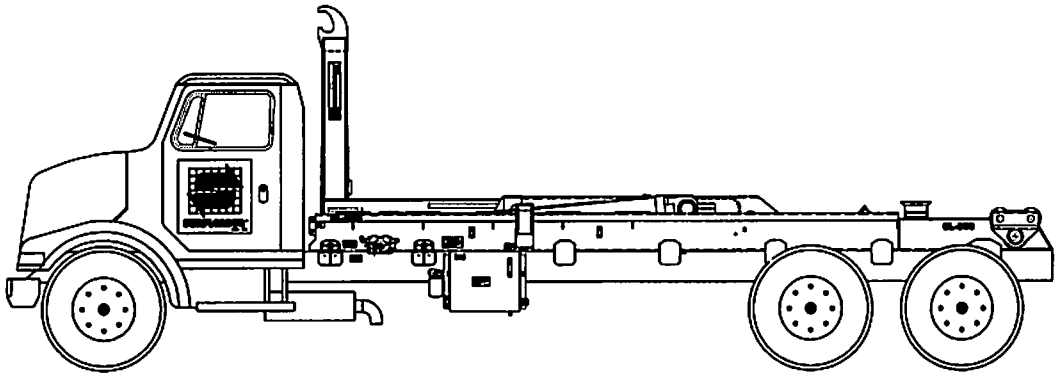
SWAPLOADER®
U.S.A. LTD.

Model SL-655

Parts and Operations Manual



Hoist Serial Number: _____

SWAPLOADER U.S.A., LTD.
1800 N.E. BROADWAY AVENUE
DES MOINES, IA 50313

WARRANTY REGISTRATION CARD

Model_____

Serial No._____

MOUNTED ON VEHICLE: Manufacturer _____

Model _____

Year _____

Wheel Base _____

Chassis Serial #_____

PTO Type _____

PTO Ratio _____

DISTRIBUTOR: Name (print)_____

Address _____

City, State, Zip_____

The unit has been checked and serviced according to the Pre-delivery inspection report. The proper mechanical operation of the unit as described in the written operational instructions provided by SwapLoader U.S.A., Ltd. has been discussed with the customer.

_____ Date Installed_____

Customer Name

_____ Date Inspected_____

Address

_____

City, State, Zip

_____ _____

Customer Signature Distributor Signature

Type of Application SwapLoader hoist will be used in:

☐ Waste Industry	☐ Landscaping	☐ Public Works
☐ Construction	☐ Tree/Nursery	☐ General Construction
☐ Recycling	☐ Roofing	☐ Other_____

PREDELIVERY CHECK LIST
SWAPLOADER U.S.A., LTD.

Conducted By: _____ Date: _____
Dealer: _____
Customer: _____

I. RECORD THE FOLLOWING INFORMATION:

SwapLoader Hoist:
Model No.: _____
Serial No.: _____

Truck Chassis:
Identification No.: _____
GVW: _____
CA (Cab to Axle): _____
Distance From Center Line of Rear Axle to Rear of Hoist: _____

PTO:
Make: _____
Model: _____
Serial No.: _____
% of Engine RPM: _____

Hydraulic Pump:
Make: _____
Model: _____
Serial No.: _____

II. INSTALLATION TO CHASSIS

Were there any problems bolting the hoist to the truck chassis with the parts provided? ___ Yes ___ No
If yes, please describe _____

_____

_____

____ All bolts checked for proper tightness.

____ Please include photos of the hoist installed on the truck chassis. Be sure to include at least one photo from each side.

III. CONTROLS

____ Controls easy to reach from diver's seat.
____ Movement of controls correct per installation instructions.

IV. HYDRAULICS INSTALLATION

____ Correct hydraulic oil level in reservoir
____ Check for leaks
Any abnormal noise during operation: ____ Yes ____ No
If yes, explain:_____
_____

WITH ENGINE OPERATING @ 1000 RPM, RECORD THE FOLLOWING INFORMATION:

Cycle time for dump mode:
Up_____Sec. Down_____Sec.
Cycle time for load/unload mode:
Unload_____Sec. Load_____Sec.
Filter pressure_____PSI
Main pressure, controls in neutral_____PSI
Main relief pressure_____PSI
Main pressure while extending lift cylinders (bottomed out)_____PSI

V. OPERATION

____ Jib operates freely in both directions
____ Jib cannot be extended or retracted when raised in dump position or when pivot joint is tilted in unload position.
Both safety hooks are fully engaged when jib is extended.
____ Parts and operators manuals in cab.
____ Lubricate sliding jib and all grease zerks per installation instructions.

VI. DECAL

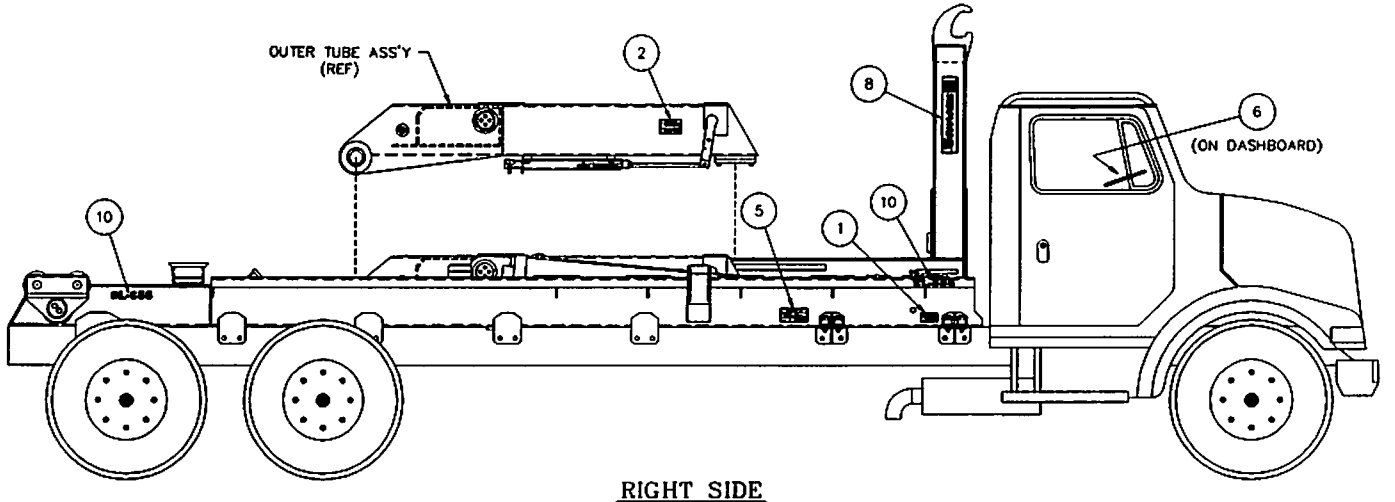
____ All safety decals and product decals installed per Drawing 40H47.

ADDITION COMMENTS:

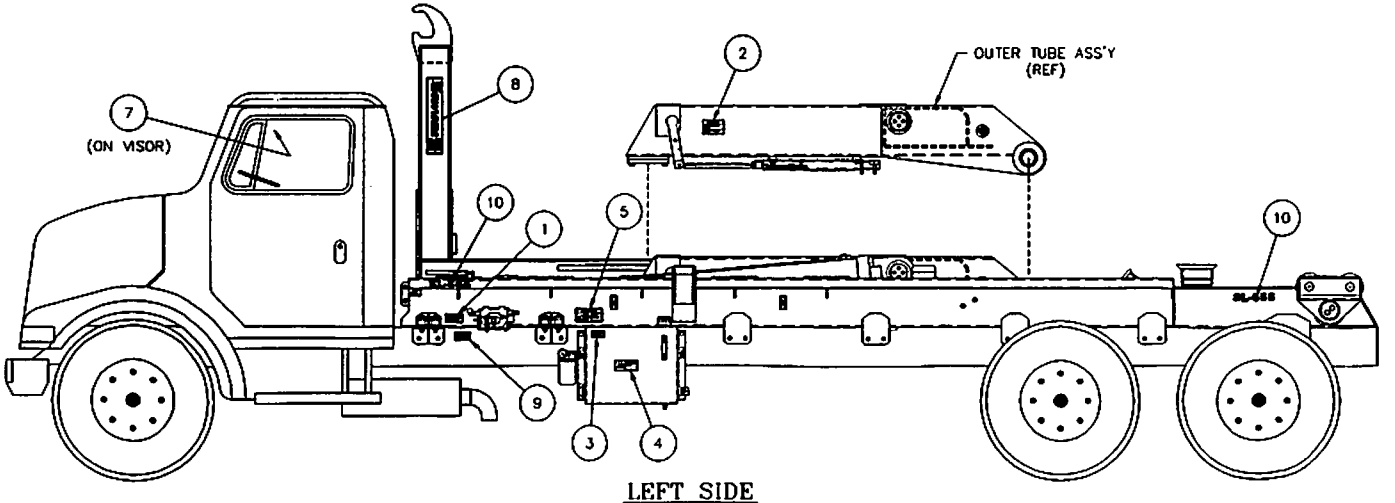
_____
_____
_____

Send completed form to: SwapLoader U.S.A., Ltd.
1800 N.E. Broadway Avenue, Box D
Des Moines, IA 50316-0386

Retain one copy for your file.



RIGHT SIDE



LEFT SIDE

MATERIAL LIST

ITEM	QTY.	P/N	DESCR.	WT - lb. PER EACH	REMARKS
1	2	90P07	OPR & SERV MANUAL		
2	2	90P08	HOIST - BODY SPEC		
3	ONE	90P09	HYD OIL SPEC		
4	ONE	90P10	HYD OIL FLAMMABLE		
5	2	90P11	HOIST FALLING		
6	ONE	90P12	LEVER CONTROL		
7	ONE	90P13	SAFETY INSTRUCTIONS		
8	3	90P14	SWAPLOADER - JEB		
9	ONE	90P18	RELIEF VALVE		
10	4	90P31	SL-655		
					TOTAL

NO.	REVISION	DATE	BY

GENERAL NOTES

1. ANY ALTERATION OR REPAIR OF SWAPLOADER EQUIPMENT MUST BE AUTHORIZED IN WRITING BY SWAPLOADER USA, LTD AND MUST BE CARRIED OUT BY QUALIFIED PERSONNEL. ANY MODIFICATION OF EQUIPMENT OR USE OF THAT EQUIPMENT OTHER THAN AS SHOWN WITHOUT APPROVAL IN WRITING BY SWAPLOADER USA, LTD. WILL VOID ALL WARRANTIES.
2. THIS DRAWING IS THE PROPERTY OF SWAPLOADER USA, LTD AND IS LOANED TO THE RECIPIENT IN CONFIDENCE.
3. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

DETAILED BY	12/14/93 R.S.
CHECKED BY	12/15/93 T.J.W
PRINT DISTRIBUTION	
DRG. NO.	
DATE	
SHOP FILE	
TOTAL	

SWAPLOADER U.S.A. LTD

TITLE: DECAL ASSEMBLY

CUSTOMER:

SCALE	MODEL NO.	DRAWING NO.
3/8" = 12	SL-655	40147

TABLE OF CONTENTS

INTRODUCTION

SWAPLOADER U.S.A., LTD.

TO THE CUSTOMER

Your new SwapLoader was carefully designed and manufactured to give years of dependable service. To keep it operating efficiently, read the instructions in this manual thoroughly. It contains detailed descriptions and instructions for the efficient operation and maintenance of your SwapLoader. Each section is clearly identified so you can easily find the information that you need. Read the Table of Contents to learn where each section is located. All instructions are recommended procedures only.

Throughout this manual you will come across **"Dangers," "Warnings,"** or **"Cautions"** which will be carried out in bolt type and preceded by the symbol as indicated to the left. Be certain to carefully read the message that follows to avoid the possibility of personal injury or machine damage.

Record your SwapLoader serial number in the appropriate space provided on the title page. You SwapLoader dealer needs this information to give you prompt, efficient service when you order parts. It pays to rely on an authorized SwapLoader Distributor for your service needs. For the location of the Distributor nearest you, contact SwapLoader.

NOTE: It is SwapLoader's policy to constantly strive to improve SwapLoader products. The information, specifications, and illustrations in this publication are based on the information in effect at the time of approval for printing and publishing. SwapLoader therefore reserves the right to make changes in design and improvements whenever it is believed the efficiency of the unit will be improved without incurring any obligations to incorporate such improvement in any unit which has been shipped or is in service. It is recommended that users contact an authorized SwapLoader Distributor for the latest revisions.

SWAPLOADER U.S.A., LTD.
1800 BROADWAY N. E.
DES MOINES, IA 50313

LIMITED WARRANTY STATEMENT

SwapLoader U.S.A., Ltd., (SwapLoader), warrants to the original purchaser of any new SwapLoader product shipped after October 1, 1999, for a period of thirty-six (36) months from the date of installation by an authorized SwapLoader distributor or service center, that such products are free of defects in material and workmanship. SwapLoader warrants to the original purchaser of any new product shipped before October 1, 1999, for a period of twenty-four (24) months from the date of installation by an authorized SwapLoader distributor or service center, that such products are free of defects in material and workmanship. SwapLoader will, at its discretion, either repair the defective parts or replace them with equivalent parts, subject to the conditions below.

- Replacement or repair of parts will be provided for 36 months on SwapLoader products shipped on or after October 1, 1999 or for 24 months on SwapLoader products shipped prior to October 1, 1999, F.O.B. SwapLoader plant, subject to any applicable federal, state or local taxes. Labor charges are covered for a period of 90 days, whether shipped before or after October 1, 1999, from the date of installation by an authorized SwapLoader distributor or service center.
- Defective parts must be reported to SwapLoader within 30 days of discovery on a SwapLoader warranty claim report form.
- Warranty is valid only if the Warranty Registration card is returned within 15 days of installation of the SwapLoader hoist to SwapLoader, Des Moines, Iowa.
- Warranty shall not apply if the equipment is operated at capacities in excess of factory recommendations.
- Warranty does not apply to defects caused by accident, misuse, alteration of design, improper installation or maintenance, repair, reinstallation, or any other cause beyond the control of SwapLoader.
- Warranty as provided herein shall be the purchaser's exclusive and limited remedy, and SwapLoader shall in no event be liable for consequential or other damages.
- SwapLoader is not responsible for the removal or replacement of accessories (fenders, toolbox, etc.).
- Warranty service must be performed by a distributor or service center authorized by SwapLoader to sell and/or service SwapLoader products, which will use only new or remanufactured parts or components furnished by SwapLoader U.S.A., Ltd.
- Warranty is expressly void if seal on the main relief control valve has been broken.
- Customer is responsible for any freight, labor (beyond 90 days), or transportation charges incurred to repair the unit.
- Warranty is expressly void if serial number plate or stamping is tampered with.

IT IS EXPRESSLY UNDERSTOOD AND AGREED THAT THERE ARE NO WARRANTIES MADE BY THE MANUFACTURER OR ITS AGENTS, REPRESENTATIVES OR DISTRIBUTORS, EITHER EXPRESSED, IMPLIED, OR IMPLIED BY LAW, EXCEPT THOSE EXPRESSLY STATED ABOVE IN THIS STANDARD LIMITED WARRANTY AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP. THE MANUFACTURER AND ITS AGENTS, REPRESENTATIVES AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

SAFETY SUGGESTIONS

1. Do not operate or service this equipment until you have been properly trained and instructed in its use and have read the operation and service manual.

2. Do not operate this equipment on uneven ground.

3. Do not drive with the container in a dump position or with the hook to the rear.

4. Do not exceed 1,500 Engine RPM when operating the Power Take Off (P.T.O.). Never leave the P.T.O. in gear while transporting.

5. The hoist must be used with containers that properly fit the hook and rear holddowns. The container specifications must match the hoist specifications.

6. Keep the containers and hoist in good working order. **DO NOT** use if repairs are needed. Perform periodic inspections and maintenance as required by the maintenance section of the operator's manual.

7. Make sure work area is clear of people and obstacles prior to dumping or unloading containers. SwapLoader strongly recommends that a back up alarm be installed on the truck chassis. The operation of the hook hoist is that the truck is backed up to the body to pick it up and so there is a potential pinch point between the body and the hook.

8. Any container which is on the hoist **MUST** be unloaded prior to performing any repairs or maintenance to the hoist. Also, **DO NOT** allow any person to work on or be under the hoist in a raised position without first installing adequate safety blocks to eliminate all possibility of the hoist accidentally lowering. SwapLoader strongly recommends that if possible the container should be dismounted from the hoist prior to performing any maintenance to the hoist.

9. It is the responsibility of the owner and/or installer to insure that any additional safety devices required by state or local codes be installed on the SwapLoader Hoist and/or Truck Chassis.

INSTALLATION

INITIAL INSPECTION

When the SwapLoader hoist is received from the factory, you should inspect the hoist for damage which may have occurred in shipment. If damage has occurred, you should contact the shipper immediately.

You should then check the hoist to insure you have received all the parts as indicated by the Packing List and the Ship Loose Box List.

If you have any problems, shortages, or questions, please contact SwapLoader U.S.A., Ltd. immediately.

GENERAL INSTALLATION PROCEDURE

The installation of the SwapLoader on a truck chassis will generally follow these steps:

1. Install hoist assembly onto truck chassis.
2. Mount the hydraulic control valve to the hoist and install the hydraulic plumbing from the control valve to the hydraulic cylinders. Then install the control levers in the cab and route the control cables (or air lines if you have air shift controls) to the hydraulic control value assembly.
3. Install the hydraulic tank, hydraulic filter, and hydraulic plumbing between the hydraulic tank and the control valve assembly.
4. Select and install the P.T.O. on the truck transmission. This can be done prior to mounting the hoist assembly.
5. Install the hydraulic pump and the hydraulic plumbing from the pump to the hydraulic tank and the control valve assembly.
6. Fill the hydraulic tank with oil, bleed the air from the pump suction line, and start up the unit.

Although SwapLoader attempts to include the mounts and attaching fasteners with each hoist unit, your particular installation may require some additional mounts or modifications. If you have problems with your installation; please contact SwapLoader as we may be aware of another customer who has installed a SwapLoader on a similar truck chassis.

HOIST INSTALLATION TO TRUCK CHASSIS

1. Place the hoist assembly on the truck chassis for the Model SL-655 hoist to be installed. The truck chassis should meet the following minimum specifications:

   RBM for each frame channel: 2,750,000 in.-lb.
   Total RBM: 5,500,00 in.-lb.
   Minimum clear frame rail for mounting: 255" (See Fig. A)
   Front Axle Cap: 18,000 lb. (Min)
   Total Rear Axle Capacity: 44,000 lb. (Min)
   CT Dim: 174" to 198" (198" preferred)

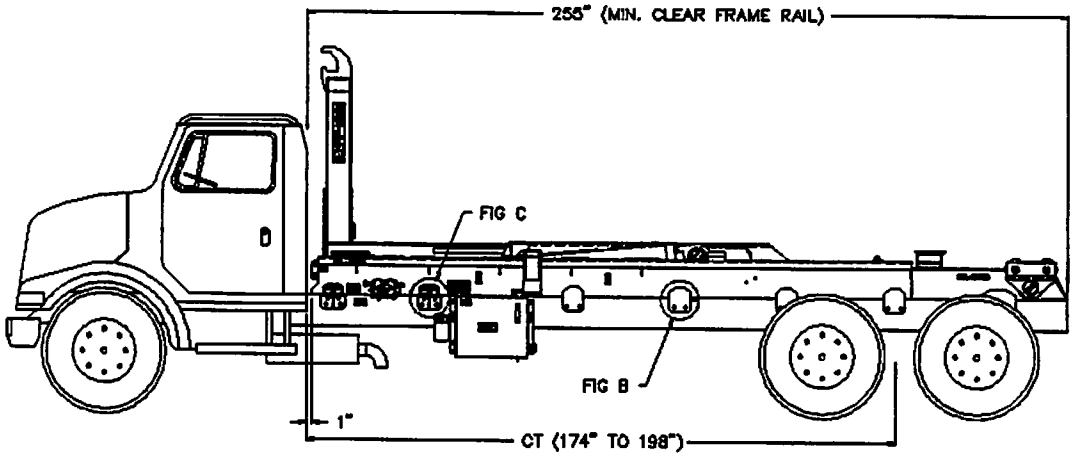


FIG A

Note: The above specifications are a minimum requirement. It is the responsibility of the owner/operator to ensure the completed chassis meets or exceeds all federal, state, and local regulations. Also, the hoist should not be used to lift and haul any load that exceeds the load rating of any of the individual components of the completed chassis (tires, axles, suspension, etc.)

Note: If a rear stabilizer is to be mounted to the unit, you should read the stabilizer installation section in this manual before cutting off any of the truck chassis frame rail.

2. There are three types of mount brackets used on the Model SL-655 hoist. They are the front spring mount bracket assembly (Pt. No. 40H31), the middle mount bracket (Pt. No. 81H23), and the rear mount bracket (Pt. No. 81H24). Locate the mount brackets on the side of the hoist as indicated on the mainframe sub-assembly drawing (Drawing No. 40H28) in the Parts List section of this manual. Evenly space the mount brackets as much as possible while allowing for mounting the control valve assembly and the hydraulic tank. You should consult the truck chassis supplier for any limitations regarding drilling mount holes in the truck chassis frame rails. Typically, the holes must be at least 2 3/4" from the top of the truck chassis rails. See Figs. B & C for illustration of bracket mounting.

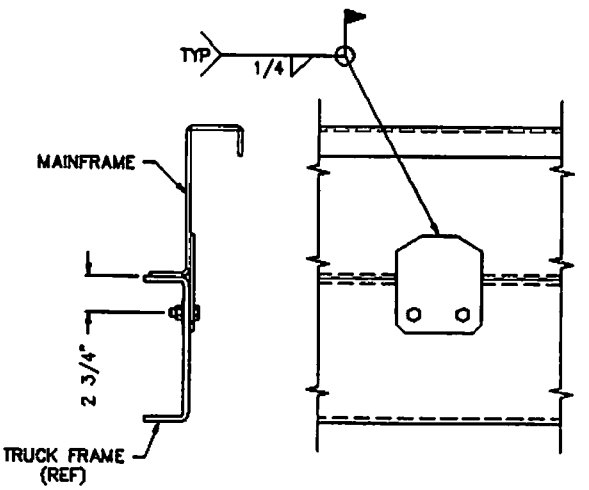


FIG B

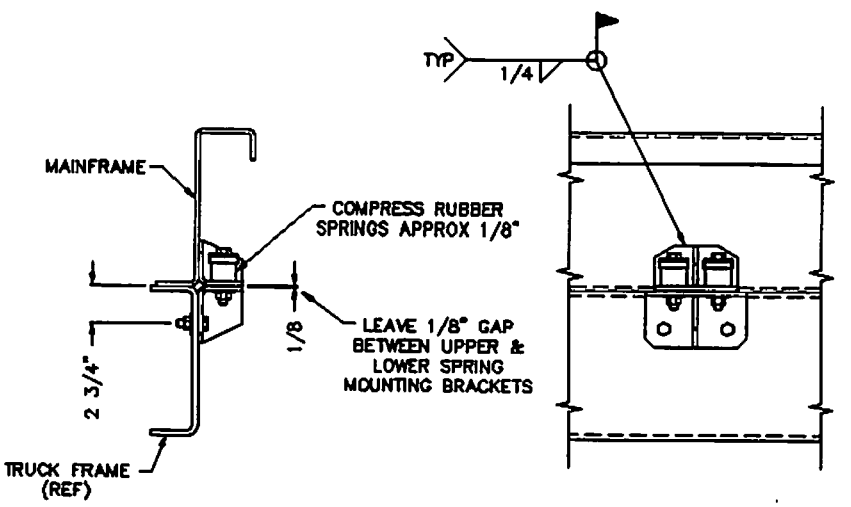


FIG C

Once the locations of the mount bracket have been determined, use the mount brackets as a template for marking the mounting holes in the truck chassis frame rails. Drill the 21/32 diameter holes required and attach the brackets to the truck chassis with the 5/8 inch diameter bolts, washers, and locking hex nuts provided. Torque to 220 ft. lbs. Please note the mounting clearance on the front spring mount bracket assembly indicated on Fig. C.

3. Weld the mount brackets to the hoist mainframe as indicated on Drawing No. 40H28.

You may need to modify the mount brackets or add shim plates to allow for variances in the width of truck chassis as well as to allow for top rivets, stepped channels, etc.

Note: Prior to any welding, consult the truck manufacturer for any special precautions that may need to be taken. Typically the batteries must be disconnected and the ground lead from the welder should be connected as close as possible to the part being welded to avoid the possibility of arcing across bearings, gears, etc.

Note: The hoist mainframe is made from high strength low alloy steel. Use an appropriate welding process.

CONTROLS INSTALLATION - MANUAL

1. Attach the valve mount bracket (Pt. No. 40H43) to the mainframe as indicated on Drawing No. 90H49 (Manual Control Assembly) with the fasteners provided.

2. Mount the hydraulic control valve assembly (Pt. No. 20P59) to the valve mount bracket as shown on Drawing No. 90H49 (Manual Control Assembly) with the fasteners provided.

3. Install the hydraulic adapters and connect the hydraulic tubing (Pt. Nos. 11P46 and 11P47) and the hydraulic hose assemblies (Pt. Nos. 11P56 and 11P57) to the control valve assembly as indicated on Drawing No. 90H36. The tubing should be supported by the clamp assemblies that are provided in the Loose Parts Box.

4. Determine the best location in the cab for the control levers (Pt. No. 20P08). The location should be such that the controls can be easily reached while operating the truck. A control lever console is provided to facilitate the mounting of the control levers.

5. Assemble and install the control lever console. Typically the console is fastened to the floor of the cab and the control cables are routed through additional holes drilled in the floor. Your particular installation may require that additional brackets be fabricated or other modifications made.

6. Attach the control cables to the control levers and route the cable through the holes in the cab. Install the control levers in the console. Levers should be installed such that when the levers are pushed forward the control cable is extended. See Drawing No. 90H49 (Manual Control Assembly) for control lever orientation.

7. Route the cables to the control valve location and attach them to the control valve with the bonnet connection kits provided (Pt. No. 20P65). The control cables supplied are 96 inches long. Take proper care when routing the control cables, as a good cable path is essential for a properly operating system. Keep bends in the cable path to a minimum and be as generous as possible. Under no circumstances should any bend be tighter than an 8" radius. Protect the cable from heat above 225 degrees F. and avoid hot areas such as exhaust pipes, etc.. Protect the cable from physical damages such as pinching or crushing, and do not use cable supports which may crush or deform the cable. Allow room for flexing where the cable is attached to moving parts of the equipment, so that the cable is neither kinked nor stretched.

CONTROLS INSTALLATION - AIR SHIFT (OPTION)

1. Attach the valve mount bracket (Pt. No. 40H43) to the mainframe as indicated on Drawing No. 90H47 (Air Control Assembly) with the fasteners provided.

2. Mount the hydraulic control valve assembly (Pt. No. 90H41) to the valve mount bracket as shown on Drawing No. 90H47 (Air Control Assembly) with the fasteners provided.

3. Install the hydraulic adapters and connect the hydraulic tubing (Pt. Nos. 11P46 and 11P47) and the hydraulic hose assemblies (Pt. Nos. 11P56 and 11P57) to the control valve assembly as indicated on Drawing No. 90H36. The tubing should be supported by the clamp assemblies that are provided in the Loose Parts Box.

4. Determine the best location in the cab for the control handle assembly (Pt. No. 20P73). The location should be such that the controls can be easily reached while operating the truck. You will need to fabricate some type of mounting bracket for the control handle assembly to support it and the air lines that will be running to and from the control valve.

5. Install the air fittings and hose as shown on Drawing No. 90H44 (Air Circuit, Control Valve). An air pressure protection valve (Pt. No. 20P74) is provided so you can tap into the truck's air supply without jeopardizing the integrity of the air system. The air hose is provided in a bulk length which you can cut to length as required for running the air lines. Take care in routing the air lines and avoid hot areas such as exhaust pipes, etc.

HYDRAULIC TANK INSTALLATION

1. Select a location to mount the hydraulic tank. Reference Drawing No. 90H35 (Hydraulic Assembly-Final) for the suggested location of the hydraulic tank to the rear of the control valve assembly on the left-hand side of the truck. The hydraulic hoses have been sized for the tank to be mounted in this general area. The tank can be located on the right-hand side or behind the cab, if necessary, which means longer hoses may be required.

2. Drill four (4) holes for 5/8 inch diameter bolts (provided) in the mount angle of the hydraulic tank (two per angle) and the frame rails of the truck chassis. Mount the hydraulic tank and install the hydraulic filter and hydraulic return hose assembly between the filter and the control valve assembly as shown on Drawing No. 90H37. The hose is provided with only one fitting installed so the hose can be shortened to an appropriate length.

P.T.O. SELECTION

The next step is to select and install a drive line type P.T.O. to the transmission. Please contact your local truck equipment representative for the correct unit sized on the following criteria:

Hydraulic Pump Displacement: 6.39 CID

Main Relief Press Setting: 3500 PSI

P.T.O. Torque Required: 360 ft-lbs (See Note 1)

Power at 1500 RPM: 85 H.P. (See Note 1)

Hydraulic Pump Rotation: L.H. As provided (See Note 2). The hydraulic pump rotation can be reversed to R.H. by qualified hydraulic technician.

Ratio of Pump RPM to Engine RPM: 80% to 100%

NOTE 1: P.T.O. torque and power requirements are based on the unit operating at main relief pressure. Normal operating pressure will be less.

NOTE 2: P.T.O. output rotation will need to be R.H. (clockwise) as viewed looking at output flange of P.T.O. for a L.H. Pump.

NOTE 3: Do not operate pump at speeds over 1500 R.P.M.

NOTE 4: Always disengage the P.T.O. after each operating cycle.

PUMP INSTALLATION

1. The hydraulic pump provided with the SL-655 hoist is intended to be driven by a drive line shaft from the P.T.O. The drive line shaft on the mounting brackets for the pump are not provided. When mounting the pump, please follow these guidelines:

   - The pump counter line should be parallel with the P.T.O. shaft.

   - The angle of the drive line from the P.T.O. and pump shaft should be kept as small as possible.

2. Install the hydraulic fittings into ports on the hydraulic pump as shown on Drawing No. 90H37 (Hydraulic Sub-Assembly, Pump Circuit).

3. Connect suction hose assembly to the hydraulic tank (1 1/2" I.D. hose) and route to the pump as short and straight as possible. Be sure to route the hose clear of exhaust components and of the drive shaft. Extra hose is provided so the hose can be shortened to appropriate length. Install the hose on the hose barb fittings at the tank and at the pump and secure with the hose clamps provided.

   NOTE: Prior to startup, this hose must be filled with oil.

4. The pressure hose from the hydraulic pump to the control valve assembly is not supplied with the hoist as it must be made to the proper length. This hose must be purchased from a local hydraulic hose assembly supplier per the following specification:

Hose I.D.:	1 inch
Working Pressure:	3500 PSI
Hose Fitting Threads:	SAE 37° (JIC) 1 5/16-12

5. Install the pressure hose as indicated. Tie up the pressure and suction hoses as necessary. Again, be sure the hoses are routed to avoid exhaust components and to stay clear of the drive shaft.

START UP PROCEDURE

1. Fill the hydraulic tank with hydraulic oil (see oil specification in Maintenance Section.)

2. Prime the pump by loosening the clamp on the suction hose at the pump. Pull the hose back off the fitting till the air is bled from the line. Push the hose back on the fitting and retighten the clamp.

3. Engage the P.T.O. and run the pump at idle (700 to 900 RPM). Operate the cylinders at full stroke five to ten times to bleed the air from the lines and cylinders. The cylinders were filled with oil during testing at the factory, but some seepage may have occurred during shipping and installation. Refill the hydraulic tank, if needed, during this sequence and do not let the pump run without oil.

4. Check for leaks and tighten fittings as necessary.

5. Verify the movement of the control levers corresponds to the movement of the cylinders. Per Fig. A.

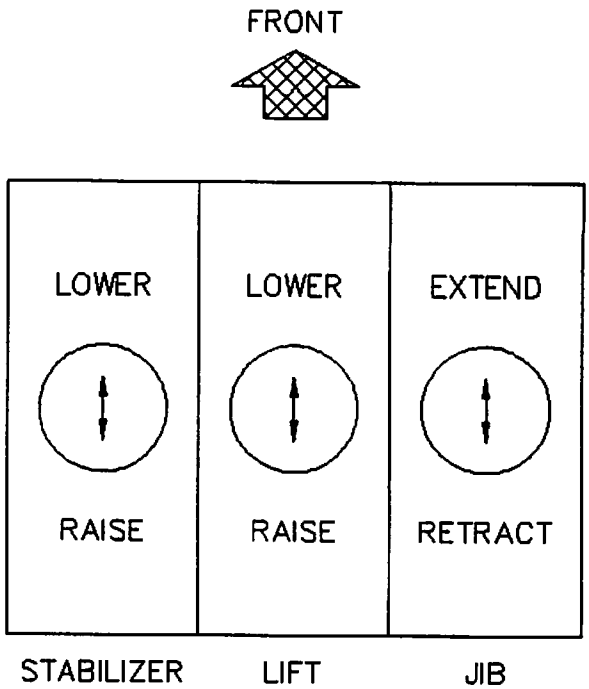


FIG A

6. **Install all safety decals and product decals per Drawing No. 40H47 after final painting has been completed.**

7. Fill out pre-delivery checklist.

8. Fill out warranty card.

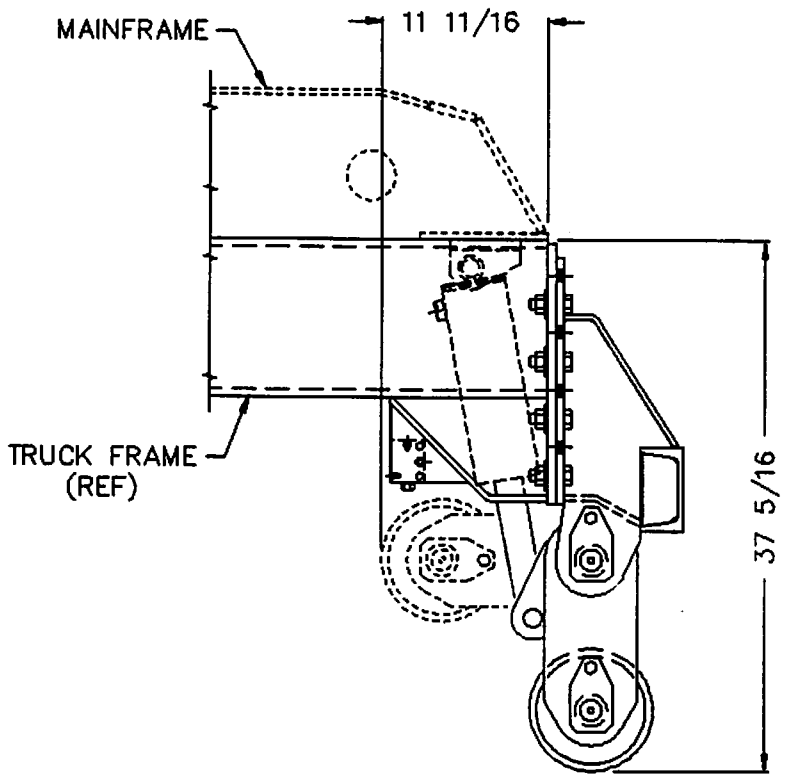
CAUTION: The SwapLoader hoist must be used with containers that properly fit the front hook and the rear hold-downs. If possible, pick up one of the containers that will actually be used with the SwapLoader hoist and verify the following:

- Outside dimensions of the long sills match the guiding rollers on the hoist.
- The front hook dimensions are correct for the hoist.
- The rear hold-downs of the container latch into the hold-downs on the hoist.
- Check for any interference between the container and any part of the hoist (i.e.: Hydraulic tank, hydraulic tubing or hose, hydraulic valve, etc.)

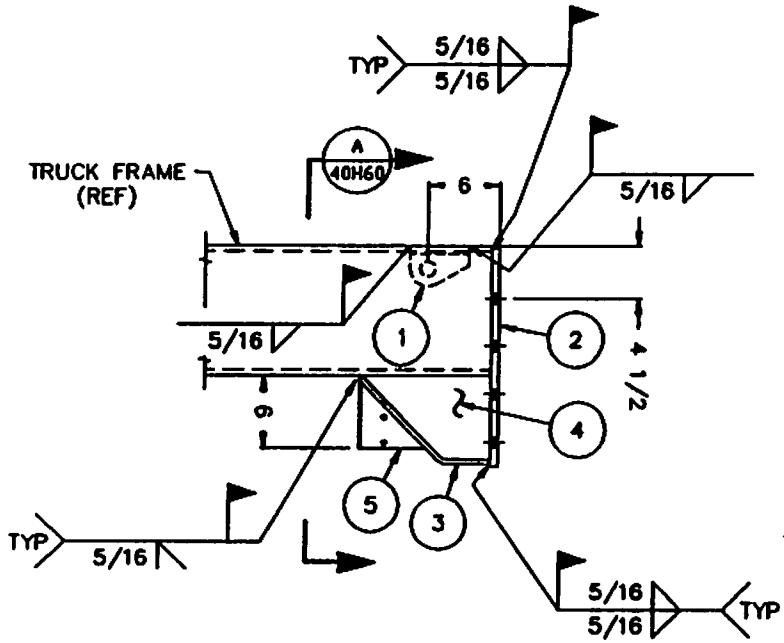
STABILIZER INSTALLATION (OPTION)

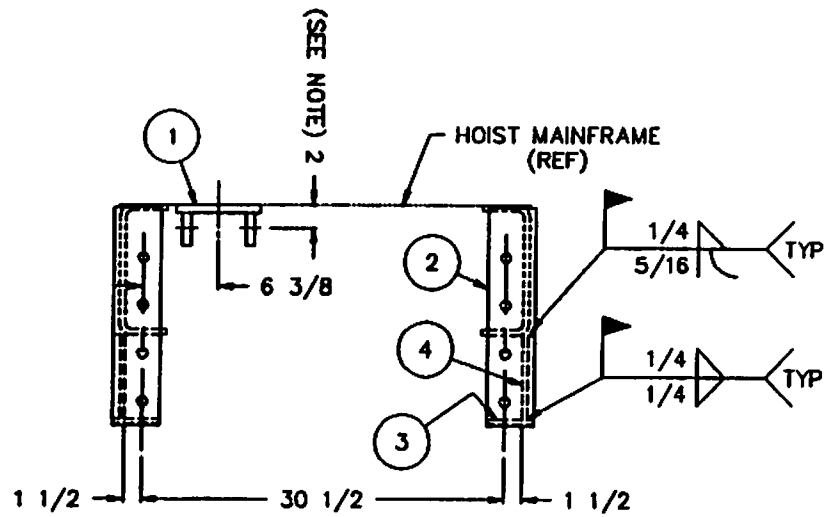
1. The hoist installation for a unit with the stabilizer option is much the same as that for the standard unit except that a three section hydraulic control valve is used. (See Drawing No. 90H50 for Manual Control or Drawing No. 90H48 for Air Controls for the correct installation and plumbing diagrams for a hoist with three control circuits.)

2. The following diagram gives the approximate position of the stabilizer roller from the top of the truck chassis frame rail with the mounts as provided by SwapLoader. When extended down, the roller should touch the ground only when the vehicle is loading a heavy container. Therefore, with the truck empty, leave 2 to 3 inches clearance between the ground and the roller.

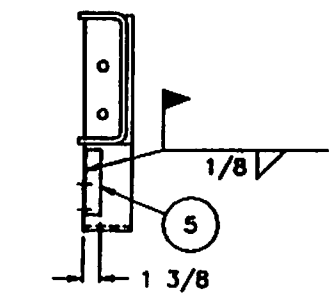


Also, you will need to check that when the roller is up in the transport position it does not interfere with any part of the rear axle. If some interference will occur, you may need to slant the stabilizer mounting back from the vertical position until you leave sufficient clearance. This can be achieved by cutting the truck chassis frame rails off at an angle before installing the stabilizer mounts. Do not slant the mounting more than eight degrees.





ITEM	QTY.	P/N	DESCR.	WT.- lb. PER EACH	REMARKS
1	ONE	40H57	CYLINDER LUG	11.50	
2	2	82H09	MOUNT PLATE	12.57	
3	2	82H10	TIE PLATE	5.86	
4	2	82H11	GUSSET	5.49	
5	ONE	82H12	CHECK VALVE MOUNT	.76	
				60.10	TOTAL



SECTION A
40H60

NOTE:

THE 2" DIM OF 40H57 IS BASED ON THE STABILIZER BOLTED IN THE POSITION SHOWN ON DWG 40H50.
A 2" SPACER IS REQUIRED IF THE STABILIZER IS ATTACHED WITH THE UPPER SET OF HOLES.

STABILIZER MODIFICATION WELDMENT
SL-655
DWG.-40H60

3. Once the required position of the stabilizer has been determined, install the mounting plates as shown on Drawing No. 40H60 (Stabilizer Modification Wedment) on the following page. The weld size requirements are indicated on Drawing No. 40H60.

Note: Prior to any welding, consult the truck manufacturer for any special precautions that may need to be taken. Typically the batteries must be disconnected and the ground lead from the welder should be connected as close as possible to the part being welded to avoid the possibility of arcing across bearings, gears, etc.

Note: The truck chassis frame rails are made from high strength low allow steel. Use an appropriate welding process.

Take care when installing the cylinder lug (Pt. No. 40H57) as the position of this item determines the final positions of the stabilizer roller. This item welds to the underside of the hoist mainframe. Spacers may be required to achieve the correct position. You should wait with installing this item until the stabilizer assembly is bolted on.

4. Install the stabilizer assembly with the fasteners provided as shown on Drawing No. 40H50 in the Parts List section of the manual.

5. Install the hydraulic adapters and hoses from the three section hydraulic control valve to the check valve and to the hydraulic cylinders shown on Drawing No. 90H51 (Hydraulic Subassembly - Stabilizer Circuit). Tie up all loose hoses as required. Be sure the hoses are routed to avoid exhaust components and all moving components of the rear axles.

6. After the start up procedure has been completed on the hoist, verify the operation of the control lever in the cab with the diagram.

   Operate the stabilizer through some cycles to remove the air from the hydraulic cylinder.

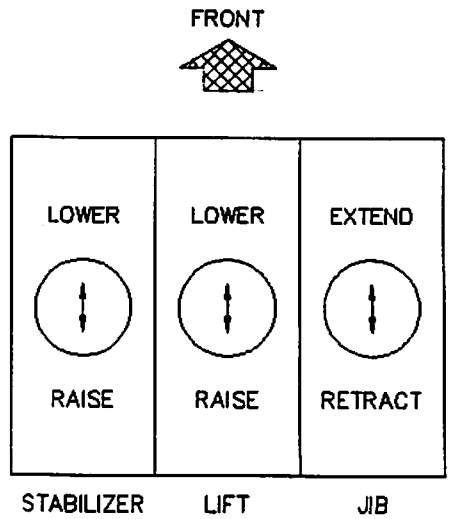


FIG A

PREDELIVERY CHECK LIST
SWAPLOADER U.S.A., LTD.

Conducted By: _____ Date: _____
Dealer: _____
Customer: _____

I. RECORD THE FOLLOWING INFORMATION:

SwapLoader Hoist:
Model No.: _____
Serial No.: _____

Truck Chassis:
Identification No.: _____
GVW: _____
CA (Cab to Axle): _____
Distance From Center Line of Rear Axle to Rear of Hoist: _____

PTO:
Make: _____
Model: _____
Serial No.: _____
% of Engine RPM: _____

Hydraulic Pump:
Make: _____
Model: _____
Serial No.: _____

II. INSTALLATION TO CHASSIS

Were there any problems bolting the hoist to the truck chassis with the parts provided? ___ Yes ___ No
If yes, please describe _____

_____

_____

____ All bolts checked for proper tightness.

____ Please include photos of the hoist installed on the truck chassis. Be sure to include at least one photo from each side.

III. CONTROLS

____ Controls easy to reach from diver's seat.
____ Movement of controls correct per installation instructions.

IV. HYDRAULICS INSTALLATION

____ Correct hydraulic oil level in reservoir
____ Check for leaks
Any abnormal noise during operation: ____ Yes ____ No
If yes, explain:_____
_____

WITH ENGINE OPERATING @ 1000 RPM, RECORD THE FOLLOWING INFORMATION:

Cycle time for dump mode:
Up_____Sec. Down_____Sec.
Cycle time for load/unload mode:
Unload_____Sec. Load_____Sec.
Filter pressure_____PSI
Main pressure, controls in neutral_____PSI
Main relief pressure_____PSI
Main pressure while extending lift cylinders (bottomed out)_____PSI

V. OPERATION

____ Jib operates freely in both directions
____ Jib cannot be extended or retracted when raised in dump position or when pivot joint is tilted in unload position.
Both safety hooks are fully engaged when jib is extended.
____ Parts and operators manuals in cab.
____ Lubricate sliding jib and all grease zerks per installation instructions.

VI. DECAL

____ All safety decals and product decals installed per Drawing 40H47.

ADDITION COMMENTS:

_____
_____
_____

Send completed form to: SwapLoader U.S.A., Ltd.
1800 N.E. Broadway Avenue, Box D
Des Moines, IA 50316-0386

Retain one copy for your file.

OPERATION

OPERATING INSTRUCTIONS

During all operations of the SwapLoader, the speed of the engine should be maintained at 1,000 to 1,200 RPM, assuming the ratio of the Power Take Off is about 100%.

Depress the clutch and, after 2 seconds, switch on the P.T.O.. Then, smoothly release the clutch: the pump should be running.

LOADING A CONTAINER

1. Retract the jib (right control backward). Then, tilt the arm backward (left control backward - center control if hoist is equipped with an additional circuit). See Fig. A.

2. Move the truck backwards until the hook engages the curved bar of the container. **NEVER EXTEND THE JIB** to reach the proper catching height, rather tilt the arm.

3. If you are lifting a heavy load which would lift the front end of the truck off the ground, then you must lower the stabilizer if the unit is equipped with one.

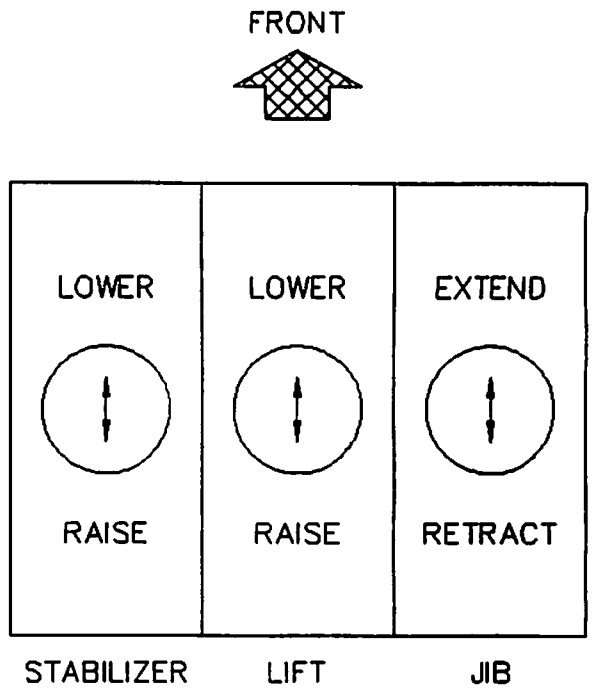


FIG A

4. Tilt the arm forward (left or center control forward), making sure the curved bar is securely attached to the hook. Release the brakes of the truck and steer to get the truck correctly aligned with the container. Watch the container rails which must come to rest centered on the rear rollers. Do not extend the jib during lifting.

5. When the container is resting on the frame, move the jib forward all the way to ensure the container is locked on (right control forward).

6. Raise the stabilizer and disengage the P.T.O.

DUMPING

1. Again move the jib forward (right control forward) to ensure that the container is locked.

2. Extend the main lift cylinders (left or center control backward). **DO NOT RETRACT THE JIB WHILE DUMPING. Retracting the jib during dumping may unlock the mechanical jib latches which could allow the container to crash down onto the hoist and/or abruptly unload.**

PLACING A CONTAINER ON THE GROUND

1. Move the sliding jib all the way back (right control backward) until mechanical jib latches unlock.

2. Tilt the arm backwards (left or center control backward). When the container touches the ground, release the brakes to free the truck for forward movement caused by the container.

WARNING:

1. **DON'T OVER SPEED THE PUMP 1,500 RPM MAXIMUM.**
2. **DON'T DUMP ON UNEVEN GROUND.**
3. **DON'T DRIVE WITH THE CONTAINER IN THE DUMPED POSITION OR WITH THE HOOK TILTED BACK.**

MAINTENANCE

WEEKLY SERVICE
(50 OPERATIONS)

1. Lubricate with grease
   - Lifting hook on jib
   - Jib slide - top, bottom, and side guides

2. Check hydraulic oil level

3. Check hydraulic hose and fittings for leaks. Also check hydraulic hose for wear. Repair and/or retighten as necessary.

MONTHLY SERVICE
(200 OPERATIONS)

1. Lubricate with grease
   - Fittings on lift cylinders (quantity: 4)
   - Front pins on rear pivot joint weldment (quantity: 2)
   - Fittings on rear pivot pin, roller mount assembly, and rollers (quantity:8)

2. Check all bolts and retighten as required.

3. Check adjustments on safety lock mechanism. Grease slide tube if necessary.

YEARLY SERVICE

1. Change hydraulic oil, replace hydraulic filter element, and wash out suction strainer.

2. Check main relief valve setting.

HYDRAULIC OIL SPECIFICATIONS

Type: High Pressure (Anti-Wear) Hydraulic
ISO Viscosity Grade: 46 Viscosity,
SUS at 100 Degree F: 194-236

AMOCO
AMOCO AW 46

ARCO
Duro AW 46

Chevron
AW Hydraulic Oil 46

Cities Service
AW Hydraulic Oil 46

Conoco
Super Hydraulic Oil 46

Exxon
Nuto H 46

Gulf
Harmony 46 AW

Kendall
Kenoil R & O AW-46

Keystone
KLC-5

Lubriplate
HO-1

Mobil
DTE 25

Phillips
Magnus A Oil 46

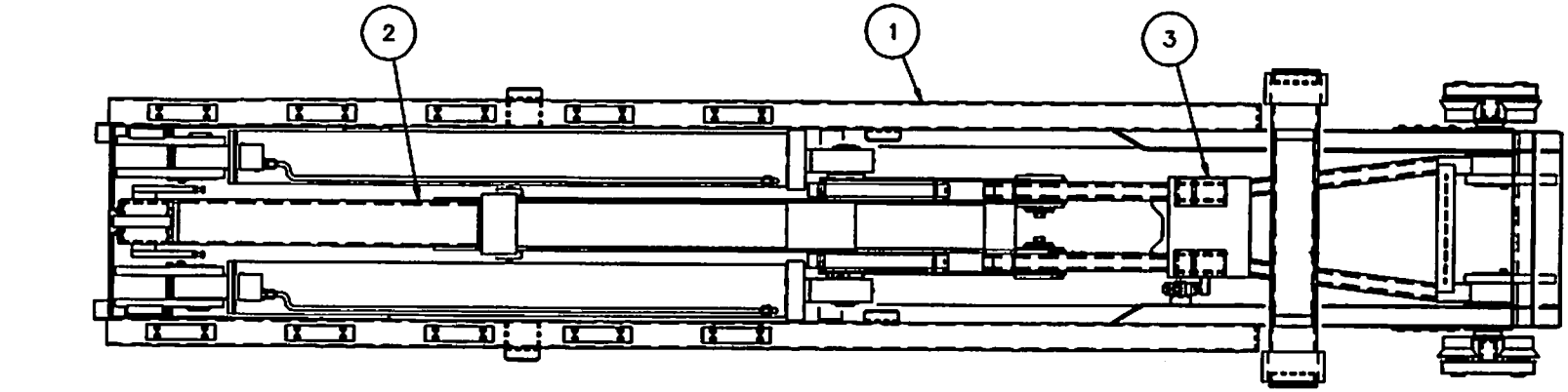
Shell
Tellus 46

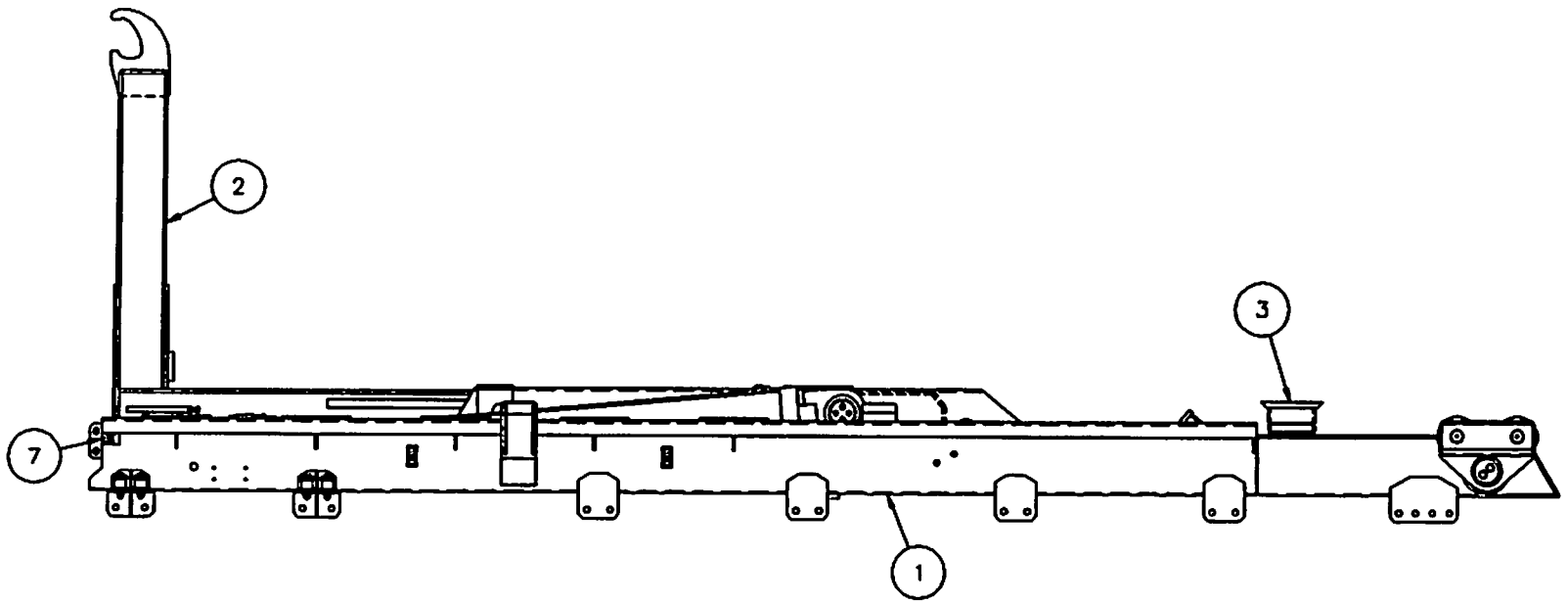
Sun
Sun Vis 747 (821 WR)

Texaco
Rando Oil HD 46

Union
Unax AW 46

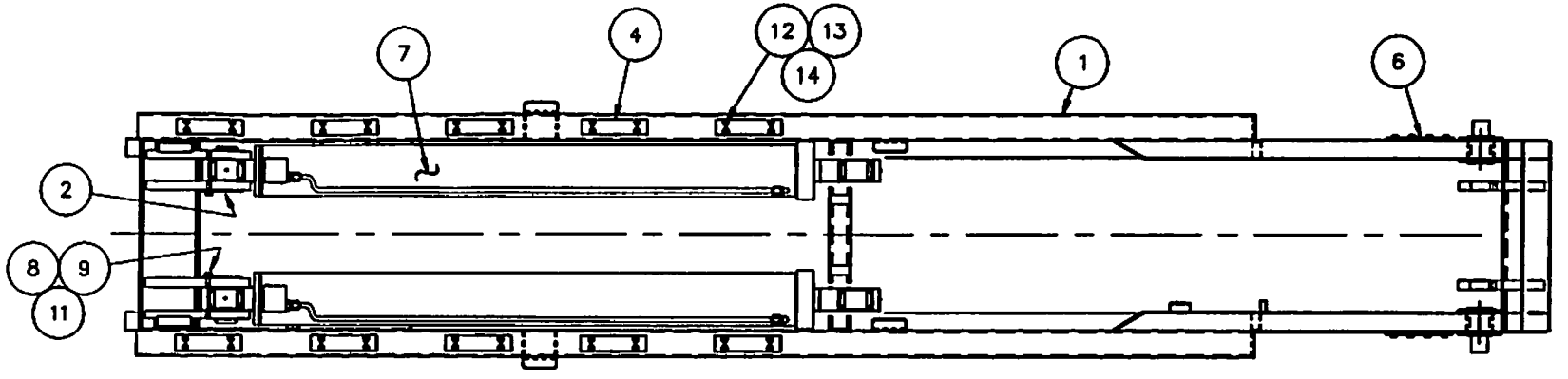
PARTS LIST

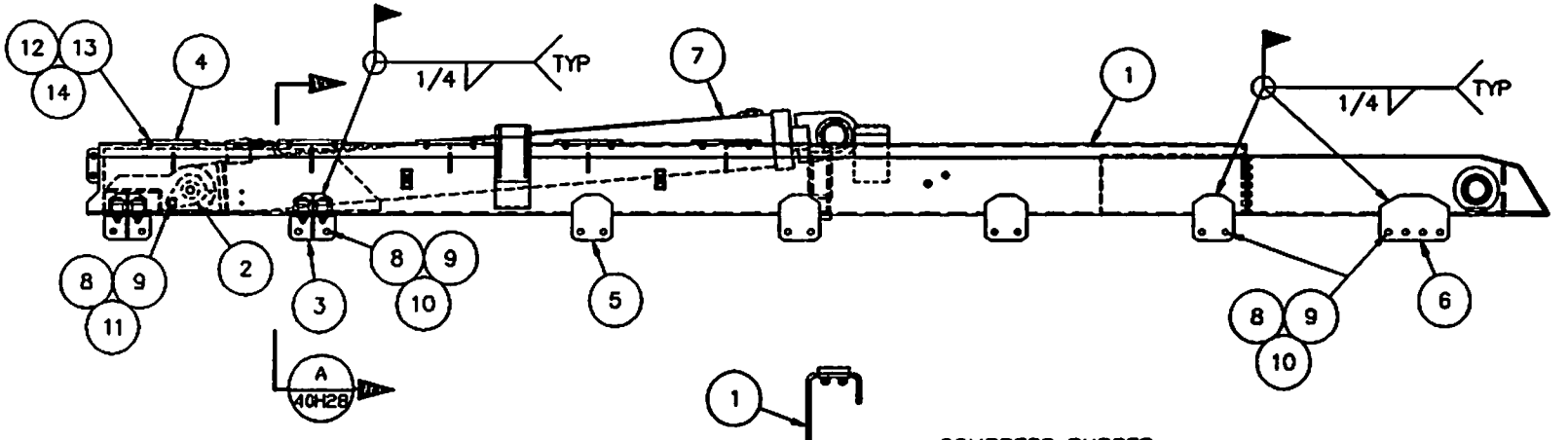


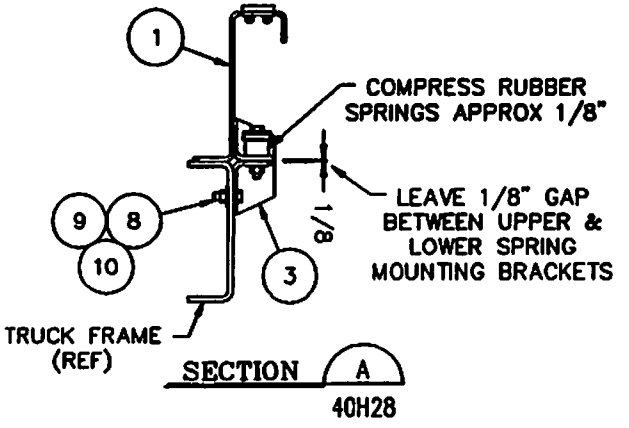


SL-655 HOIST BASE ASSEMBLY
SL-655
DWG.-40H27 ~ REV A

SL-655 HOIST BASE ASSEMBLY DWG.-40H27					REVISION A
ITEM	QTY.	P/N	DESCR.	WT.- lb. PER EACH	REMARKS
1	ONE	40H28	MAINFRAME SUB-ASS'Y	3423.85	
2	ONE	40H29	TELESCOPIC JIB SUB-ASS'Y	2298.28	
3	ONE	40H30	PIVOT JOINT SUB-ASS'Y	1274.25	
4	ONE	40H47	DECAL ASS'Y	-	NOT SHOWN
5	ONE	40H49	PARTS & OPER MANUAL	-	
6	ONE	90H35	BASE HYDRAULIC ASS'Y	248.89	NOT SHOWN
7	ONE	90P50	SERIAL TAG	.01	
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
				7245.28	TOTAL

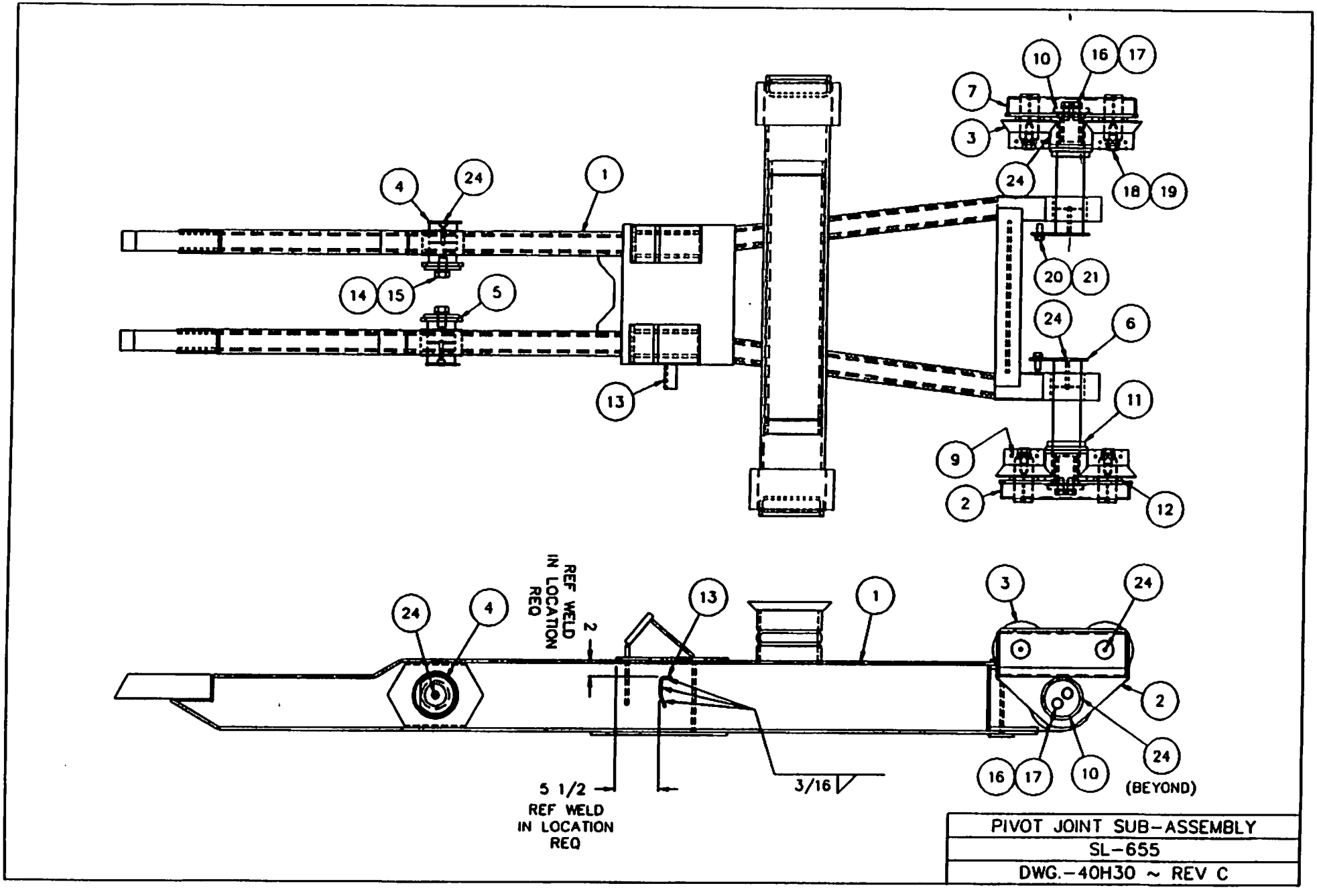






MAINFRAME SUB-ASSEMBLY
SL-655
DWG.-40H28 ~ REV B

MAINFRAME SUB-ASSEMBLY DWG.-40H28					REVISION B
ITEM	QTY.	P/N	DESCR.	WT.- lb. PER EACH	REMARKS
1	ONE	40H07	MAINFRAME WDMT	1774.67	
2	2	40H18	MAINFRAME PIN WDMT	29.43	
3	4	40H31	SPRING MOUNTING BRACKET	13.05	
4	10	61H78	12" WEAR BLOCK	.71	
5	8	81H23	FRONT BRACKET	5.53	
6	2	81H24	REAR BRACKET	9.26	
7	2	20P47	HYD CYL 8ø x 87	720.00	
8	34	00785	5/8ø FLAT WASHER HT	.08	F-436
9	34	00P69	5/8-11 x 2 HHCS	.33	GR-8
10	32	00P55	5/8-11 LOCKING HEX NUT	.18	GR-C
11	2	00767	5/8ø LOCK WASHER	.08	
12	40	00755	3/8ø LOCK WASHER	.05	
13	40	00P14	3/8-16 HEX NUT	.05	GR-8
14	40	00P68	3/8-16 x 1 1/4 FL HD SCR	.11	BRASS
15					
16					
17					
18					
19					
20					
21					
22					
				3423.85	TOTAL

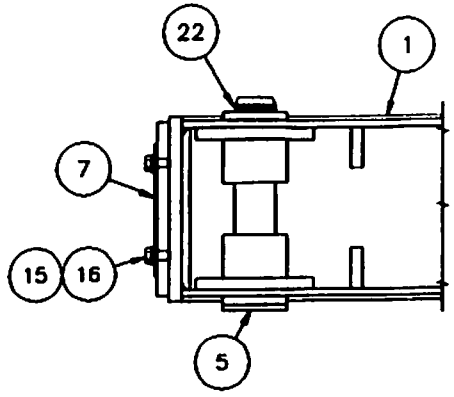


PIVOT JOINT SUB-ASSEMBLY

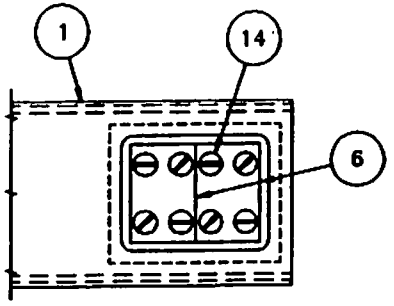
SL-655

DWG.-40H30 ~ REV C

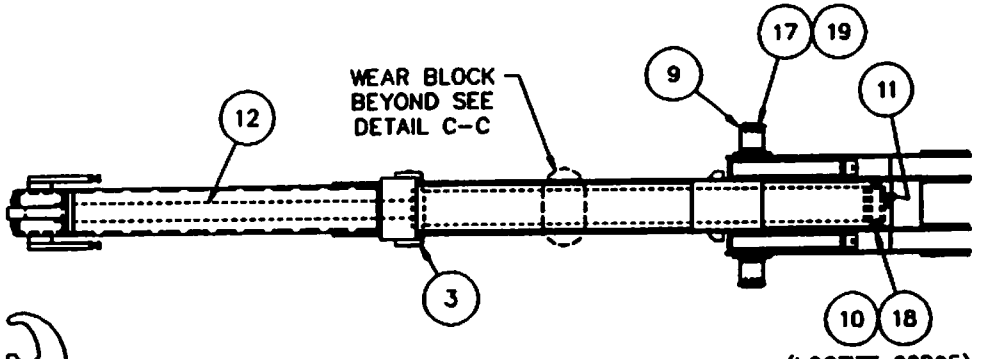
PIVOT JOINT SUB–ASSEMBLY DWG.–40H30					REVISION C
ITEM	QTY.	P/N	DESCR.	WT.– lb. PER EACH	REMARKS
1	ONE	40H12	PIVOT JOINT WDMT	940.26	
2	ONE	40H19	ROLLER MOUNT L.H. WDMT	57.77	
3	4	40H21	ROLLER ASS'Y	17.90	
4	2	40H23	PIVOT PIN WDMT	16.07	
5	2	40H24	PIN CAP WDMT	2.73	
6	2	40H25	MAIN PIVOT PIN WDMT	44.08	
7	ONE	40H45	ROLLER MOUNT R.H. WDMT	57.77	
8					
9	4	61H41	ROLLER RETAINER	.63	
10	2	81H15	ROLLER MOUNT RETAINER	2.11	
11	2	81H16	ROLLER MOUNT SPACER	1.58	
12	4	81H22	ROLLER SPACER	.70	
13	ONE	81H70	SAFETY VALVE RAMP	1.45	
14	2	00P87	1–8 x 2 HHCS	.70	GR–8
15	2	00P88	1ø LOCK WASHER	.13	
16	4	00P89	3/4–10 x 1 3/4 HHCS	.41	GR–8
17	4	00769	3/4ø LOCK WASHER	.10	
18	4	00P65	7/8–9 x 1 1/2 HHCS	.48	GR–8
19	4	00P66	7/8ø LOCK WASHER	.11	
20	2	00P91	5/8–11 x 1 3/4 HHCS	.31	GR–8
21	2	00767	5/8ø LOCK WASHER	.08	
24	10	90P03	1/8 NPT ZERK STR	.01	
				1274.25	TOTAL

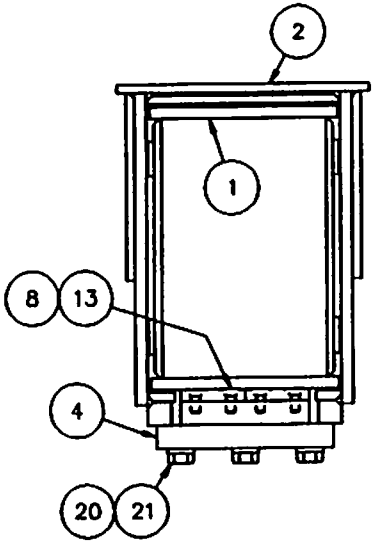


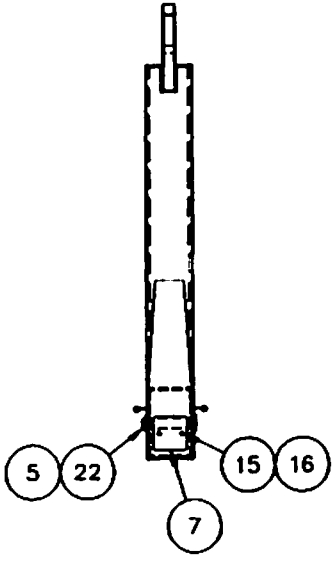
SECTION B-B



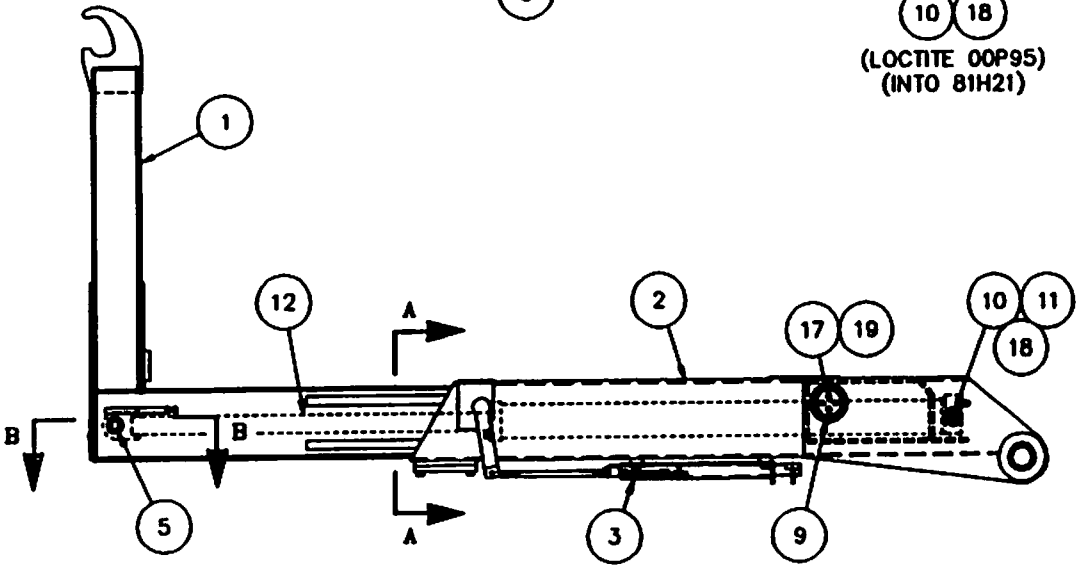
DETAIL C-C





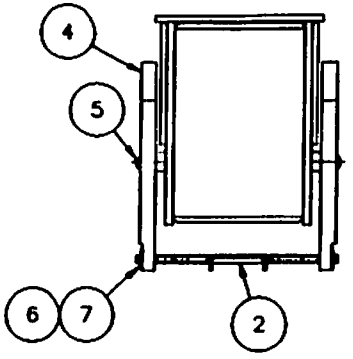


SECTION A-A

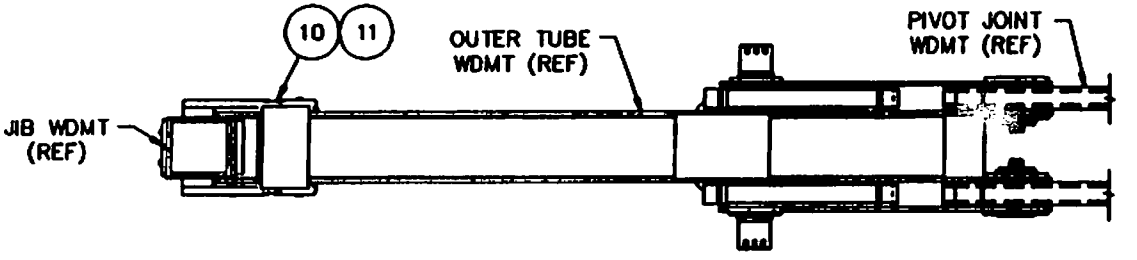


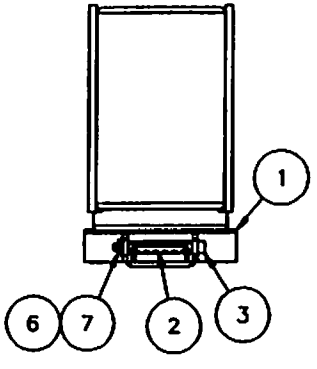
TELESCOPIC JIB SUB-ASSEMBLY
SL-655
DWG.-40H29 ~ REV B

TELESCOPIC JIB SUB-ASSMEBLY DWG.-40H29					REVISION B
ITEM	QTY.	P/N	DESCR.	WT.- lb. PER EACH	REMARKS
1	ONE	40H01	JIB WDMT	798.56	
2	ONE	40H02	OUTER TUBE WDMT	948.02	
3	ONE	40H35	SAFETY LATCH ASS'Y	97.15	
4	ONE	40H44	CLAMP PLATE WDMT	29.97	
5	ONE	40H48	1 3/4ø CYL PIN WDMT	6.43	
6	2	60H11	WEAR BLOCK	.26	
7	ONE	62H11	JIB COVER PLATE	1.13	
8	2	80H35	CLAMP LINER	7.02	
9	2	81H09	CYLINDER RETAINER	2.11	
10	2	81H20	CYLINDER PIN CAP	.40	
11	ONE	81H21	1 3/4ø CYLINDER PIN	5.75	
12	ONE	20P46	HYD CYL 5ø x 52	385.00	
13	8	00P58	3/8-16 x 1 1/2 FL HD SCR	.12	BRASS
14	8	00P79	3/8-16 x 3/4 FL HD SCR	.09	BRASS
15	2	00P03	3/8-16 x 3/4 HHCS	.11	GR-8
16	2	00755	3/8ø LOCK WASHER	.05	
17	8	00P31	1/2-13 x 1 1/4 HHCS	.20	GR-8
18	2	00P95	5/8-11 x 1 1/4 FL HD SOC SCR	.23	GR-8
19	8	00760	1/2ø LOCK WASHER	.07	
20	6	00P69	5/8-11 x 2 HHCS	.33	GR-8
21	6	00767	5/8ø LOCK WASHER	.08	
22	ONE	00P97	EXT RET RING FOR 1 3/4ø	.01	
				2298.68	TOTAL

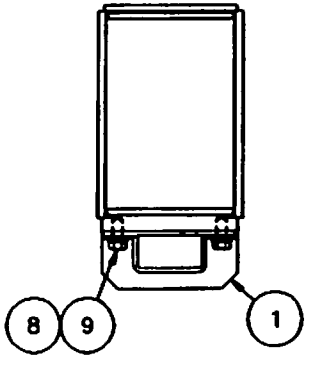


SECTION A-A

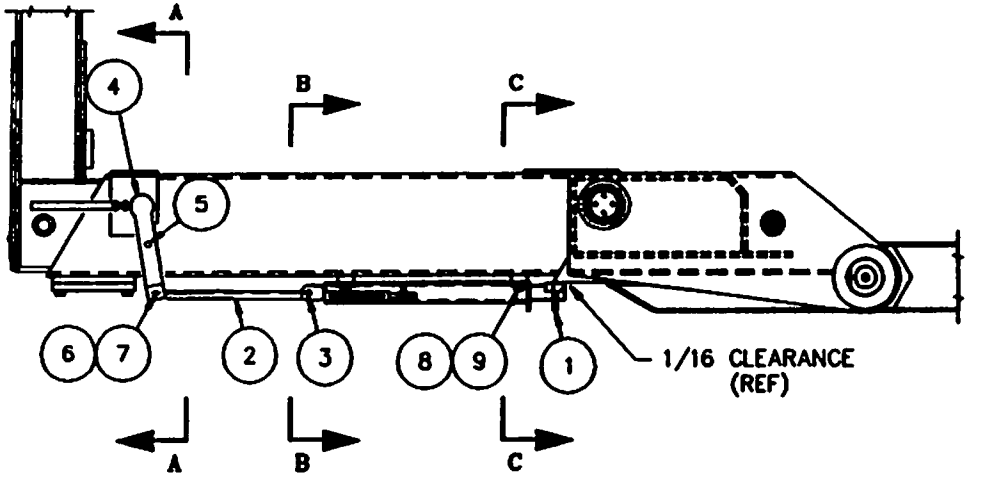




SECTION B-B

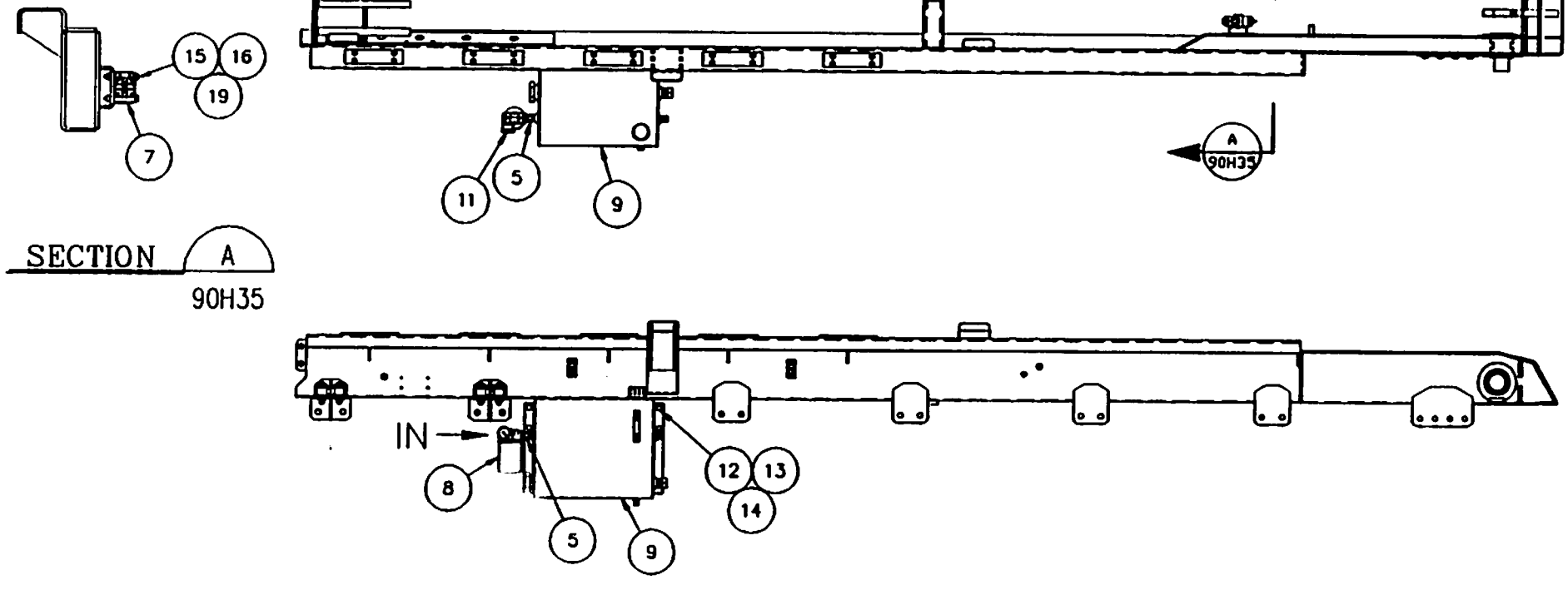


SECTION C-C



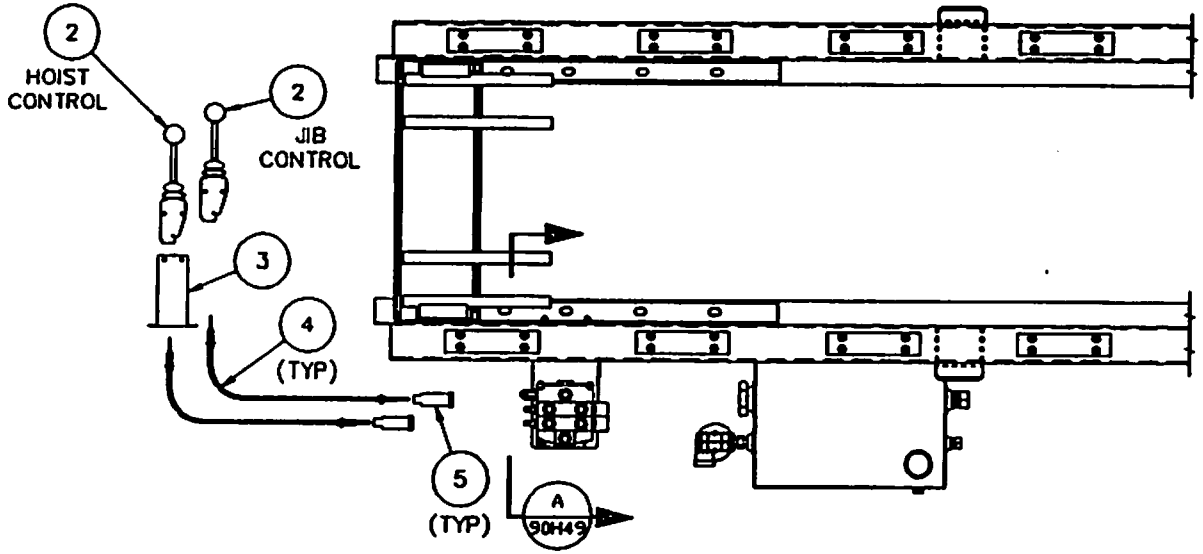
SAFETY LATCH ASSEMBLY
SL-655
DWG.-40H35 ~ REV A

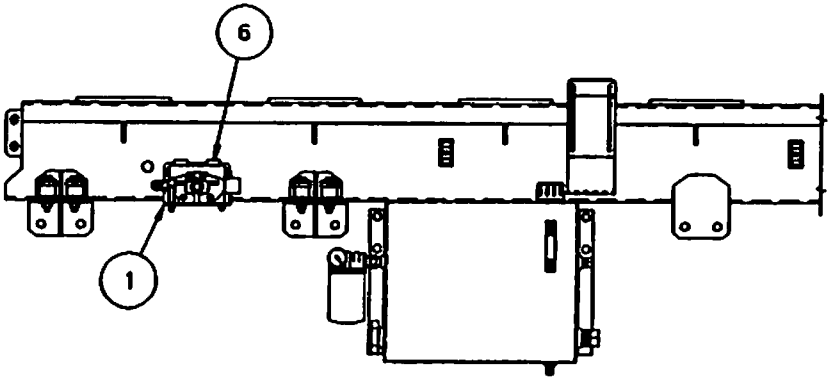
SAFETY LATCH ASSEMBLY DWG.-40H35					REVISION A
ITEM	QTY.	P/N	DESCR.	WT.- lb. PER EACH	REMARKS
1	ONE	40H36	SAFETY LATCH TUBE	69.50	
2	ONE	40H41	CONNECTION BAR	6.93	
3	ONE	40H42	CONNECTION BAR PIN	.34	
4	2	81H51	RELEASE LEVER	8.68	
5	2	00P28	EXT RET RING FOR 3/4ø	.01	
6	3	00772	1/2ø FLAT WASHER	.07	
7	3	00P26	1/8ø x 1 COTTER PIN	.01	
8	4	00767	5/8ø LOCK WASHER	.08	
9	4	00P56	5/8-11 UNC x 1 1/2 HHCS	.29	GR-8
10	2	00P24	5/8-11 UNC HEX NUT	.18	GR-8
11	2	01P09	5/8-11 UNC x 2 1/2 HHCS	.38	GR-8
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
				96.99	TOTAL

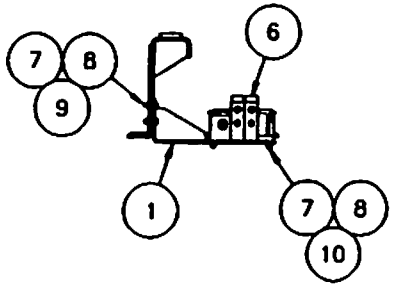


BASE HYDRAULIC ASSEMBLY
SL-655
DWG.-90H35 ~ REV A

BASE HYDRAULIC ASSEMBLY DWG.-90H35					REVISION A
ITEM	QTY.	P/N	DESCR.	WT.- lb. PER EACH	REMARKS
1					
2	ONE	90H36	HYD SUB-ASS'Y CYL CIRCUIT	67.99	NOT SHOWN
3	ONE	90H37	HYD SUB-ASS'Y PUMP CIRCUIT	16.96	NOT SHOWN
4					
5	ONE	11P78	ADP, HYD PIPE NIPPLE	.70	5404-20
6					
7	ONE	20P60	HYD VALVE	5.20	
8	ONE	20P61	HYD FILTER	4.50	
9	ONE	20P62	HYD TANK	87.00	
10	ONE	20P63	HYD PUMP, GEAR	63.50	NOT SHOWN
11	ONE	20P64	FILTER INDICATOR GAUGE	-	
12	4	00785	5/8ø FLAT WASHER HT	.08	F-436
13	4	00P55	5/8-11 LOCKING HEX NUT	.18	GR-C
14	4	00P69	5/8-11 x 2 HHCS	.33	GR-8
15	2	00755	3/8ø LOCK WASHER	.05	
16	2	00P14	3/8-16 HEX NUT	.10	GR-8
17					
18					
19	2	01P01	3/8-16 x 3 1/4 HHCS	.19	GR-8
20					
21					
22					
				248.89	TOTAL







SECTION A
90H49

MANUAL CONTROL ASS'Y 2 SECTION
SL-655
DWG.-90H49

MANUAL CONTROL ASS'Y 2 SECTION DWG.-90H49					REVISION
ITEM	QTY.	P/N	DESCR.	WT.- lb. PER EACH	REMARKS
1	ONE	40H43	VALVE MOUNT BRACKET WDMT	13.13	
2	2	20P08	REMOTE VALVE CONTROL HANDLE	2.80	
3	ONE	20P09	CONTROL HANDLE MOUNT CONSOLE	4.05	
4	2	20P40	CONTROL CABLE 96" LG	2.00	
5	2	20P65	BONNET CONNECTION KIT	.50	
6	ONE	20P59	HYD VALVE ASS'Y	46.00	
7	7	00755	3/8ø LOCK WASHER	.05	
8	7	00P14	3/8-16 HEX NUT	.10	GR-8
9	4	00P44	3/8-16 x 1 1/2 HHCS	.14	GR-8
10	3	00P99	3/8-16 x 4 HHCS	.22	GR-8
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				76.05	TOTAL

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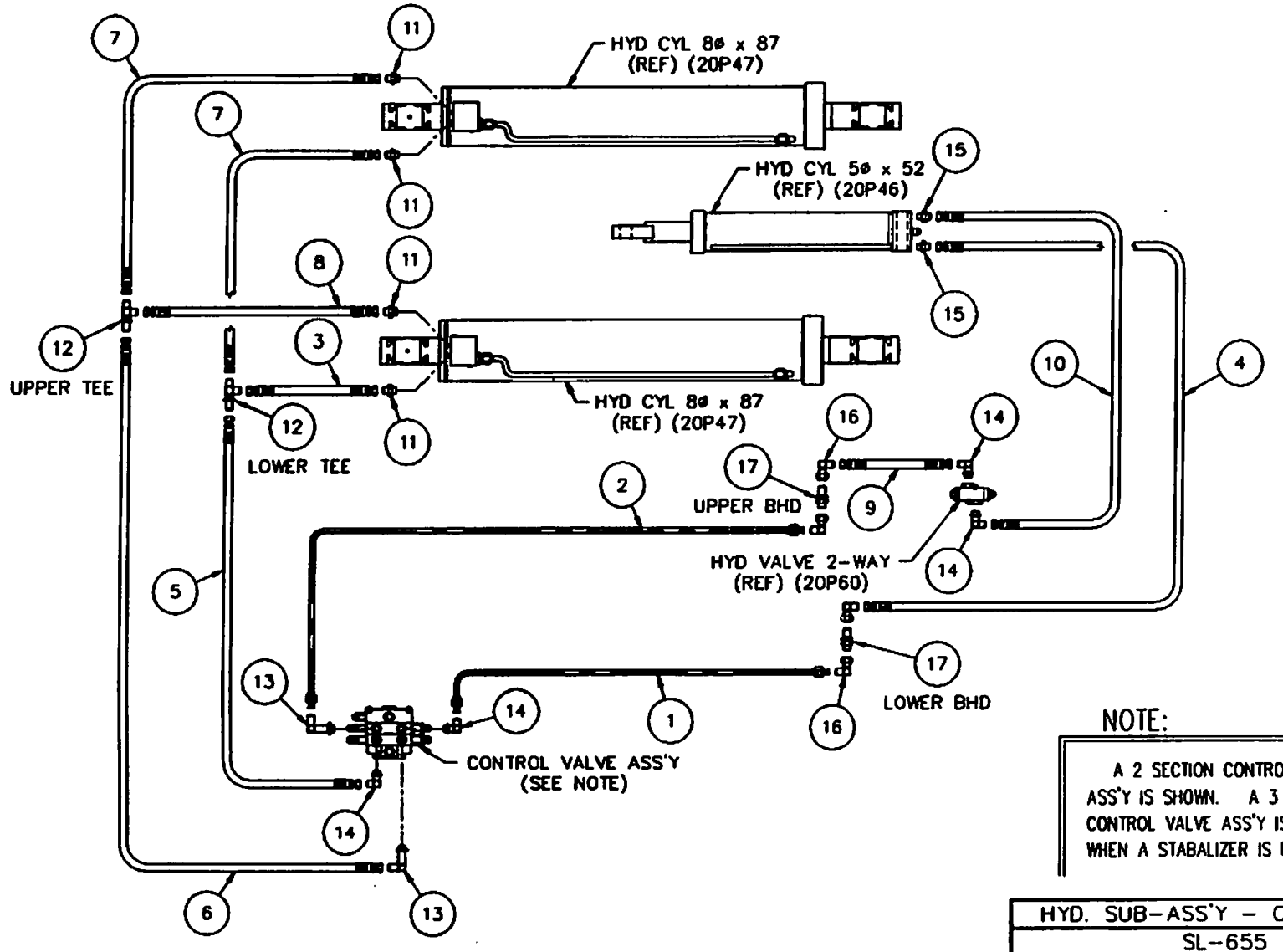

NOTE:

A 2 SECTION CONTROL VALVE ASS'Y IS SHOWN. A 3 SECTION CONTROL VALVE ASS'Y IS REQUIRED WHEN A STABALIZER IS UTILIZED.

HYD. SUB-ASS'Y - CYL CIRCUIT
SL-655
DWG.-90H36 ~ REV D

HYDRAULIC SUB-ASSEMBLY – CYLINDER CIRCUIT DWG.-90H36					REVISION D
ITEM	QTY.	P/N	DESCR.	WT.- lb. PER EACH	REMARKS
1	ONE	11P46	HYD TUBING – REAR LOWER	7.48	
2	ONE	11P47	HYD TUBING – REAR UPPER	7.87	
3	ONE	11P51	HOSE ASS'Y 3/4 V.H.P. x 23	2.00	
4	ONE	11P55	HOSE ASS'Y 3/4 V.H.P. x 192	14.25	
5	ONE	11P56	HOSE ASS'Y 3/4 V.H.P. x 28	2.36	
6	ONE	11P57	HOSE ASS'Y 3/4 V.H.P. x 33	2.72	
7	2	11P58	HOSE ASS'Y 3/4 V.H.P. x 51	4.03	
8	ONE	11P59	HOSE ASS'Y 3/4 V.H.P. x 24	2.07	
9	ONE	11P67	HOSE ASS'Y 3/4 V.H.P. x 38	3.08	
10	ONE	11P68	HOSE ASS'Y 3/4 V.H.P. x 150	11.20	
11	4	10P90	ADP. HYD O-RING / M JIC STR	.30	6400-12
12	2	11P61	ADP. HYD M JIC BHD RUN TEE	.40	2704-LN-12
13	2	11P62	ADP. HYD O-RING / M JIC 90° EXT	.40	6801-LL-12
14	4	10P36	ADP. HYD O-RING / M JIC 90°	.40	6801-12
15	2	11P64	ADP. HYD O-RING / M JIC STR	.30	6400-12-10
16	4	11P65	ADP. HYD M JIC / FM JIC SWIVEL 90°	.40	6500-12
17	2	11P66	ADP. HYD M JIC BHD UNION	.40	2700-LN-12
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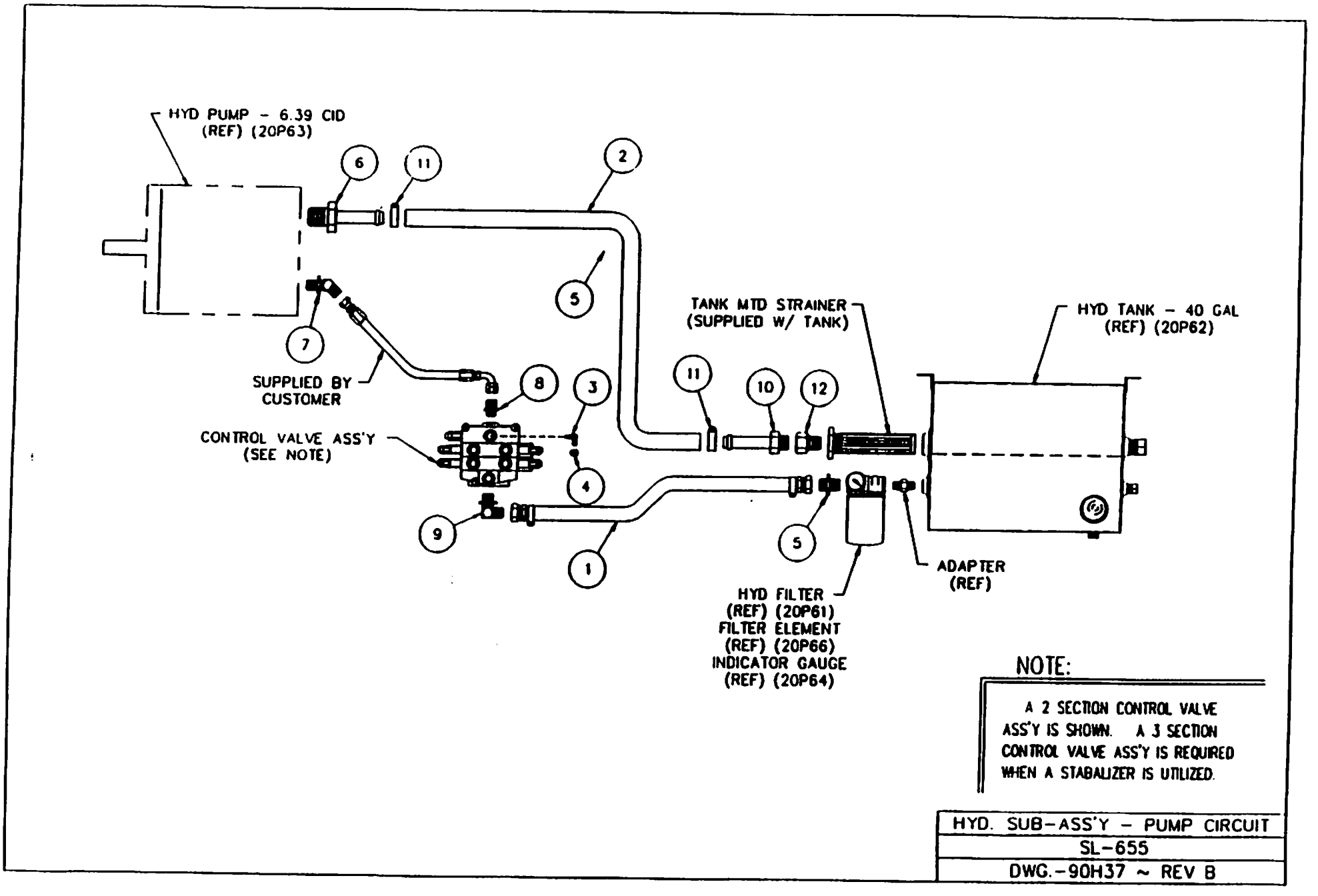
				68.49	TOTAL



NOTE:

A 2 SECTION CONTROL VALVE ASS'Y IS SHOWN. A 3 SECTION CONTROL VALVE ASS'Y IS REQUIRED WHEN A STABALIZER IS UTILIZED.

HYD. SUB-ASS'Y - PUMP CIRCUIT
SL-655
DWG.-90H37 ~ REV B

HYDRAULIC SUB–ASSEMBLY – PUMP CIRCUIT DWG.–90H37					REVISION B
ITEM	QTY.	P/N	DESCR.	WT.– lb. PER EACH	REMARKS
1	ONE	11P69	HOSE ASS'Y 1 1/4 LP x 36	3.76	
2	ONE	11P71	HOSE ASS'Y 1 1/2 LP X 120	9.60	
3	ONE	10P37	ADP, HYD M PIPE / M JIC 90°	.30	2501–4–4
4	ONE	10P38	ADP, HYD JIC CAP	.10	304–C–4
5	ONE	10P86	ADP, HYD M PIPE / M JIC STR	.70	2404–20–20
6	ONE	11P72	ADP, HYD O–RING HOSE INSERT	.40	4604–24–20
7	ONE	10P31	ADP, HYD O–RING / M JIC 45°	.50	6802–16
8	ONE	11P74	ADP, HYD O–RING / M JIC STR	.40	6400–16–12
9	ONE	11P75	ADP, HYD O–RING / M JIC 90°	.50	6801–20–16
10	ONE	11P76	ADP, HYD M PIPE HOSE INSERT	.40	4404–24–24
11	2	11P77	T–BOLT CLAMP, 2ø	.15	TBC–200
12	ONE	11P90	ADP, HYD MP / FP REDUCER	.95	5406–32–24
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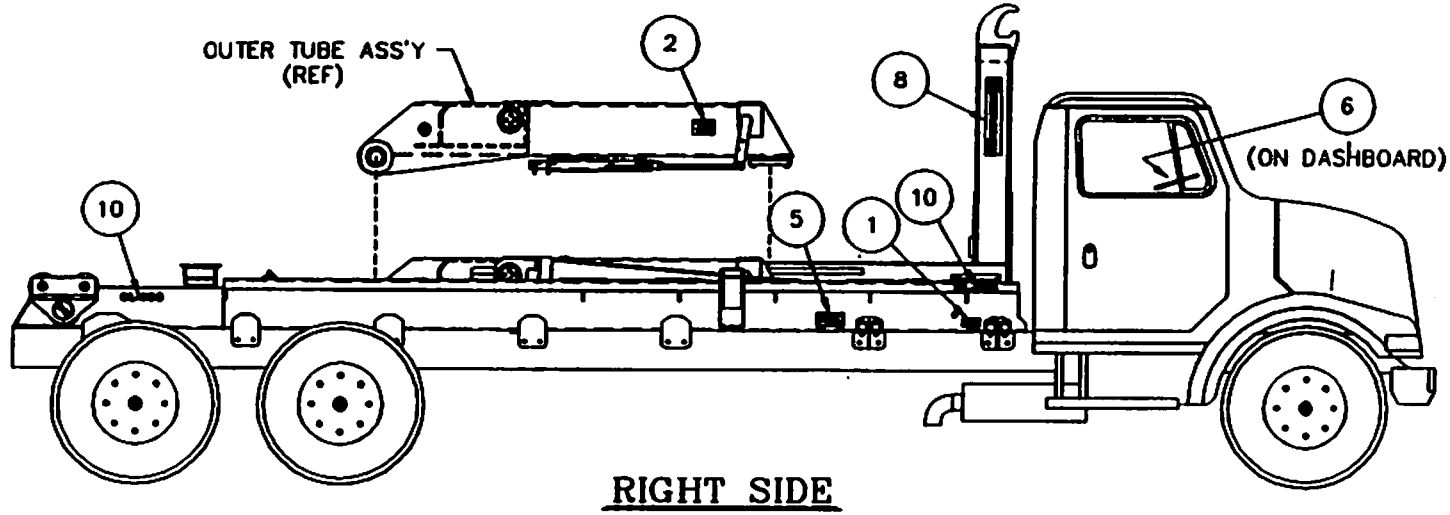
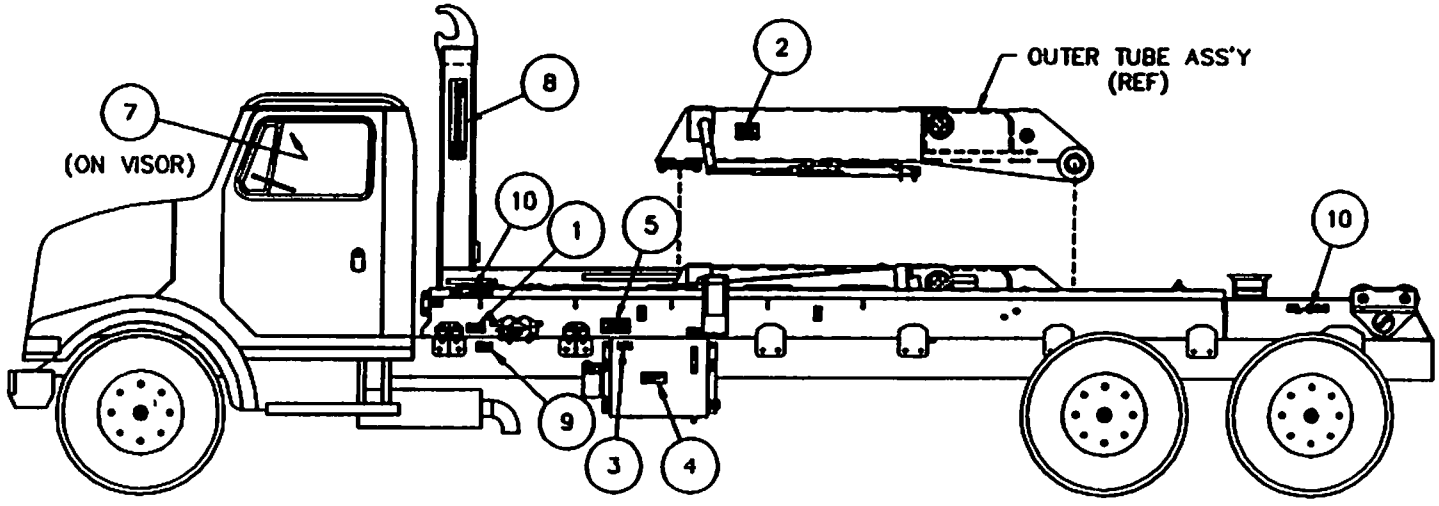
				17.91	TOTAL



RIGHT SIDE



LEFT SIDE

DECAL ASSEMBLY
SL-655
DWG.-40H47

DECAL ASSEMBLY DWG.-40H47					REVISION
ITEM	QTY.	P/N	DESCR.	WT.- lb. PER EACH	REMARKS
1	2	90P07	OPR & SERV MANUAL		
2	2	90P08	HOIST - BODY SPEC		
3	ONE	90P09	HYD OIL SPEC		
4	ONE	90P10	HYD OIL FLAMMABLE		
5	2	90P11	HOIST FALLING		
6	ONE	90P12	LEVER CONTROL		
7	ONE	90P13	SAFETY INSTRUCTIONS		
8	3	90P14	SWAPLOADER - JIB		
9	ONE	90P18	RELIEF VALVE		
10	4	90P31	SL-655		
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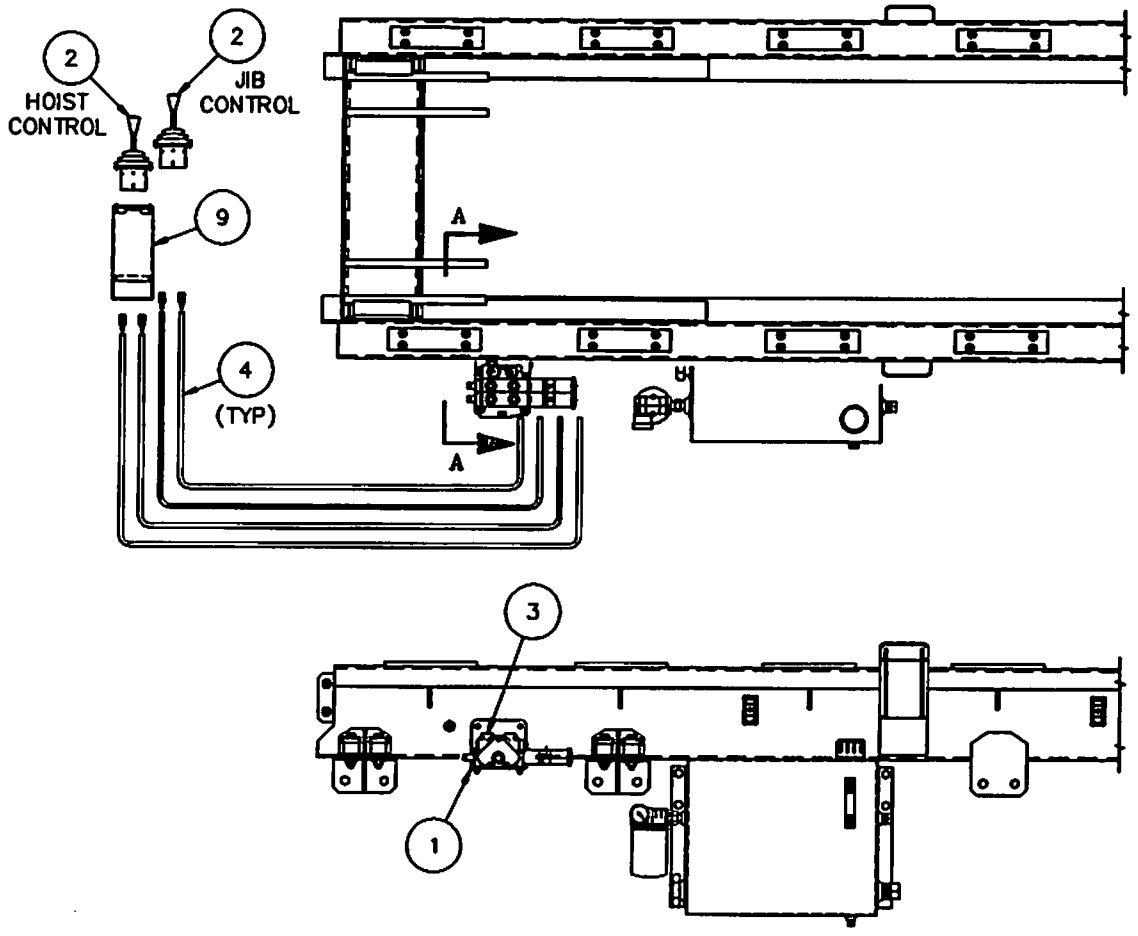
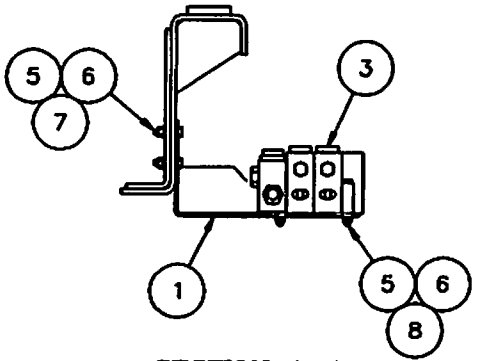
					TOTAL

OPTIONS





SECTION A–A

AIR CONTROL ASS'Y 2 SECTION
SL–655
DWG.–90H47 ~ REV. A

AIR CONTROL ASS'Y 2 SECTION DWG.-90H47					REVISION A
ITEM	QTY.	P/N	DESCR.	WT.- lb. PER EACH	REMARKS
1	ONE	40H43	VALVE MOUNT BRACKET	13.13	
2	ONE	20P72	CONTROL HANDLE ASS'Y	1.60	
3	ONE	90H41	HYD VALVE ASS'Y	49.00	
4	ONE	90H44	AIR CIRCUIT, CONTROL VALVE	6.73	
5	7	00755	3/8ø LOCK WASHER	.05	
6	7	00P14	3/8-16 HEX NUT	.10	GR-8
7	4	00P44	3/8-16 x 1 1/2 HHCS	.14	GR-8
8	3	00P99	3/8-16 x 4 HHCS	.22	GR-8
9	ONE	51H27	AIR CONTROL CONSOLE ASS'Y	6.23	
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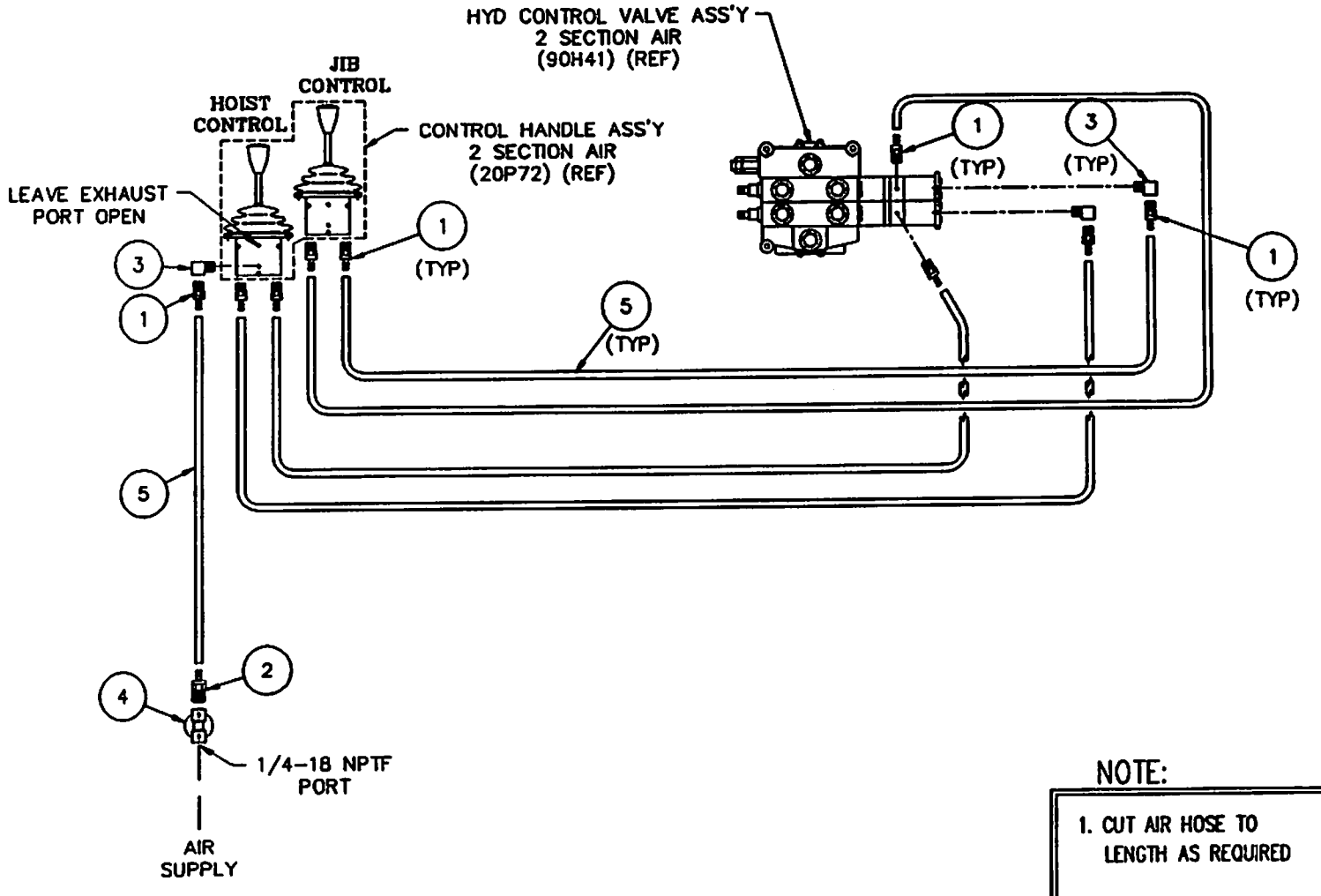
				78.96	TOTAL



NOTE:

1. CUT AIR HOSE TO LENGTH AS REQUIRED

AIR CIRCUIT, CONTROL 2 SECTION
SL-655
DWG.-90H44 ~ REV A

AIR CIRCUIT, CONTROL 2 SECTION DWG.-90H44					REVISION A
ITEM	QTY.	P/N	DESCR.	WT.- lb. PER EACH	REMARKS
1	9	11P80	FITTING, AIR 1/8-27 NPT	.01	10004B-102
2	ONE	11P81	FITTING, AIR 1/4-18 NPT	.01	10004B-104
3	3	11P82	ADP, AIR MP/FP 90° BRASS	.01	3400-2
4	ONE	20P74	AIR PRESSURE PROTECTION VALVE	.59	WM778A
5	ONE	90H43	AIR HOSE, 1/4Ø x 75 ft	6.00	H20104
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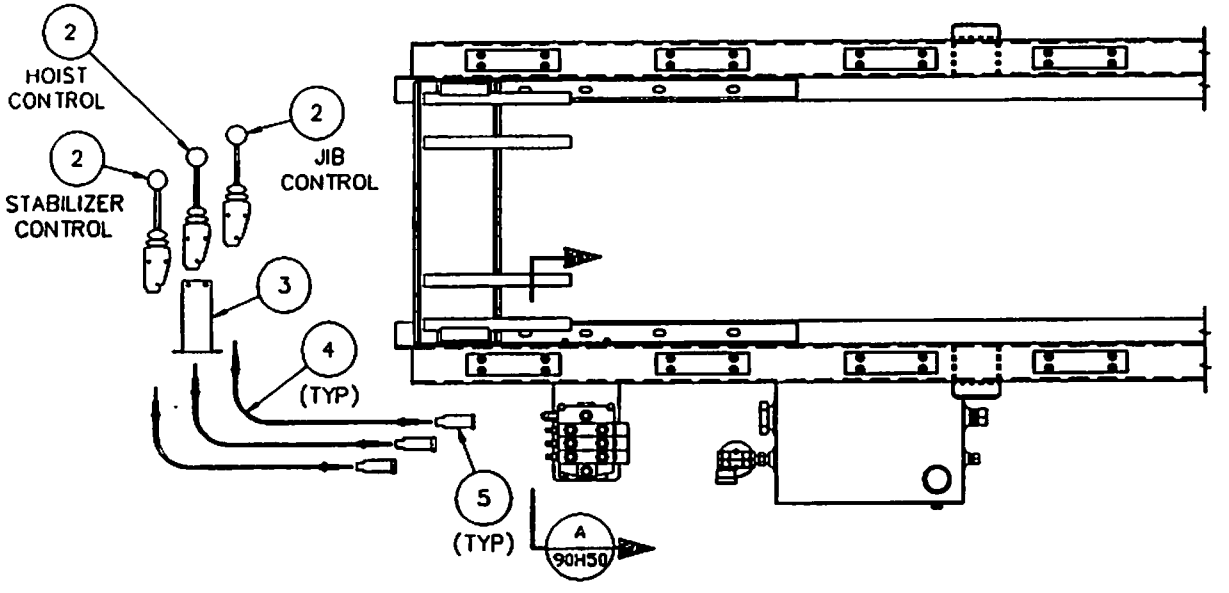
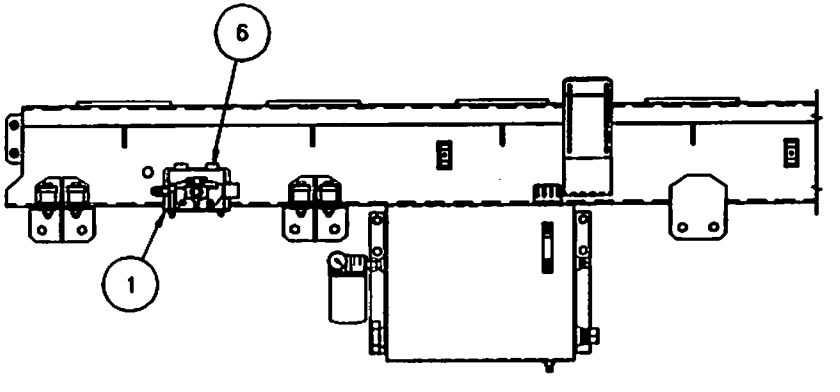
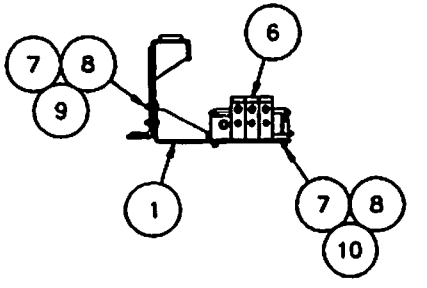
				6.72	TOTAL







SECTION A
90H50

MANUAL CONTROL ASS'Y 3 SECTION
SL-655
DWG.-90H50

MANUAL CONTROL ASS'Y 3 SECTION DWG.-90H50					REVISION
ITEM	QTY.	P/N	DESCR.	WT.- lb. PER EACH	REMARKS
1	ONE	40H58	VALVE MOUNT BRACKET WDMT	14.15	
2	3	20P08	REMOTE VALVE CONTROL HANDLE	2.80	
3	ONE	20P78	CONTROL HANDLE MOUNT CONSOLE	4.75	
4	3	20P40	CONTROL CABLE 96" LG	2.00	
5	3	20P65	BONNET CONNECTION KIT	.50	
6	ONE	20P70	HYD VALVE ASS'Y	58.00	
7	7	00755	3/8ø LOCK WASHER	.05	
8	7	00P14	3/8-16 HEX NUT	.10	GR-8
9	4	00P44	3/8-16 x 1 1/2 HHCS	.14	GR-8
10	3	00P99	3/8-16 x 4 HHCS	.22	GR-8
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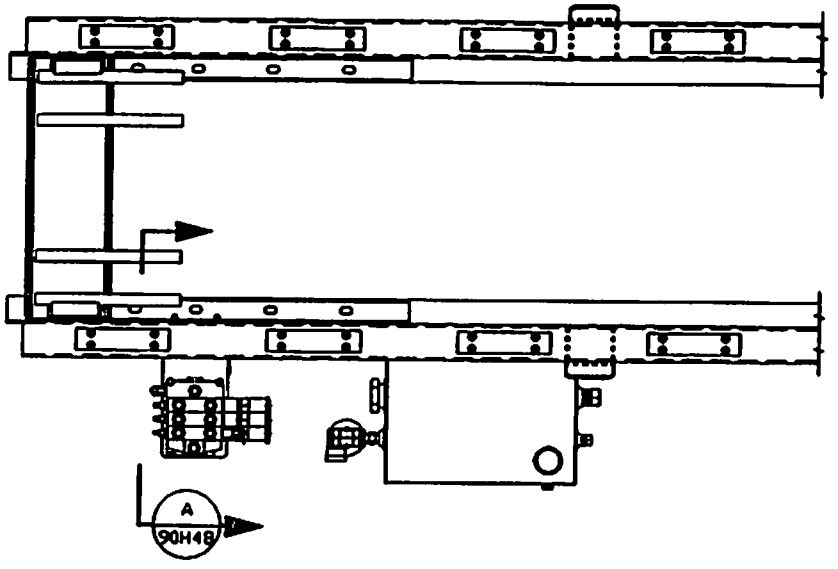
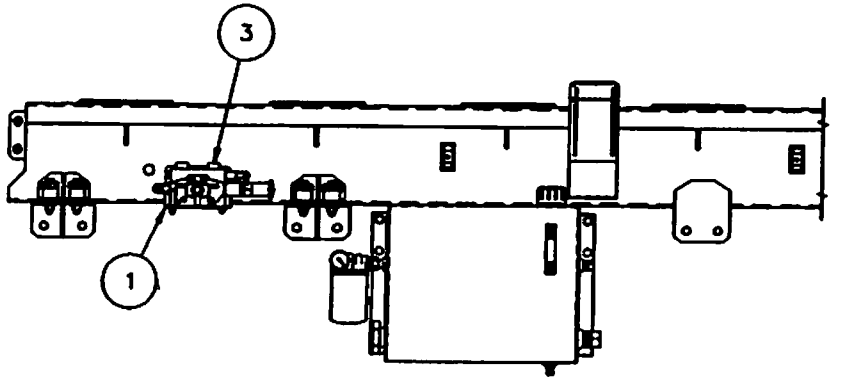
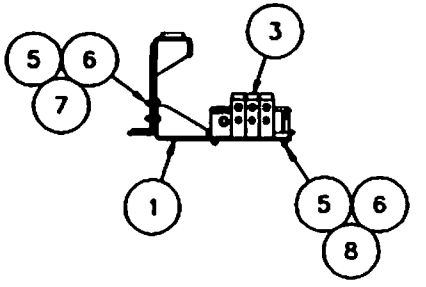
				95.07	TOTAL







SECTION A
90H48

AIR CONTROL ASS'Y 3 SECTION
SL-655
DWG.-90H48

AIR CONTROL ASS'Y 3 SECTION DWG.-90H48					REVISION
ITEM	QTY.	P/N	DESCR.	WT.- lb. PER EACH	REMARKS
1	ONE	40H58	VALVE MOUNT BRACKET WDMT	14.15	
2	ONE	20P73	CONTROL HANDLE ASS'Y	2.40	NOT SHOWN
3	ONE	90H42	HYD VALVE ASS'Y	62.50	
4	ONE	90H45	AIR CIRCUIT, CONTROL VALVE	8.77	NOT SHOWN
5	7	00755	3/8ø LOCK WASHER	.05	
6	7	00P14	3/8-16 HEX NUT	.10	GR-8
7	4	00P44	3/8-16 x 1 1/2 HHCS	.14	GR-8
8	3	00P99	3/8-16 x 4 HHCS	.22	GR-8
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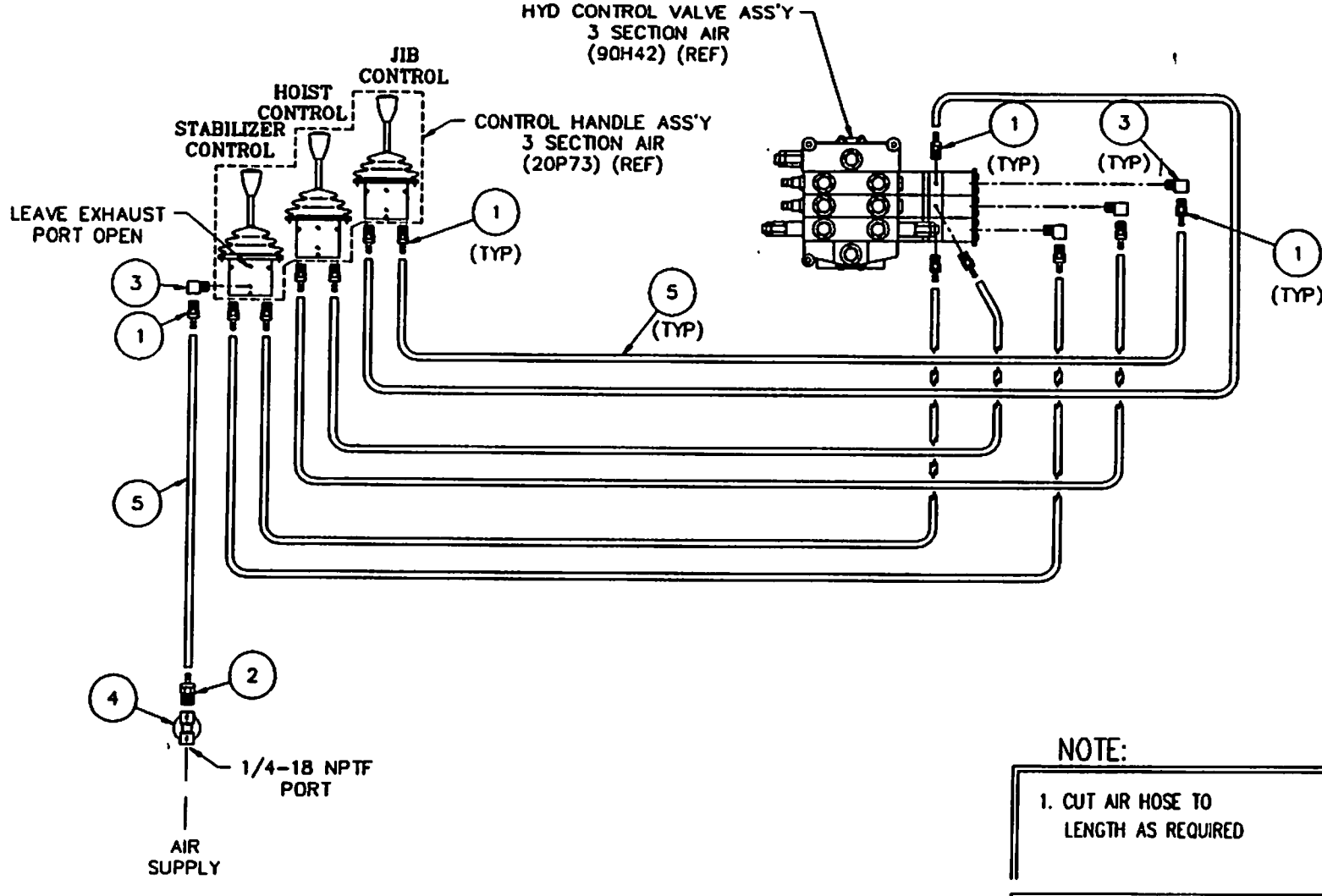
				90.09	TOTAL



NOTE:

1. CUT AIR HOSE TO LENGTH AS REQUIRED

AIR CIRCUIT, CONTROL 3 SECTION
SL-655
DWG.-90H45

AIR CIRCUIT, CONTROL 3 SECTION DWG.-90H45					REVISION
ITEM	QTY.	P/N	DESCR.	WT.- lb. PER EACH	REMARKS
1	13	11P80	FITTING, AIR 1/8-27 NPT	.01	10004B-102
2	ONE	11P81	FITTING, AIR 1/4-18 NPT	.01	10004B-104
3	4	11P82	ADP, AIR MP/FP 90° BRASS	.01	3400-2
4	ONE	20P74	AIR PRESSURE PROTECTION VALVE	.59	WM778A
5	ONE	90H46	AIR HOSE, 1/4ø x 100 ft	8.00	H20104
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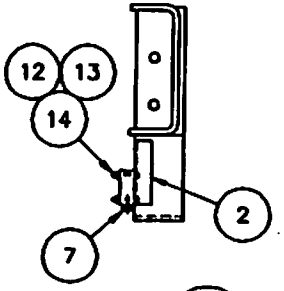
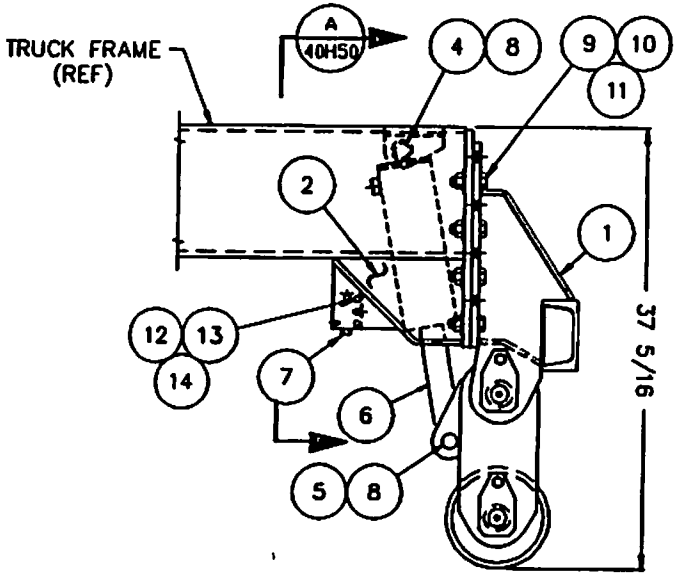
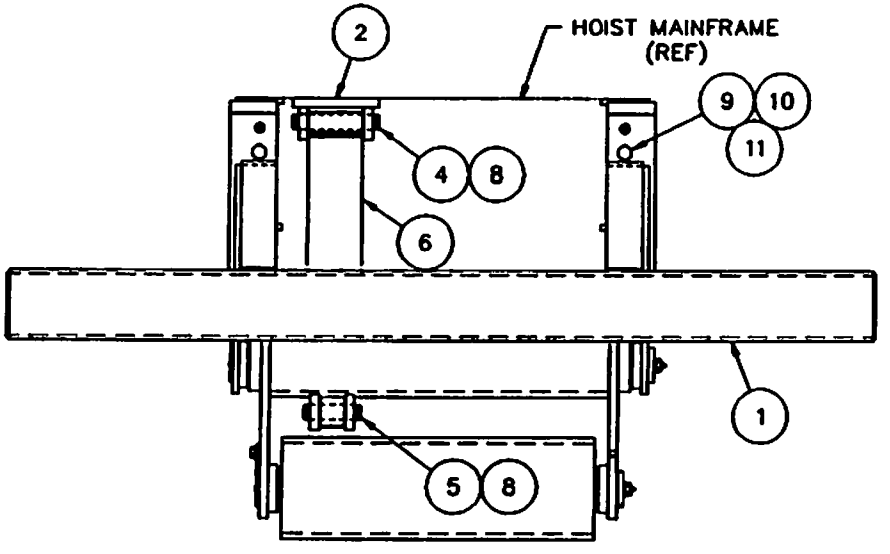
				8.77	TOTAL



SECTION A
40H50





STABILIZER FINAL ASSEMBLY
SL-655
DWG.-40H50

STABILIZER FINAL ASSEMBLY DWG.-40H50					REVISION
ITEM	QTY.	P/N	DESCR.	WT.- lb. PER EACH	REMARKS
1	ONE	40H51	STABILIZER SUB-ASS'Y	510.75	
2	ONE	40H60	STABILIZER MODIFICATION WDMT	60.10	
3	ONE	90H51	STABILIZER HYD CIRCUIT	21.66	NOT SHOWN
4	ONE	82H03	UPPER CYLINDER PIN	2.52	
5	ONE	82H04	LOWER CYLINDER PIN	1.65	
6	ONE	20P57	4ø BORE x 8 STROKE HYD CYL	35.00	
7	ONE	20P76	P.O. CHECK VALVE	1.00	
8	4	07406	HITCH PIN	.03	
9	8	00P93	3/4-10 x 2 1/2 HHCS	.50	GR-8
10	8	00786	3/4ø FLAT WASHER HT	.10	F-436
11	8	00P72	3/4-10 LOCKING HEX NUT	.22	GR-C
12	2	01P08	5/16-18 x 2 HHCS	.12	GR-8
13	2	00752	5/16ø LOCK WASHER	.04	
14	2	00P20	5/16-18 HEX NUT	.09	GR-8
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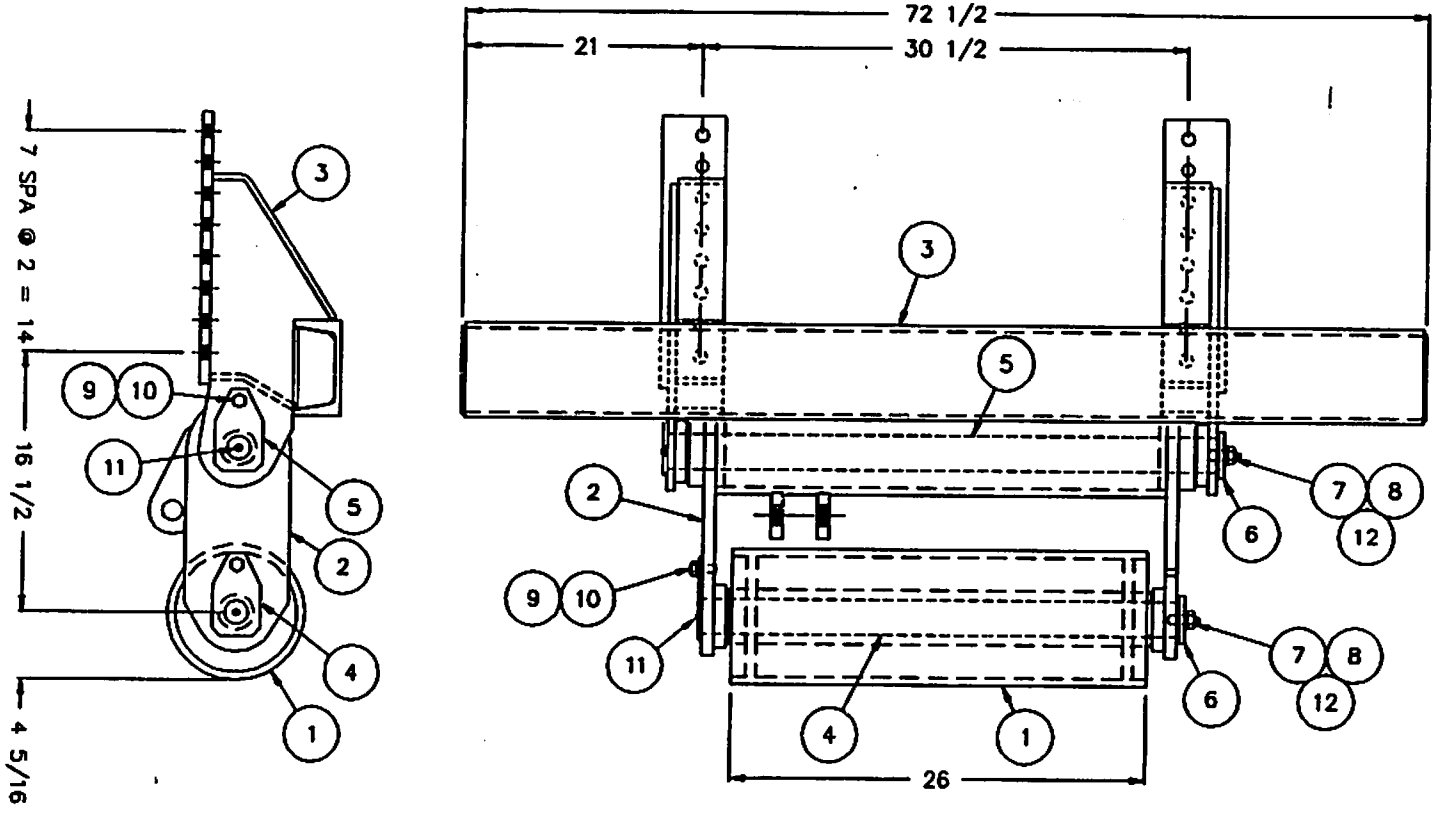
				639.86	TOTAL



STABILIZER SUB-ASSEMBLY
SL-40H51
DWG.-40H51

STABILIZER SUB–ASSEMBLY DWG.–40H51					REVISION
ITEM	QTY.	P/N	DESCR.	WT.– lb. PER EACH	REMARKS
1	ONE	40H52	STABILIZER ROLLER	146.43	
2	ONE	40H53	STABILIZER ARM	121.22	
3	ONE	40H54	STABILIZER MOUNT	166.33	
4	ONE	40H55	SHORT AXLE	34.47	
5	ONE	40H56	LONG AXLE	39.82	
6	2	82H05	AXLE PIN CAP	.71	
7	2	22H36	ROLLER RETAINER BOLT	.16	
8	2	00767	5/8ø LOCK WASHER	.08	
9	2	00P31	1/2–13 x 1 1/4 HHCS	.20	GR–8
10	2	00760	1/2ø LOCK WASHER	.07	
11	2	90P03	1/8 NPT GREASE ZERK	.01	
12	2	90P20	1/4–28 GREASE ZERK	.01	
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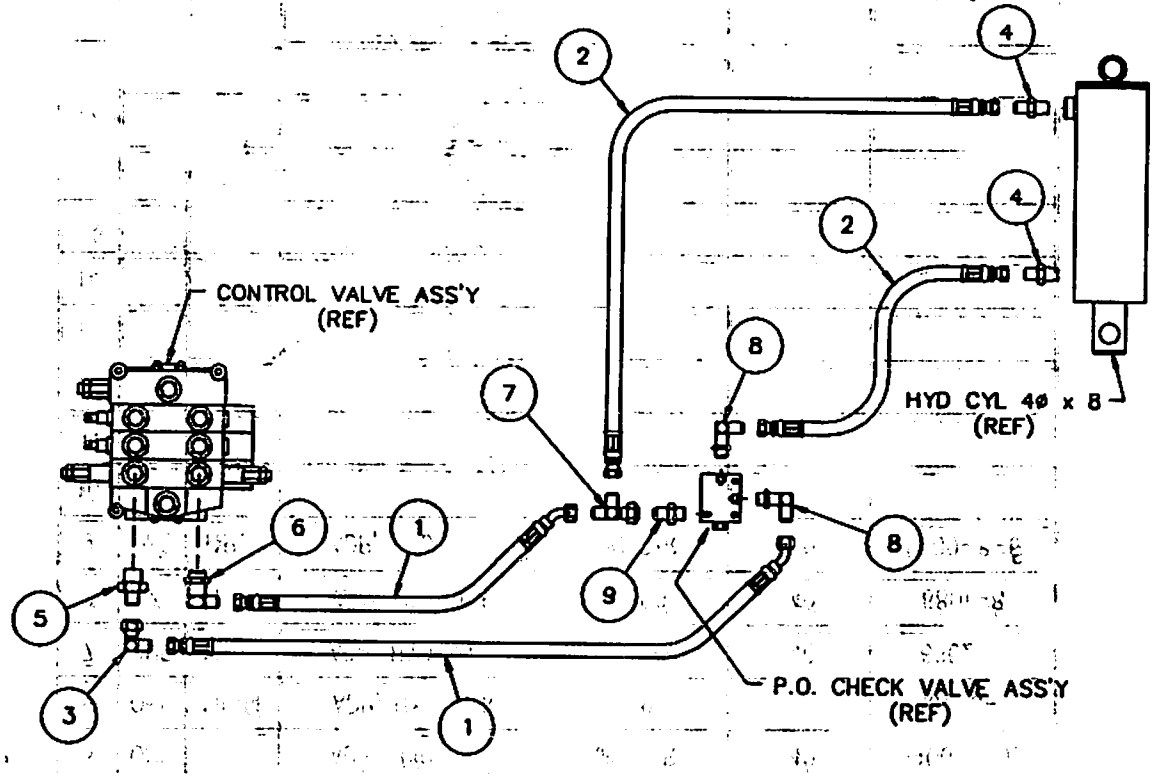
				510.75	TOTAL



HYD SUB–ASS'Y STABILIZER CIRCUIT
SL–655
DWG.–90H51

HYDRAULIC SUB-ASSEMBLY STABILIZER CIRCUIT DWG.-90H51					REVISION
ITEM	QTY.	P/N	DESCR.	WT.- lb. PER EACH	REMARKS
1	2	11P87	HOSE ASS'Y 1/2 H.P. x 240	8.00	
2	2	11P88	HOSE ASS'Y 1/2 H.P. x 14	1.03	
3	ONE	10P44	ADP, HYD M JIC / FM JIC 90°	.40	6500-8
4	2	10P99	ADP, HYD M PIPE / M JIC STR	.40	2404-8-8
5	ONE	11P83	ADP, HYD O-RING / M JIC STR	.40	6400-8-12
6	ONE	11P84	ADP, HYD O-RING / M JIC 90°	.40	6801-8-12
7	ONE	11P85	ADP, HYD SWIVEL NUT RUN TEE	.40	6602-8
8	2	11P23	ADP, HYD O-RING / M JIC 90°	.40	6801-8
9	ONE	11P89	ADP, HYD O-RING / M JIC STR	.40	6400-8-6
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				21.66	TOTAL

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