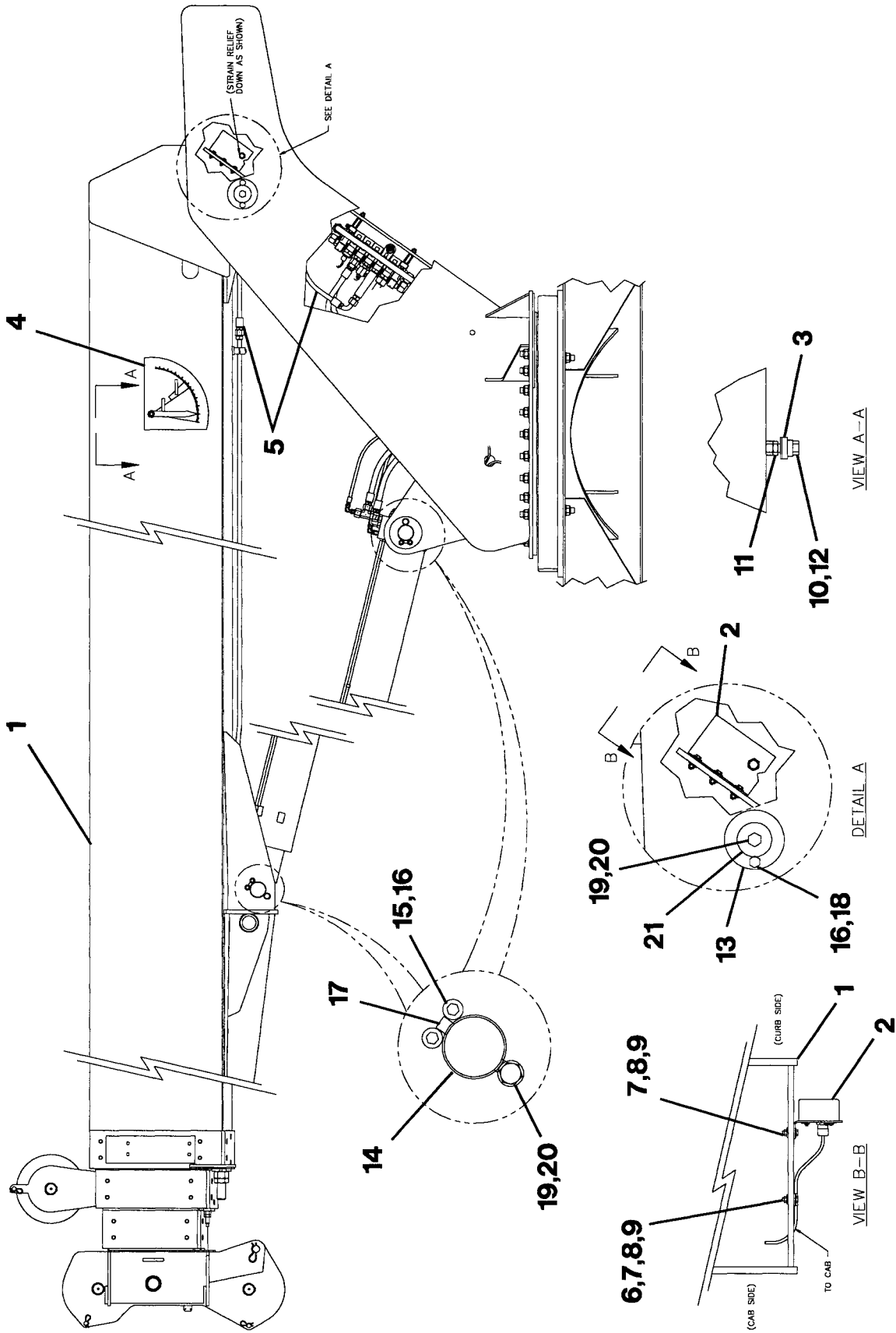
\*\*SEAL KIT #059-00017

540-90067

2.11.1

**BOOM INSTALLATION**

3.0



720-00886

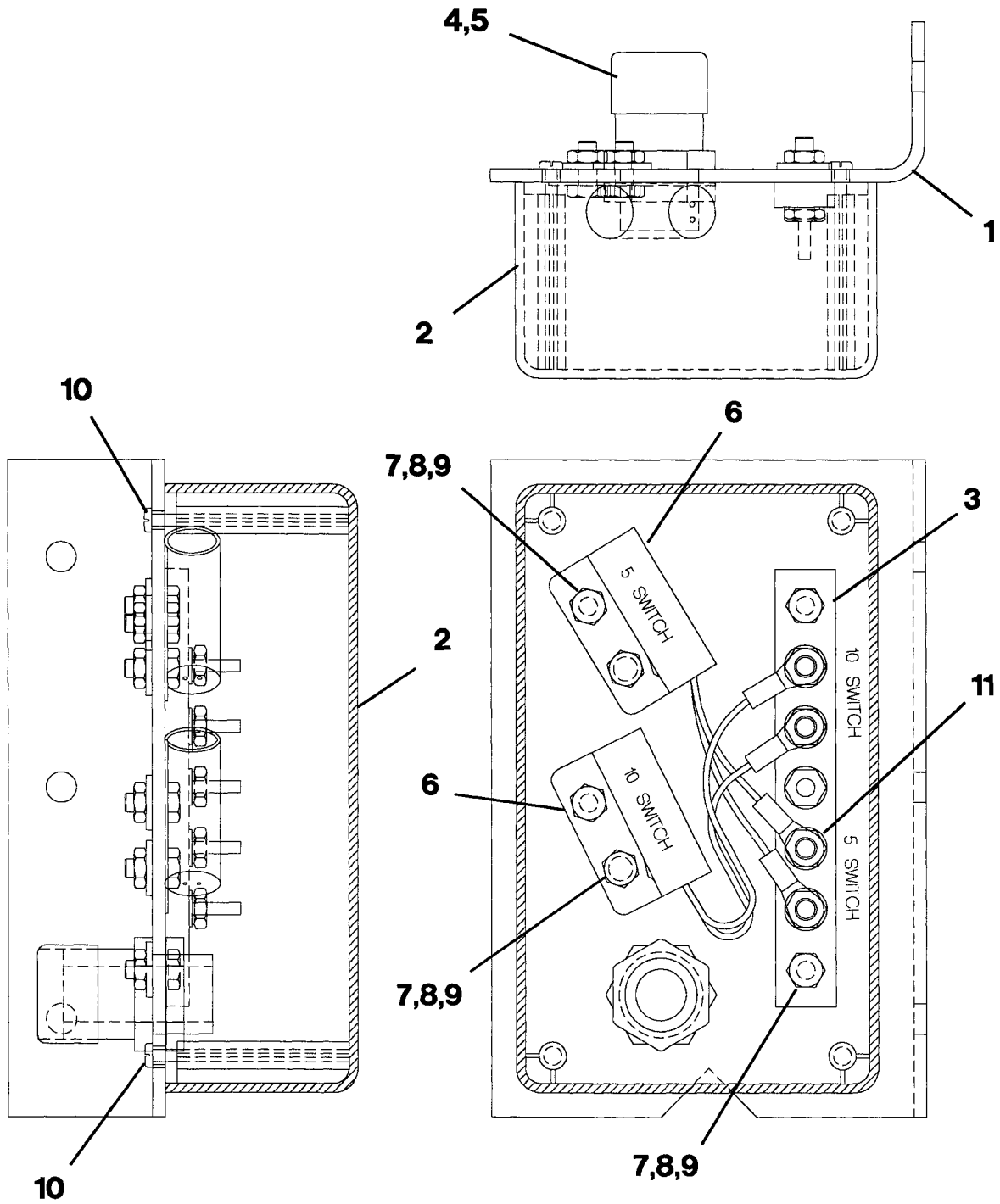
P-2519.DWG

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	721-00180	.BOOM - SUBASSEMBLY	1
2	400-00945	.SWITCH BOX - BOOM ANGLE ASSEMBLY (SEE 3.0.1)	1
3	729-02151	.POINTER - BOOM ANGLE ASSEMBLY	1
4	653-00300	.PLACARD - BOOM ANGLE L/H	1
5	502-40830	.HOSE ASSEMBLY - TELESCOPE-VALVE/TUBE	2
6	201-00162	.CLAMP - TUBE 5/16	1
7	222-01001	.WASHER - FLAT 5/16	8
8	221-91001	.NUT - TOPLOCK 5/16	4
9	220-01003	.BOLT 5/16 x 1 1/4" LONG	4
10	220-03004	.BOLT 7/16 x 1 1/4" LONG	1
11	221-03001	.NUT - HEX 7/16	1
12	222-03002	.WASHER - FLAT 7/16	1
13	789-04452	.PLATE - PIN RETAINER	1
14	870-90031	.PIN - 2 3/4" DIA.	1
15	220-36010	.BOLT 5/8 x 3/4" LONG	4
16	222-16003	.WASHER - LOCK 5/8	4
17	224-26005	.ROD END - 5/8 DIA	2
18	220-06037	.BOLT 5/8 x 1 1/2" LONG	2
19	220-07006	.BOLT 3/4 x 2" LONG	1
20	222-17001	.WASHER - LOCK 3/4	1
21	870-80010	.PIN - 2 3/4" DIA	2

P-2519

720-00886

**BOOM ANGLE SWITCH SUBASSEMBLY**



400-00945

3.0.1

P-2497DWG

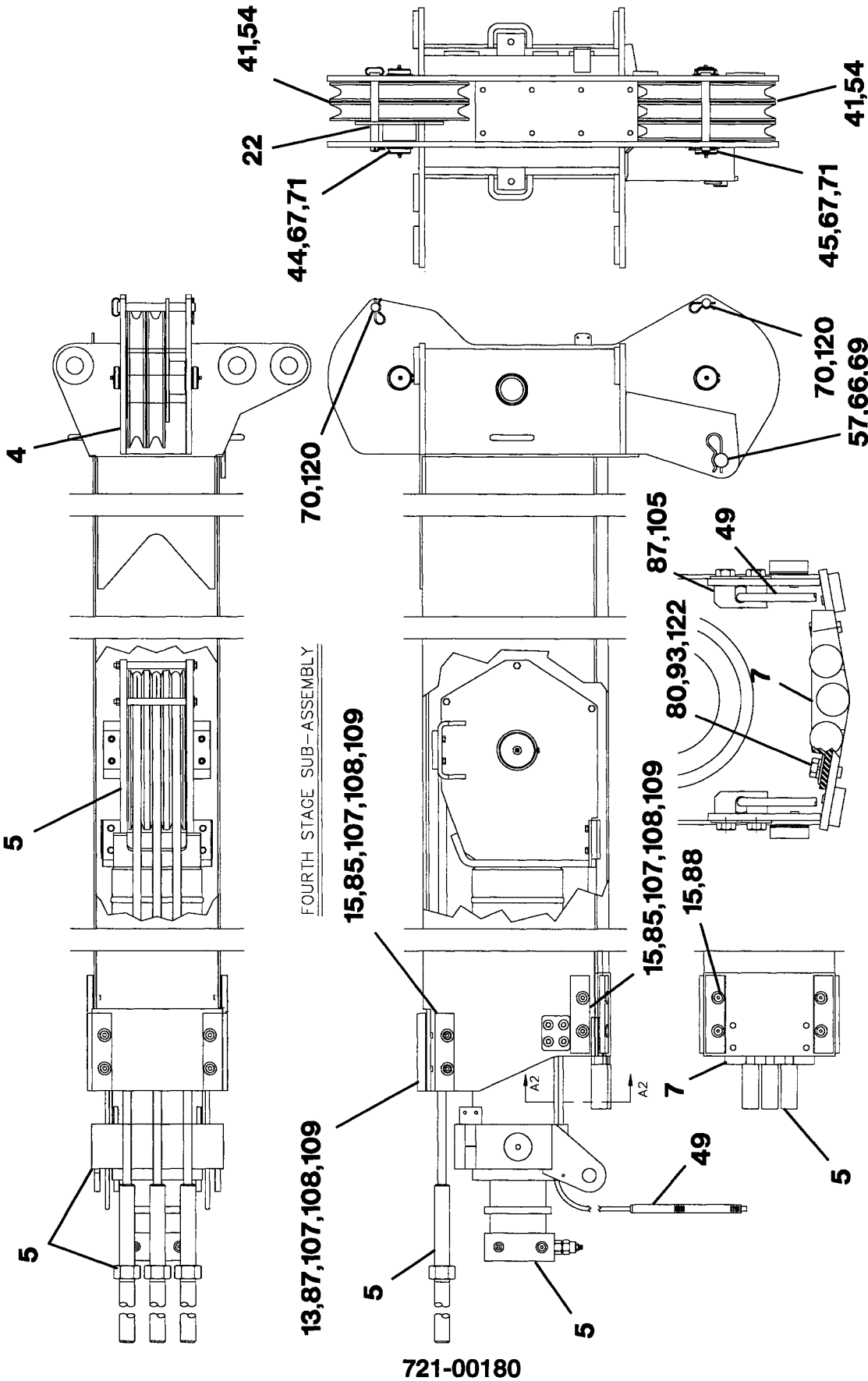
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1	770-02105	.BRACKET - SWITCH BOX	1
2	400-05372	.ENCLOSURE - ELECTRICAL	1
3	400-03011	.STRIP - TERMINAL 5-POST	1
4	400-15066	.RELIEF - STRAIN 1/2	1
5	400-15054	.NUT - STRAIN RELIEF	1
6	400-05221	.SWITCH - ENCLOSED MERCURY W/BRACKET	2
7	223-04002	.SCREW - HEX HEAD MACHINE #10 x 3/4" LONG	6
8	222-00007	.WASHER - FLAT #10	6
9	221-90005	.NUT - TOPLOCK #10	6
10	223-14118	.SCREW - PAN HEAD MACHINE #6 x 3/4" LONG	4
11	400-02325	.RING - TERMINAL #10	4
	P-2497.D		

400-00945

3.0.1

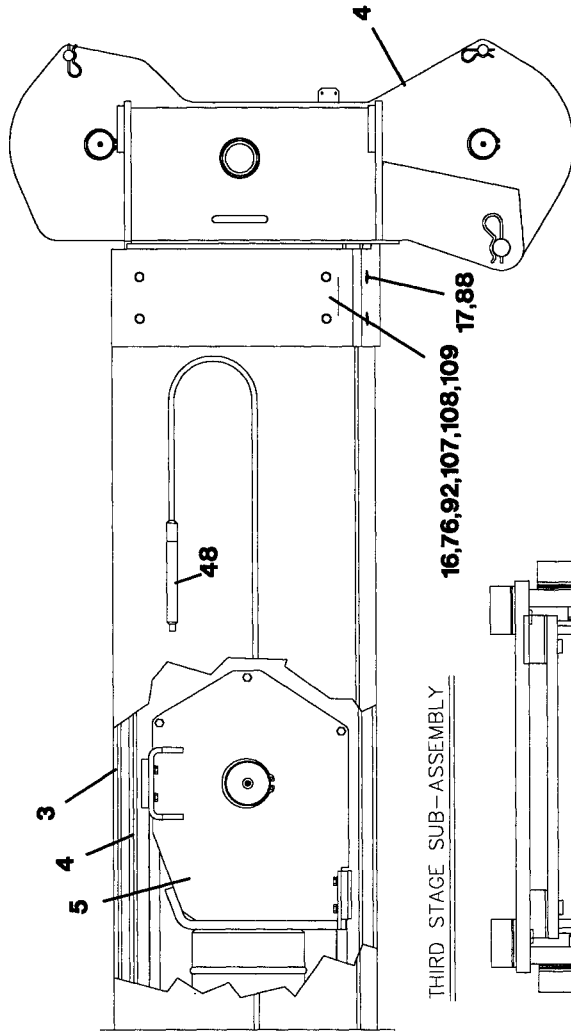
**BOOM SUBASSEMBLY**

3.1

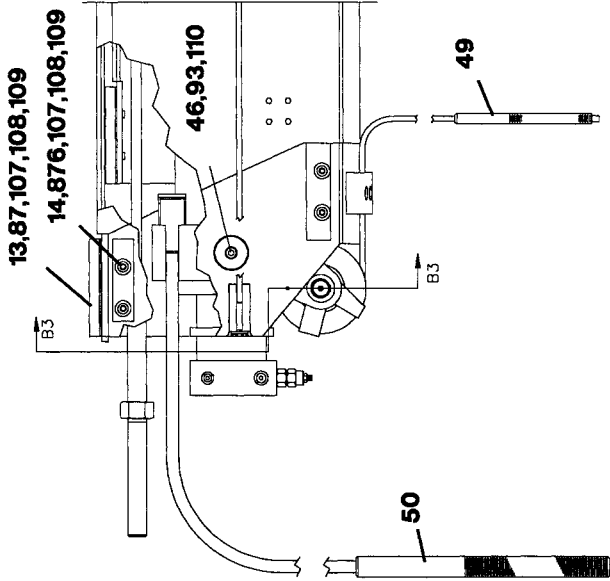
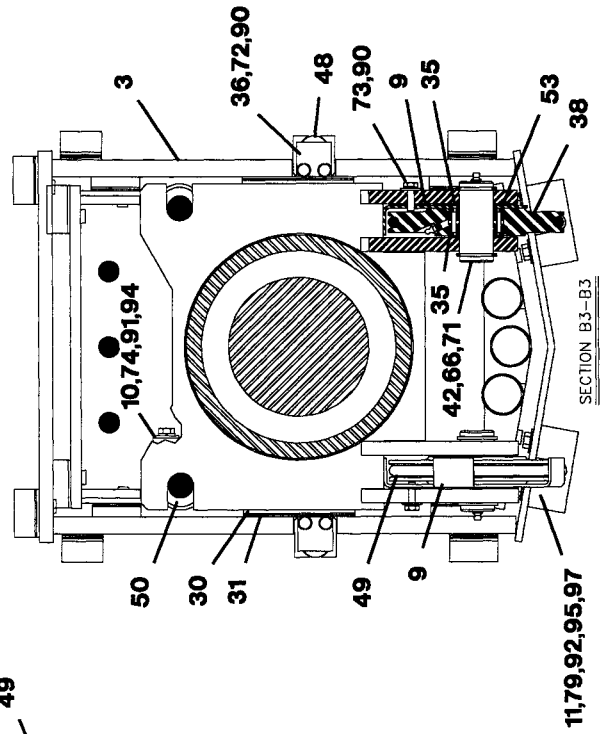


SECTION A2-A2

P-2521.DWG



THIRD STAGE SUB-ASSEMBLY

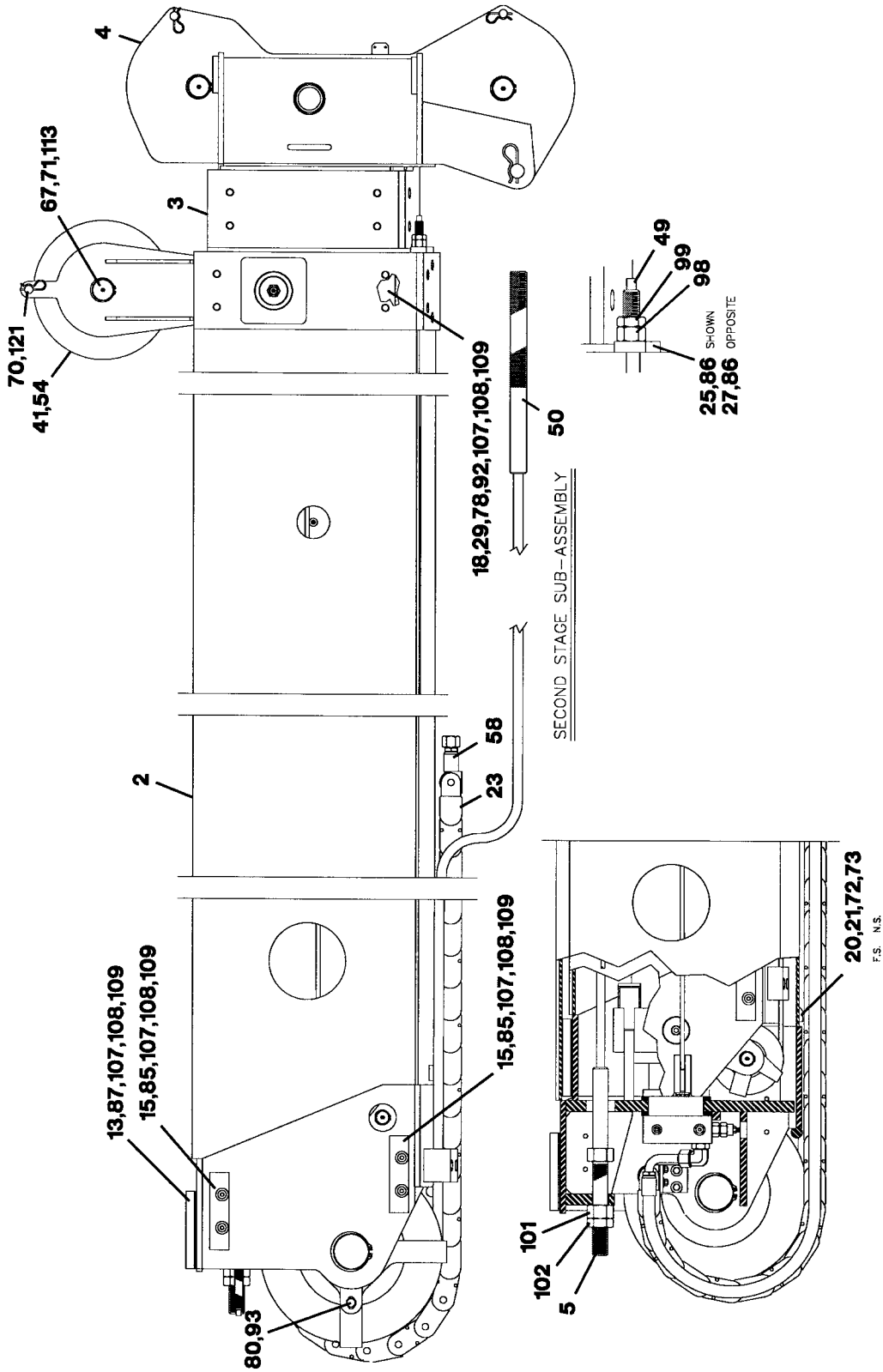


721-00180

P-2521A.DWG

# BOOM SUBASSEMBLY

3.1



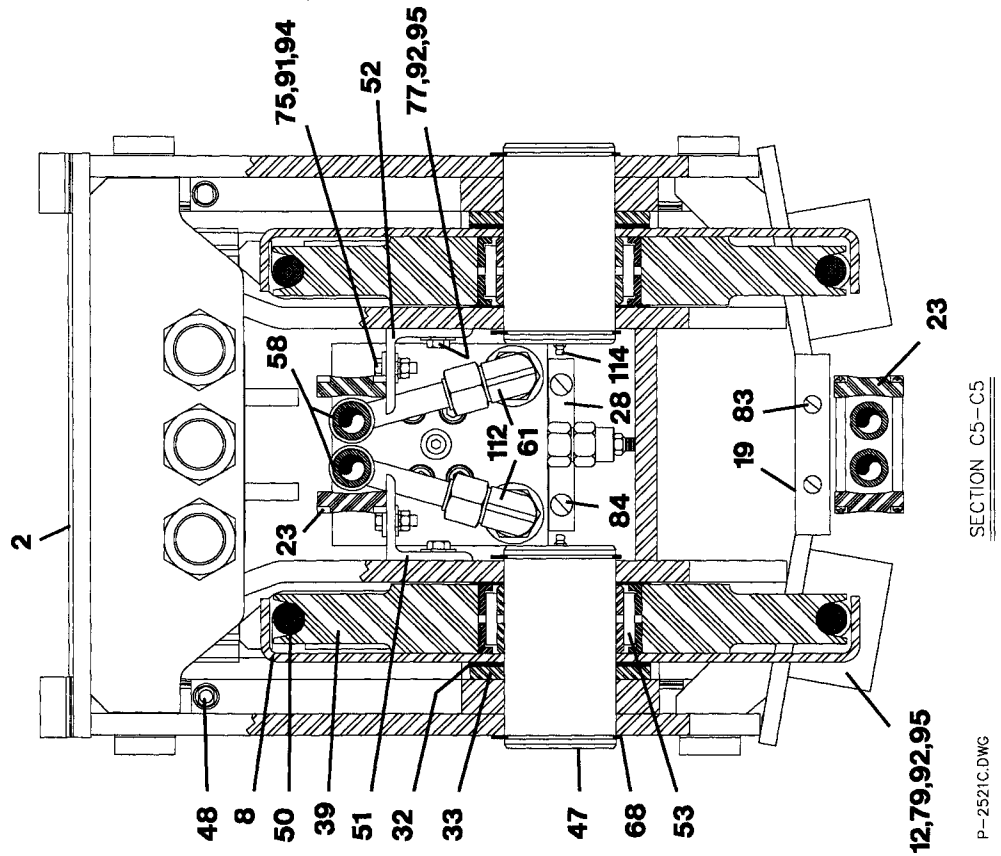
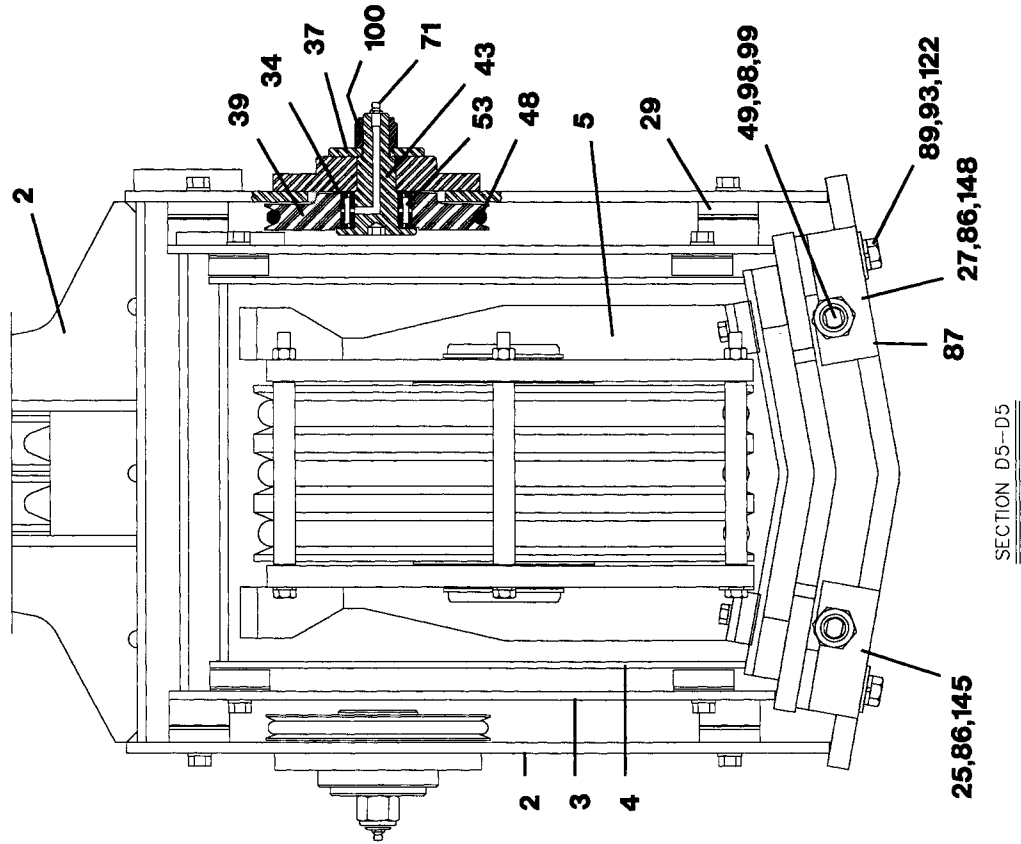
721-00180

PARTIAL CUT AWAY OF SECOND STAGE SUB-ASSEMBLY

P-2521B.DWG



**BOOM SUBASSEMBLY**

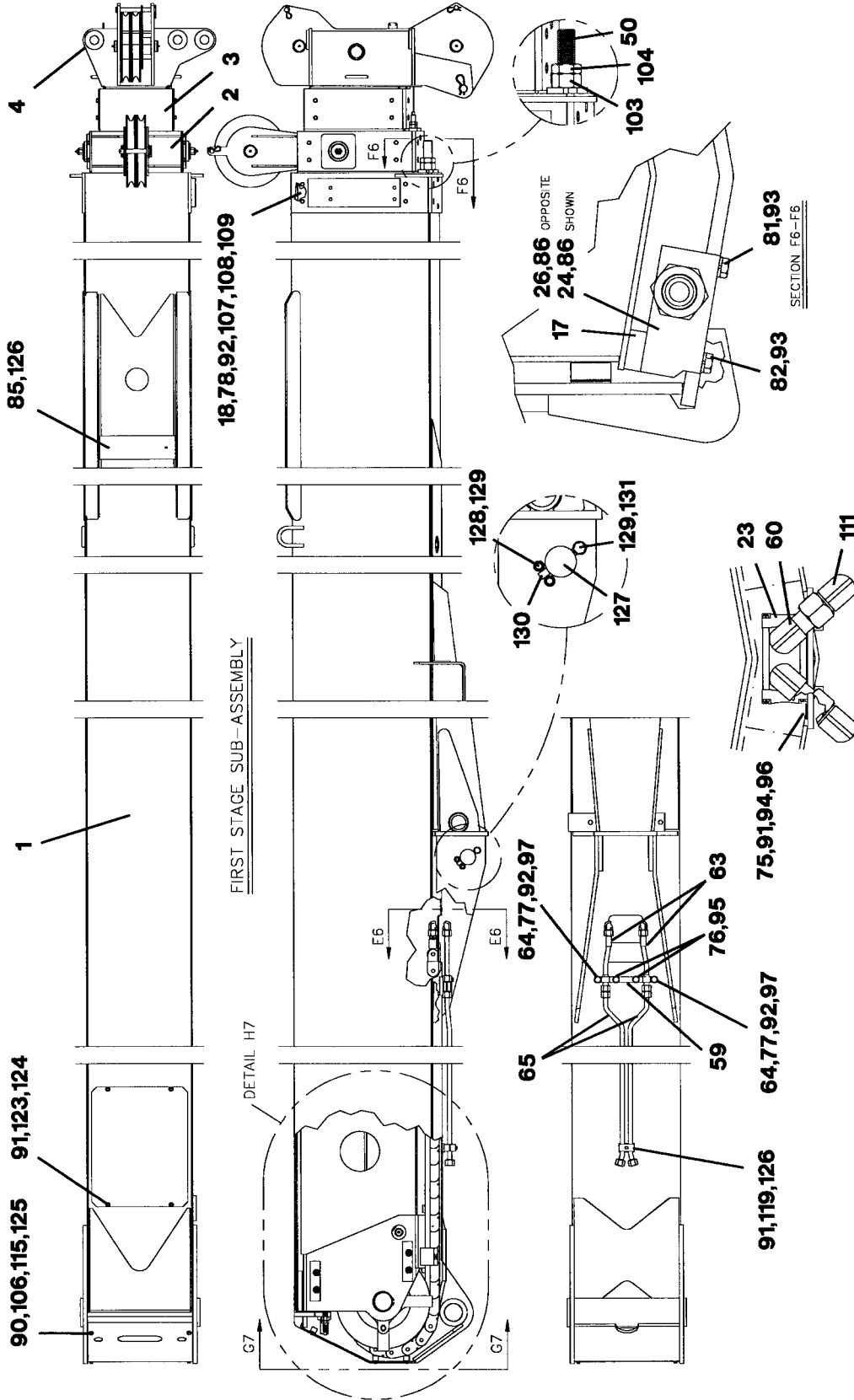


P-2521C.DWG

721-00180

# BOOM SUBASSEMBLY

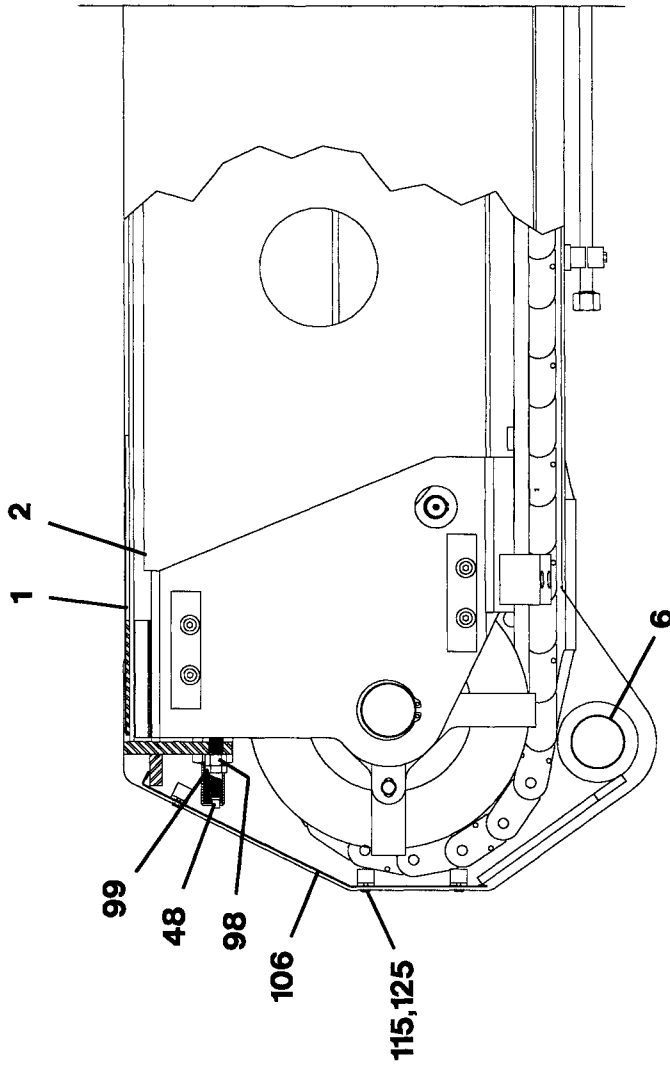
3.1



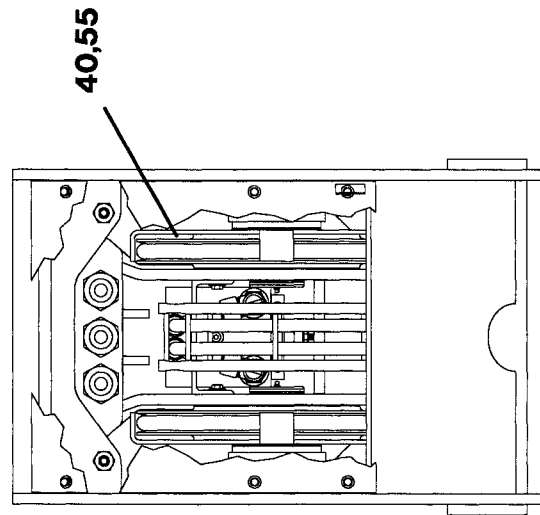
721-00180

SECTION E6-E6

P-2521D



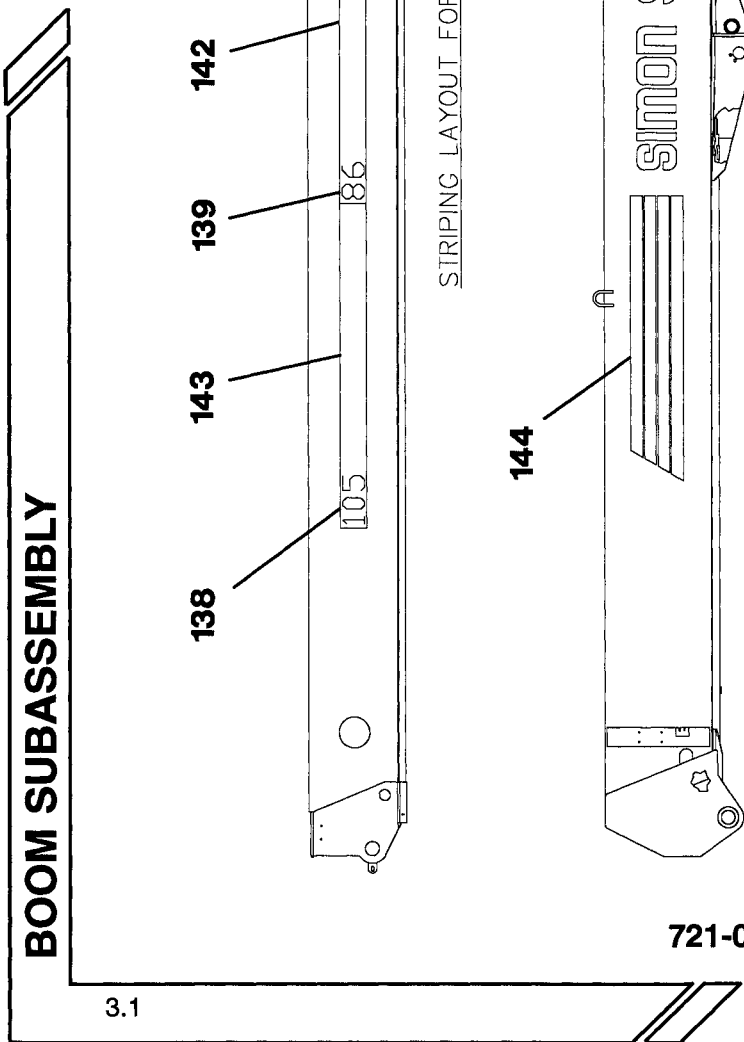
DETAIL H7



SECTION G7-G7

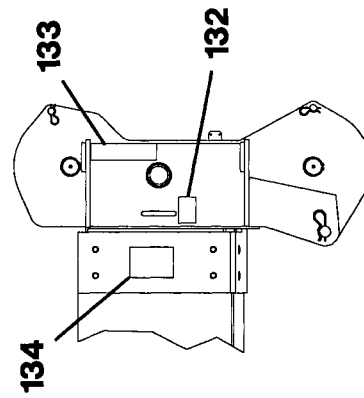
721-00180

P-2521E.DWG



STRIPING LAYOUT FOR 2ND STAGE BOOM

STRIPING LAYOUT FOR BASE BOOM



PLACARD LOCATIONS

721-00180

P-2521F.DWG

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	722-01208	.BOOM WELDMENT - BASE	1
2	722-01209	.BOOM WELDMENT - SECOND STAGE	1
3	722-01210	.BOOM WELDMENT - THIRD STAGE	1
4	722-01211	.BOOM WELDMENT - FOURTH STAGE	1
5	548-00036	.CYLINDER - EXTENSION ASSEMBLY	1
6	271-19019	.BEARING - JOURNAL	2
7	100-10077	.ANCHOR - 3 ROPE CABLE	1
8	729-02556	.RETAINER - 7/8 ROPE CABLE	2
9	729-02484	.RETAINER - 3/8 ROPE CABLE	2
10	729-02485	.REAINER - 7/8 ROPE CABLE	2
11	729-02486	.GUIDE - 3/8 ROPE CABLE	2
12	729-02487	.GUIDE - 7/8 CABLE ROPE	2
13	729-02490	.WEAR PAD - 3/4 THICK	6
14	729-02236	.WEAR PAD - 3/4 THICK	4
15	729-02488	.WEAR PAD - 1/2 THICK	10
16	729-02506	.WEAR PAD - 1/2 THICK	4
17	729-02507	.WEAR PAD - 3/4 THICK	6
18	729-02235	.WEAR PAD - 3/4 THICK	8
19	729-02509	.WEAR BAR - HOSE TRACK	1
20	729-02510	.WEAR BAR - HOSE TRACK L/H	1
21	729-02511	.WEAR BAR - HOSE TRACK R/H	1
22	729-02516	.SPACER - BOOM TIP WELDMENT	1
23	730-90260	.HOSE TRACK - EXTENSION CYLINDER	1
	055-00079	..LINK - 6" SECTION	REF
24	780-00301	.SUPPORT - CABLE ANCHOR PLATE (2ND)	2
25	780-00300	.SUPPORT - CABLE ANCHOR PLATE (BASE)	2
26	780-00290	.SUPPORT - CABLE ANCHOR BLOCK (2ND)	2
27	780-00289	.SUPPORT - CABLE ANCHOR BLOCK (BASE)	2
28	783-03230	.BAR - STOP	1
29	787-00277	.SHIM - WEAR PAD	A/R
30	787-00278	.SHIM - TRUNNION 10 GA	A/R
31	787-00279	.SHIM - TRUNNION 16 GA	A/R
32	787-00281	.SHIM - EXTENSION SHEAVE 18 GA	A/R
33	787-00282	.SHIM - EXTENSION SHEAVE 3/8	A/R
34	787-00283	.SHIM - RETRACT SHEAVE 16 GA	A/R
35	222-29004	.BUSHING - MACHINE	4
36	789-04303	.PLATE - RETAINER	2
37	789-04310	.PLATE - BEARING RETAINER	2
38	860-20011	.SHEAVE ASSEMBLY - 3/8 ROPE	2
39	860-40074	.SHEAVE ASSEMBLY - 3/8 ROPE OFFSET	2
40	860-60008	.SHEAVE ASSEMBLY - 7/8 ROPE	2
41	860-70008	.SHEAVE ASSEMBLY - 5/8 ROPE	7
42	870-30214	.PIN - 1 1/4	2
43	870-30215	.PIN - 1 1/4	2
44	870-60210	.PIN - 2	1
45	870-60214	.PIN - 2	1
46	870-80007	.PIN - 2 1/2 TRUNNION	2
47	870-90034	.PIN - 3 1/4	2
48	861-14013	.WIRE ROPE ASSEMBLY - 3/8 x 733 3/16" LONG	2
49	861-14014	.WIRE ROPE ASSEMBLY - 3/8 x 383 3/16" LONG	2
50	861-17038	.WIRE ROPE ASSEMBLY - 7/8 x 409 5/16" LONG	2
51	785-01819	.ANGLE - TRACK MOUNTING L/H	1

721-00180

ITEM	PART NUMBER	DESCRIPTION	QTY.
52	785-01820	.ANGLE - TRACK MOUNTING R/H	1
53	274-20004	.BEARING - INNER RACE	4
54	274-30006	.BEARING - INNER RACE	7
55	274-40009	.BEARING - INNER RACE	2
56	780-00303	.SUPPORT BLOCK - CABLE ANCHOR END PLATE	1
57	870-30213	.PIN - AUXILIARY SHEAVE 1 1/4"	1
58	502-40824	.HOSE ASSEMBLY 3/4"	2
59	783-03417	.BAR - BOOM HOSE SUPPORT	1
60	514-67004	.CONNECTOR - 90° SWIVEL ELBOW	4
63	502-40744	.HOSE ASSEMBLY - JUMPER	2
64	201-00040	.CLAMP - 1 1/16 TUBE	2
65	510-70829	.TUBE ASSEMBLY - 3/4 x 124.38"	2
66	200-10013	.RING - RETAINING	5
67	200-30006	.RING - RETAINING	6
68	200-50004	.RING - RETAINING	4
69	224-04002	.HAIRPIN - 3/16	1
70	224-02006	.HAIRPIN - 1/8	3
71	501-03001	.FITTING - LUBE 1/4	10
72	220-00002	.BOLT 1/4 x 1/2" LONG	2
73	220-00003	.BOLT 1/4 x 3/4" LONG	2
74	220-01004	.BOLT 5/16 x 3/4" LONG	4
75	220-01005	.BOLT 5/16 x 1" LONG	12
76	220-02003	.BOLT 3/8 x 3/4" LONG	10
77	220-02004	.BOLT 3/8 x 1" LONG	6
78	220-02002	.BOLT 3/8 x 1 1/4" LONG	16
79	220-02006	.BOLT 3/8 x 1 1/2" LONG	8
80	220-04047	.BOLT 1/2 x 1" LONG	12
81	220-04005	.BOLT 1/2 x 1 1/2" LONG	4
82	220-14016	.BOLT 1/2 x 3 1/2" LONG	4
83	223-00208	.SCREW - MACHINE 1/4 x 1 1/4" LONG	2
84	223-00308	.SCREW - MACHINE 5/16 x 1 1/2" LONG	2
85	223-00407	.SCREW - MACHINE 3/8 x 1" LONG	14
86	223-00409	.SCREW - MACHINE 3/8 x 1 1/4" LONG	16
87	223-00607	.SCREW - MACHINE 1/2 x 1 1/4" LONG	16
88	223-00611	.SCREW - MACHINE 1/2 x 1 1/4" LONG	4
89	220-14017	.BOLT 12 x 2 1/4" LONG	4
90	222-10005	.WASHER - LOCK 1/4	18
91	222-11002	.WASHER - LOCK 5/16	19
92	222-12001	.WASHER - LOCK 3/8	40
93	222-14003	.WASHER - LOCK 1/2	14
94	222-01001	.WASHER - FLAT 5/16	12
95	222-02003	.WASHER - FLAT 3/8	14
96	221-02003	.NUT - HEX 5/15	12
97	221-02001	.NUT - HEX 3/8	6
98	221-07001	.NUT - HEX 3/4	4
99	221-07002	.NUT - JAM 3/4	4
100	221-97002	.NUT - LOCK 3/4	2
101	221-09010	.NUT - HEX 1 3/8	3
102	221-09011	.NUT - JAM 1 3/8	3
103	221-09007	.NUT - HEX 1 1/2	2
104	221-09009	.NUT - JAM 1 1/2	2
105	781-00211	.BOSS - RETAINER CABLE ANCHOR	2

721-00180

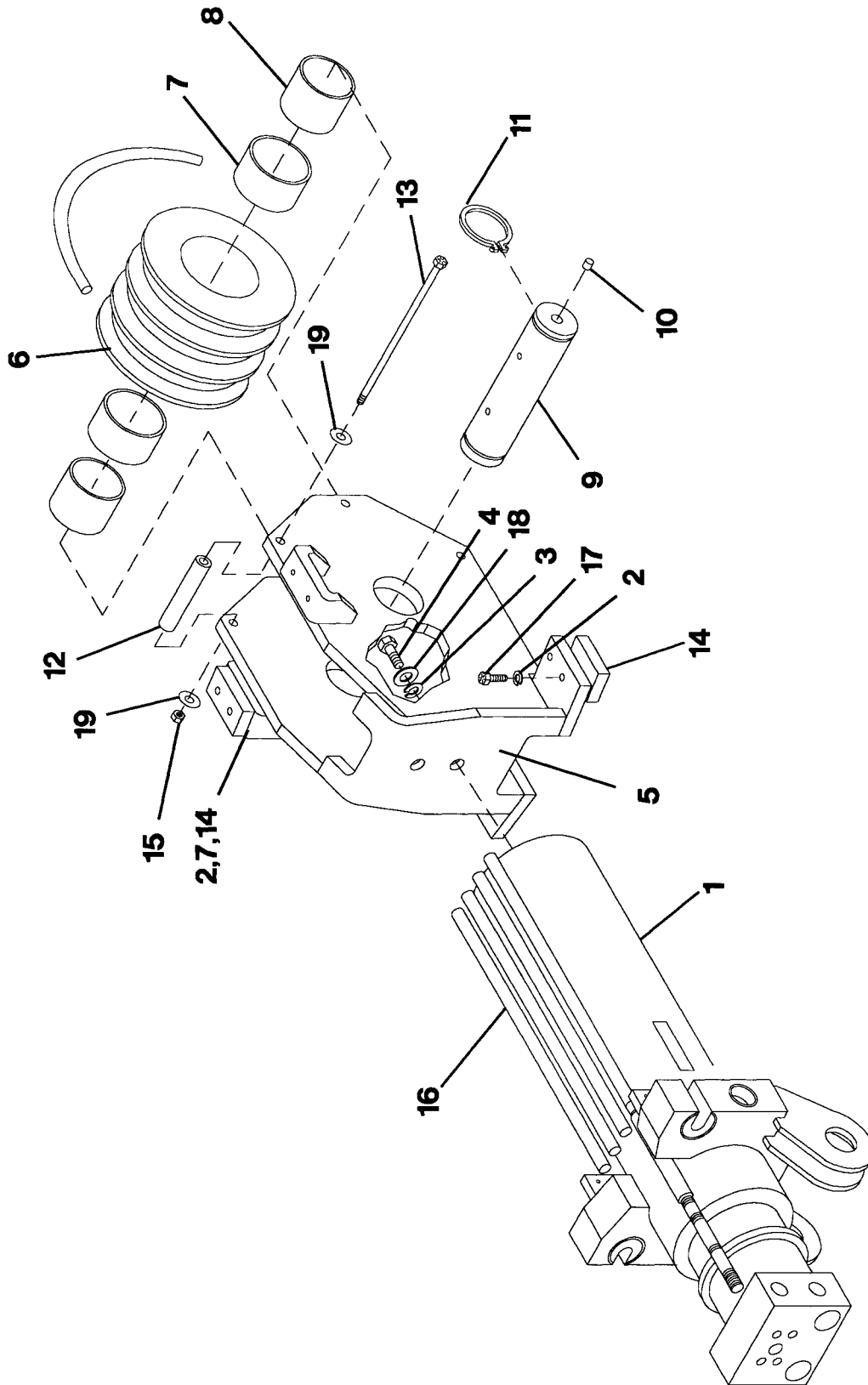
BOOM SUBASSEMBLY

ITEM	PART NUMBER	DESCRIPTION	QTY.
106	802-01494	.COVER - BASE BOOM	1
107	787-00238	.SHIM - .04	A/R
108	787-00239	.SHIM - .063	A/R
109	787-00240	.SHIM - .100	A/R
110	220-34014	.SCREW - CAP 1/2 x 2 1/4" LONG	2
111	514-47002	.CONNECTOR - 90° ELBOW	2
112	513-70023	.CONNECTOR - STRAIGHT	2
113	870-60218	.PIN - TOP SHEAVE 2"	1
114	501-03007	.FITTING - LUBE 1/4	2
115	223-15219	.SCREW - MACHINE 1/4 x 1/2" LONG	6
116	223-00205	.SCREW - MACHINE 1/4 x 3/4" LONG	2
117	223-00204	.SCREW - MACHINE 1/4 x 1/2" LONG	2
119	201-00157	.CLAMP - TUBE 3/4	3
120	870-10199	.PIN - CABLE RETAINER	1
121	870-10181	.PIN - CLEVIS 3/4 x 5" LONG	1
122	222-04001	.WASHER - FLAT 1/2	16
123	729-02345	.PLATE - BASE BOOM COVER	1
124	223-15210	.SCREW - MACHINE 5/16 x 3/4" LONG	4
125	222-00006	.WASHER - FLAT 1/4	4
126	220-01009	.BOLT 5/16 x 2 1/4" LONG	4
127	870-90031	.PIN 2 3/4	1
128	220-36010	.BOLT 5/8 x 3/4" LONG	2
129	222-16003	.WASHER - LOCK 5/8	3
130	224-26005	.BOLT 5/8 x 1 1/2" LONG	1
131	220-06037	.BOLT 5/8 x 1 1/2" LONG	2
132	651-00196	.PLACARD - LANYARD ANCHOR POINT	2
133	651-00302	.PLACARD - PERSONNEL ATTACHMENT	2
134	651-00313	.PLACARD - DANGER FINGER HAZARD	2
135	653-00236	.PLACARD - BOOM LENGTH 68 FT	2
136	653-00243	.PLACARD - BOOM LENGTH 50 FT	2
137	653-00283	.PLACARD - SIMON STINGER	2
138	653-00289	.PLACARD - BOOM LENGTH 105 FT	2
139	653-00290	.PLACARD - BOOM LENGTH 86 FT	2
140	659-00009	.STRIPING - BOOM, BEIGE	18'
141	659-00010	.STRIPING - BOOM, YELLOW	18'
142	659-00011	.STRIPING - BOOM, ORANGE	18'
143	659-00012	.STRIPING - BOOM, RED	19'
144	659-00066	.PLACARD - STRIPING, 4-BAR	4
145	780-00300	.SUPPORT BLOCK - CABLE ANCHOR END PLATE R/H	1
146	780-00301	.SUPPORT BLOCK - CABLE ANCHOR END PLATE L/H	1
147	780-00302	.SUPPORT BLOCK - CABLE ANCHOR END PLATE R/H	1
148	780-00303	.SUPPORT BLOCK - CABLE ANCHOR END PLATE R/H	1

P-2521.D

721-00180

**EXTENSION CYLINDER ASSEMBLY**



3.1.5

548-00036

P--2419



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	540-90074	.CYLINDER - EXTEND (SEE 3.1.5.1)	1
2	222-11002	.WASHER - LOCK 5/16	8
3	222-19001	.WASHER - LOCK 1	2
4	220-09011	.BOLT 1 x 2" LONG	2
5	777-00099	.BRACKET - EXTENSION SHEAVE WELDMENT	1
6	860-60009	.SHEAVE - 3-ROPE 3/4 ROPE	1
7	273-50005	.BEARING - ROLLER OUTER RACE	2
8	274-40009	.BEARING - ROLLER INNER RACE	2
9	870-90035	.PIN - SHEAVE	1
10	501-03001	.FITTING - LUBE ZERK	2
11	200-50004	.RING - RETAINING	2
12	782-01501	.SPACER	3
13	220-02055	.BOLT 3/8 x 7 1/2" LONG	3
14	729-02174	.PAD - WEAR	4
15	221-92001	.NUT - HEX HEAD TOPLOCK 3/8	3
16	861-17037	.ROPE - WIRE ASSEMBLY	3
17	220-01004	.BOLT 5/16 x 3/4" LONG	8
18	222-09003	.WASHER - FLAT 1	2
19	222-02005	.WASHER - FLAT 3/8	6

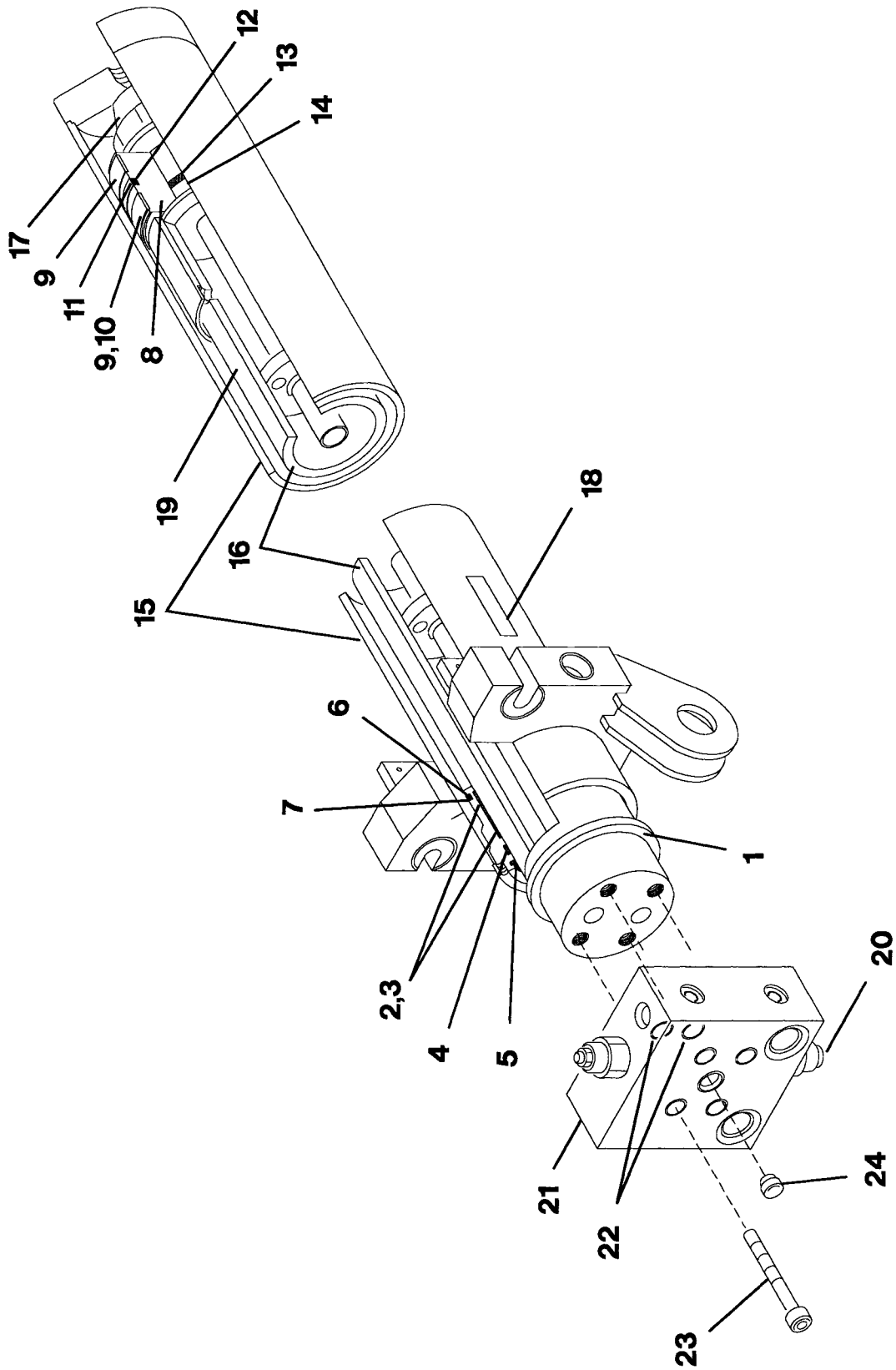
P-2419

548-00036

3.1.5

**EXTENSION CYLINDER**

3.1.5.1



540-90074

P-2420

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	830-00299	.HEAD	1
*2	830-00300	.RING - ROD WEAR	3
*3	830-00301	.RING - ROD WEAR	1
*4	830-00302	.SEAL - ROD	1
*5	830-00303	.WIPER - ROD	1
*6	830-00304	.O-RING	1
*7	830-00305	.BACKUP	1
8	830-00306	.PISTON	1
*9	830-00307	.RING - PISTON WEAR	1
10	830-00308	.RING - PISTON WEAR	2
*11	830-00309	.SEAL - PISTON	1
*12	830-00310	.O-RING	1
*13	830-00311	.O-RING	1
*14	830-00312	.BACKUP	2
15	830-00313	.CASE WELDMENT	1
16	830-00401	.ROD WELDMENT	1
17	830-00081	.NUT - LOCK	1
18	830-00105	.TAG - ID	1
19	830-00402	.SPACER	1
**20	552-00127	.VALVE	1
21	830-00403	BLOCK - VALVE	1
*22	830-00043	.O-RING	2
23	830-00018	.SCREW - SHOULDER CAP 1/2 x 3" LONG	4
24	830-00217	.PLUG	1

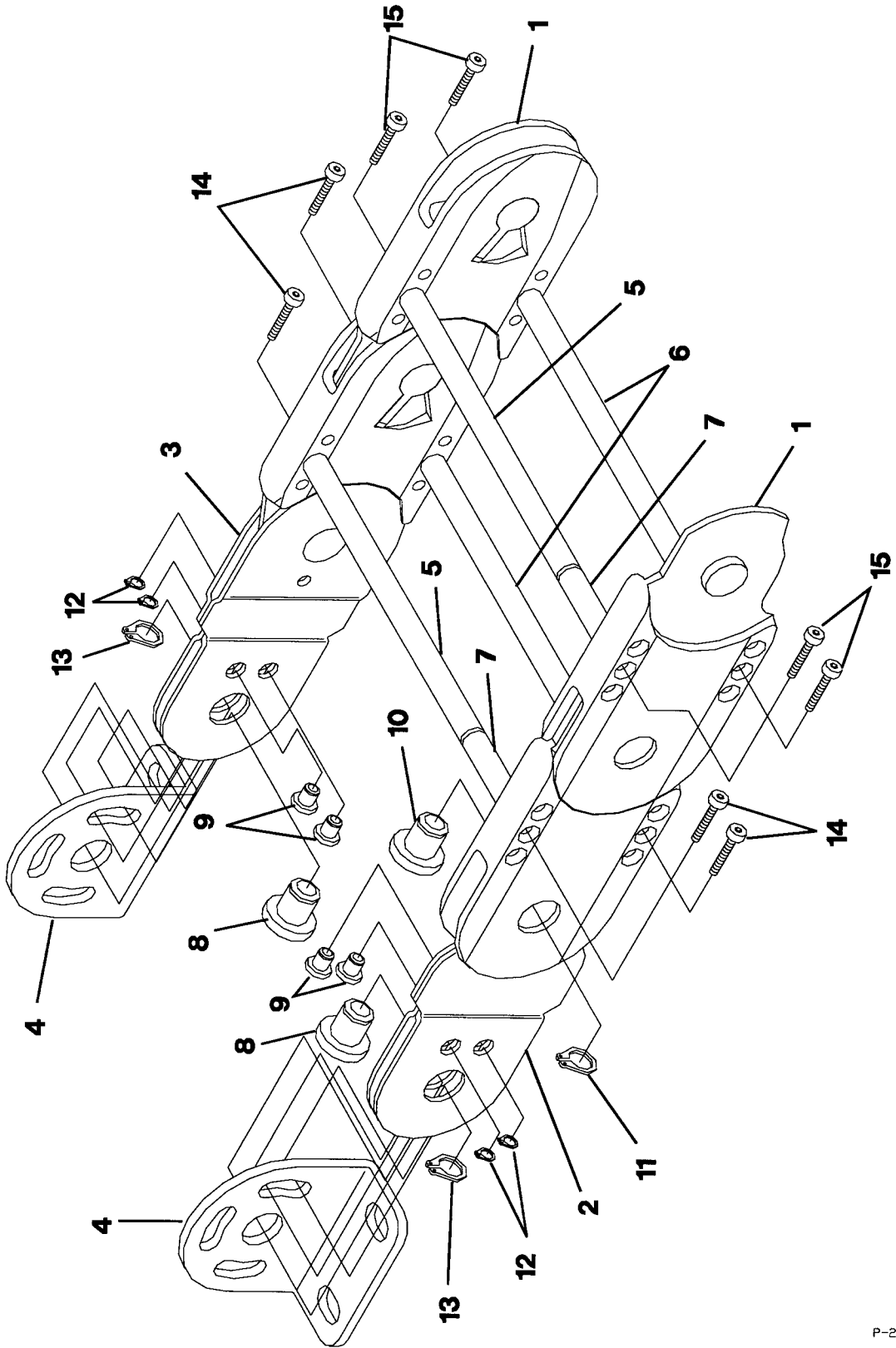
P-2420

\*ITEMS INCLUDED INSEAL KIT #268-90149

\*\*SEAL KIT #059-00027

540-90074

**EXTENSION CYLINDER HOSE TRACK**



730-90260

P-2723

3.1.23

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	352-00001	.LINK - MAIN	2
2	352-00002	.LINK - MALE CONNECT	1
3	352-00003	.LINK - FEMALE CONNECT	1
4	352-00004	.ANGLE - MOUNTING	2
5	352-00005	.BAR - ALUMINUM 1/4 x 2" LONG	2
6	352-00006	.BAR - ALUMINUM 1/4 x 2 3/4" LONG	2
7	352-00007	.ROD - HINGE	2
8	352-00008	.PIN - CENTER BRACKET	2
9	352-00009	.PIN - STOP BRACKET	4
10	352-00010	.PIN - CONNECT LINK CENTER	2
11	352-00011	.RING - CONNECT LINK SNAP	2
12	352-00012	.RING - STOP PIN SNAP	4
13	352-00013	.RING - CENTER PIN SNAP	2
14	352-00014	.SCREW - SOCKET HEAD CAP 4mm x 20mm	4
15	352-00015	.SCREW - SOCKET HEAD CAP 4mm x 16mm	4

ONE SECTION OF TRACK ASSEMBLY SHOWN

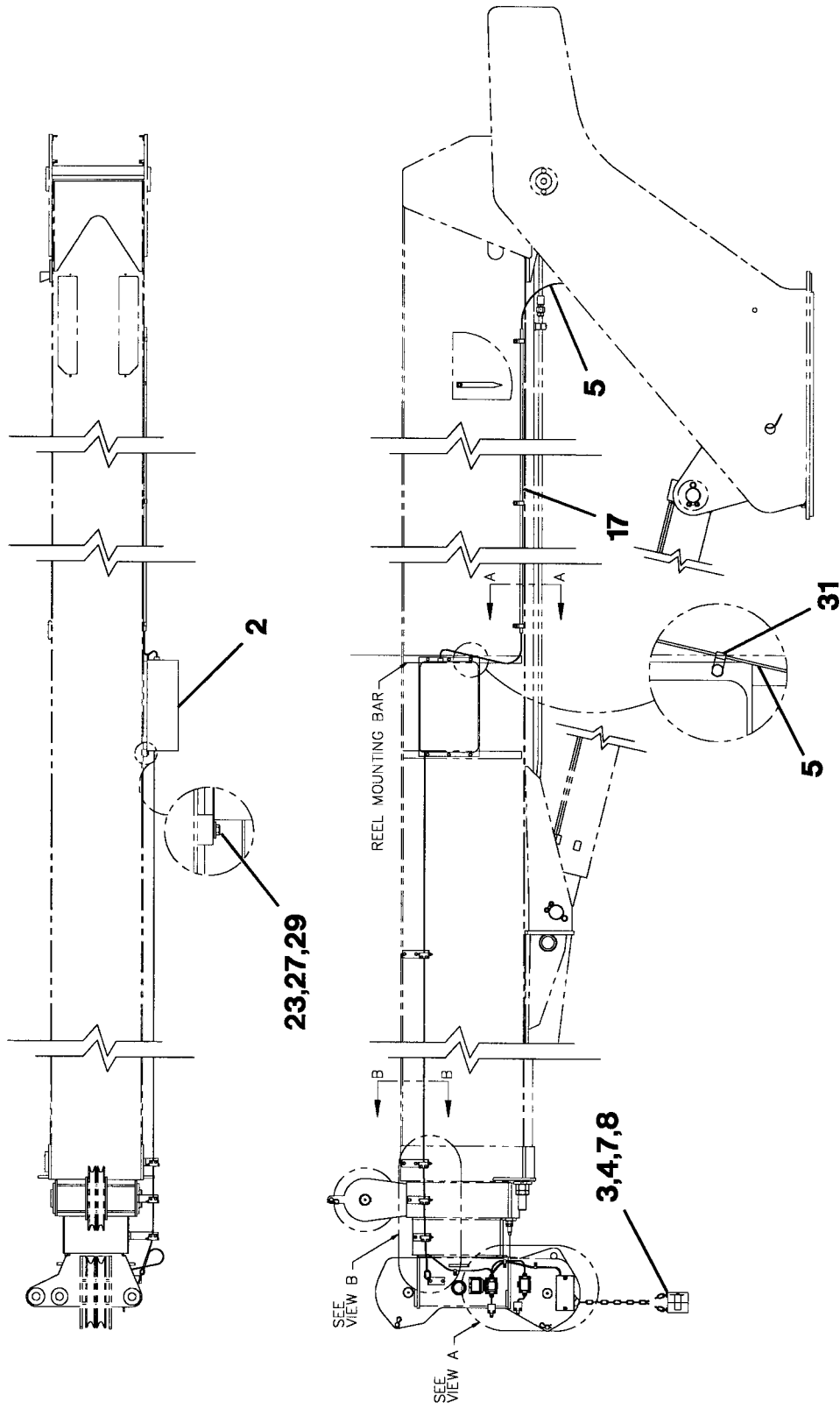
P-2723

730-90260

3.1.23

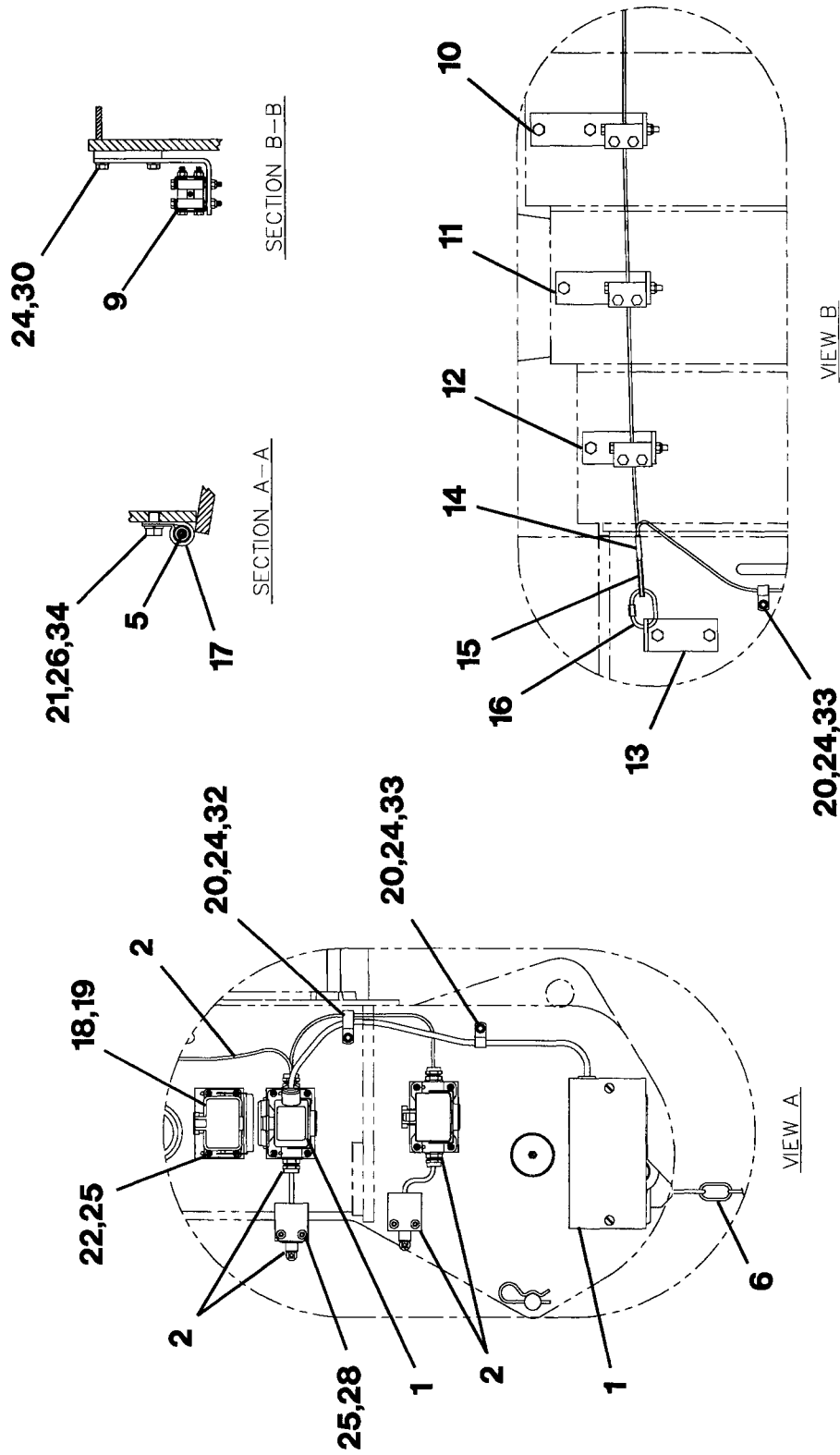
**BOOM ATB/LMI INSTALLATION**

3.2



730-90276

P-2542.DWG



730-90276

P-2542A.DWG

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	861-90352	.SWITCH - ATB ASSEMBLY (SEE 3.2.1)	1
2	861-90353	.REEL - CABLE ASSEMBLY (SEE 3.2.2)	1
3	861-90357	.WEIGHT - ATB SWITCH	1
4	861-90358	.LINK - OPEN END	1
5	400-01853	.CABLE ASSEMBLY - ATB/LMI	1
6	861-90228	.SHACKEL - CHAIN	1
7	861-90191	.CHAIN - TWO-BLOCK, SHORT	2
8	861-90190	.CHAIN - TWO-BLOCK, LONG	1
9	865-00011	.GUIDE - ATB/LMI ROLLER ASSEMBLY	4
10	729-02529	.BRACKET - CABLE GUIDE, BASE BOOM	2
11	729-02530	.BRACKET - CABLE GUIDE, 2ND BOOM	1
12	729-02531	.BRACKET - CABLE GUIDE, 3RD BOOM	1
13	729-02565	.BRACKET - CABLE GUIDE, BOOM TIP	1
14	861-90359	.CLAMP - ROPE	1
15	861-90188	.THIMBLE - CABLE	1
16	586-00053	.LINK - CHAIN CONNECTOR	1
17	570-03028	.TUBING - PVC 1/2 x 104" LONG	1
18	400-23340	.INSERT - FEMALE 6 POSITION	1
19	400-23338	.PANEL - MOUNTING BASE 6 POSITION	1
20	223-15210	.SCREW - MACHINE 5/16 x 3/4" LONG	4
21	223-15219	.SCREW - MACHINE 1/4 x 1/2" LONG	3
22	223-04001	.SCREW - MACHINE #10 x 1/2" LONG	12
23	222-12001	.WASHER - LOCK 3/8	6
24	222-11002	.WASHER - LOCK 5/16	12
25	222-10006	.WASHER - LOCK #10	16
26	222-10005	.WASHER - LOCK 1/4	3
27	222-02005	.WASHER - FLAT 3/8	6
28	220-30019	.SCREW - MACHINE #10 x 3/4" LONG	4
29	220-02003	.BOLT 3/8 x 3/4" LONG	6
30	220-01013	.BOLT 5/16 x 5/8" LONG	8
31	201-00171	.CLAMP - TUBE 1/8	1
32	201-00162	.CLAMP - 5/16	1
33	201-00141	.CLAMP - 1/4 x 5/16	2
34	201-00050	.CLAMP - 3/4	3

P-2542

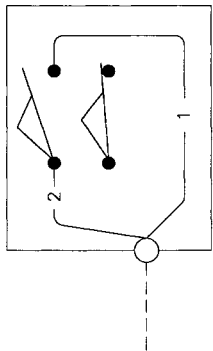
**BOOM ATB/LMI INSTALLATION**

**730-90276**

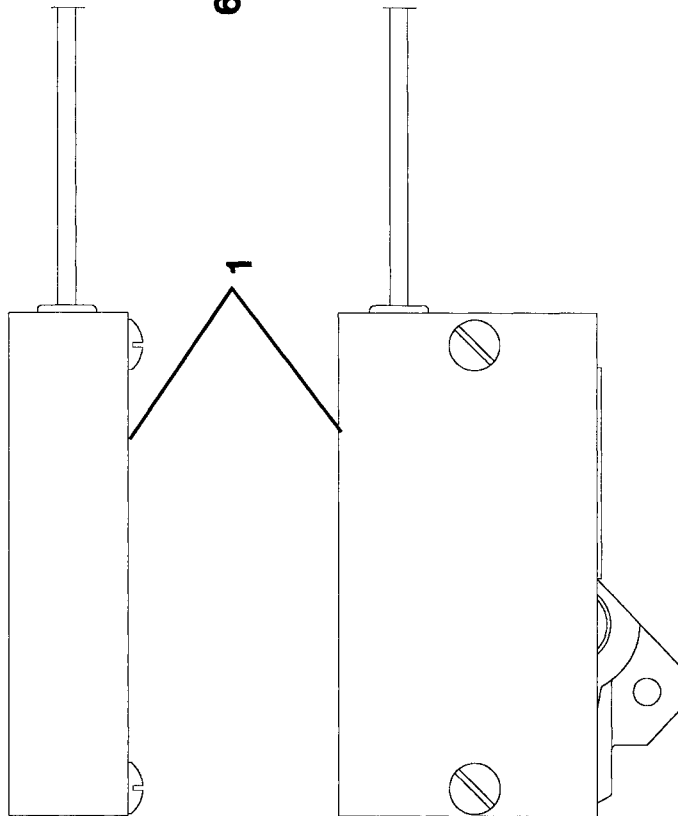
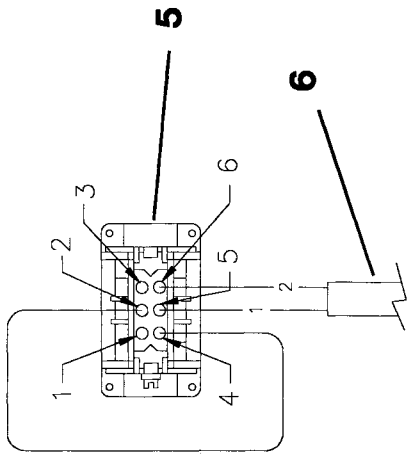


# ATB SWITCH ASSEMBLY - MAIN BOOM

3.2.1



ATB SWITCH  
ELECTRICAL SCHEMATIC



861-90352

P-2605.DWG

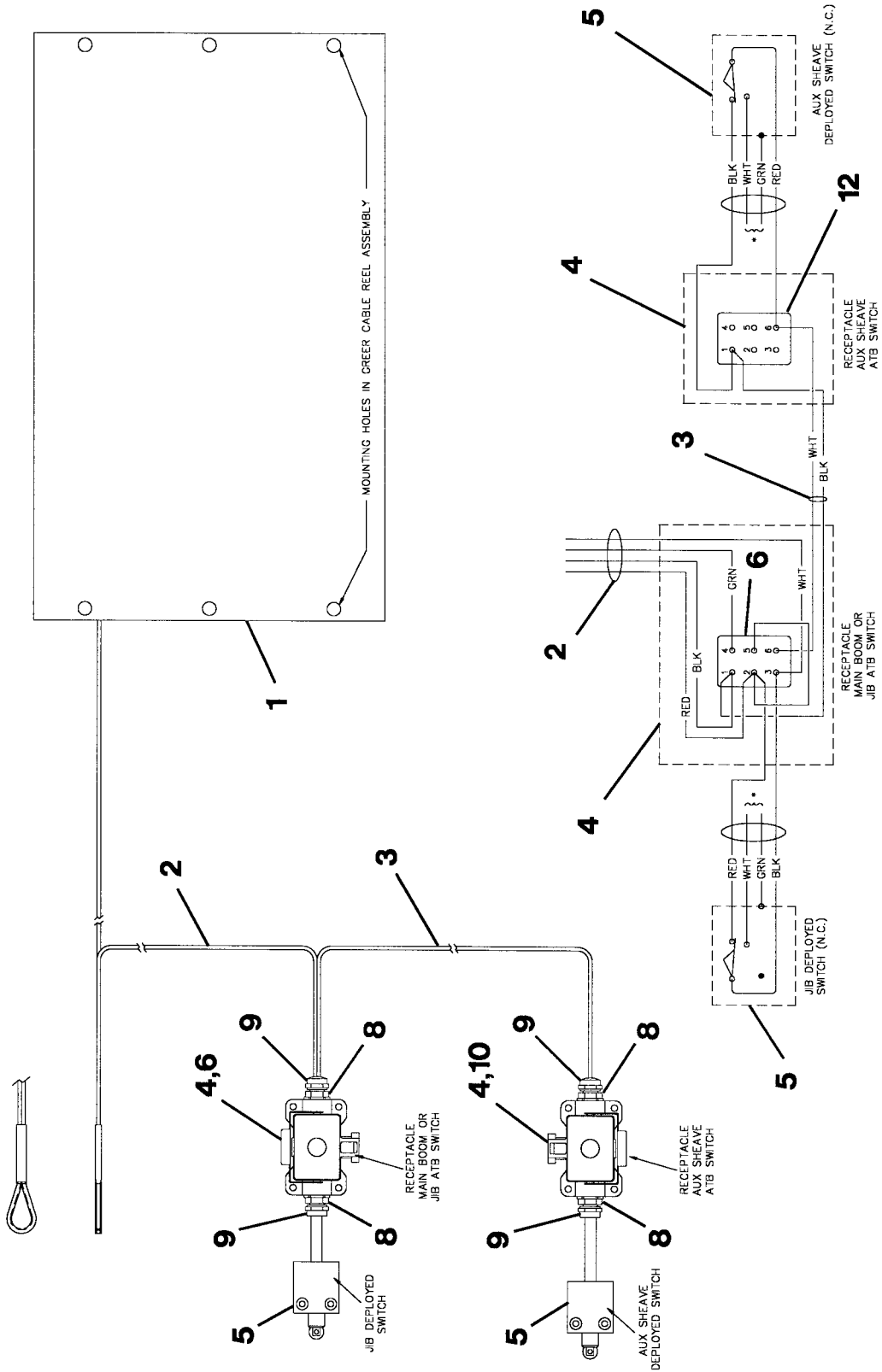
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	400-01837	.SWITCH - ATB	1
2	400-15055	.CONNECTOR - STRAIN RELIEF	1
3	400-23342	.CONNECTOR - ADAPTER	1
4	400-23335	.HOOD - LATERAL ENTRY	1
5	400-23341	.INSERT - MALE	1
6	861-90365	.CABLE - 4/20 GA SHEILED	A/R
	P-2605		

861-90352

3.2.1

# ATB/LMI CABLE REEL ASSEMBLY

3.2.2



WIRING SCHEMATIC • WIRES NOT USED

861-90353

P-2601

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	400-16055	.REEL - CABLE ASSEMBLY	1
		..THIMBLE	A/R
		..TUBING - HEAT SHRINK	A/R
2	861-90364	.CABLE - 4/20 GA SHIELDED	A/R
3	861-90365	.CABLE - 4/20 GA SHIELED	A/R
4	400-23339	.BASE - BOX MOUNTING	2
5	400-05189	.LIMIT SWITCH - ROLLER PLUNGER	2
6	400-23340	.INSERT - FEMALE	1
7	400-15055	.CONNECTOR - STRAIN RELIEF	1
8	400-23359	.ADAPTER - CONNECTOR	2
9	400-15084	.CONNECTOR - STRAIN RELIEF	1
10	400-23341	.INSERT - MALE	1
	P-2601		

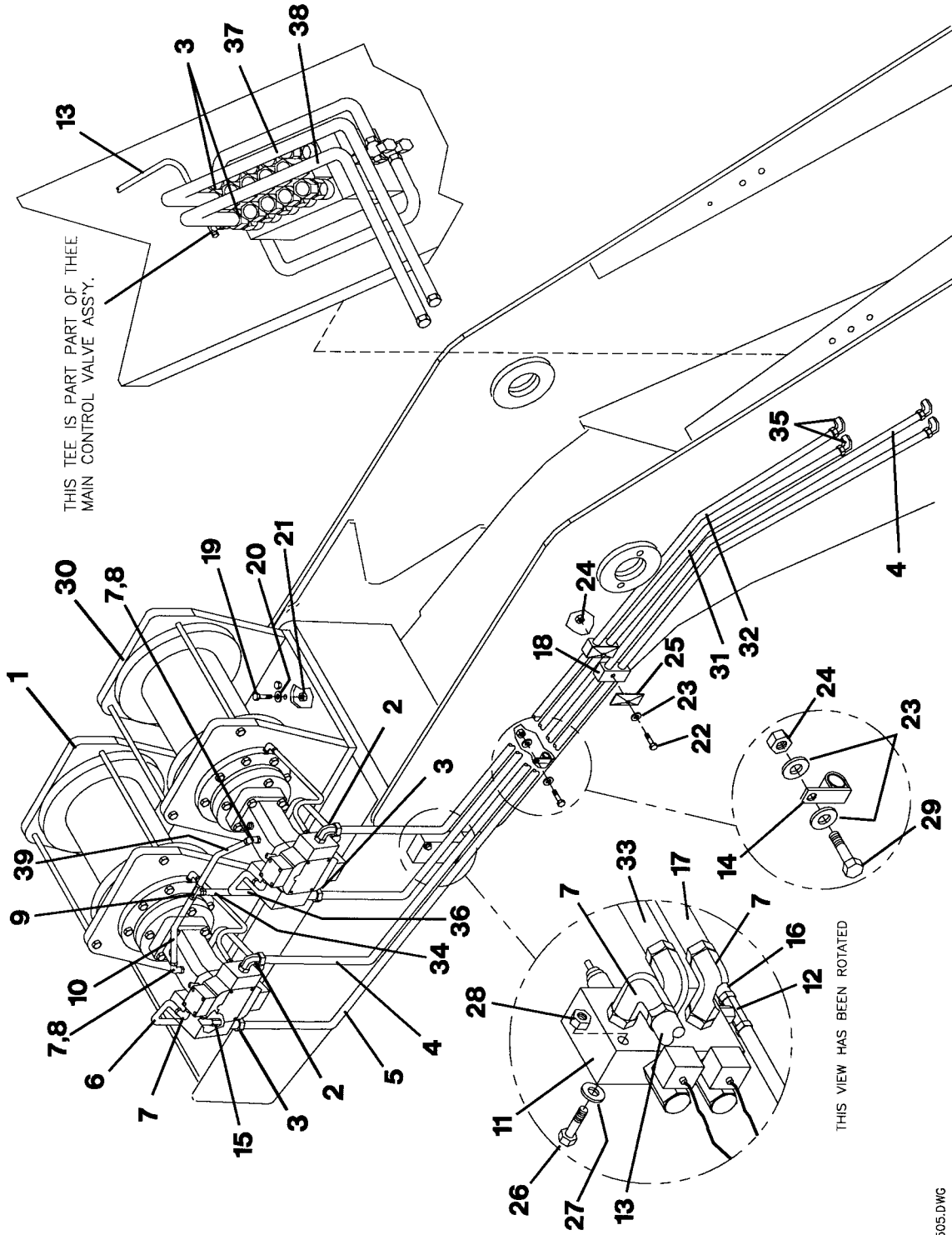
ATB/LMI CABLE REEL ASSEMBLY

861-90353

3.2.2

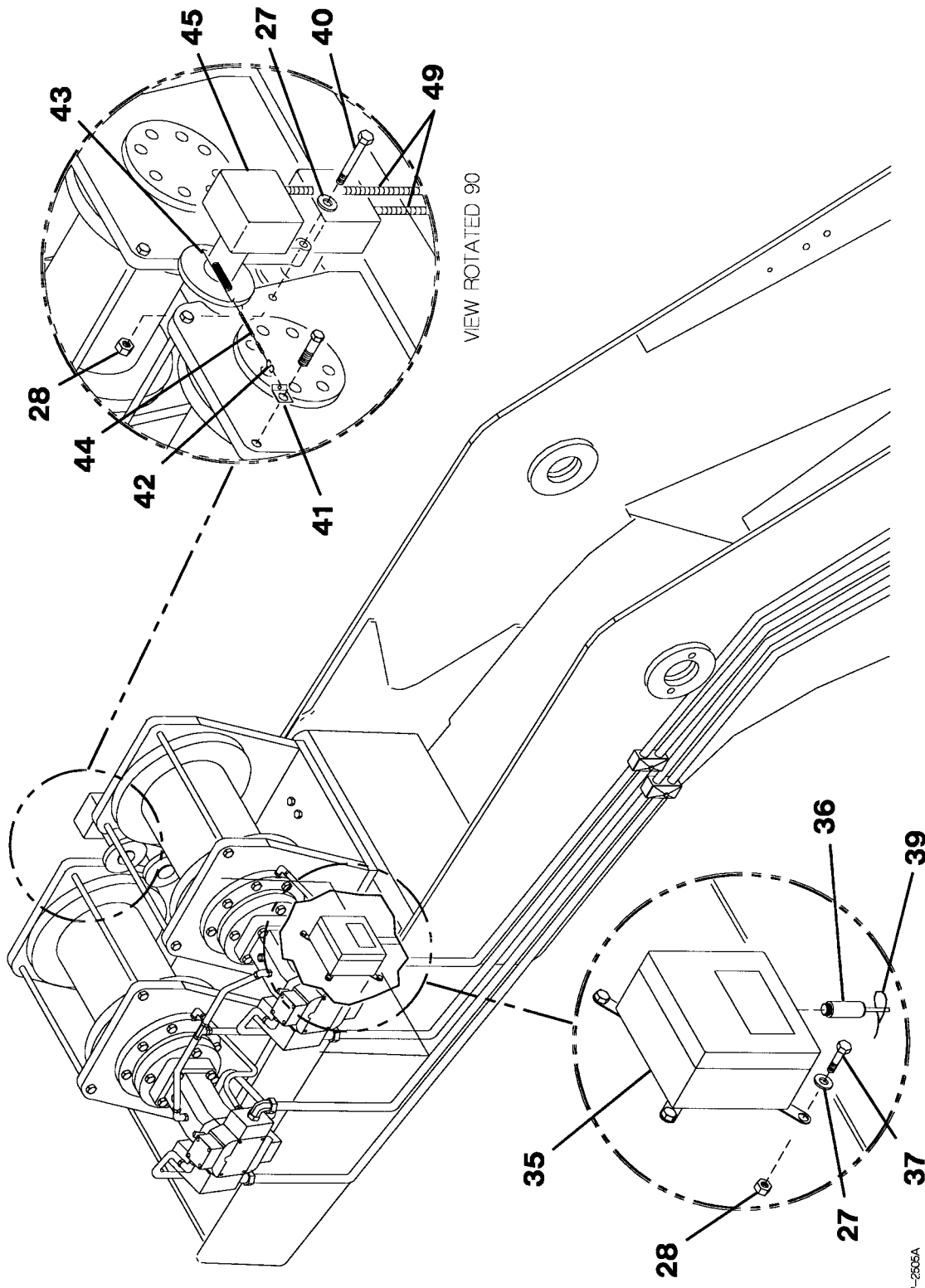
WINCH INSTALL - MAIN & AUXILIARY

4.0



717-00012

P-2505.DWG



717-00012

P-2605A

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	293-00008	.WINCH - MAIN ASSEMBLY	1
2	514-59024	.ELBOW - 90° #16 x #12	2
3	513-90035	.CONNECTOR #16 x #12	4
4	510-90347	.TUBE - WINCH LOWER ASSEMBLY-MAIN	1
5	510-90346	.TUBE - WINCH RAISE ASSEMBLY-MAIN	1
6	510-40415	.TUBE - WINCH CONTROL ASSEMBLY-UPPER	1
7	514-54004	.ELBOW - 90° #6 x #6	7
8	517-00083	.ADAPTER #10 x #6	2
9	516-44002	.TEE - UNION #6	1
10	510-40418	.TUBE - DRAIN ASSEMBLY-MAIN WINCH	1
11	559-00195	.VALVE - WINCH CONTROL ASSEMBLY	1
	551-10126	..COIL - SOLENOID	2
12	516-85006	.TEE - BRANCH #8 x #8	1
13	510-40410	.TUBE - VALVE SUPPLY ASSEMBLY	1
14	201-00171	.CLAMP - TUBE 3/8	1
15	518-35002	.UNION - BULKHEAD #6	3
16	510-40412	.TUBE - DRAIN ASSEMBLY-BULKHEAD/VALVE	1
17	510-40413	.TUBE - CONTROL ASSEMBLY-MAIN WINCH LOWER	1
18	201-00192	.CLAMP - TUBE DOUBLE 1	2
19	220-06034	.BOLT 5/8 x 2 1/4" LONG	16
20	222-06010	.WASHER - FLAT 5/8	16
21	221-96002	.NUT - TOPLOCK 5/8	16
22	220-01002	.BOLT 5/16 x 2 3/4" LONG	2
23	222-01001	.WASHER - FLAT 5/16	4
24	221-91001	.NUT - HEX TOPLOCK 5/16	3
25	201-00194	.COVER - PLATE-DOUBLE CLAMP	2
26	220-00005	.BOLT 1/4 x 2 1/2" LONG	2
27	222-00006	.WASHER - FLAT 1/4	10
28	221-90001	.NUT - HEX TOPLOCK 1/4	8
29	220-01003	.BOLT 5/16 x 1 1/4" LONG	1
30	293-00010	.WINCH - AUXILIARY ASSEMBLY	1
31	510-90348	.TUBE - WINCH RAISE ASSEMBLY-AUXILIARY OUTER	1
32	510-90349	.TUBE - WINCH LOWER ASSEMBLY-AUXILIARY OUTER	1
33	510-40411	.TUBE - AUXILIARY WINCH CONTROL ASSEMBLY-LOWER	1
34	510-40417	.TUBE - WINCH DRAIN ASSEMBLY-TEE	1
35	518-80009	.ELBOW - BULKHEAD #16	2
36	510-40419	.TUBE - AUXILIARY WINCH ASSEMBLY-UPPER	1
37	510-90352	.TUBE - WINCH LOWER ASSEMBLY-AUXILIARY INNER	1
38	510-90353	.TUBE - WINCH RAISE ASSEMBLY-AUXILIARY INNER	1
39	510-40416	.TUBE - DRAIN ASSEMBLY-AUXILIARY WINCH	1
40	220-00007	.BOLT 1/4 x 2" LONG	2
41	209-00731	.CLIP - SPRING RETAINER	2
42	209-00359	.HOOK - S	2
43	202-10066	.SPRING - TENSION	2
44	205-00005	.CHAIN - JACK TYPE	1'
45	400-16050	.HDR - ROTATION INDICATOR ASSEMBLY	2
46	400-16051	.HDR - JUNCTION BOX	1
47	400-01854	.HDR - CABLE ASSEMBLY	1
48	220-00001	.BOLT 1/4 x 1" LONG	4
49	400-01412	.LOOM - SPLIT	5'
50	400-15088	.TIE - CABLE	10

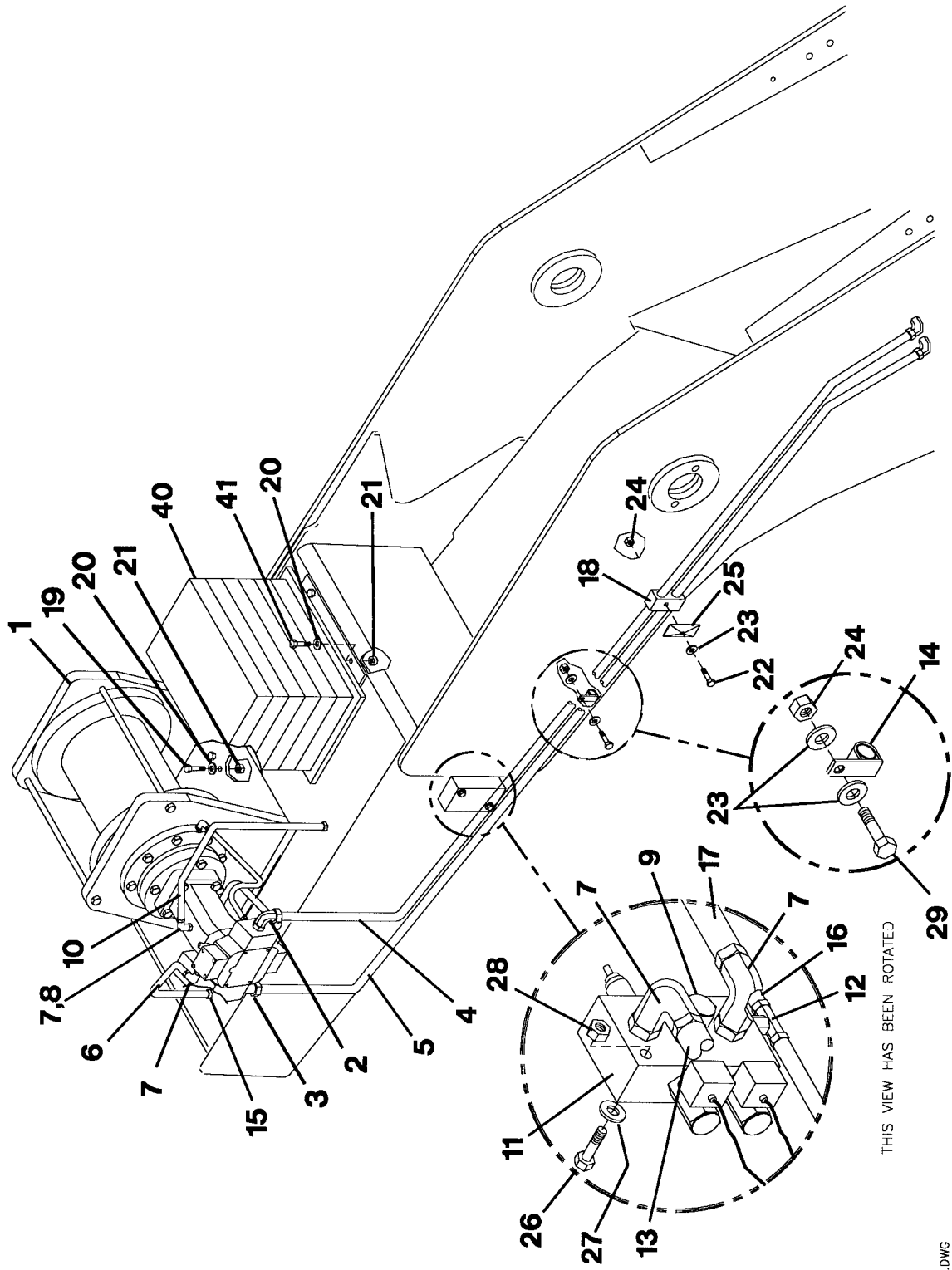
P-2505.D

717-00012

WINCH INSTALL - MAIN & AUXILIARY

**WINCH INSTALL - MAIN**

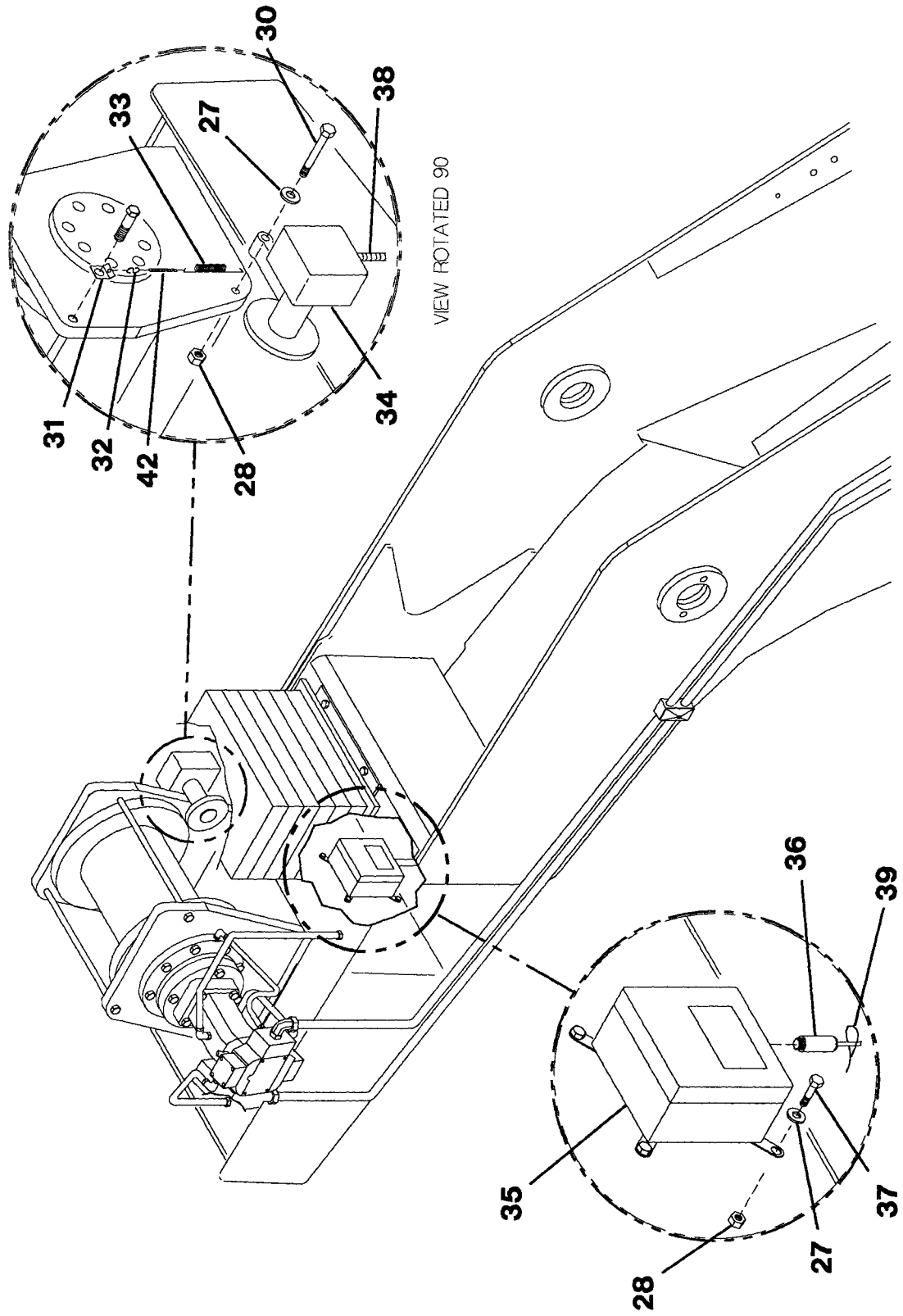
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717-00011

P-2524.DWG





717-00011

P-2524DWG

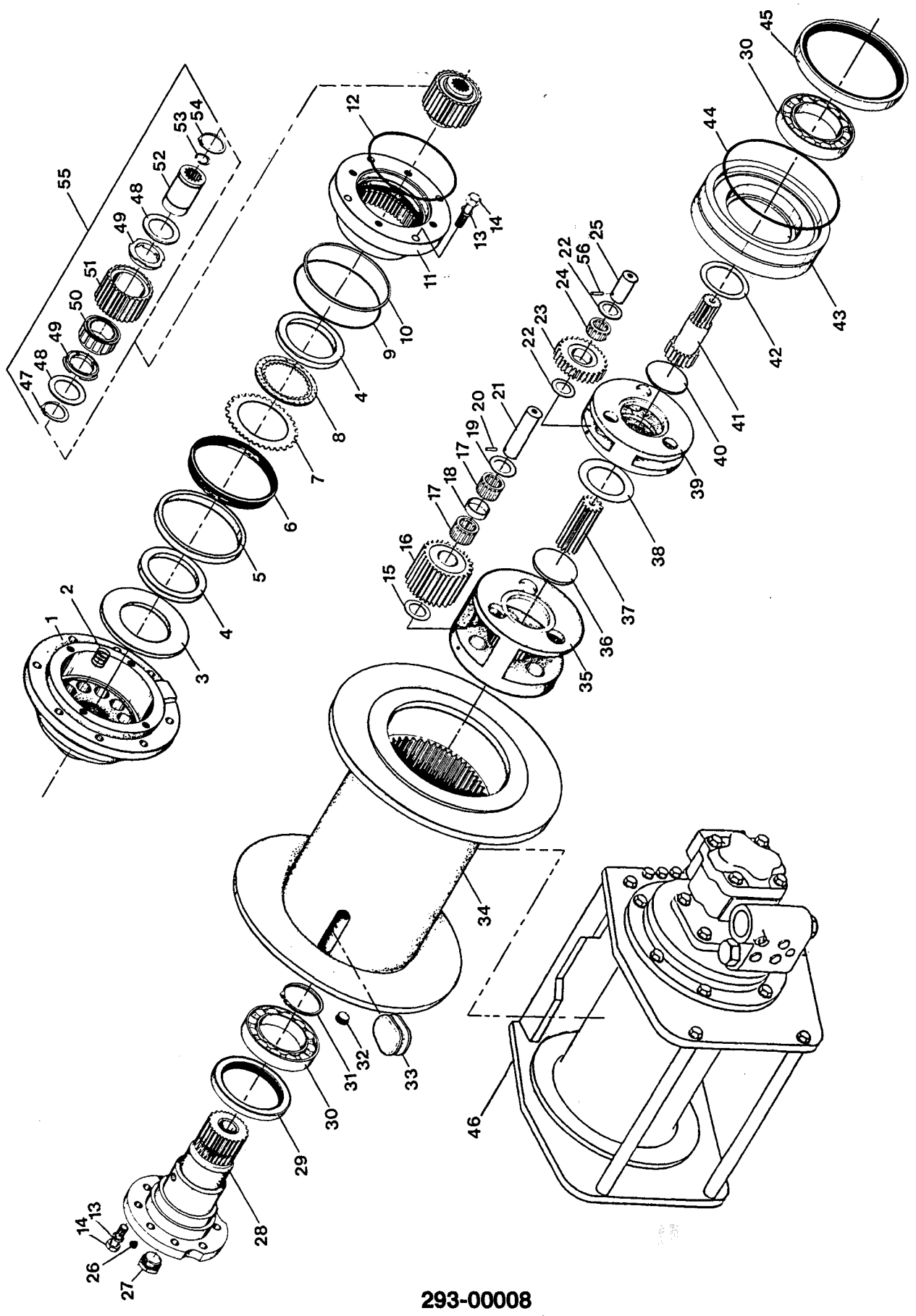
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	293-00008	.WINCH - MAIN ASSEMBLY	1
2	514-59024	.ELBOW - 90° #16 x #12	1
3	513-90035	.CONNECTOR #16 x #12	1
4	510-90347	.TUBE - WINCH LOWER ASSEMBLY-MAIN	1
5	510-90346	.TUBE - WINCH RAISE ASSEMBLY-MAIN	1
6	510-40415	.TUBE - WINCH CONTROL ASSEMBLY-UPPER	1
7	514-54004	.ELBOW - 90° #6 x #6	4
8	517-00083	.ADAPTER #10 x #6	1
9	517-30003	.PLUG - #6	1
10	510-40414	.TUBE - DRAIN ASSEMBLY	1
11	559-00195	.VALVE - WINCH CONTROL ASSEMBLY	1
	551-10126	..COIL - SOLENOID	1
12	516-85006	.TEE - BRANCH #8 x #8	1
13	510-40410	.TUBE - VALVE SUPPLY ASSEMBLY	1
14	201-00171	.CLAMP - TUBE 3/8	1
15	518-35002	.UNION - BULKHEAD #6	2
16	510-40412	.TUBE - DRAIN ASSEMBLY-BULKHEAD/VALVE	1
17	510-40413	.TUBE - CONTROL ASSEMBLY-MAIN WINCH LOWER	1
18	201-00192	.CLAMP - TUBE DOUBLE 1	1
19	220-06034	.BOLT 5/8 x 2 1/4" LONG	8
20	222-06010	.WASHER - FLAT 5/8	12
21	221-96002	.NUT - TOPLOCK 5/8	12
22	220-01002	.BOLT 5/16 x 2 3/4" LONG	1
23	222-01001	.WASHER - FLAT 5/16	3
24	221-91001	.NUT - HEX TOPLOCK 5/16	2
25	201-00194	.COVER - PLATE-DOUBLE CLAMP	1
26	220-00005	.BOLT 1/4 x 2 1/2" LONG	2
27	222-00006	.WASHER - FLAT 1/4	8
28	221-90001	.NUT - HEX TOPLOCK 1/4	7
29	220-01003	.BOLT 5/16 x 1 1/4" LONG	1
30	220-00007	.BOLT 1/4 x 2" LONG	1
31	209-00731	.CLIP - SPRING RETAINER	1
32	209-00359	.HOOK - S	1
33	202-10066	.SPRING - TENSION	1
34	400-16050	.HDR - ROTATION INDICATOR ASSEMBLY	1
35	400-16051	.HDR - JUNCTION BOX	1
36	400-01854	.HDR - CABLE ASSEMBLY	1
37	220-00001	.BOLT 1/4 x 1" LONG	4
38	400-01412	.LOOM - SPLIT	3'
39	400-15088	.TIE - CABLE	10
40	709-01537	.COUNTERWEIGHT WELDMENT	1
41	220-06010	.BOLT 5/8 x 1 3/4" LONG	4
42	205-00005	.CHAIN - JACK TYPE	.5'

P-2524

WINCH INSTALL - MAIN

717-00011

**MAIN WINCH GEARBOX ASSEMBLY**



293-00008

4.0.1

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	058-00428	.CYLINDER - BRAKE	1
2	058-00431	.SPRING	12
3	058-00430	.PLATE - PRESSURE	1
4	058-00433	.SPACER	2
5	058-00432	.RING - PISTON BACK-UP	1
6	058-00429	.SEAL - PISTON	1
7	058-00342	.BRAKE - DISC	8
8	058-00343	.FRICTION - DISC	7
9	058-00434	.O-RING	1
10	058-00435	.RING - BACK-UP	1
11	058-00539	.SUPPORT - MOTOR	1
12	058-00540	.O-RING	1
13	058-00034	.WASHER - LOCK	14
14	058-00568	.SCREW - CAP	4
15	058-00539	.SUPPORT - MOTOR	6
16	059-00058	.GEAR - OUTPUT PLANETARY	3
17	058-00405	.BEARING - ROLLER	6
18	058-00406	.SPACER - BEARING	3
19	058-00407	.WASHER - THRUST	6
20	058-00399	.PIN - SPIROL	3
21	058-00404	.SHAFT - OUTPUT PLANET GEAR	3
22	058-00398	.RACE - BEARING	6
23	058-00585	.GEAR - PRIMARY PLANETARY	3
24	058-00397	.BEARING - ROLLER	3
25	058-00396	.SHAFT - PRIMARY PLANETARY GEAR	3
26	058-00608	.PLUG - VENT	1
27	058-00595	.PLUG - HEX HEAD	1
28	058-00580	.SUPPORT - BEARING	1
29	058-00420	.O-SEAL	1
30	058-00413	.BEARING - BALL	2
31	058-00423	.RING - RETAINING	1
32	058-00426	.PLUG - FLUSH	1
33	058-00439	.CLAMP - WIRE ROPE	1
34	058-00581	.DRUM - CABLE	1
35	058-00402	.CARRIER - OUTPUT PLANETARY	1
36	058-00403	.SCREW - OUTPUT	1
37	058-00521	.GEAR - SUN OUTPUT	1
38	058-00611	.WASHER - THRUST	1
39	058-00584	.CARRIER - PRIMARY PLANET	1
40	058-00542	.PLATE - PRIMARY THRUST	1
41	058-00416	.GEAR - PRIMARY SUN	1
42	058-00610	.WASHER - THRUST	1
43	058-00582	.CLOSURE - CABLE DRUM	1
44	058-00421	.O-RING	1
45	058-00422	.SEAL - OIL	1
46	058-00626	.SIDEPLATE - MOTOR SIDE	1
	058-00625	.SIDEPLATE - SUPPORT SIDE	1
47	058-00390	.RING - RETAINING	2
48	058-00389	.BEARING - THRUST	2
49	058-00609	.BEARING - SPRAG	2
50	058-00385	.CLUTCH - SPRAG	1
51	058-00574	.BRAKE - RACE-OUTER	1

293-00008

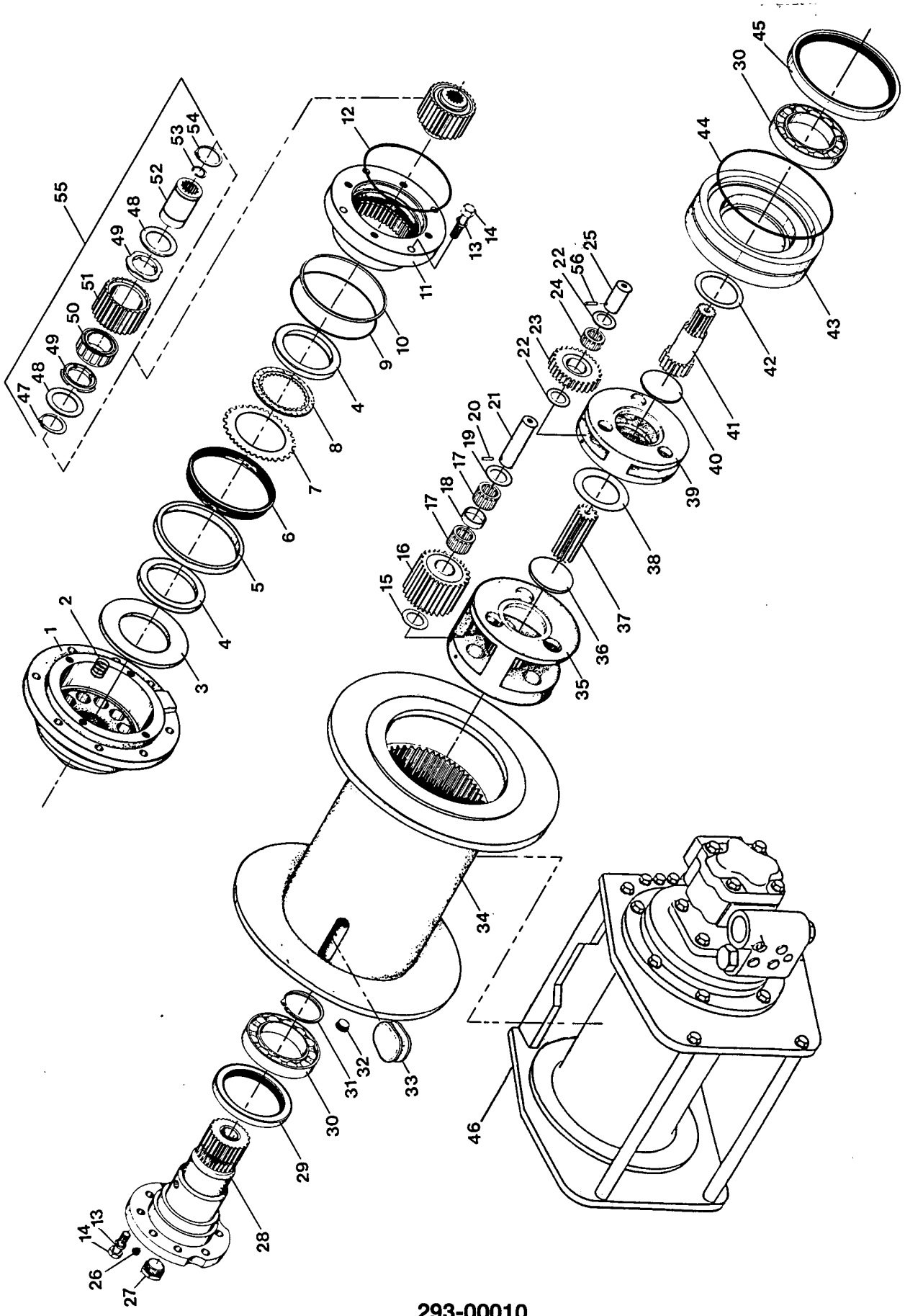
52	058-00575	.BRAKE - RACE-INNER	1
53	058-00391	.RING - RETAINING	1
54	058-00390	.RING - RETAINING	2
55	058-00597	.BRAKE - SPRAG ASSEMBLY	1
56	058-00627	.PIN - SPIROL	3
*57	530-20144	.MOTOR - HYDRAULIC PD15	1
	P-2712		
	*ITEM NOT SHOWN		

**MAIN WINCH GEARBOX ASSEMBLY**

**293-00008**

4.0.1

**AUXILIARY WINCH GEARBOX ASSEMBLY**



293-00010

4.0.1

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	058-00428	.CYLINDER - BRAKE	1
2	058-00431	.SPRING	12
3	058-00430	.PLATE - PRESSURE	1
4	058-00433	.SPACER	2
5	058-00432	.RING - PISTON BACK-UP	1
6	058-00429	.SEAL - PISTON	1
7	058-00342	.BRAKE - DISC	8
8	058-00343	.FRICTION - DISC	7
9	058-00434	.O-RING	1
10	058-00435	.RING - BACK-UP	1
11	058-00622	.SUPPORT - MOTOR	1
12	058-00540	.O-RING	1
13	058-00623	.WASHER - LOCK	4
14	058-00624	.SCREW - CAP	4
15	058-00539	.SUPPORT - MOTOR	6
16	059-00058	.GEAR - OUTPUT PLANETARY	3
17	058-00405	.BEARING - ROLLER	6
18	058-00406	.SPACER - BEARING	3
19	058-00407	.WASHER - THRUST	6
20	058-00616	.PIN - SPIROL	3
21	058-00404	.SHAFT - OUTPUT PLANETARY GEAR	3
22	058-00398	.RACE - BEARING	6
23	058-00613	.GEAR - PRIMARY PLANETARY	3
24	058-00397	.BEARING - ROLLER	3
25	058-00396	.SHAFT - PRIMARY PLANETARY GEAR	3
26	058-00608	.PLUG - VENT	1
27	058-00595	.PLUG - HEX HEAD	1
28	058-00580	.SUPPORT - BEARING	1
29	058-00420	.O-SEAL	1
30	058-00413	.BEARING - BALL	2
31	058-00423	.RING - RETAINING	1
32	058-00426	.PLUG - FLUSH	1
33	058-00439	.CLAMP - WIRE ROPE	1
34	058-00617	.DRUM - CABLE	1
35	058-00614	.CARRIER - OUTPUT PLANETARY	1
36	058-00403	.SCREW - OUTPUT	1
37	058-00619	.GEAR - OUTPUT SUN	1
38	058-00611	.WASHER - THRUST	1
39	058-00612	.CARRIER - PRIMARY PLANETARY	1
40	058-00542	.PLATE - PRIMARY THRUST	1
41	058-00620	.GEAR - PRIMARY SUN	1
42	058-00610	.WASHER - THRUST	1
43	058-00618	.CLOSURE - CABLE DRUM	1
44	058-00621	.O-RING	1
45	058-00422	.SEAL - OIL	1
46	058-00626	.SIDEPLATE - MOTOR SIDE	1
	058-00625	.SIDEPLATE - SUPPORT SIDE	1
47	058-00390	.RING - RETAINING	2
48	058-00389	.BEARING - THRUST	2
49	058-00609	.BEARING - SPRAG	2
50	058-00385	.CLUTCH - SPRAG	1
51	058-00574	.BRAKE - RACE-OUTER	1

293-00010

52	058-00575	.BRAKE - RACE-INNER	1
53	058-00391	.RING - RETAINING	1
54	058-00390	.RING - RETAINING	2
55	058-00597	.BRAKE - SPRAG ASSEMBLY	1
56	058-00627	.PIN - SPIROL	3
*57	530-20145	.MOTOR - HYDRAULIC PD12	1

P-2713

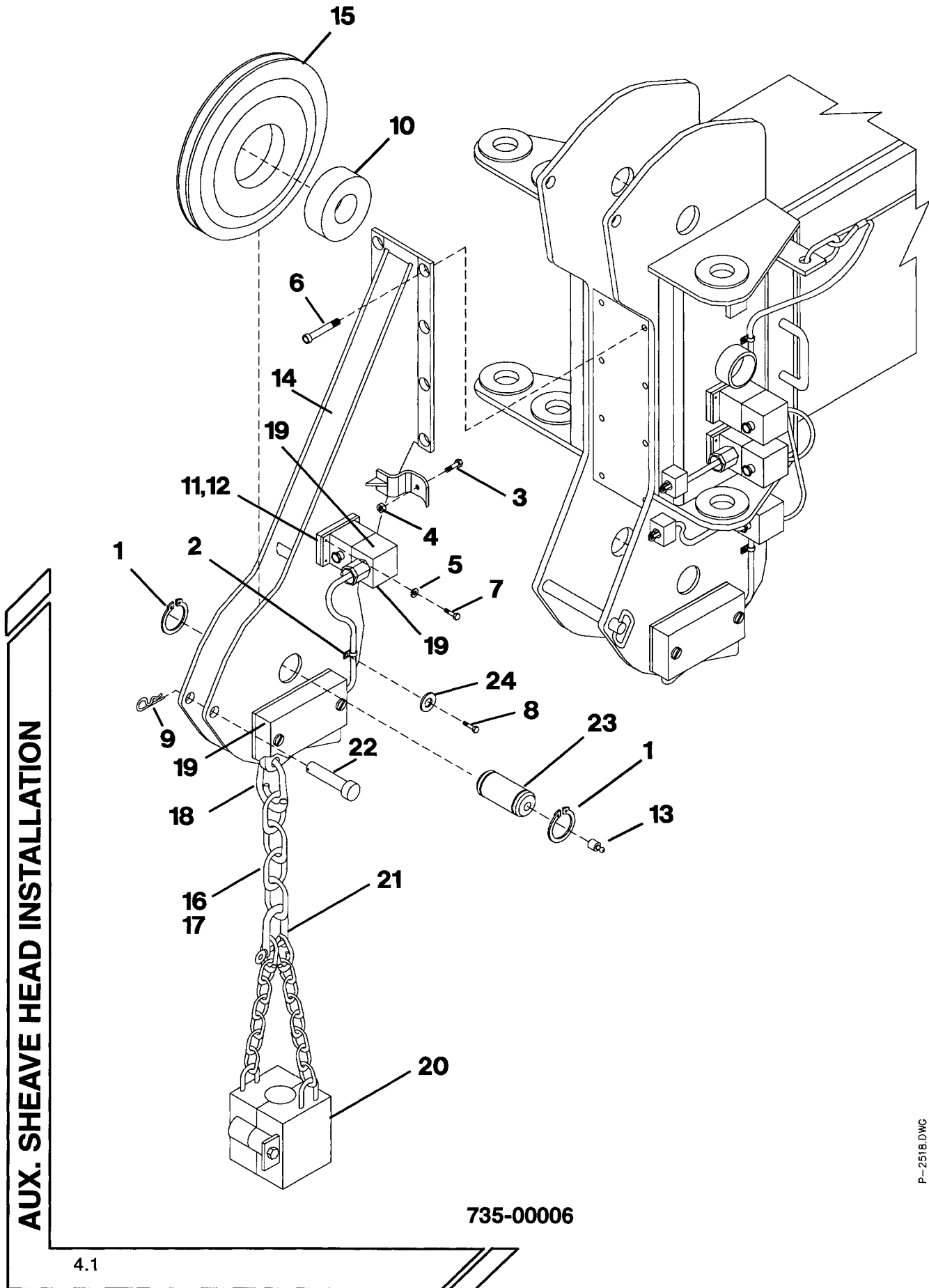
\*ITEM NOT SHOWN

**AUXILIARY WINCH GEARBOX ASSEMBLY**

**293-00010**

4.0.1





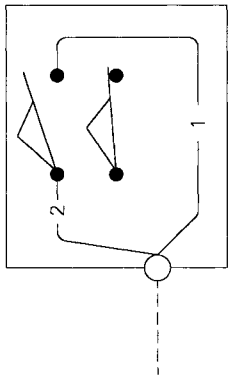
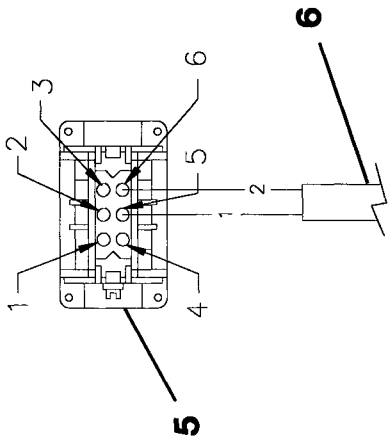
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	200-30006	.RING - RETAINING	2
2	201-00086	.CLAMP	1
3	220-02007	.BOLT 3/8 X 1 3/4" LONG	1
4	221-02001	.NUT - HEX 3/8	1
5	222-10006	.WASHER - LOCK MEDIUM #10	4
6	223-04047	.SCREW - MACHINE FLAT SOCKET HEAD 1/2 x 3" LONG	8
7	223-04001	.SCREW - MACHINE HEX HEAD #10 x 1/2" LONG	4
8	223-15217	.SCREW - HEX HEAD MACHINE 5/16 x 1/2" LONG	1
9	224-02006	.HAIRPIN	1
10	274-30006	.BEARING - ROLLER-INNER RACE	1
11	400-23338	.PANEL - MOUNTING BASE-6 POSITION	1
12	400-23341	.INSERT - MALE 6 POSITION	1
13	501-03001	.FITTING - ZERK	1
14	730-40004	.SHEAVE - AUXILIARY HEAD WELDMENT	1
15	860-70008	.SHEAVE 5/8 ROPE ASSEMBLY	1
16	861-90190	.CHAIN - 2-BLOCK-LONG	1
17	861-90191	.CHAIN - 2-BLOCK-SHORT	2
18	861-90228	.SHACKLE - CHAIN	3
19	861-90356	.SWITCH - ATB ASSEMBLY-AUXILIARY SHEAVE	1
20	861-90357	.WEIGHT - ATB	1
21	861-90358	.END - OPEN LINK 1/4	1
22	870-10174	.PIN - CLEVIS 3/4 x 2 3/4" LONG	1
23	870-60213	.PIN - SHEAVE	1
24	222-11002	.LOCKWASHER - #10	1
	P-2518.D		

AUX. SHEAVE HEAD INSTALLATION

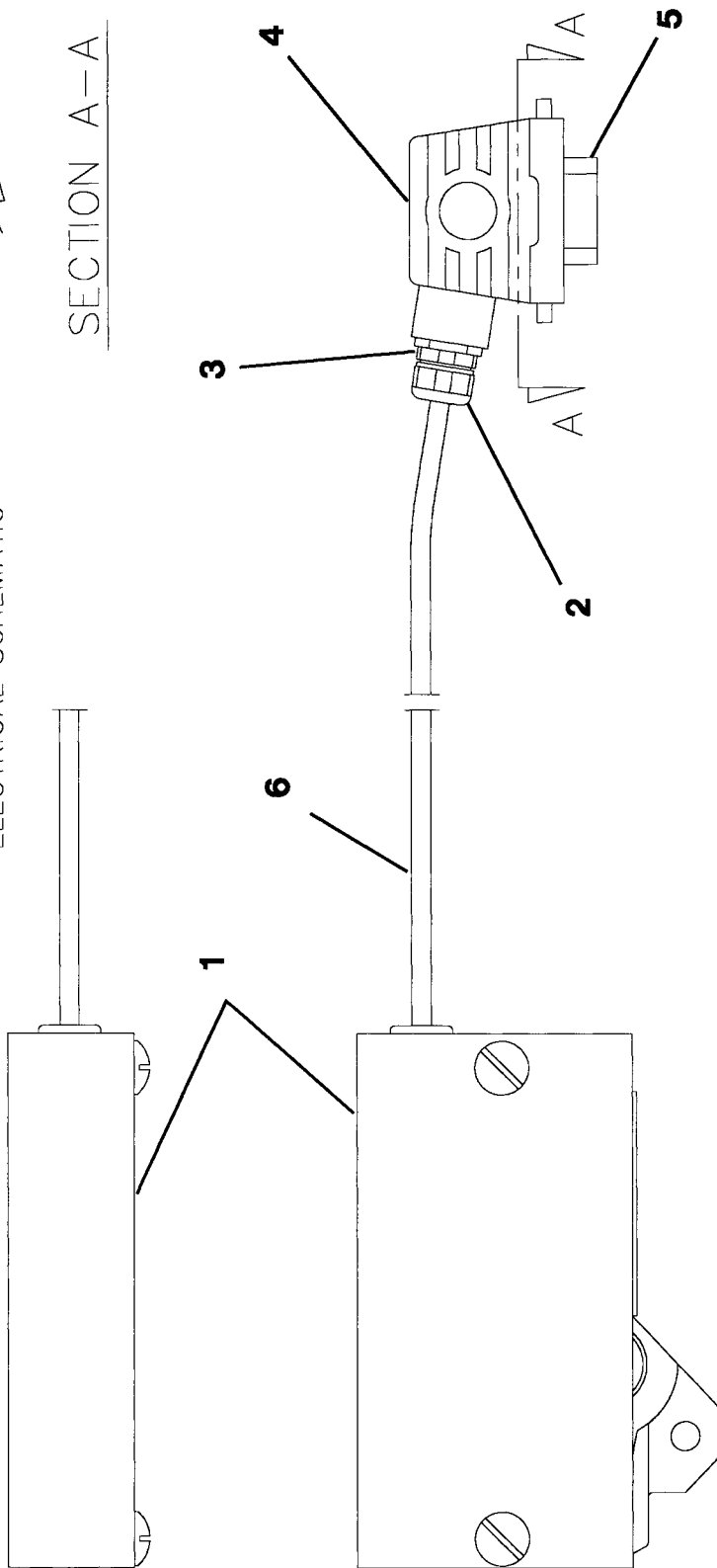
735-00006

# ATB SWITCH ASSEMBLY - AUX SHEAVE

4.1.1



ATB SWITCH  
ELECTRICAL SCHEMATIC

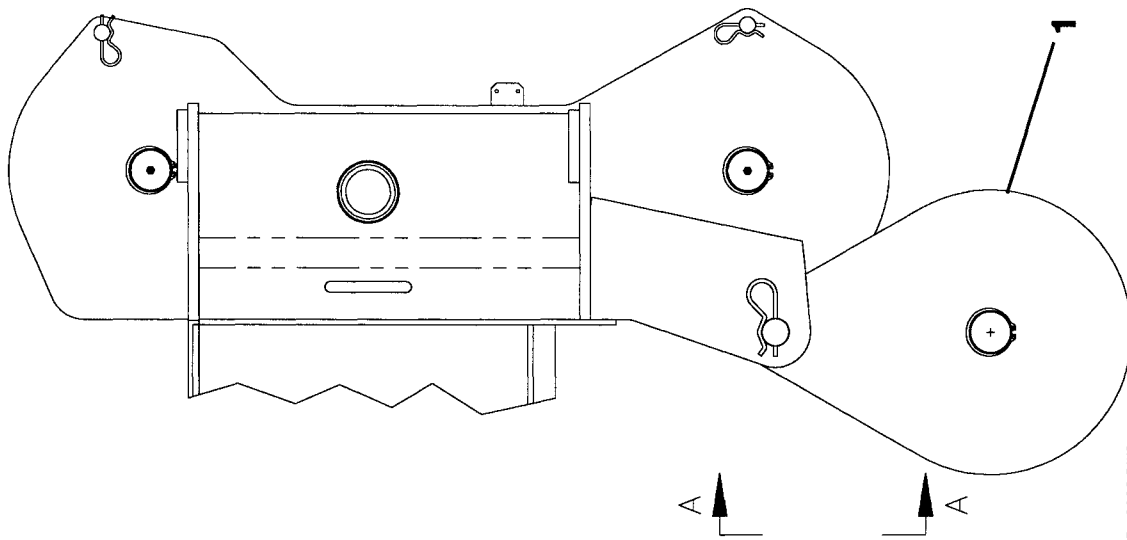
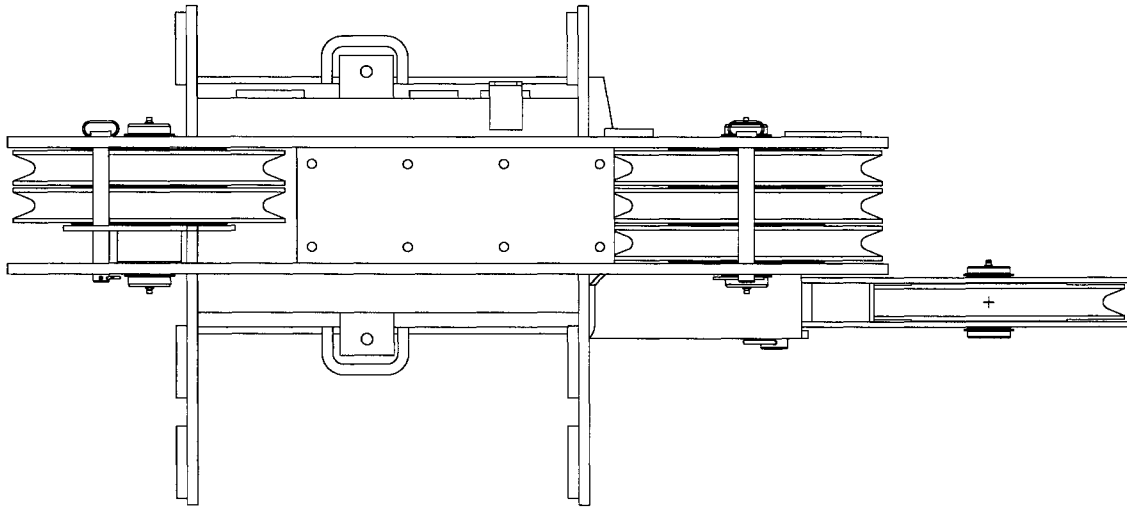
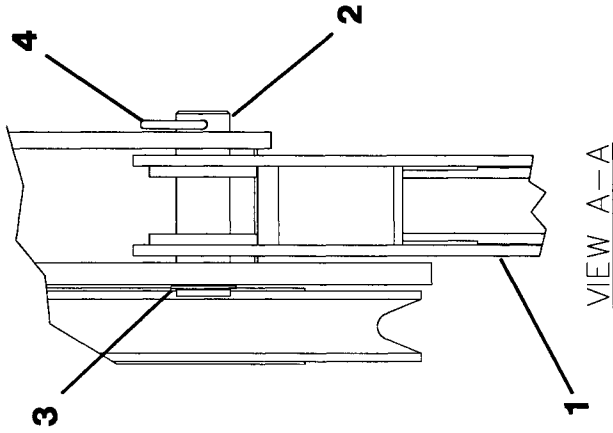


861-90356

P--2604.DWG

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	400-01837	.SWITCH - ATB	1
	400-15571	..COVER - ATB SWITCH	1
2	400-15055	.CONNECTOR - STRAIN RELIEF	1
3	400-23342	.CONNECTOR - ADAPTER	1
4	400-23335	.HOOD - LATERAL ENTRY	1
5	400-23340	.INSERT - FEMALE	1
6	861-90165	.CABLE - 4/20 GA SHEILED	A/R
	P-2604		

861-90356



P-2606.DWG

735-00007

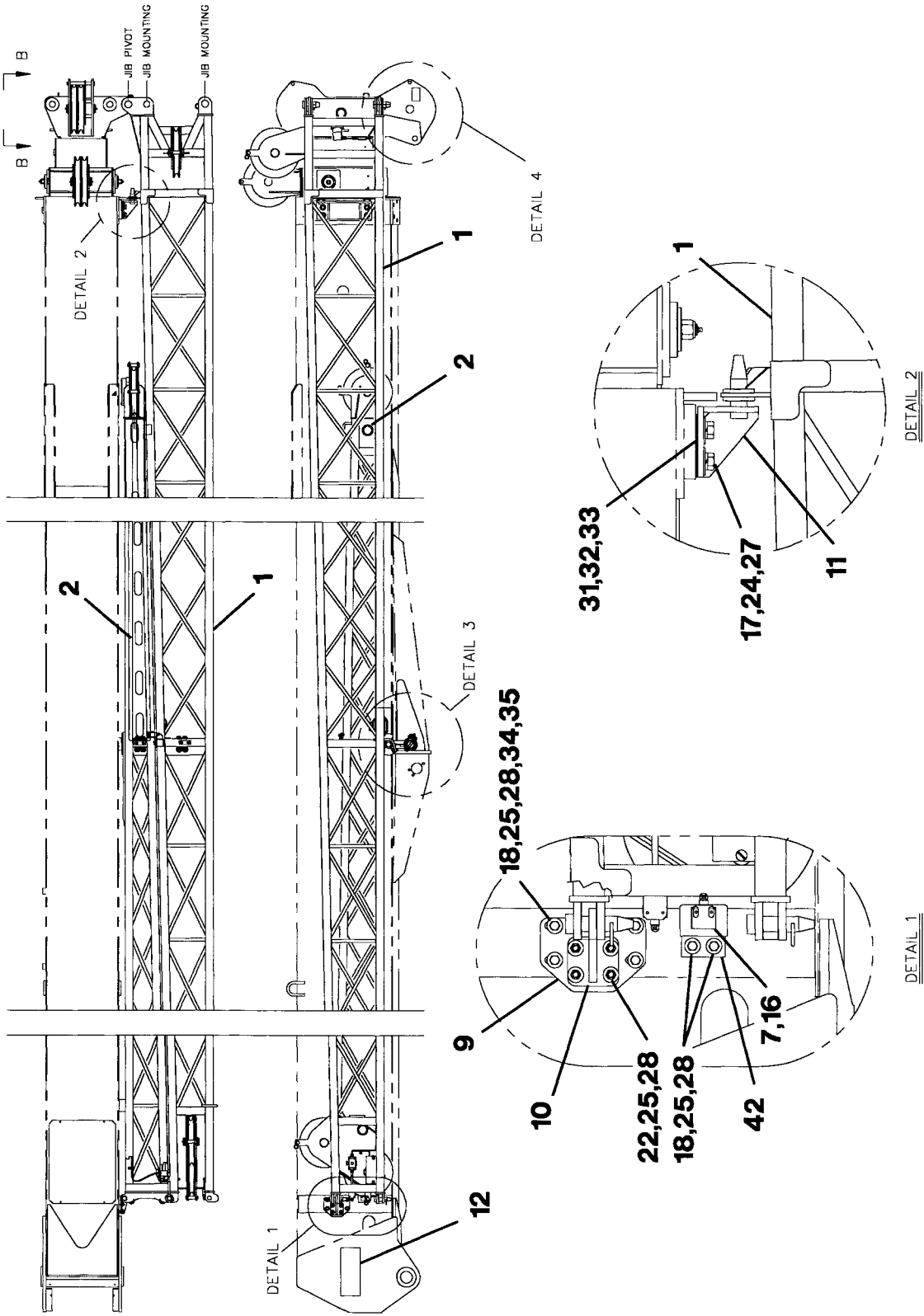
AUXILIARY SHEAVE INSTALLATION

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	861-90362	.AUXILIARY SHEAVE BLOCK ASSEMBLY	1
2	870-30213	.PIN - 1 1/4	REF
3	200-10013	.RING - RETAINING	REF
4	224-04002	.HAIRPIN - 3/16	REF
	P-2606		

**AUXILIARY SHEAVE INSTALLATION****735-00007**

LATTICE JIB INSTALLATION

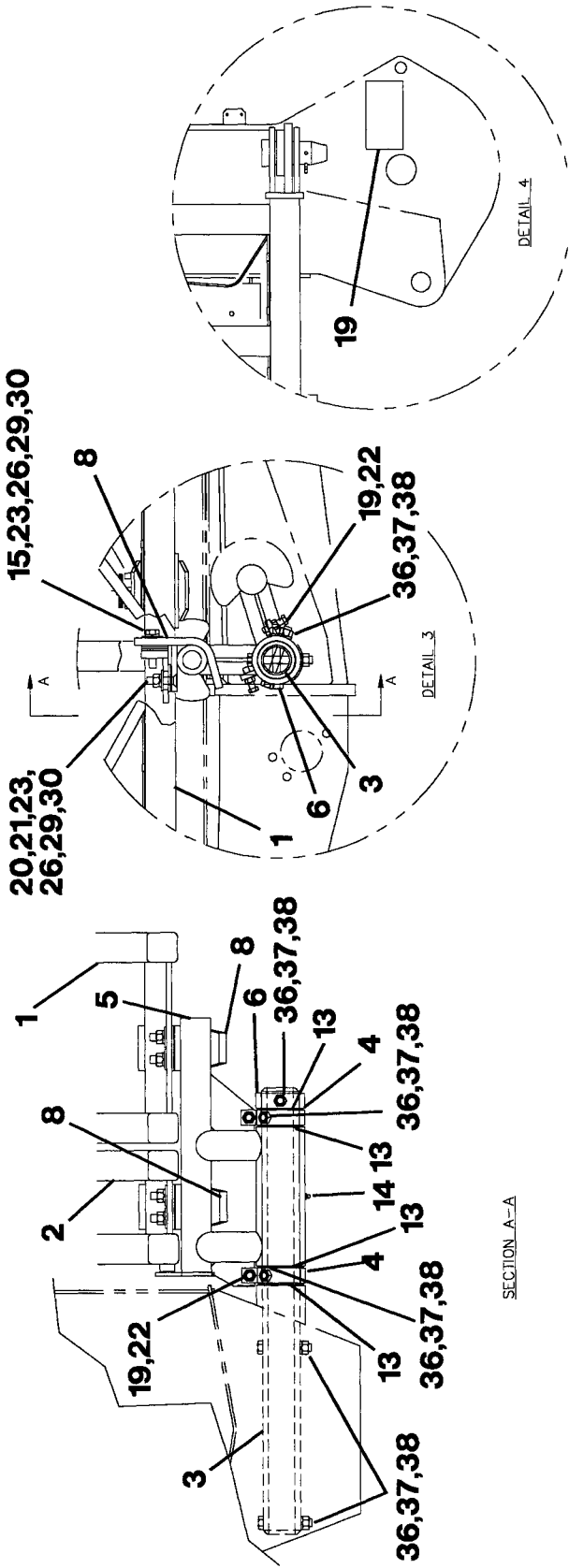
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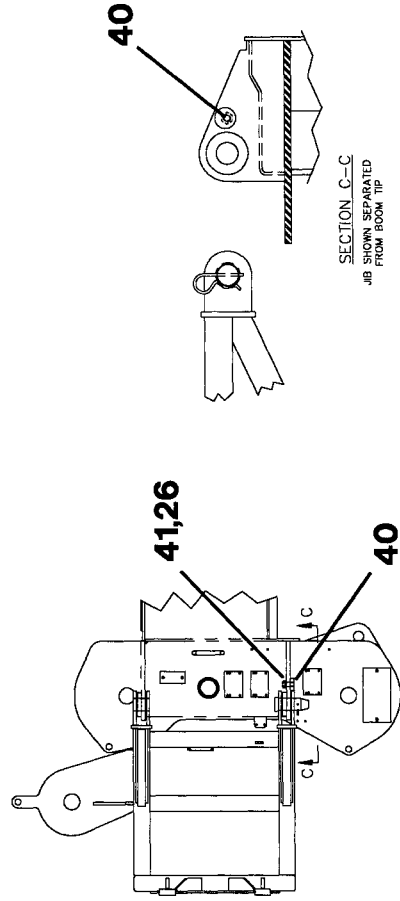
730-50250

P-2525

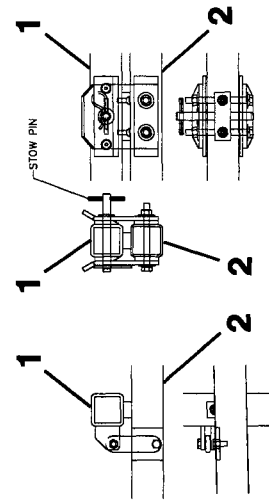
LATTICE JIB INSTALLATION



SECTION A-A



VIEW B-B  
JIB SHOWN IN  
OPERATING POSITION



TYPICAL LATCHING DETAILS

730-50250



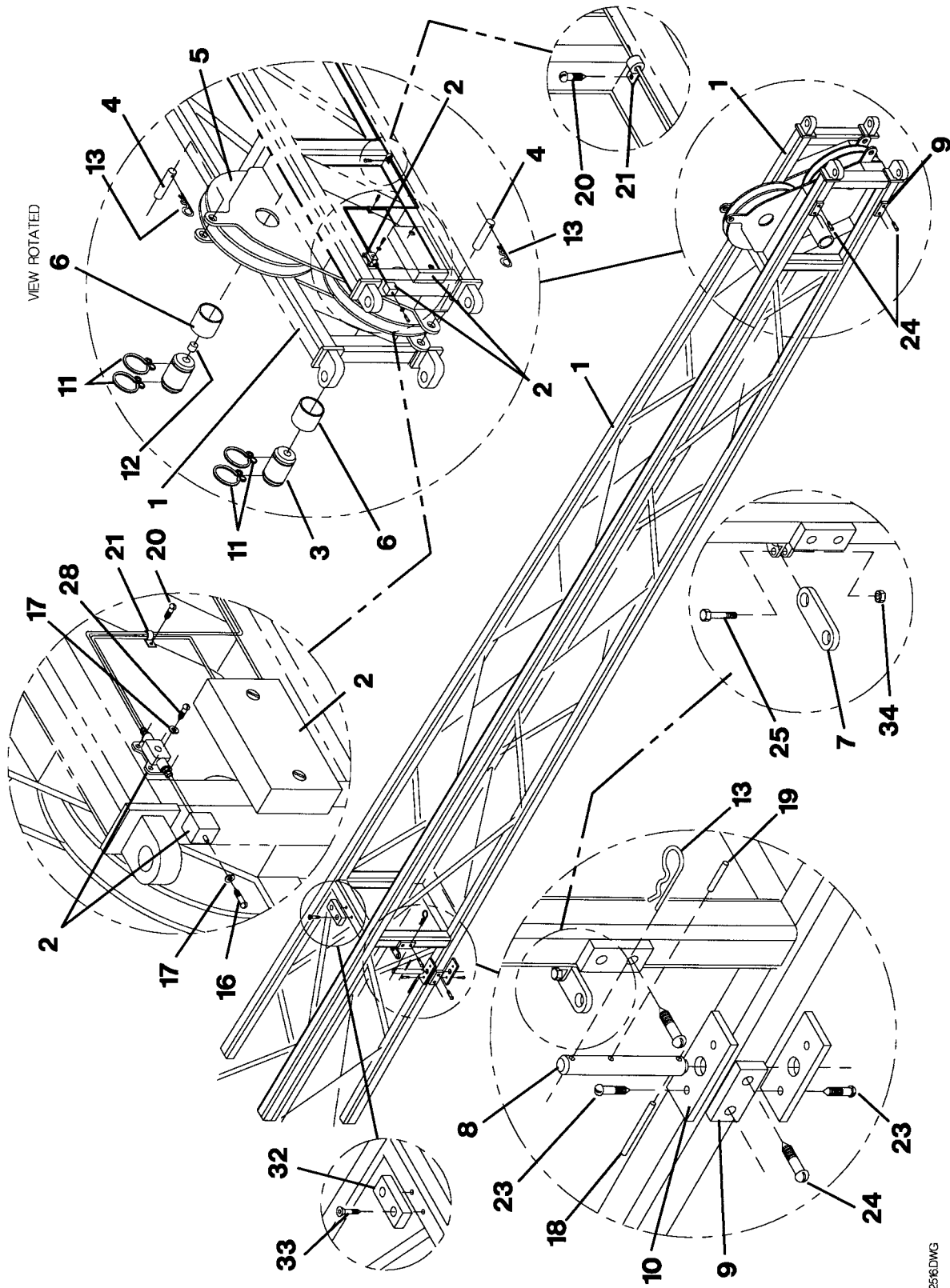
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	730-50246	.BASE - LATTICE JIB ASSEMBLY	1
2	730-50247	.FLY - LATTICE JIB ASSEMBLY	1
3	031-40234	.TUBE - PIVOT	1
4	730-90275	.SECTOR WELDMENT	2
5	770-02116	.BRACKET - PIVOTING JIB STOW	1
6	031-50044	.COLLAR - REATINING	1
7	400-00958	.SWITCH - JIB STOWED ASSEMBLY	1
	400-05189	..SWITCH - LIMIT-ROLLER	1
8	770-02099	.BRACKET - CATCH WELDMENT	2
9	730-90274	.PLATE - MOUNTING WELDMENT	1
10	770-02118	.BRACKET - REAR JIB STOW	1
11	770-02203	.BRACKET - TIP JIB STOW	2
12	652-00377	.PLACARD - JIB STOW PROCEDURE	1
13	222-29018	.BUSHING - 3 1/4 x 2 1/2	8
14	501-03001	.FITTING - LUBE	1
15	220-04011	.BOLT 1/2 x2 1/4" LONG	4
16	220-30014	.BOLT #10 x 1 1/4" LONG	2
17	220-06016	.BOLT 5/8 x 1 1/2" LONG	4
18	220-02004	.BOLT 3/8 x 1" LONG	6
19	220-02006	.BOLT 3/8 x 1 1/2" LONG	4
20	223-00608	.SCREW - MACHINE 1/2 x 2" LONG	4
21	221-04001	.NUT - HEX 1/2	4
22	221-02001	.NUT - HEX 3/8	8
23	222-04001	.WASHER - FLAT 1/2	8
24	222-06006	.WASHER - FLAT 5/8	4
25	222-02005	.WASHER - FLAT 3/8	14
26	222-14003	.WASHER - LOCK 1/2	9
27	222-16003	.WASHER - LOCK 5/8	4
28	222-12001	.WASHER - LOCK 3/8	14
29	787-00290	.SHIM - .125THICK	A/R
30	787-00289	.SHIM - .063 THICK	A/R
31	787-00228	.SHIM - .100 THICK	A/R
32	787-00227	.SHIM - .063 THICK	A/R
33	787-00226	.SHIM - .040 THICK	A/R
34	787-00292	.SHIM - .125 THICK	A/R
35	787-00291	.SHIM - .063 THICK	A/R
36	220-03012	.BOLT 7/16 x 4" LONG	5
37	221-93001	.NUT - LOCK 7/16	5
38	222-03002	.WASHER - FLAT 7/16	5
39	651-00203	.PLACARD - WARNING REMOVE JIB	2

P-2525

**730-50250**

**LATTICE JIB INSTALLATION**

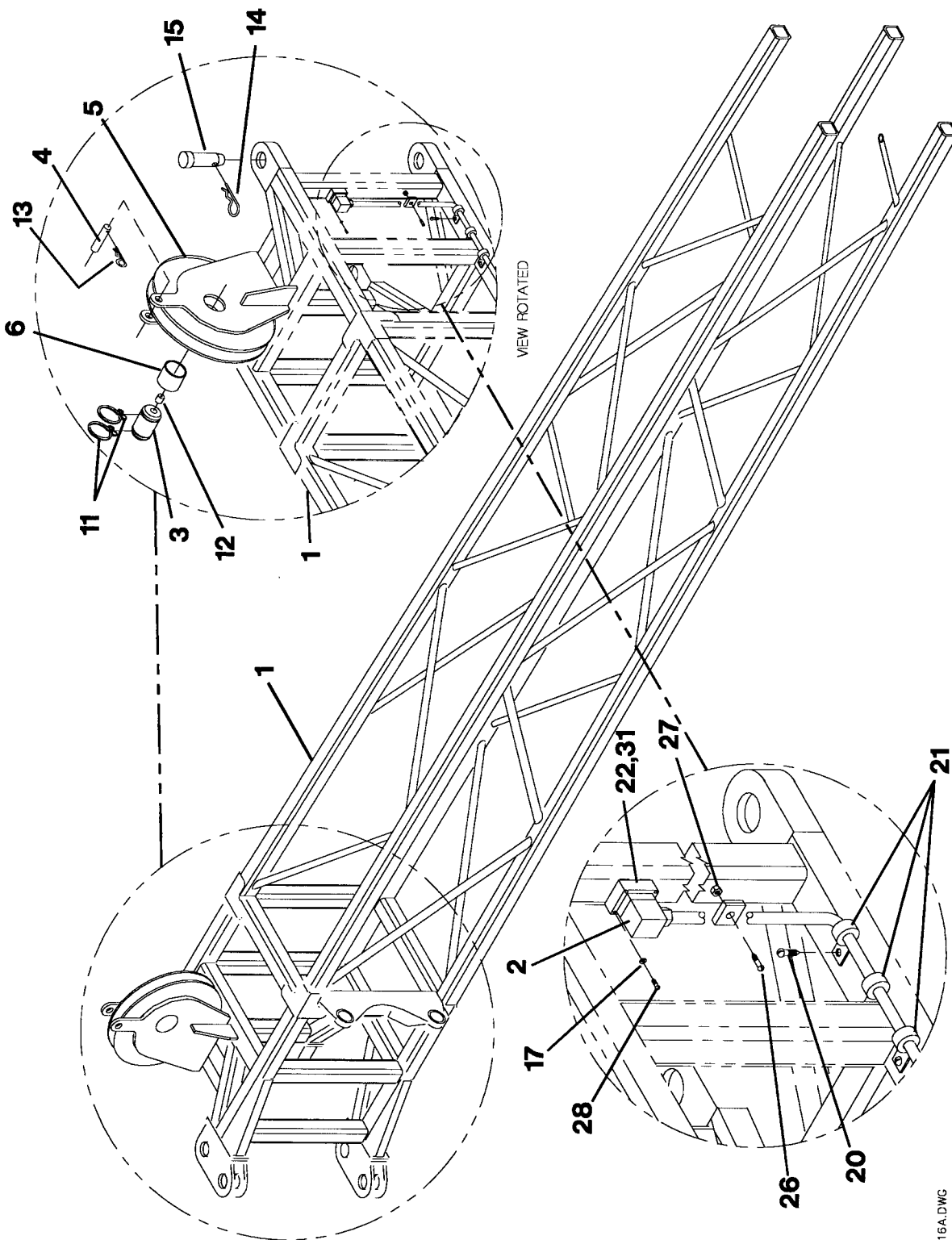
**BASE JIB ASSEMBLY - LATTICE**



730-50246

P-256DMG

BASE JIB ASSEMBLY - LATTICE



P-2516A.DWG

730-50246

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	730-51286	.JIB - BASE WELDMENT	1
2	861-90351	.SWITCH - ATB ASSEMBLY-JIB BASE (SEE 5.1.1)	1
3	870-60215	.PIN - 2" JIB SHEAVE	3
4	870-10174	.PIN - CLEVIS 3/4 x 2 3/4" LONG	3
5	860-70008	.SHEAVE ASSEMBLY 5/8 ROPE	3
6	274-30006	.BEARING - INNER RACE	3
7	789-04613	.PLATE - JIB STOW LATCH	1
8	870-00143	.PIN - 2ND STAGE STOW	1
9	729-02558	.PAD - JIB BUMPER	2
10	729-02559	.PAD - JIB RAMP	2
11	200-30006	.RING - RETAINING	6
12	501-03001	.FITTING - LUBE 1/4	3
13	224-02006	.HAIRPIN .120	3
14	224-04002	.HAIRPIN .178	4
15	870-40169	.PIN 1 1/2	4
16	220-30019	.SCREW - SLOT HEAD MACHINE #10 x 3/4" LONG	2
17	222-10006	.WASHER - LOCK #10	17
18	224-16003	.PIN - ROLL 1/4 x 2 1/4" LONG	1
19	224-12009	.PIN - ROLL PIN - ROLL 1/8 x 1" LONG	1
20	223-15219	.SCREW 1/4 x 1/2" LONG	15
21	201-00141	.CLAMP	15
22	400-23338	.BOX & GASKET PANEL MOUNTING	1
23	223-00204	.SCREW 1/4 x 1/2" LONG	4
24	223-00205	.SCREW 1/4 x 3/4" LONG	4
25	220-01003	.BOLT 5/16 x 1 1/4" LONG	1
26	220-02048	.SCREW - HEX HEAD CAP 3/8 x 1 1/4" LONG	1
27	221-02001	.NUT - HEX 3/8	1
28	223-04001	.SCREW - HEX HEAD MACHINE #10 x 1/2" LONG	8
*29	651-00196	.PLACARD - LANYARD ATTACH	2
*30	651-00302	.PLACARD - PERSONNEL ATTACH	2
31	400-23340	.INSERT - FEMALE-6 POSITION	1
32	729-02170	.WEAR PAD	1
33	223-00303	.SCREW - 5/16 x 7/8" LONG	2
34	221-91001	.NUT - LOCK 5/16	1

P-2516.D

\*ITEMS NOT SHOWN

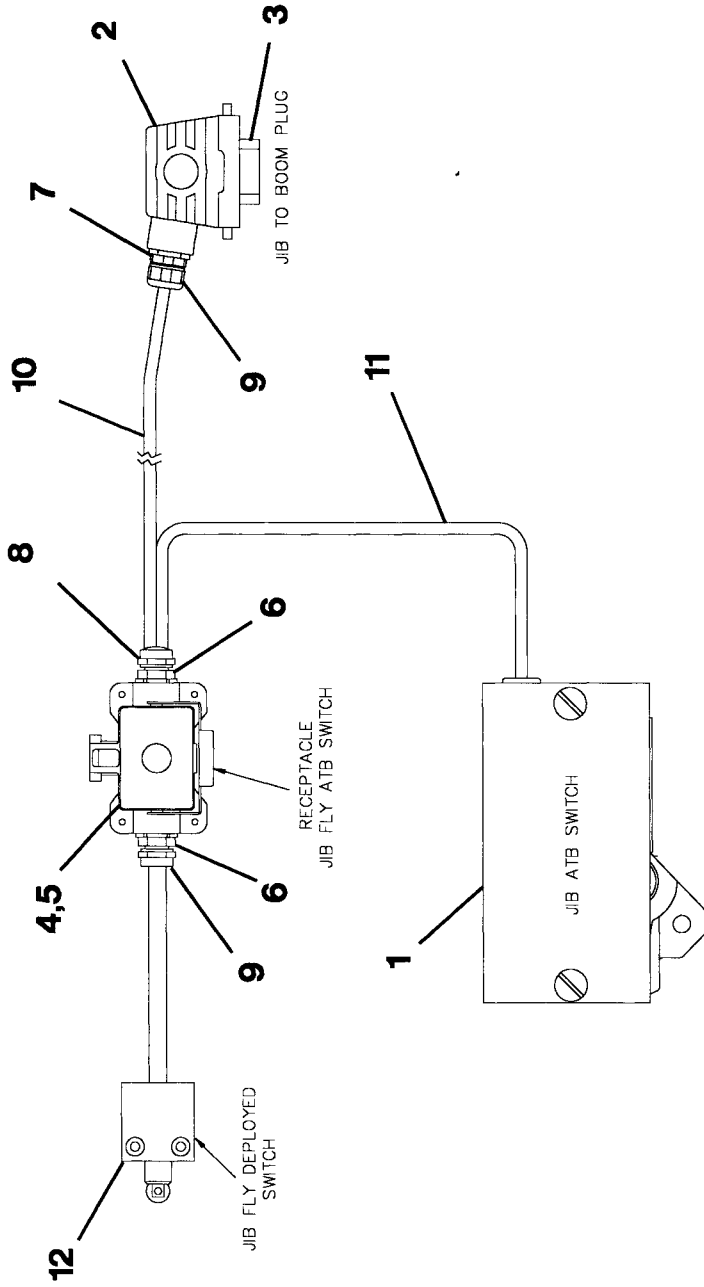
**BASE JIB ASSEMBLY - LATTICE**

**730-50246**

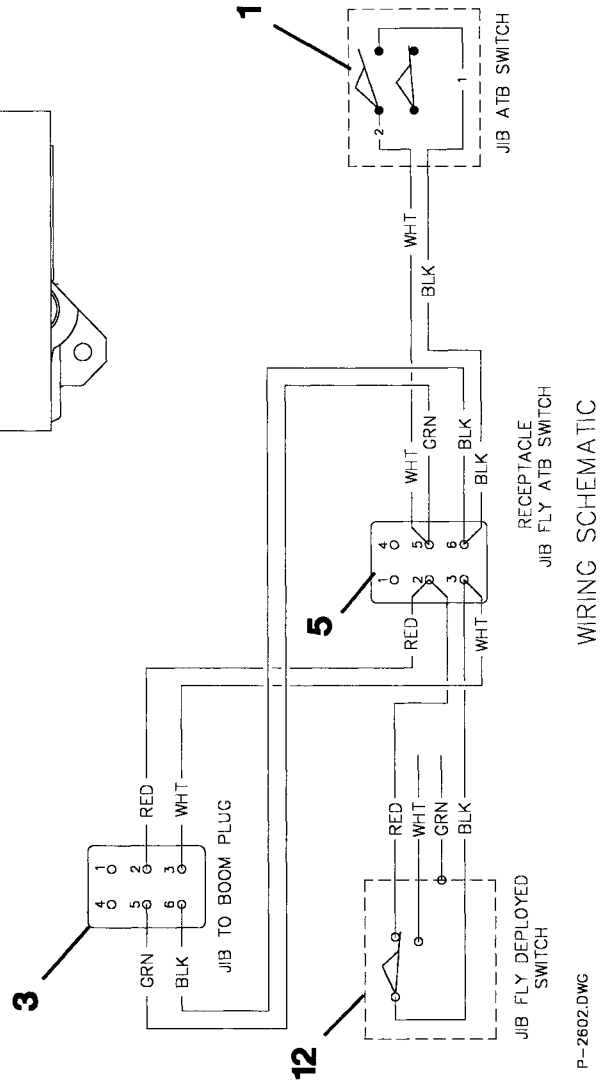
5.1

**ATB SWITCH ASSEMBLY - JIB BASE**

5.1.1



861-90351



P-2602.DWG

WIRING SCHEMATIC

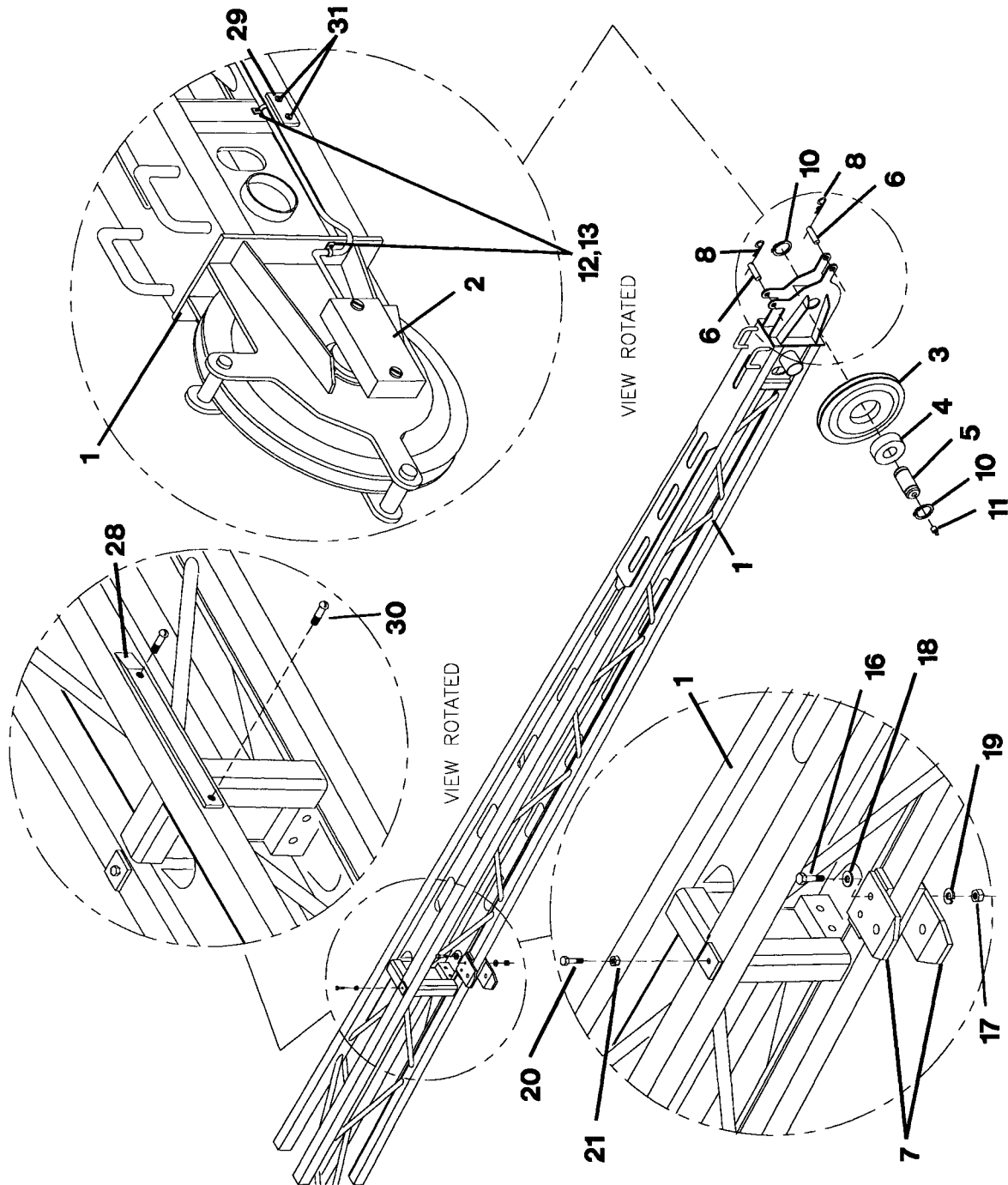
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	400-01837	.SWITCH - ATB	1
	400-15571	..COVER - ATB SWITCH	1
2	400-23335	.HOOD - LATERIAL ENTRY	1
3	400-23341	.INSERT - MALE	1
4	400-23339	.BASE - MOUNTING BOX	1
5	400-23340	.INSERT - FEMALE	1
6	400-23342	.ADAPTER - CONNECTOR	3
7	400-15066	.CONNECTOR - STRAIN RELIEF	1
8	400-15064	.CONNECTOR - STRAIN RELIEF	1
9	400-15084	.CONNECTOR - STRAIN RELIEF	1
10	861-90364	.CABLE - 4/20 GA. SHIELED	A/R
11	861-90365	.CABLE - 4/20 GA. SHIELED	A/R
12	400-05189	.SWITCH - LIMIT	1
	P-2602		

ATB SWITCH ASSEMBLY - JIB BASE

861-90351

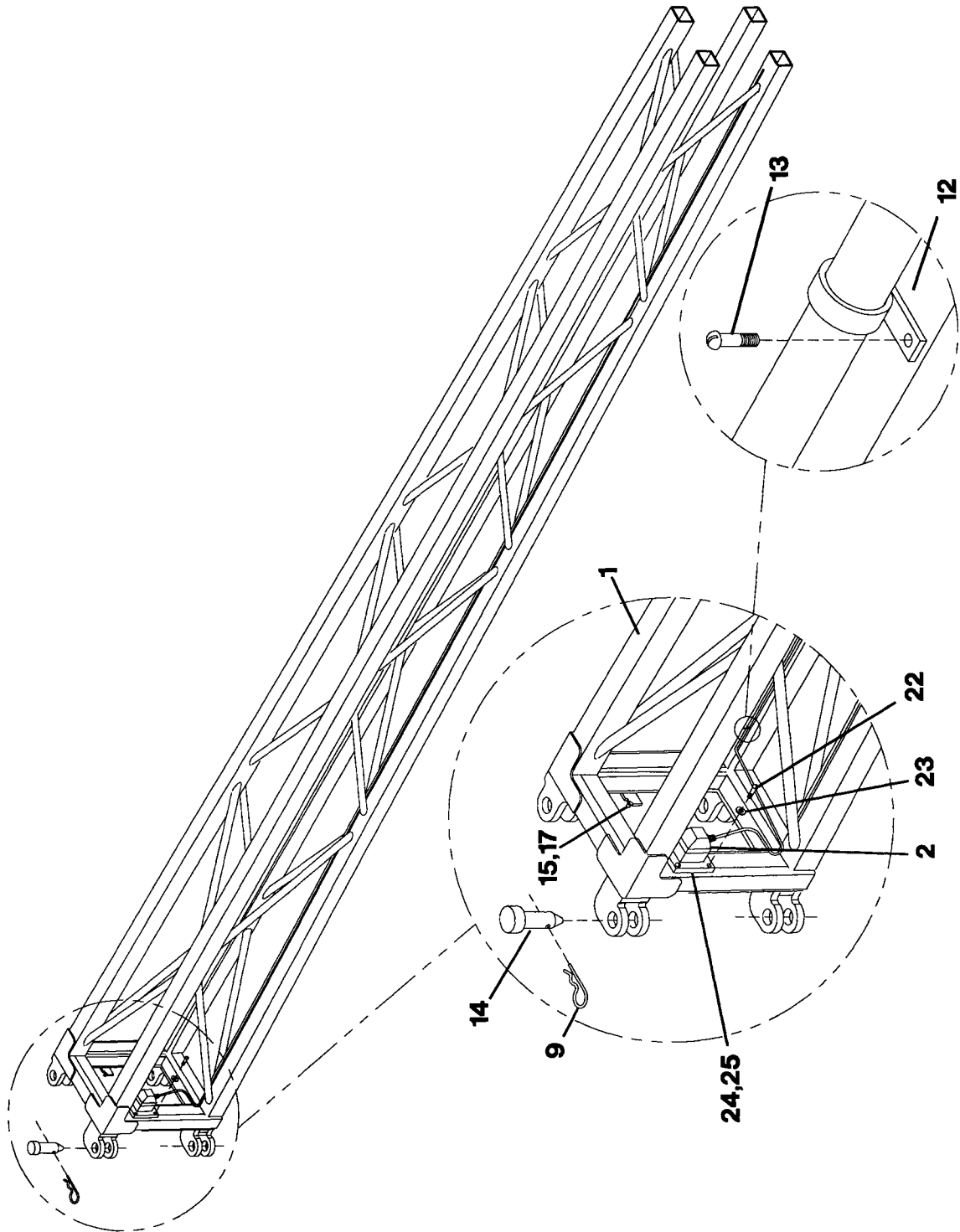
5.1.1

**FLY JIB ASSEMBLY - LATTICE**



730-50247

P-2517.DWG



730-50247

P-2517A.DWG



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	730-51289	.JIB - FLY WELDMENT-LATTICE	1
2	861-90355	.SWITCH - ATB ASSEMBLY-JIB FLY (SEE 5.2.1)	1
3	860-70008	.SHEAVE ASSEMBLY-5/8 ROPE	1
4	274-30006	.BEARING - INNER RACE	1
5	870-60215	.PIN - 2" JIB SHEAVE	1
6	870-10174	.PIN - CLEVIS 3/4 x 2 3/4" LONG	2
7	789-04493	.PLATE - GUIDE	2
8	224-02006	.HAIRPIN .120	2
9	224-04002	.HAIRPIN .178	4
10	200-30006	.RING - RETAINING	2
11	501-03001	.FITTING - LUBE 1/4	1
12	201-00141	.CLAMP	7
13	223-15219	.SCREW 1/4 x 1 1/2" LONG	7
14	870-20251	.PIN 1-JIB PIVOT	4
15	220-02006	.SCREW - HEX HEAD CAP 3/8 x 1 1/2" LONG	1
16	220-02009	.SCREW - HEX HEAD CAP 3/8 x 4" LONG	2
17	221-02001	.NUT - HEX 3/8	3
18	222-02005	.WASHER - FLAT 3/8	4
19	222-12001	.WASHER - LOCK 3/8	2
20	220-01006	.SCREW - HEX HEAD CAP 5/16 x 1 1/2" LONG	1
21	221-01002	.NUT - HEX JAM 5/16	1
22	223-04001	.SCREW - HEX HEAD MACHINE #10 x 1/2" LONG	4
23	222-10006	.WASHER - LOCK #10	4
24	400-23338	.BOX - PANEL MOUNTING-6 POSITION	1
25	400-23340	.INSERT - FEMALE-6 POSITION	1
*26	651-00196	.PLACARD - LANYARD ATTACH	2
*27	651-00302	.PLACARD - PERSONNEL ATTACH	2
28	729-02570	.PAD - FLY STOW BUMPER	1
29	729-02571	.PAD - FLY TIP BUMPER	1
30	223-00205	.SCREW 1/4 x 3/4" LONG	3
31	223-00214	.SCREW 1/4 x 2" LONG	2

P-2517.D

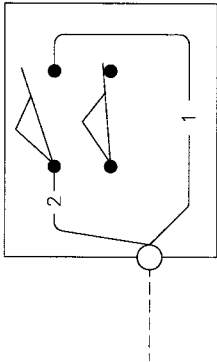
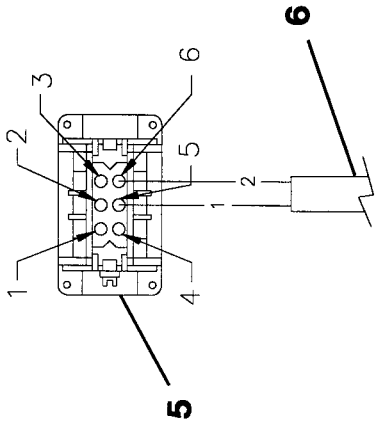
\*ITEMS NOT SHOWN

FLY JIB ASSEMBLY - LATTICE

**730-50247**

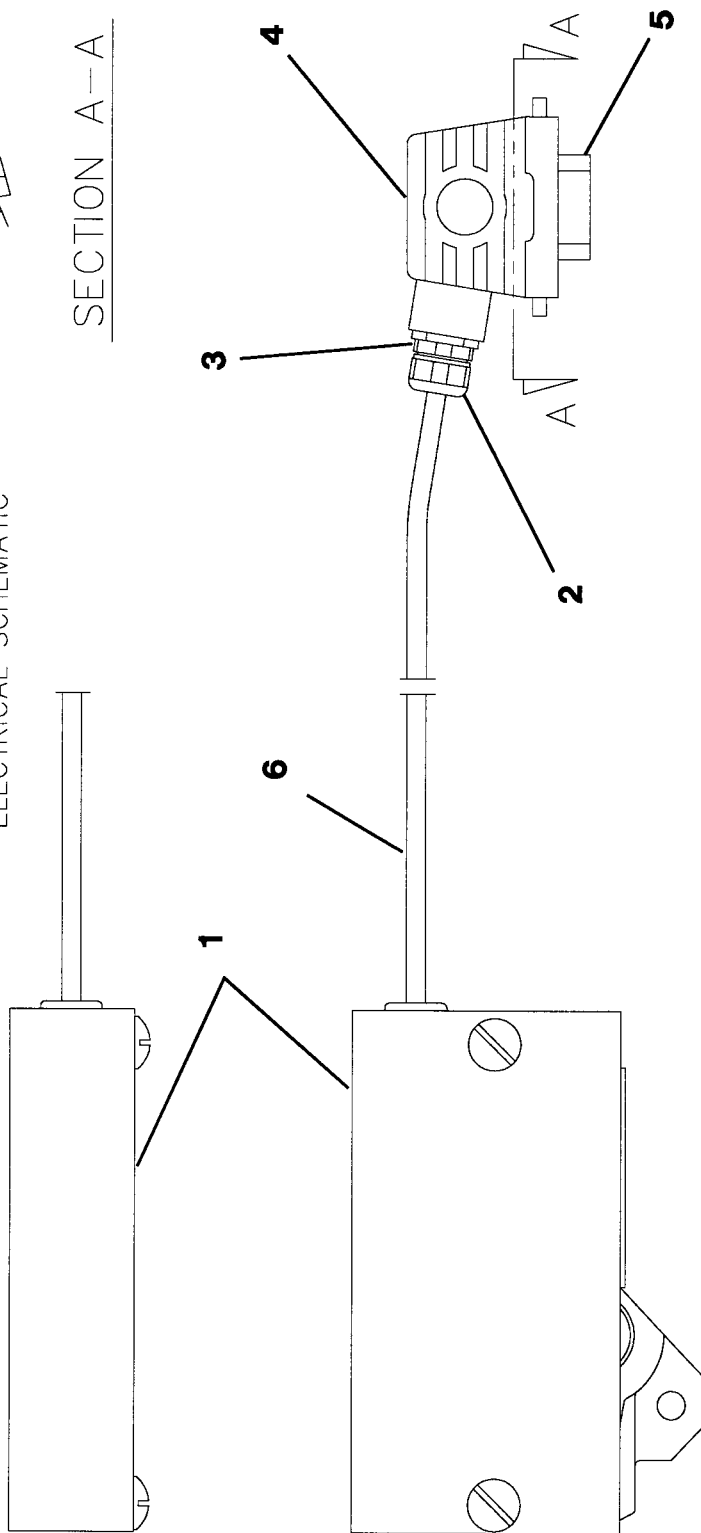
**ATB SWITCH ASSEMBLY - JIB FLY**

5.2.1



ATB SWITCH  
ELECTRICAL SCHEMATIC

**SECTION A--A**



**861-90355**

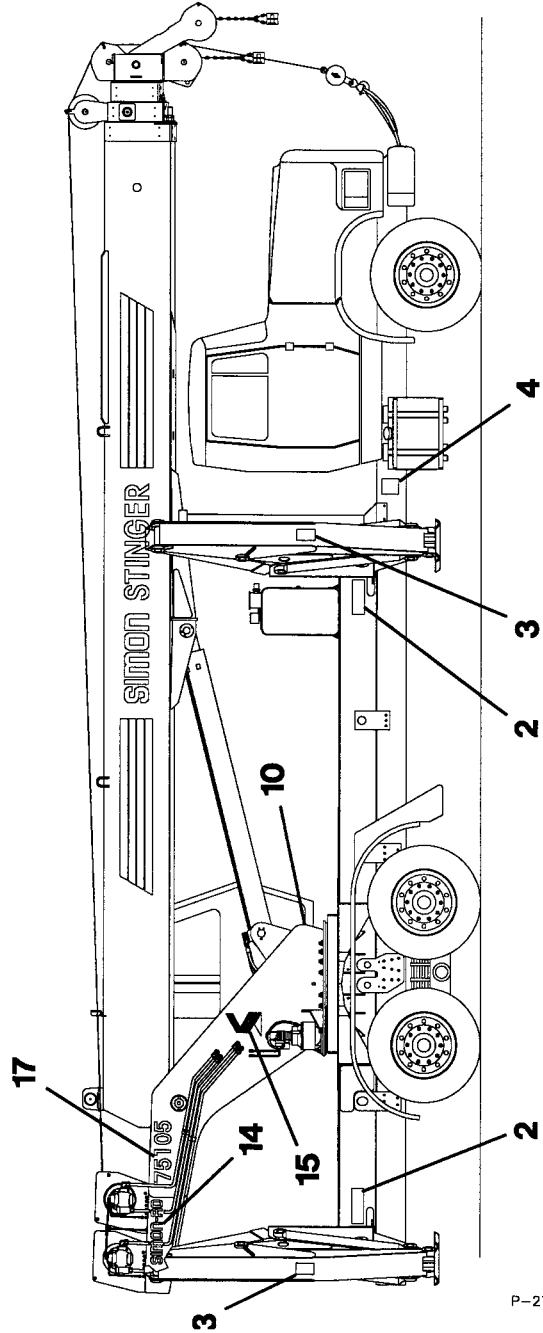
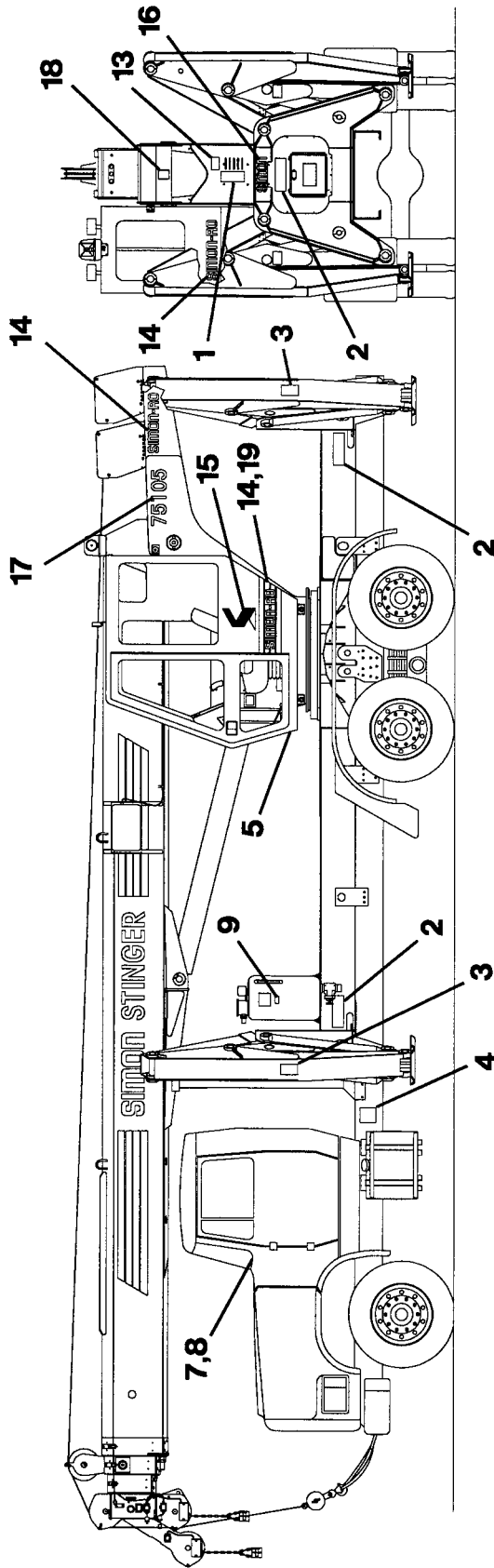
P-2603

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	400-01837	.SWITCH - ATB	1
	400-15571	..COVER - ATB SWITCH	1
2	400-15055	.CONNECTOR - STRAIN RELIEF	1
3	400-23342	.CONNECTOR - ADAPTER	1
4	400-23335	.HOOD - LATERAL ENTRY	1
5	400-23341	.INSERT - MALE	1
6	861-90365	.CABLE - 4/20 GA SHEILED	A/R
	P-2603		

861-90355

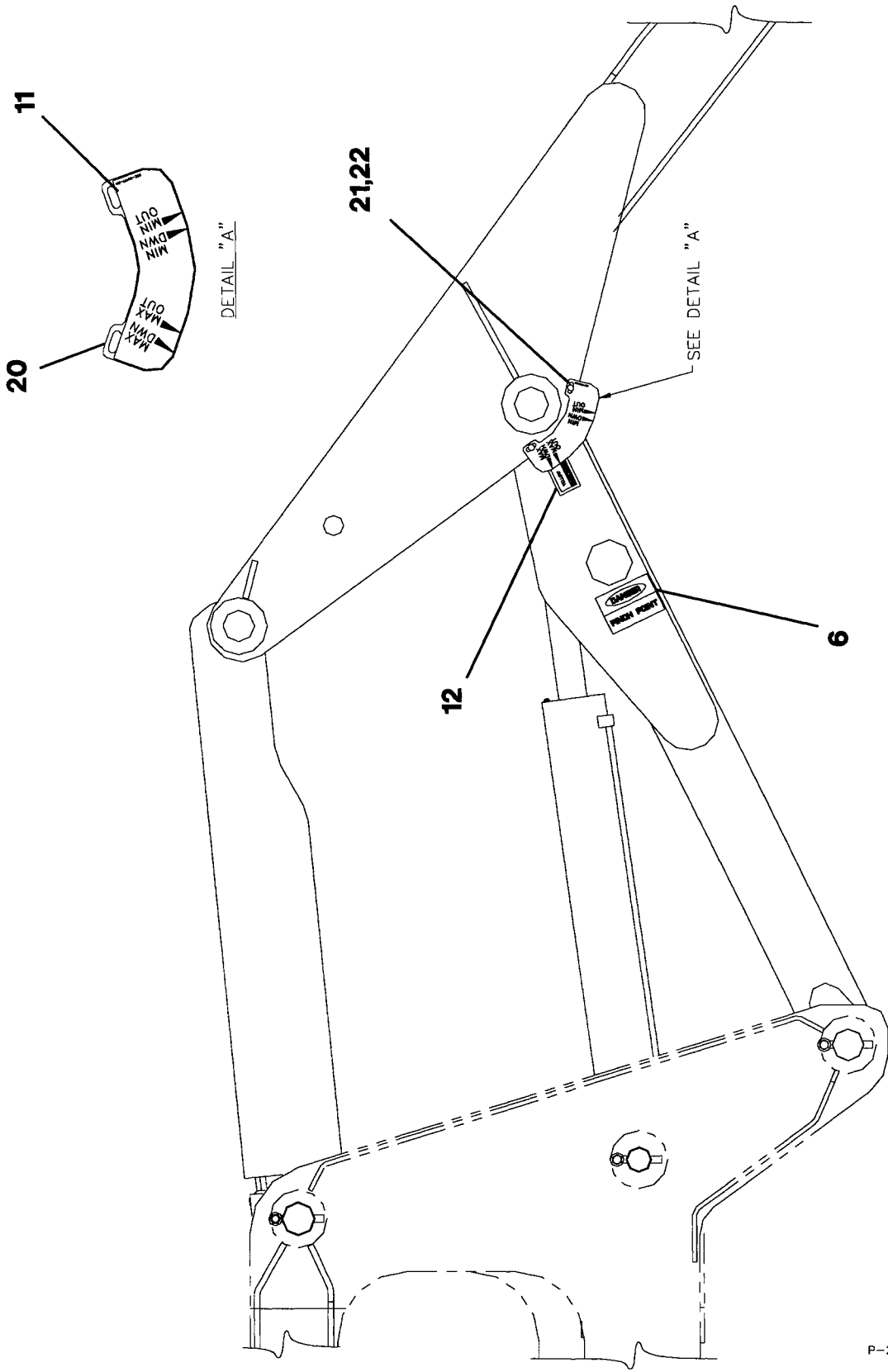
5.2.1

PLACARD INSTALLATION



659-00092

P-2719

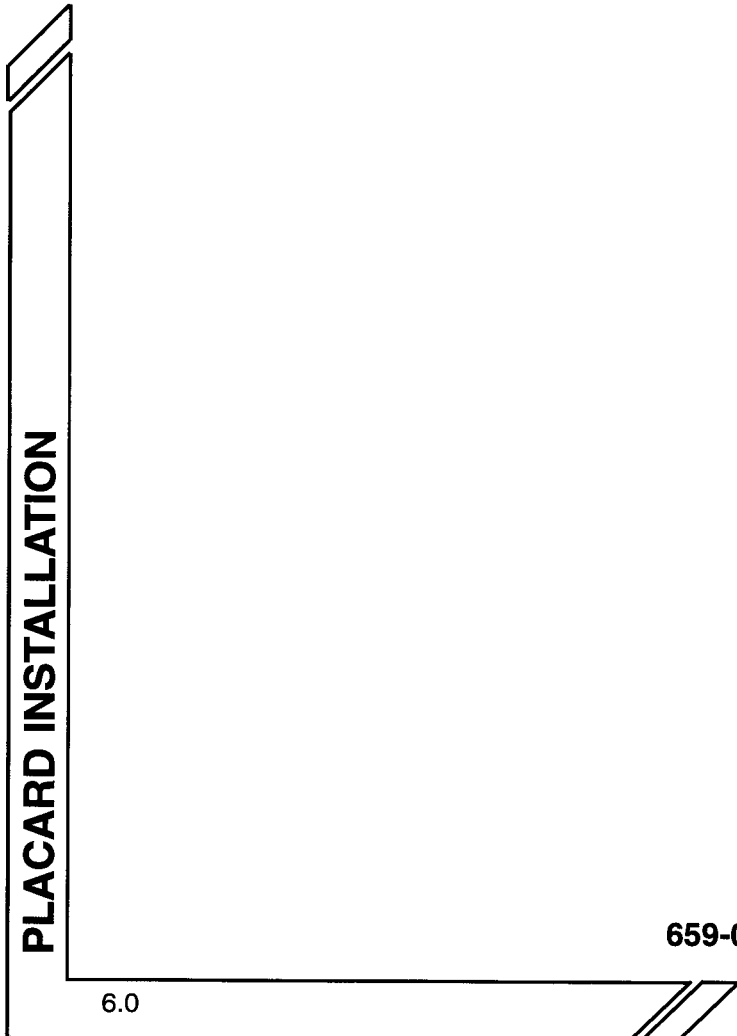


P-2719A

659-00092

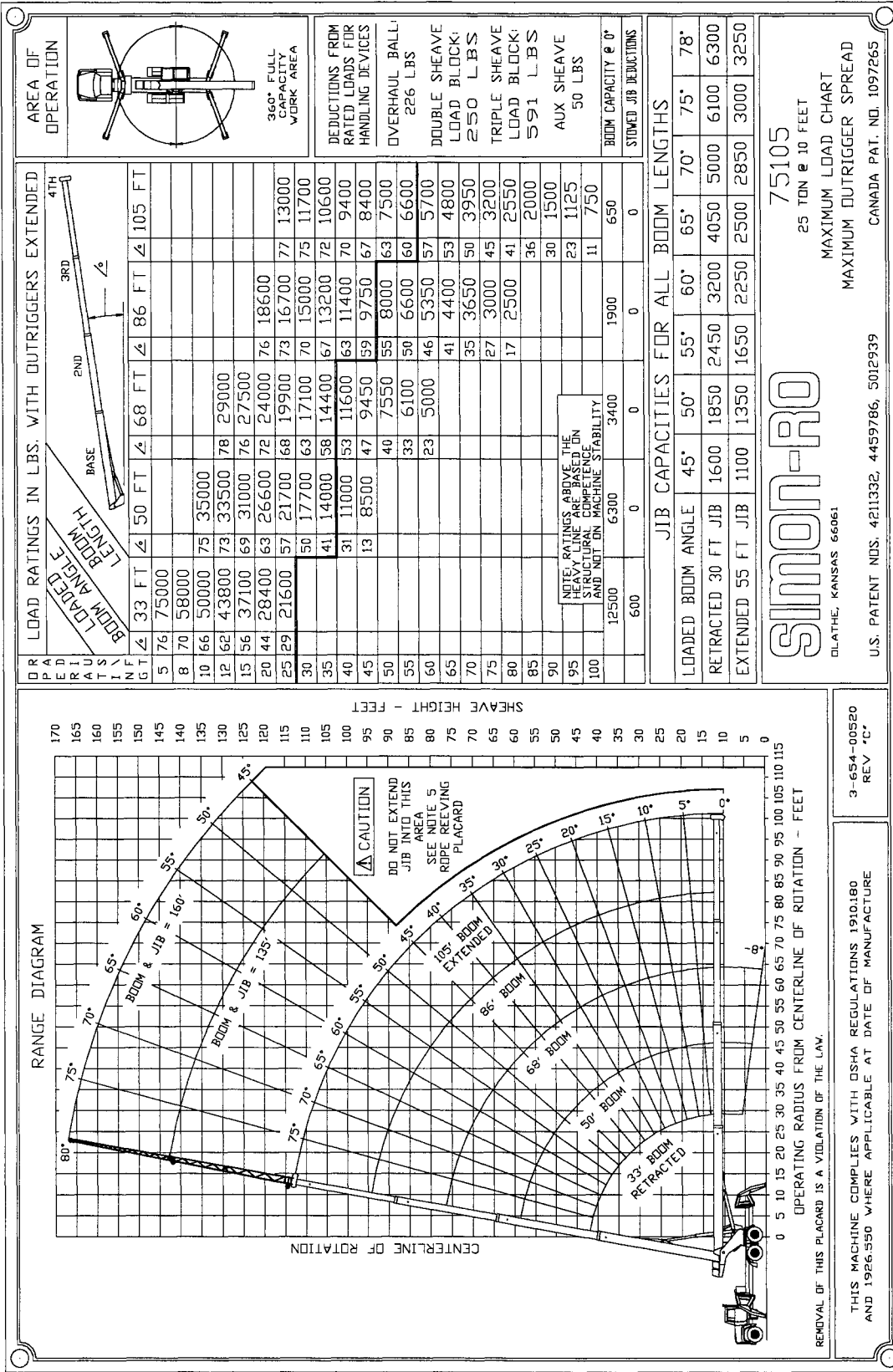
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	651-00746	.PLACARD - MAIN VALVE EMERGENCY CONTROL	1
2	651-00184	.PLACARD - ELECTRICUTION HAZARD	5
3	651-00184	.PLACARD - DANGER OUTRIGGER EXTENSION	4
4	651-00195	.PLACARD - DRIVELINE	2
5	651-00253	.PLACARD - WARNING REPLACEMENT	1
6	651-00312	.PLACARD - DANGER PINCH POINT	8
7	651-00314	.PLACARD - NO RIDER CRANE CAB	1
8	652-00059	.PLACARD - WARNING, RPM, ROADING	1
9	652-00073	.PLACARD - HYDRAULIC OIL ONLY	1
10	652-00370	.PLACARD - MASTER LUBE CHART	1
11	652-00411	.PLACARD - OUTRIGGER ANGLE INDICATOR	4
12	652-00414	.PLACARD - OUTRIGGER ANGLE POSITION	4
13	653-00247	.PLACARD - TRUCK CRANE VIN	1
14	653-00252	.PLACARD - SIMON-RO LOGO	3
15	653-00264	.PLACARD - LOGO, SIMON ACCESS	2
16	653-00282	.PLACARD - SIMON LOGO	1
17	653-00298	.PLACARD - 75105	2
18	653-00304	.PLACARD - MADE IN THE USA	1
19	659-00065	.PLACARD - 4-BAR STRIPING	1
20	789-04708	.PLATE - PLACARD MOUNTING	4
21	223-15217	.BOLT - HHCS 5/16 x 1/2" LONG	8
22	222-01001	.WASHER - FLAT 5/16	8

P-2719



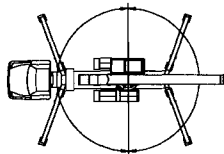
**MAXIMUM LOAD CHART**

6.1



**MAXIMUM OUTRIGGER SPREAD**  
**654-00520**

**MAXIMUM LOAD CHART**

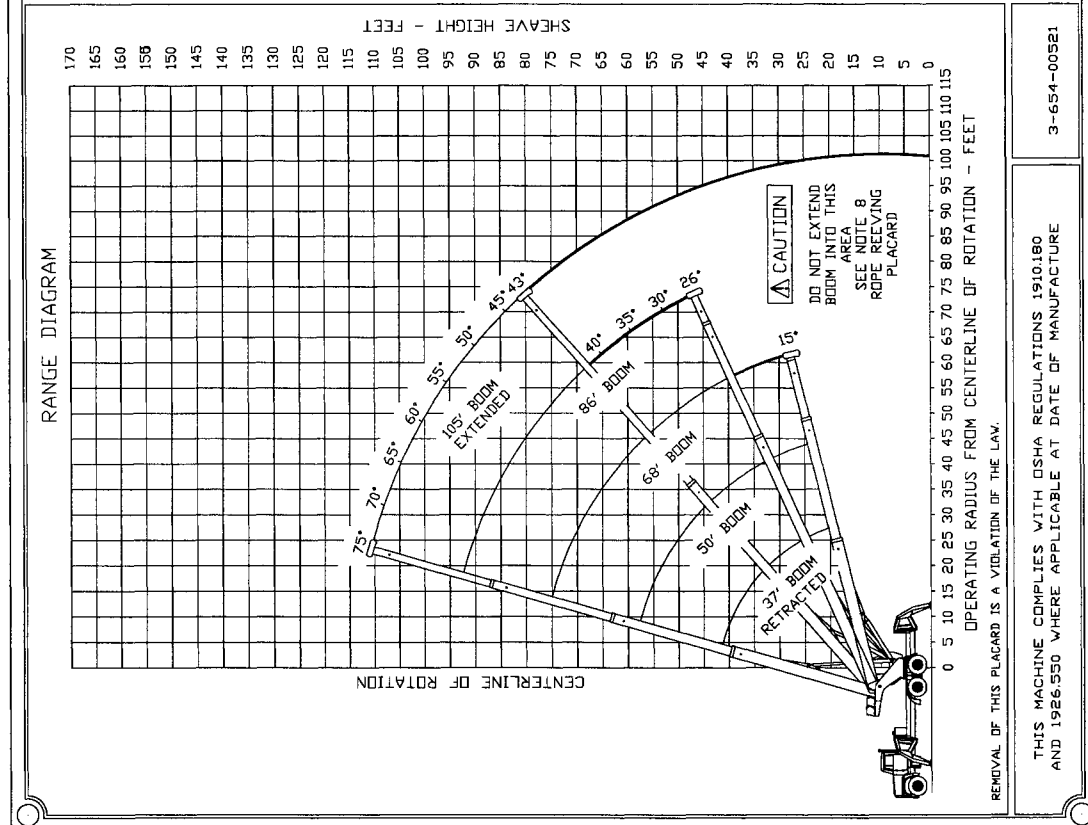
DRA PER AUTS INF GT	LOAD RATINGS IN LBS. WITH OUTRIGGERS EXTENDED				AREA OF OPERATION  360° FULL CAPACITY WORK AREA	
	LOADED BOOM LENGTH	BOOM ANGLE	BASE	END		
5	75	52500	50 FT	68 FT	86 FT	105 FT
8	69	40500				
10	66	34500	75	34500		
12	62	30000	73	30000	78	30750
15	55	25000	69	25000	76	26100
20	44	19000	63	19750	72	20500
25	28	14000	56	14750	67	15000
30	30		48	10250	62	10750
35	30		40	7400	57	7700
40	30		30	5500	51	5800
45	15		15	4200	46	4500
50	50		40	3300	53	3500
55	55		32	2450	49	2700
60	60		22	1800	44	1950
65	65		39	1350	51	1700
70	70		33	850	47	1150
75	75		26	450	43	700
80	80					
85	85					
90	90					
95	95					
100	100					
			11000	4200	1300	
			0	0	0	0

DEDUCTIONS FROM RATED LOADS FOR HANDLING DEVICES  
OVERHAUL BALL: 226 LBS  
1 DOUBLE SHEAVE LOAD BLOCK: 250 LBS  
2 TRIPLE SHEAVE LOAD BLOCK: 591 LBS  
AUX SHEAVE: 50 LBS

BOOM CAPACITY @ 15' STOWED JOB DEDUCTIONS: 0

NOTE: RATINGS ABOVE THE HEAVY LINE ARE BASED ON STRUCTURAL COMPLIANCE AND NOT ON MACHINE STABILITY

**CAUTION**  
WITH ANY OUTRIGGER LESS THAN FULLY EXTENDED, JIB MAY NOT BE ERRECTED



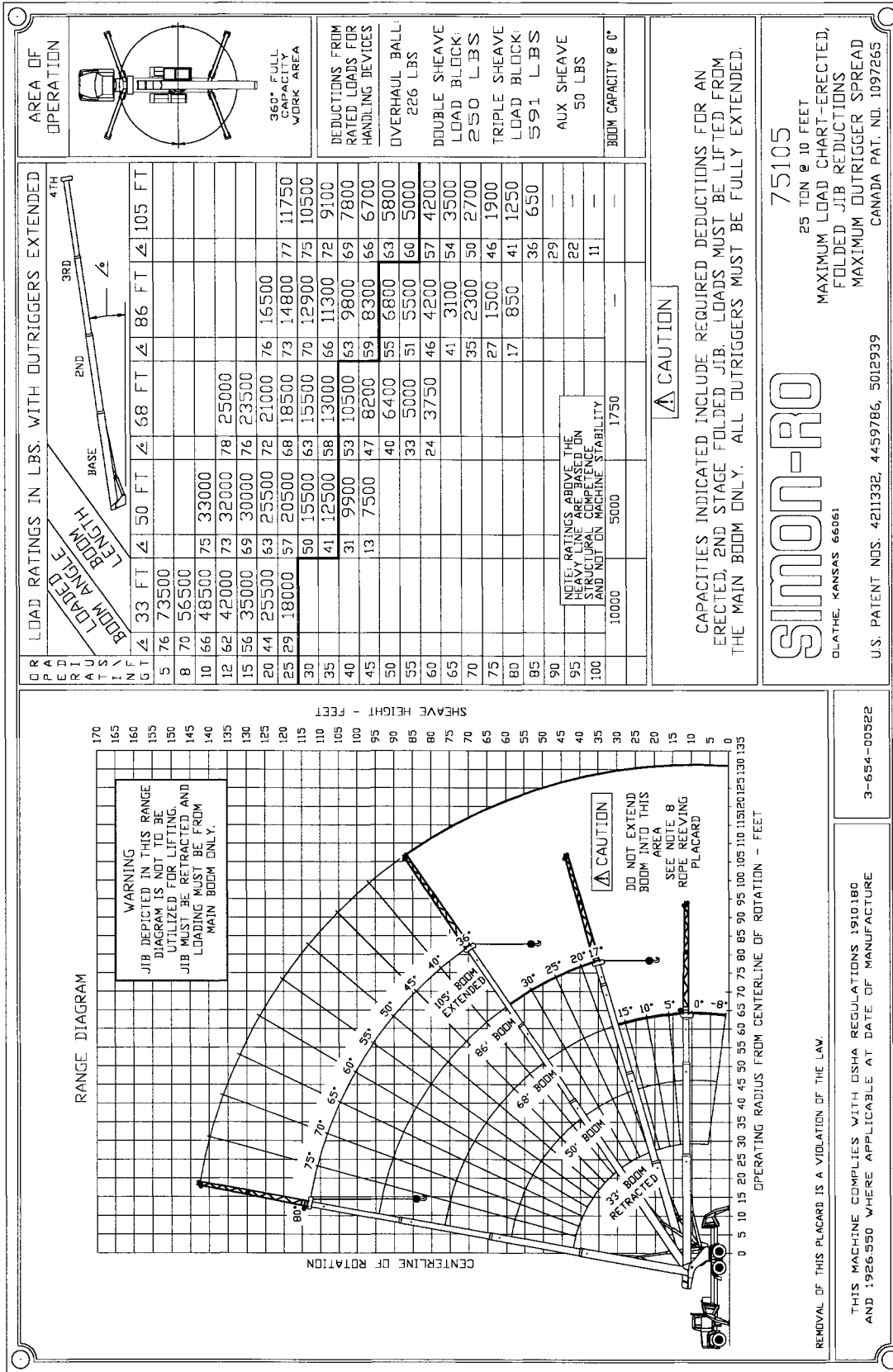
**simon-ro**  
D.LATHE, KANSAS 66061  
U.S. PATENT NOS. 4211332, 4459786, 5012939  
CANADA PAT. NO. 1097265

**MINIMUM OUTRIGGER SPREAD**  
**654-00521**



**MAXIMUM LOAD CHART**

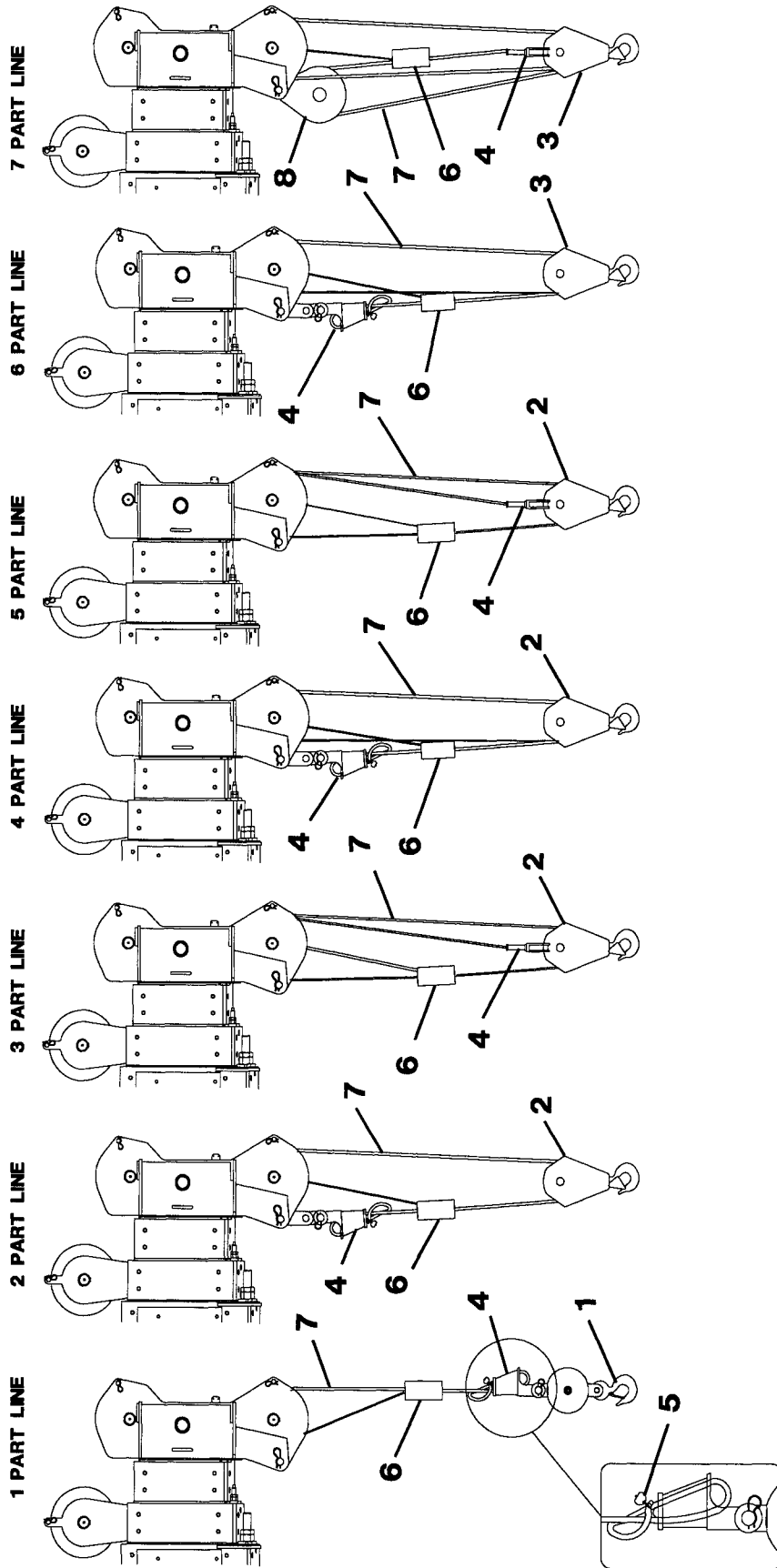
6.1



**ERECTED, FOLDED JIB REDUCTION  
 MAXIMUM OUTRIGGER SPREAD  
 654-00522**

WIRE ROPE REEVING

7.0



861-16085

P-2526

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	861-60087	.BALL AND HOOK - SWIVEL 5 TON	1
2	861-60086	.BLOCK - 35 TON LOAD 3 SHEAVE	1
3	861-60088	.BLOCK - 25 TON LOAD 2 SHEAVE	1
4	861-70014	.WEDGE AND SOCKET 9/16 (MAIN WINCH)	1
	861-70007	.WEDGE AND SOCKET 5/8 (AUX WINCH)	1
5	861-90059	.CLAMP	2
6	861-90357	.WEIGHT - COUNTER ANTI-2 BLOCK	1
7	861-16086	.WIRE ROPE 9/16 x 350" (MAIN WINCH)	1
	861-17039	.WIRE ROPE - 6 x 25 IWRC 5/8 x 350" (AUX. WINCH)	1
8	861-90362	.SHEAVE - AUXILIARY BLOCK ASSEMBLY	1

P-2526

**861-16085**