R12/86

Auto Crane Company

P.O. BOX 580697 • TULSA, OKLAHOMA 74158-0697
4707 N. MINGO RD. • TULSA, OKLAHOMA 74117
918-836-0463 •TELEX 158108 RAMSEY TUL

OWNER'S MANUAL

5005H SERIES

Serial No. _____

5005H OWNER'S MANUAL

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AUTO CRANE COMPANY

INTRODUCTION - 5005H SERIES

ɔ Crane products have been engineered to provide ouble-free, dependable service for many years when ɔroducts are properly used and maintained.

assist you in obtaining the best service from your crane avoid untimely failure of the unit and/or the vehicle on it is mounted, the following operating and service ctions are herein published, and it is specifically ımended that all operating and service personnel der this manual as mandatory material for reading and before operating or servicing Auto Crane products. It is y recommended that crane owners, equipment man- ; and supervisors also read this manual.

ɹto Crane has incorporated several safety features in 5005H series for your protection. The material and lrical systems were designed to minimize weight and then durability. The hydraulic components are design- or a 4:1 safety factor. Holding valves are installed to ɾent the load from dropping if a hose should fail. A 10u r is installed in the hydraulic system to remove dirt and that may cause premature failure. The reservoir is tected with a 15u filter in the filter cap, and a 40 mesh ıiner in the suction line.

For your convenience the overall dimensions of the)5H series are included on the General Dimension awing. Rotation and turning radius are also listed. See ge 46.

Remember that the crane adds weight to the vehicle and ay change the driving and riding characteristics of the hicle on which it is mounted unless this weight is properly ovided for with appropriate overload springs. The payload the vehicle is also reduced by the amount that the crane eighs, and as the vehicle is loaded, care should be xercised not to overload the vehicle. Exercising care in listributing the payload on the vehicle will greatly improve he driving and riding characteristics of the vehicle. A ninimum G.V.W. of 10,500 lbs. is recommended for mount- ng the 5005H series cranes.

Auto Crane Company issues a limited warranty certificate with each unit sold. See last page for warranty policy.

It has always been Auto Crane Company policy to handle all warranty claims we receive as promptly as possible. If material or workmanship is involved, immediate corrective action is taken. It is therefore understandable that Auto Crane Company cannot assume responsibility or liability when our products have obviously been abused, mis-used, overloaded or otherwise damaged by inexperienced persons trying to operate the equipment without even reading the manual. The Auto Crane is designed and built to be safe and efficient. Auto Crane will not assume responsibility or liability for any unit which has been modified, changed, or which has unauthorized or unapproved components installed.

Auto Crane maintains a strong distributor network and a knowledgeable Customer Service Department. In most cases an equipment problem can be solved through a telephone conversation with our Customer Service Department. The Customer Service Department also has the ability to bring a local distributor, a regional sales manager, or a factory serviceman into the solution of an equipment problem if necessary. If through no fault of Auto Crane Company it is necessary to send an experienced factory serviceman on a field service call, the rates stated in the Auto Crane Service Policy on the last page of this manual will apply.

Auto Crane Company's extensive Research and Development Program assures our customers of the best equipment on the market, and our Engineering Staff, as well as our knowledgeable sales people are always available to our customers in solving crane and winch-type application problems. When in doubt – call the Auto Crane factory.

DISTRIBUTOR ASSISTANCE:

Should you require any assistance not given in this manual, we recommend that you consult your nearest Auto Crane Distributor. Our distributors are stocked with authorized replacement parts and a service department that can solve almost any needed repair.

NOTE: THIS MANUAL SHOULD REMAIN WITH THE CRANE AT ALL TIMES.

The material herein does not imply to cover all maintenance, instructions, operations, or variations pertinent to every possible situation. If additional information is required, please refer to the Auto Crane Company at the following telephone number: 918 - 836-0463. The information contained in this manual was in effect at the time of printing. Auto Crane Company reserves the right to update this material at any time without prior notice or obligation.

- IMPORTANT -

SAFETY TIPS AND PRECAUTIONS

1. Make certain the vehicle meets minimum chassis requirements. (These requirements do not guarantee unit stability.)

2. Make certain the crane is installed per factory specifications. Contact your local Distributor or the Auto Crane factory if any questions arise.

3. Keep the vehicle in as level a position as possible while loading or unloading.

4. ALWAYS set the vehicle emergency brake before beginning crane operations.

5. ALWAYS use outriggers from vehicle to the ground during crane operation. Insure that they are firmly positioned on solid footings.

6. All load ratings are based on crane capacity, NOT unit stability.

7. ALWAYS comply with load chart capacities (centerline of rotation to hoist hook.)

8. NEVER OPERATE THE CRANE NEAR ELECTRICAL POWER LINES. Auto Crane Company recommends that a crane never be moved any closer to a power line (including telephone lines) than 20 feet at any point.

9. Keep objects and personnel clear of crane path during operation.

10. Keep hoist cable pulled tight at all times.

11. **WARNING** NEVER un-reel last wrap of cable from drum.

12. **WARNING** NEVER wrap cable around load.

13. REMEMBER – in lifting a heavy load, the weight can create enough tipping moment to overturn the vehicle.

14. **WARNING** NEVER attempt to lift or drag a load from the side – the boom can fail far below its rated capacity.

15. Oil gears as required.

16. Periodic adjustment of hoist worm brake may be required (see automatic safety brake drawing, page 18).

17. **WARNING** NEVER weld, modify, or use unauthorized components on any Auto Crane unit. This will void any warranty or liability. Also failure of the crane may result.

18. An important item which an operator should consider and use properly is the hoist hook. It should be checked on a 30-day basis for distortion or cracks.

19. **WARNING** NEVER place a chain link on the tip of the hook and try to lift a load with the hoist.

20. **WARNING** NEVER use a sling bar or anything larger than the hook throat which could prevent the safety latch from closing, thus negating the safety feature.

21. **WARNING** In using a safety hook, ALWAYS insure that the hook throat is closed before lifting a load. Proper attention and common sense applied to the use of the hoist hook and various slings will prevent possible damage to material being hoisted and may prevent injury to personnel.

22. **WARNING** NEVER hold any pendant Select switch on that will negate safe operating conditions.

23. ALWAYS store outriggers before road travel.

OPERATION OF UNIT

ake sure this manual has been thoroughly read by all ane operating personnel.

routine inspection of the crane should be mandatory efore each operating day. Any defects should be orrected immediatly.

,t a job site the vehicle should be positioned so that he crane can adequately reach the load within the ated capacity (centerline of rotation to hoist hook).

Keep the vehicle as level as possible during operation.

Engage emergency brake and turn ignition off with transmission left in gear or in park (for automatic transmissions). This is for Auto Crane units requiring only battery operation, For larger Auto Crane units requiring battery and hydraulic operation, engage emergency brake and place gear select in neutral; press clutch and pull PTO knob in gear; release clutch and set throttle control to proper engine speed. WARNING: DO NOT EXCEED ENGINE SPEED NECESSARY TO MEET PUMP RPM REQUIREMENT- (see hydraulic section) POSSIBLE DAMAGE MAY RESULT.

i. Always use outriggers from the truck to the ground.Be sure these are firm and adequately positioned.

7. Then remove pendant control from cab (on smaller) units) and plug into receptacle on crane. Crane is now ready for operation. On Auto Crane's larger units, remove pendant control from guard and unwrap cable from boom. Crane is now ready for operation.

8. Always boom up before rotating so that the boom will clear the required boom support.

9. When extending the boom always maintain clearance between the boom crown and the traveling block or hoist hook.

10. Always observe safe and practical operation to avoid possible accidents. Refer to Safety Tips and Precautions.

11. After completing lifting operations, return the boom to stowed position on the boom support. Avoid unneeded pressure on the boom support.

12. Store pendant control on proper location (in cab or on crane).

13. Return outriggers to stowed position. Make sure they are pinned in place or jacklegs are returned to compartment.

14. Check work area for any tools or equipment not stored.

15. Press clutch and disengage PTO. Release throttle control and emergency brake.

16. Report any unusual occurance during crane operation that may indicate required maintenance or repair.

OPERATION OF HYDRAULIC OUTRIGGERS

1. Prior to operating outriggers, detach crane hook from dead man.

2. Shift crane - outrigger selector valvle to "outrigger" position.

3. While operating the outrigger control valves (located on the outrigger cylinders), simultaneously operate the boom-up control switch. This will allow hydraulic system to build pressure.

4. After outriggers are positioned, return crane-outrigger selector valve to "crane" position. Crane is now ready to operate.

MOUNTING AND INSTALLATION - 5005H

1. Vehicle should meet minimum GVW rating of 10,500.

2. Make sure compartment or crane mount is adequately reinforced.

3. A 13 1/2" Dia. hole should be cut out of mounting location (centered with mounting bolts. Ref: ENG 168, page 46) for access of lower ring gear bolts and hydraulic connections.

4. Mounting bolts (015104 - Screw, Hx. 7/8 N.F. X 5" G5, 4 required) to be torqued to 440 ft. lbs. (dry).

5. Power conductor (Item 46, 800657-009, Drawing AW-360505, Page 12 and Item 46, Page 15) to be uncoiled from bottom of crane and routed to positive pole on starter solenoid (REF. Drawing AW-023, page 5).

6. Pressure and return hoses and fittings are not furnished with crane. These items are normally calculated, (length) at installation. Refer to reservoir ass'y, AW-360250. Page 34.
   A) Return line from crane to reservoir
   hose - size 8 (SAE 100 R2 type AT) at desired length.
   Fittings - one - 10 JIC female swivel fitting, (reservoir end). One - 8 JIC female swivel fitting (crane end).
   B) Pressure line from vented relief valve to crane
   Hose - size 8 (SAE 100 R2 type AT) at desired length.
   Fittings - two - 8 JIC female swivel fittings.
   C) Suction hose from pump to reservoir.
   Hose size 16 (SAE 100 R4) at desired length.
   Fittings - one hose adaptor - 16 JIC female swivel fitting (pump end).
   One - 16 straight adaptor (reservoir end). Four hose clamps - 16 (two each end).
   D) Pressure line from pump to vented relief valve
   Hose - size 12 (SAE 100 R2 type AT) at desired length.
   Fittings - two - 10 JIC female swivel fittings.

   NOTE: If no pressure received at reservoir, alternate hose connections at pump.

7. When crane is not in operation, a boom support should always be used. Traveling block should be connected to hook loop. See illustration Drawing AW-023, page 5.

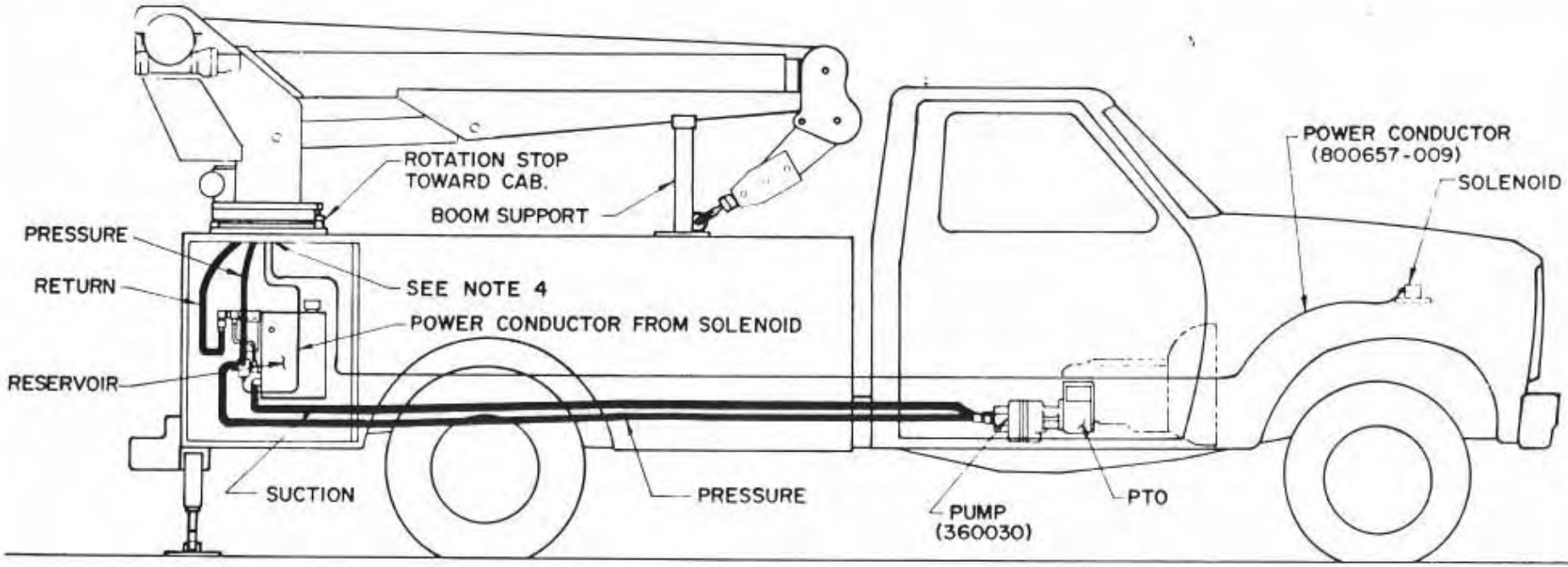
8. Always use cable loops on boom and pendant guard to store pendant assembly.

9. Crane operation requires 6 G.P.M. at 2350 p.s.i.

10. IT IS STRONGLY RECOMMENDED THE VEHICLE BE EQUIPPED WITH AN ENGINE SPEED CONTROL AND TACHOMETER.

FIXTURE NO	FINISH NO

CHG LTR	REVISIONS DESCRIPTION	DATE	APP'D



NOTES:

1. SEE PAGE 4 FOR FURTHER INSTRUCTIONS.
2. THE INSTALLATION ABOVE SHOWN IN SOLID LINE FORM FOR CLARITY.
3. THE PRESSURE AND RETURN HOSES FROM THE RESERVOIR TO THE CRANE SHOULD BE AS LONG AS POSSIBLE TO ALLOW FOR ROTATION.
4. AFTER POWER CONDUCTORS ARE INSERTED THROUGH HOLE IN BASE OF CRANE, SEAL ALL AROUND WITH SILICONE RUBBER OR EQUAL, TO PREVENT WIRE DAMAGE.

7/86

ITEM	D/S	PART NO	DESCRIPTION	QUANTITY
			LIST OF MATERIAL	

NEXT ASS'Y

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED
ANGLES ± 1/2° | XX ± .40
FRACTIONAL ± 1/16 | XXX ± .010
REMOVE ALL BURRS AND SHARP EDGES DO NOT SCALE THIS DRAWING
TOLERANCES NOT SHOWN ABOVE ARE PER ANSI Y14.5 M82

DRAWN BY Armstrong
DATE 2-23-83
CHK'D BY
DATE
ENG'R
DATE

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AUTO CRANE COMPANY

TITLE
MOUNTING AND INSTALLATION
5005H

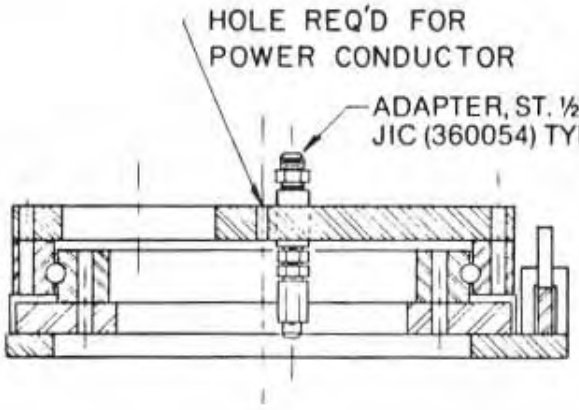
SCALE	SIZE	DRAWING NO	REVISION
~	B	AW-023	

WEIGHT

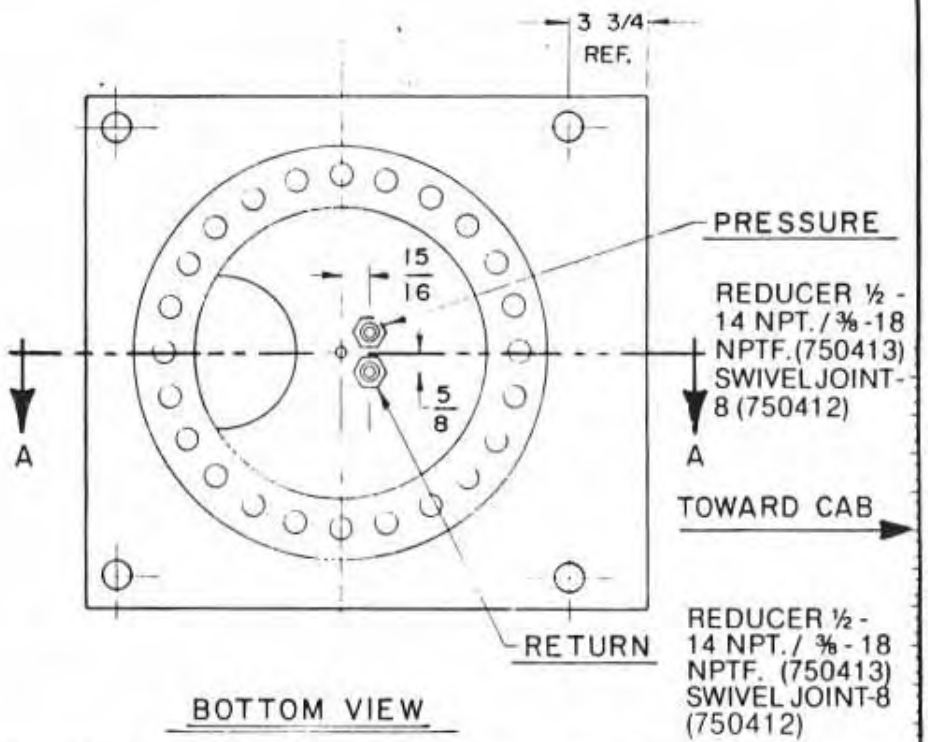
SHEET 1 OF 2

FIXTURE NO	FINISH NO

CHG LTR	REVISIONS DESCRIPTION	DATE	APP'D



SECTION A-A



BOTTOM VIEW

ITEM	D/S	PART NO.	DESCRIPTION

QUANTITY — LIST OF MATERIAL

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES UNLESS OTHERWISE SPECIFIED
ANGLES ± 1/2° | .XX ± .40
FRACTIONAL ± 1/16 | .XXX ± .010
REMOVE ALL BURRS AND SHARP EDGES. DO NOT SCALE THIS DRAWING.
TOLERANCES NOT SHOWN ABOVE ARE PER ANSI Y14.5 1973

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DATE 7/10/86
CHK'D BY
DATE
ENG. BY
DATE

AUTO CRANE COMPANY

TITLE
BASE ASSEMBLY - 5005H

SIZE B | DRAWING NO. ENG - 61 | REVISION

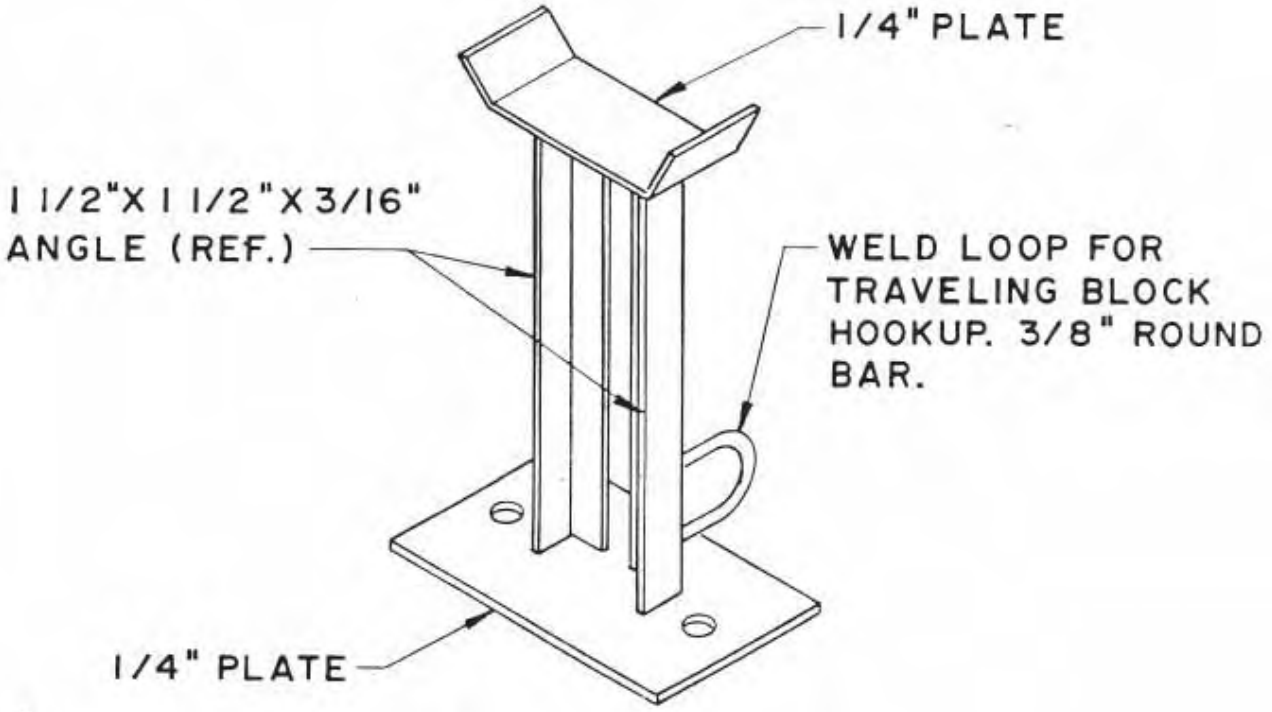
WEIGHT | SHEET 1 OF 1

12/86

NEXT ASS'Y

AUTO CRANE'S SUGGESTED BOOM SUPPORT

LEAVE 3/4" CLEARANCE ON EACH SIDE OF BOOM



BOOM SUPPORT IS REQUIRED.

AUTO CRANE COMPANY
P.O. BOX 580697 TULSA OKLAHOMA 74158-0697
4707 N. MINGO ROAD 918-836-0463

WIRE LINE LUBRICATION

Lubrication of the wire line serves two important purposes: (1) helps to prevent corrosion; (2) lubricates the cable strands to reduce wear due to flexing and abrasion caused by contact with the sheaves, rollers and cable on the drum.

PREPARATION:

Remove rust and foreign matter with a wire brush and wipe clean. Be sure cable is dry.

APPLICATION:

Two methods are illustrated in figures 1 and 2. A light weight motor oil may be used, as in figrue.1; or a heavier lubricant such as grease gun lubricant, as in figure 2.

Illustrated in figure 1 is one easy and effective method of applying lubrication. Dip the brush into the lubricant and apply. In some cases a rag or piece of sheepskin is dipped in the lubricant and used to swab the lubricant on to the rope.

Another simple method is shown in figure 2. Leather gloves are preferred to canvas because of greater protection and less penetration of the grease.

Fig. 1

Fig. 2

"LIFE OF WIRE LINE"

So many variable factors can cause the deterioration of wire line cable that it is not possible to determine a definite life expectancy.

Some of these factors are:

1. Load being handled.
2. Corrosive conditions.
3. Maintenance of the unit.
   a. Keep the sheaves turning freely.
   b. Maintain tension on cable to insure proper spooling.
   c. Lubricate line. (See above)
   d. Avoid kinks in cable.
   e. Avoid abrasive action and contact with sharp corners.
4. Frequency of use.

Auto Crane units, with 5000 pound ratings, use 5/16 inch diameter galvanized preformed 7 x 19 aircraft cable which, when new, has minimum strength of 9800 pounds. It is recommended when 2500 pound loads are exceeded to use a two-part line with a traveling block. It can be seen that there is a safety factor of 3.9 to 1 when the cable is new.

Keeping the above factor of safety in mind and knowing the kind of loads that will be handled, the user can determine by inspection of the cable as to when it should be replaced.

Items to look for while inspecting the cables are:

1. Broken strands.
2. Kinks and flattened sections.
3. Corrosion and abrasion.

HYDRAULICS - 5005H

COUNTERBALANCE VALVE ADJUSTMENT

REF. SEE HYDRAULIC ASSEMBLY AW-360564 – PAGE 28 or AW-360565 - PAGE 30.

1. With PTO disengaged and boom properly supported, remove pipe plug (Item 13, P/N 000209) shown on Boom-Up Illustration. Install a pressure gauge (0-2500 psi) into tee (Item 12, P/N 360574).

2. Engage PTO (Requirements: Pump speed setting 950 R.P.M., 6 G.P.M., 2350 psi to crane). With no load on boom, boom-up to 75 (Boom-up cylinder fully extended). Activate Boom-down and note pressure reading. If pressure reading is not 500 - 600 psi, the counterbalance valve requires adjustment.

   A. To increase the counterbalance setting turn the adjustment screw counter-clockwise (Location: Front of Item 5, P/N 360568 - Counterbalance Valve; curb side with boom toward cab. Adjustment: Loosen nut and adjust allen head set screw).

   B. To reduce the counterbalance setting, turn the adjustment screw clockwise.

3. Tighten nut on adjustment screw and repeat procedure if needed to obtain the proper pressure setting.

4. Disengage PTO, remove the pressure gauge and install pipe plug. Crane is now ready for operation.

   NOTE:
   In an emergency situation when it becomes necessary to lower the boom without flow present, the counterbalance adjustment can be turned clockwise until the boom begins to descend.

VENTED RELIEF VALVE SETTING

REF. SEE RESERVOIR ASSEMBLY AW-480150 – PAGE 34

1. The crane must recieve 6 GPM and 2350 psi. To assure proper flow, install an in-line flow meter between the crane and the reservoir in the return hose or confirm pump (360029) speed at 950 R.P.M. Proper pressure setting can be achieved by removing the pipe plug (P/N 000209, Item 13 of Hydraulic Assembly AW-360565) from the boom cylinder and installing a 0 - 2500 psi pressure gauge. This should be done with the Boom-up cylinder fully retracted.

2. The boom can now be elevated to 75°(full extension) and the pressure on the gauge noted, If the gauge reading is not 2350 psi, adjust the pressure relief (P/N 360247, Item 3 of Reservoir Assy AW-360250) until the correct pressure is registered. Verify this setting by booming down to 60°, then booming up to full cylinder extension and the pressure checked for 2350 psi.

3. Disengage PTO. Remove guage and re-install the pipe plug. Crane is now ready for operation.

5005H SERIES HYDRAULICS TROUBLESHOOTING

CAUTION: Never check for hydraulic leaks by feeling around hoses, fittings, or any other components. High pressrure oil can be injected through the skin causing severe injury, or death.

The hydraulic system of the 5005H power version is electrically operated and requires a minimum of 12V for satisfactory performance. Standard pump speed is 950 R.P.M. (Ref. Pump P/N 360029). This pump is for direct flange mounting only, not to be shaft driven.

PROBLEM	SOLUTION
FLOW PRESENT BUT FUNCTION WILL NOT WORK	Remove valve cover (P/N 360544, Item 15, Page 12) to gain access to the manual override on the end of the valve cartridge (Ref. AW-480184). If the pump is operating, and pushing the manual override in does not operate the selected function, check pump pressure. If the function does operate, check for loose wire, low voltage or bad ground. If the above items check out all right, replace valve cartridge. If the problem is traced to no voltage at the valve cartridge, remove pendant and with the switch engaged check for an open circuit with an ohmeter. If the circuit is open, check for broken wiring or bad switch.
HYDRAULIC "CHATTER"	When a hydraulic function is engaged and causes the crane to "chatter," check for loose wire, low voltage at valve cartridge, low pump pressure, or air in the system.
NO FLOW OR LIMITED FLOW TO CRANE	Check for adequate oil supply in reservoir. Check operation of vented relief valve by pressing manual over-ride on solenoid of relief valve while operating crane. If crane functions, check for 12V at solenoid when operating crane. If voltage present-check solenoid on relief for continuity and ground. If low flow condition continues to exist when relief valve vent manual over ride is operated, remove relief valve cartridge and check for dirt. Other possible causes for a low flow condition are: 1. Engine speed too slow. 2. Blocked pressure hose from pump. This condition can be identified by excessive lugging of engine and rapid overheating of oil. 3. Collapsed or blocked suction hose to pump. This condition is usually identified by pump cavitation noise. 4. Bad pumps - a bad pump will usually have some flow but the flow will drop off rapidly as pressure increases. This condition will cause orerheating of the system.

Prgressively disconnect fittings at test points to verify existence of flow. Rule: Pumps pump flow only; systems and their loads-resistances produce pressure, up to that limit imposed by lowest pressure limiting exposed to pressure.

NO PRESSURE OR TOO LOW PRESSURE	Check to maintain adequate oil in reservoir (approx. 8 gal.) by means of sight gauge. Make sure pressure gauge is functioning correctly. Possible relief hung open. Check for excessive leakage and correct. Check to insure that pressure limit switch is correctly set.

Progressively test circuit points to determine pressure existence.

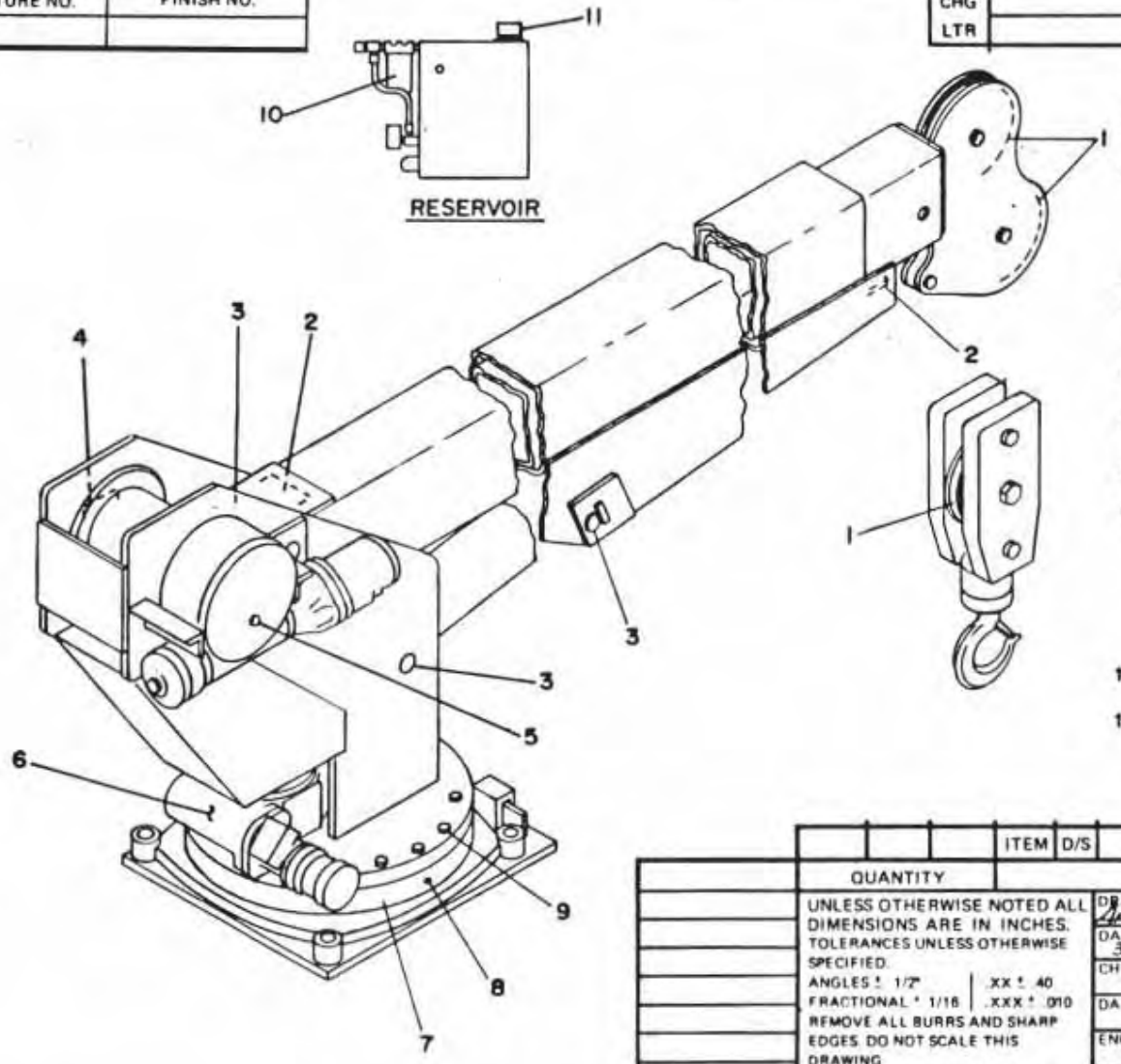
TOO HIGH FLOW	Make sure pump size is correct and pump speed is not too fast (950 R.P.M.). Check or replace flow control. Check components for flow displacements.
TOO HIGH PRESSURE	Make sure pressure relief valve is correctly set.

CAUTION

The Auto Crane 5005H Series cranes are manufactured with a standard overload protection system to prevent structrual damage to the crane. When the crane load rating is exceeded, main boom down, extend out, and hoist up will not function. These operations cannot be used again until the load on the crane is reduced. Also, the main boom elevation will be limited in its operation as the crane becomes overloaded. Attempting to raise the main boom with a load exceeding the crane rating will open the main relief valve resulting in no boom movement. This problem can be resolved by moving the load closer to the crane pedestal.

FIXTURE NO.	FINISH NO.

CHG LTR	REVISIONS DESCRIPTION	DATE	APP'D



1. SHEAVE ROLLER BEARINGS: SEALED TYPE. NO LUBE REQUIRED.
2. BOOM PADS: IF REPLACED, GREASE UPON INSTALLATION. USE CHASSIS LUBRICANT.
3. GREASE ZERK: PIVOT POINTS, LUBE ONCE A WEEK. USE MOBILPLEX EP-2 OR EQUIVALENT.
   (CYLINDER CROSSTUBE @ BOOM)
   (CYLINDER CROSSTUBE @ PEDESTAL)
   (BOOM PIVOT)
4. HOIST ROLLER BEARINGS: SEALED TYPE. NO LUBE REQUIRED.
5. HOIST ACTUATOR: MAINTAIN LUBE AT PLUG. USE EXTREME PRESSURE GEAR LUBE (E.P. 80-90). SPUR GEAR TO USE 30 WT. OIL. REPLACE LUBE EVERY SIX MONTHS.
6. ROTATION GEAR BOX: REQUIRES 1-3/4 PINT OF EPO-140. REPLACE EVERY SIX MONTHS.
7. RING GEAR: LUBE EVERY 3 MONTHS AT PINION. USE MOBILTAC LL OR EQUIVALENT.
8. RING GEAR RACE. LUBE EVERY 3 MONTHS AT ZERK. USE MOBILPLEX EP-2 OR EQUIVALENT.
9. BOLTS: RING GEAR - PEDESTAL BASE. REQUIRED TORQUE OF BOLTS IF REPLACED - (150 FT/LBS NON-PLATED, 110 FT/LBS PLATED). HARDENED WASHERS REQUIRED.
   NOTE: BOLTS SHOULD BE CHECKED PERIODICALLY AND RETIGHTENED TO PROPER TORQUE. THE POSSIBILITY EXISTS THAT DUE TO STRESSES APPLIED TO THE ROTATION SYSTEM, THE BOLTS COULD WORK LOOSE.
10. RESERVOIR FILTER: 10 MICRON SPIN ON FILTER REQUIRED. REPLACE EVERY 3 MONTHS.
11. HYDRAULIC FLUID: USE DTE-13 OR EQUAL TO KEEP LEVEL AT SIGHT GAUGE. RESERVOIR SHOULD BE FLUSHED AND NEW FLUID ADDED EVERY 2 YEARS OR IF A HYDRAULIC FAILURE OCCURS.

ITEM	D/S	PART NO.	DESCRIPTION
QUANTITY		LIST OF MATERIAL	

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS OTHERWISE SPECIFIED.
ANGLES ± 1/2° | .XX ± .40
FRACTIONAL ± 1/16 | .XXX ± .010
REMOVE ALL BURRS AND SHARP EDGES. DO NOT SCALE THIS DRAWING
TOLERANCES NOT SHOWN ABOVE ARE PER ANSI Y14.5 1973

DRAWN BY: [illegible] DATE: 3-14-85
CHK'D BY: DATE:
ENG. BY: DATE:

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NEXT ASS'Y

AUTO CRANE COMPANY

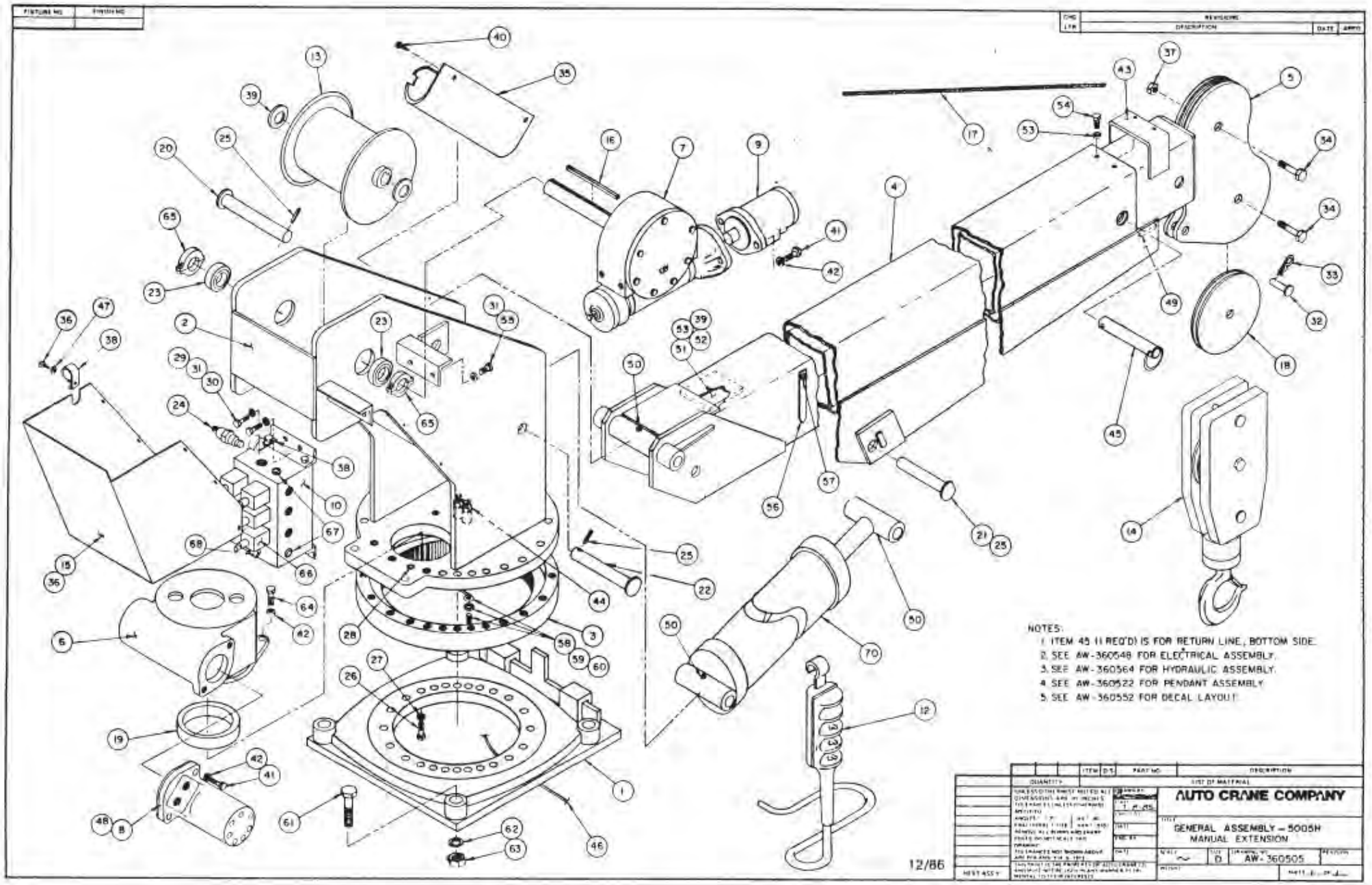
TITLE
LUBRICATION - MAINTENANCE
5005H

SCALE	SIZE	DRAWING NO.	REVISION
~	B	AW-024	

WEIGHT

SHEET 1 OF 1

RIDGWAYS 1000H

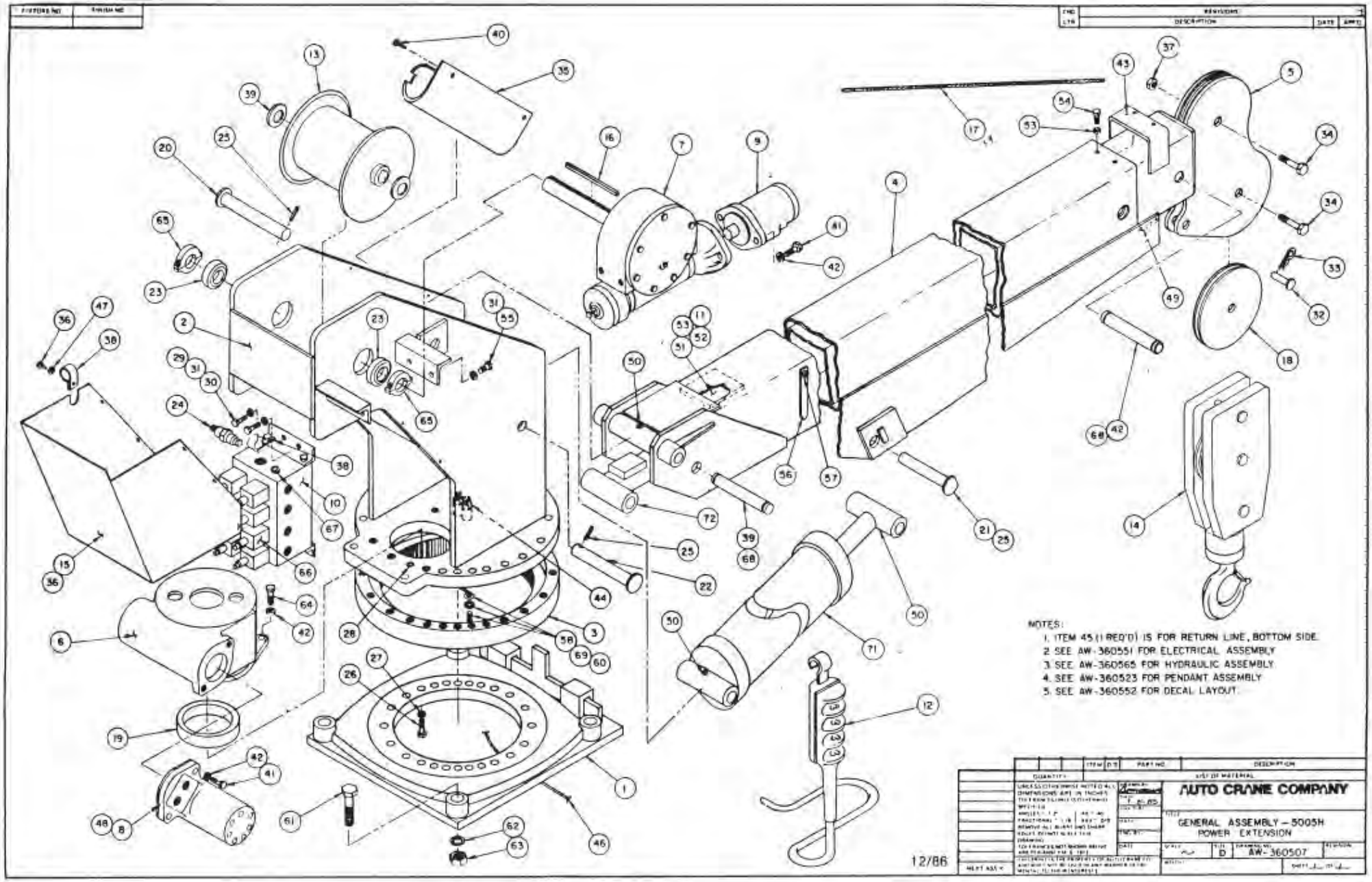

NOTES:
1. ITEM 45 (1 REQ'D) IS FOR RETURN LINE, BOTTOM SIDE.
2. SEE AW-360548 FOR ELECTRICAL ASSEMBLY.
3. SEE AW-360564 FOR HYDRAULIC ASSEMBLY.
4. SEE AW-360522 FOR PENDANT ASSEMBLY.
5. SEE AW-360552 FOR DECAL LAYOUT.
12/86
AUTO CRANE COMPANY
GENERAL ASSEMBLY – 5005H
MANUAL EXTENSION
AW-360505

GENERAL ASSEMBLY - 5005H - AW-360505 MANUAL EXTENSION

ITEM	QTY	PART NO	DESCRIPTION
1	1	360536	BASE PLATE ASSEMBLY
2	1	360530	PEDESTAL WELDMENT ASSEMBLY
3	1	360163	BEARING, ROTATION
4	1	360515	BOOM, LOWER
5	1	360525	BOOM, INNER
6	1	480028	GEAR BOX, ROTATION
7	1	360555	ACTUATOR, HOIST
8	1	480027	MOTOR, HYD. (ROTATION)
9	1	360199	MOTOR, HYD. (HOIST)
10	1	480182	MANIFOLD, CARTRIDGE
11	1	360552	DECAL LAYOUT
12	1	360522	PENDANT
13	1	360543	DRUM, HOIST
14	1	360602	BLOCK, TRAVELING
15	1	360544	COVER, VALVE
16	1	360557	KEY, 5/16 X 8-1/8" LG.
17	1	360155	CABLE, HOIST 5/16"
18	2	360205	SHEAVE ASSEMBLY
19	1	360162	RING, ECCENTRIC
20	1	360541	PIN, PEDESTAL/BOOM
21	1	360117	PIN, BOOM/CYLINDER
22	1	360539	PIN, PEDESTAL/CYLINDER
23	2	400500	BEARING
24	1	480183	CARTRIDGE, FLOW REGULATOR
25	3	360123	PIN, SPRING
26	38	012198	SCREW, HX. HD. 5/8 NC X 1-3/4 G8
27	38	023902	WASHER, FL. 5/8 HARDENED
28	4	006205	SCREW, SC. HD. 5/8 NC X 1-1/4 G8
29	4	008701	SCREW, HX.HD. 3/8 NC X 1" LG
30	4	017100	NUT, HX 3/8 NC CP
31	8	021100	WASHER, SPLK 3/8
32	1	360126	PIN, CROWN
33	1	360124	PIN, HITCH
34	2	013506	SCREW, HX. HD. 5/8 NF X 2-1/4 G5
35	1	634000	GUARD, PENDANT
36	6	002608	SCREW, 1/4-20 x 3/4 S.T. TYPE F
37	2	018300	NUT, HX-LK 5/8 NF
38	2	480024	MOUNT, PENDANT RETAINER
39	2	480033	SHIM. LARGE
40	2	002615	SCREW, 1/4-20 x 3/8 S.T. TYPE F
41	4	012197	SCREW, SC.HD. 1/2 NC X 1-1/2 G5
42	8	012500	WASHER, SPLK 1/2
43	1	360545	RETAINER, INNER BOOM
44	2	360054	ADAPTER, ST. 1/2 NPT / 3/4 JIC
45	1	360112	PIN, MANUAL BOOM
46	1	800657-009	CONDUCTOR, POWER
47	1	020901	WASHER, FL. 5/16
48	1	480019	GASKET, MOTOR
49	1	360167	PAD, RETAINER – LOWER
50	3	239000	ZERK, GREASE
51	1	480032	PAD, BOOM

GENERAL ASSEMBLY - 5005H - AW-360505 MANUAL EXTENSION

ITEM	QTY.	PART NO.	DESCRIPTION
52	4	005406	SCREW, HX.HD. 1/4 NF X 1/2" LG CP
53	6	020200	WASHER, SPLK 1/4
54	2	005901	SCREW, HX.HD. 1/4 NC X 1/2" LG
55	4	008601	SCREW, HX.HD. 3/8 NC X 7/8" LG G5
56	2	360038	INDICATOR, ANGLE
57	2	016300	NUT, HX-LK 1/4 NC
58	1	360207	RETAINER, ECCENTRIC RING
59	1	020600	WASHER, SPLK 5/16
60	1	007402	SCREW, HX.HD. 5/16 NC X 5/8" LG G5
61	4	015104	SCREW, HX. 7/8 NF X 5" G5
62	4	022200	LOCKWASHER, 7/8"
63	4	018900	NUT, HX. 7/8 NF
64	4	011608	SCREW, HX. HD. 1/2 NC X 2" G5
65	2	330468	COLLAR, SPLIT-LOCK
66	6	480184	VALVE, CARTRIDGE
67	3	000109	PLUG, PIPE 3/8-18
68	2	330072	PLUG, HX.HD. 7/8-14 "O"-RING
69	1	360031	KIT, SHIP LOOSE
70	1	360158	CYLINDER BOOM UP (COMPLETE)
	1	360158-001	CASE ASSEMBLY
	1	360158-002	SHAFT ASSEMBLY
	1	360158-003	HEAD GLAND
	1	360158-004	PISTON
	1	330604	SEAL KIT

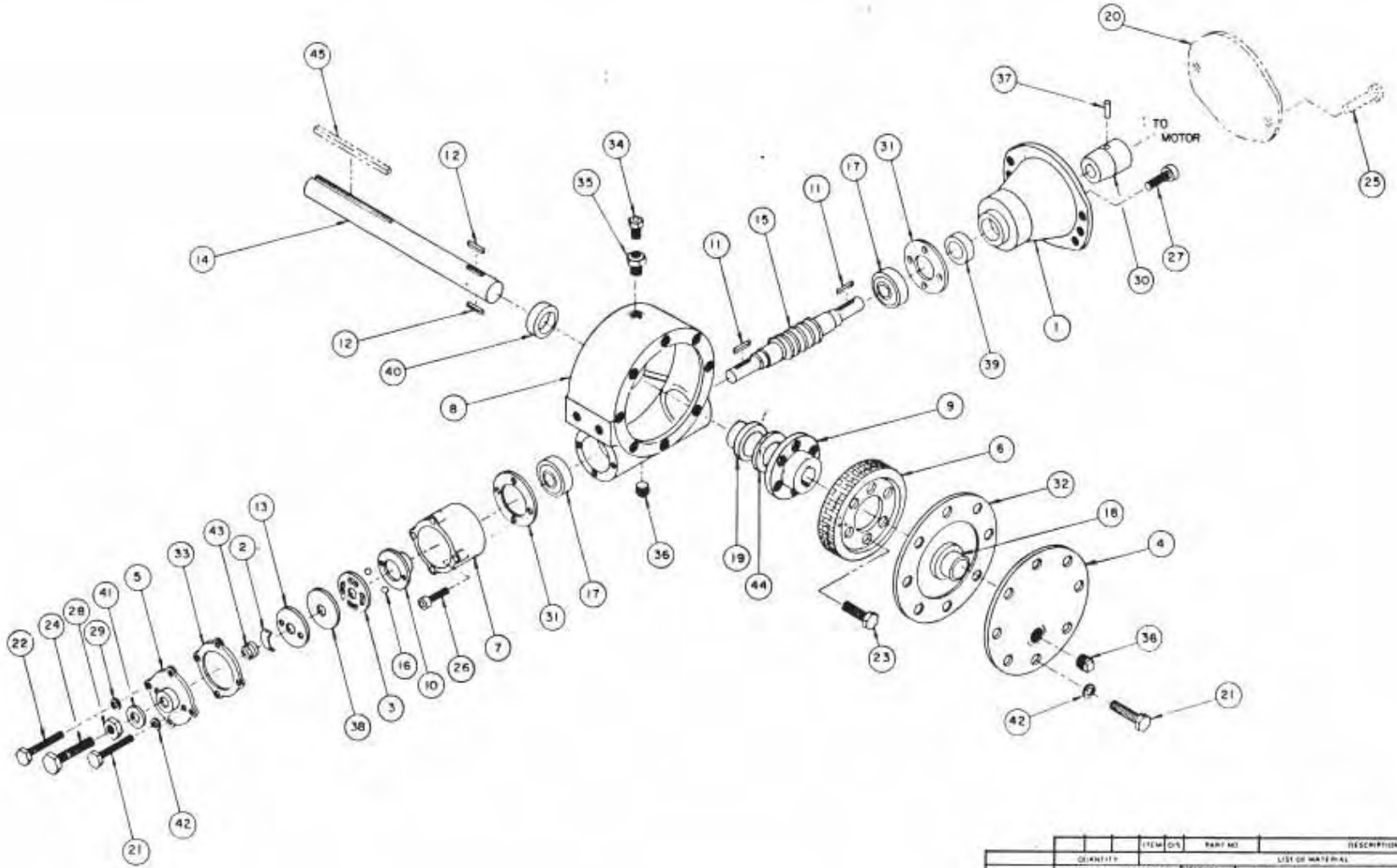

NOTES:
1. ITEM 45 (1 REQ'D) IS FOR RETURN LINE, BOTTOM SIDE.
2. SEE AW-360551 FOR ELECTRICAL ASSEMBLY
3. SEE AW-360565 FOR HYDRAULIC ASSEMBLY
4. SEE AW-360523 FOR PENDANT ASSEMBLY
5. SEE AW-360552 FOR DECAL LAYOUT.
AUTO CRANE COMPANY
GENERAL ASSEMBLY – 5005H
POWER EXTENSION
D
AW-360507
12/86

GENERAL ASSEMBLY - 5005H - AW-360507 POWER EXTENSION

ITEM	QTY.	PART NO.	DESCRIPTION
1	1	360536	BASE PLATE ASSEMBLY
2	1	360530	PEDESTAL WELDMENT ASSEMBLY
3	1	360163	BEARING, ROTATION
4	1	360515	BOOM, LOWER
5	1	360525	BOOM, INNER
6	1	480028	GEAR BOX, ROTATION
7	1	360555	ACTUATOR,HOIST
8	1	480027	MOTOR, HYD. (ROTATION)
9	1	360199	MOTOR, HYD.(HOIST)
10	1	480182	MANIFOLD, CARTRIDGE
11	2	480033	SHIM, LARGE
12	1	360523	PENDANT
13	1	360543	DRUM, HOIST
14	1	360602	BLOCK, TRAVELING
15	1	360544	COVER, VALVE
16	1	360557	KEY, 5/16 X 8-1/8"LG.
17	1	360155	CABLE, HOIST 5/16"
18	2	360205	SHEAVE ASSEMBLY
19	1	360162	RING, ECCENTRIC
20	1	360541	PIN, PEDESTAL/BOOM
21	1	360117	PIN, BOOM/CYLINDER
22	1	360539	PIN. PEDESTAL/CYLINDER
23	2	400500	BEARING
24	1	480183	CARTRIDGE, FLOW REGULATOR
25	3	360123	PIN, SPRING
26	38	012198	SCREW, HX.HD. 5/8 NC X 1-3/4 G8
27	38	023902	WASHER, FL. 5/8 HARDENED
28	4	006205	SCREW, SC.HD. 5/8 NC X 1-1/4 G8
29	4	008701	SCREW,HX.HD. 3/8 NC X 1"LG
30	4	017100	NUT, HX. 3/8 NC CP
31	8	021100	WASHER, SPLK 3/8
32	1	360126	PIN, CROWN
33	1	360124	PIN, HITCH
34	2	013506	SCREW, HX.HD. 5/8 NF X 2-1/4 G5
35	1	634000	GUARD, PENDANT
36	6	002608	SCREW, 1/4-20 X 3/4 S.T. TYPE F
37	2	018300	NUT, HX-LK 5/8 NF
38	2	480024	MOUNT, PENDANT RETAINER
39	1	360120	PIN, EXT. CYL. LOWER
40	2	002615	SCREW, 1/4-20 X 3/8 S.T. TYPE F
41	4	012197	SCREW, SC.HD. 1/2 NC X 1-1/2 G5
42	8	012500	WASHER, SPLK 1/2
43	1	360545	RETAINER, INNER BOOM
44	2	360054	ADAPTER, ST. 1/2 NPT / 3/4 JIC
45	1	360121	PIN, EXT. CYL. UPPER BOOM
46	1	800657-009	CONDUCTOR, POWER
47	1	020901	WASHER, FL. 5/16
48	1	480019	GASKET, MOTOR
49	1	360167	PAD, RETAINER – LOWER
50	3	239000	ZERK, GREASE
51	1	480032	PAD, BOOM

GENERAL ASSEMBLY - 5005H - AW-360507 POWER EXTENSION

ITEM	QTY.	PART NO.	DESCRIPTION
52	4	005406	SCREW, HX.HD. 1/4 NF X 1/2" LG CP
53	6	020200	WASHER,SPLK 1/4
54	2	005901	SCREW, HX.HD. 1/4 NC X 1/2" LG
55	4	008601	SCREW, HX.HD. 3/8 NC X 7/8" LG G5
56	2	360038	INDICATOR, ANGLE
57	2	016300	NUT, HX-LK 1/4 NC
58	1	360207	RETAINER, ECCENTRIC RING
59	1	020600	WASHER, SPLK 5/16
60	1	007402	SCREW, HX.HD' 5/16 NC X 5/8" LG G5
61	4	015104	SCREW, HX. 7/8 NF X 5" G5
62	4	022200	LOCKWASHER, 7/8"
63	4	018900	NUT, HX. 7/8 NF
64	4	011608	SCREW, HX.HD. 1/2 NC X 2" G5
65	2	330468	COLLAR, SPLIT-LOCK
66	8	480184	VALVE, CARTRIDGE
67	1	000109	PLUG, PIPE 3/8-18
68	4	360122	RING, RETAINING
69	1	360031	KIT, SHIP LOOSE
70	1	360552	DECAL LAYOUT
71	1	360158	CYLINDER, BOOM UP (COMPLETE)
	1	360158-001	CASE ASSEMBLY
	1	360158-002	SHAFT ASSEMBLY
	1	360158-003	HEAD GLAND
	1	360158-004	PISTON
	1	330604	SEAL KIT
72	1	360152	CYLINDER, BOOM EXT. (COMPLETE)
	1	360152-001	CASE ASSEMBLY
	1	360152-002	SHAFT ASSEMBLY
	1	360152-003	HEAD GLAND
	1	360152-004	PISTON
	1	330603	SEAL KIT



ITEM	QTY	PART NO	DESCRIPTION

LIST OF MATERIAL

AUTO CRANE COMPANY

ACTUATOR, HOIST - 5005H

AW-360555

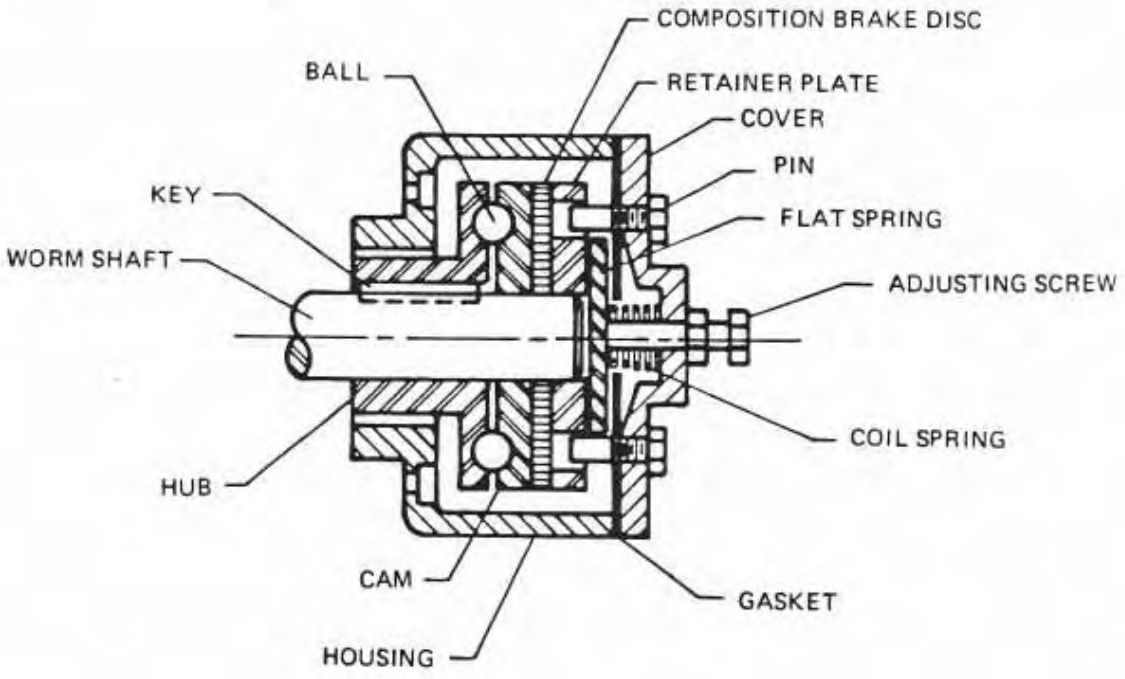
12/86

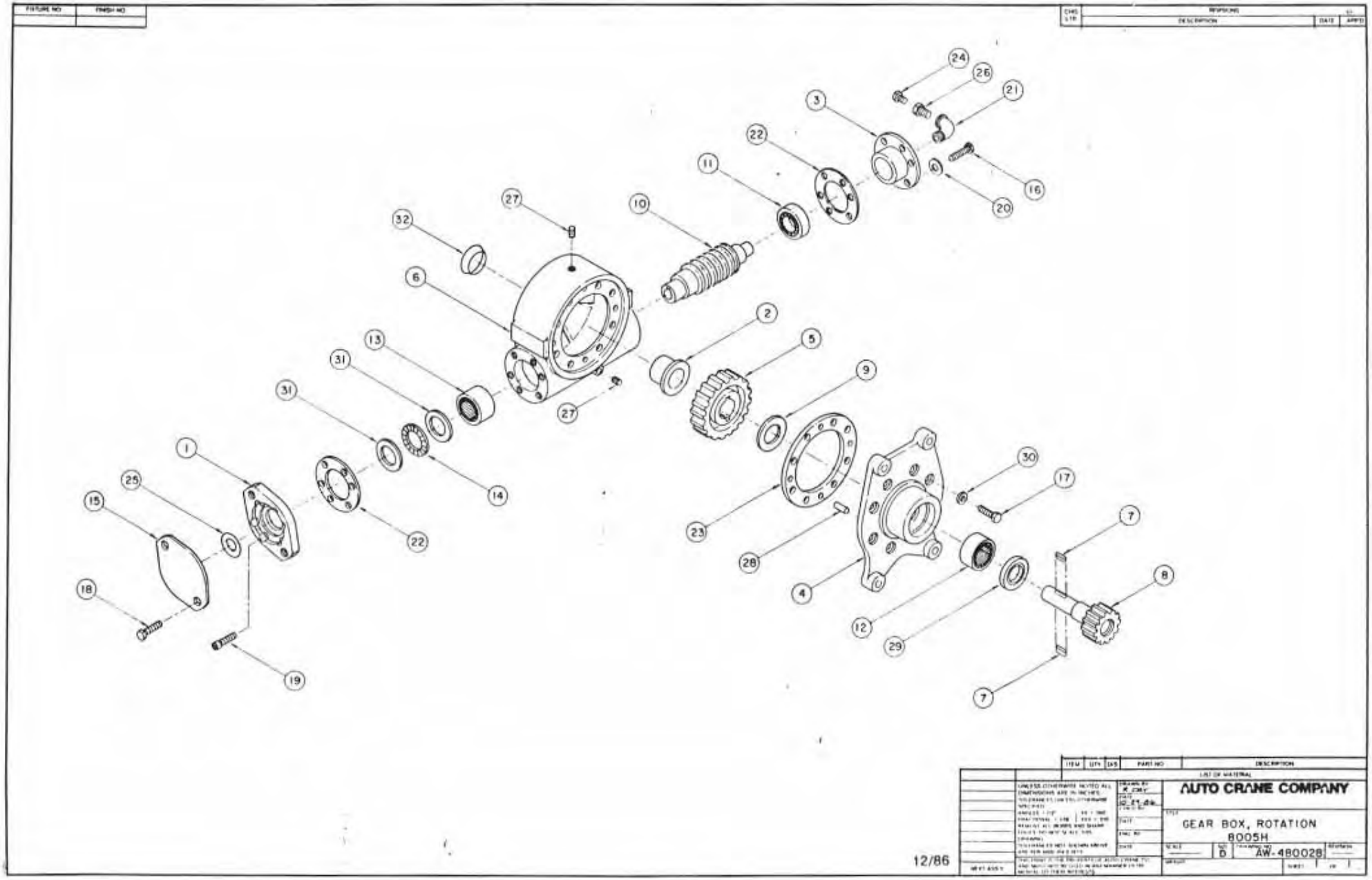
ACTUATOR, HOIST - 5005H - AW-360555

ITEM	QTY	PART NO.	DESCRIPTION
1	1	360330	ADAPTER
2	1	360367	SPRING FLAT
3	1	360331	CAM PLATE
4	1	360333	COVER
5	1	360334	COVER-WORM BRAKE
6	1	360335	GEAR-R.H.
7	1	360336	HOUSING-BRAKE
8	1	360337	HOUSING-GEAR
9	1	360338	HUB-GEAR
10	1	360339	HUB-BRAKE
11	2	360341	KEY
12	2	360340	KEY
13	1	360342	PLATE RETAINER
14	1	360356	SHAFT-OUTPUT
15	1	360344	WORM-R.H.
16	2	360345	BALL-BRAKE
17	2	360346	BEARING
18	1	360347	BUSHING
19	1	360348	BUSHING
20	1	360349	COVER-HYD. ADAPTER
21	10	360350	CAPSCREW, 1/4-20NC x 3/4 LG. HX.HD. GR5
22	4	005604	CAPSCREW, 1/4-20NC x 1 LG. HX.HD. GR5
23	6	007807	CAPSCREW, 5/16-18NC x 3/4 LG. HX.HD. GR.8
24	1	360351	CAPSCREW, 3/8-16NC x 1-1/2 LG. HX.HD. ALL THRD.
25	2	(REF) 010202	CAPSCREW, 1/2-13NC x 1 LG. HX.HD. (FOR SHIPPING)
26	4	005610	CAPSCREW, 1/4-20NC x 1 LG. SOC. BUTTON HD.
27	4	360352	CAPSCREW, 1/4NC-20 x 1-3/4 LG. SOC. HD. LOC-WEL
28	1	360353	NUT 3/8-16NC HX. JAM
29	4	360354	LOCKWASHER 1/4 MED. SECT. C.P.
30	1	360332	COUPLING
31	2	360358	GASKET
32	1	360357	GASKET
33	1	360359	GASKET
34	1	360360	FITTING-RELIEF
35	1	360361	REDUCER
36	2	360362	PIPE PLUG
37	1	360363	SPIROL PIN
38	1	360364	PLATE-THRUST
39	1	360365	OIL SEAL
40	1	360366	OIL SEAL
41	1	360371	SEAL
42	3	360370	SEAL
43	1	360368	SPRING
44	1	360369	THRUST WASHER
45	1	360557	KEY 5/16" (REF. FOR DRUM)
46	1	480289	SEAL AND GASKET KIT

AUTOMATIC SAFETY BRAKE ASSEMBLY (OIL COOLED)
HOIST

1. Winch has right hand worm and gear and spools over drum; use number one slots for brake balls.
2. Install brake hub on winch worm with key.
3. Assemble balls in cam using hard grease to hold balls in place.
4. Install cam and balls, fitting balls in slots on hub.
5. Install brake disc.
6. Install retainer.
7. Install flat spring in brake housing cover (arch down).
8. Install brake housing cover, fitting pins in slots on spring and holes in retainer.
9. Test brake by shifting winch to UP then DOWN to see if brake is working in proper rotation. If not, remove brake and locate brake balls in opposite set of slots.
10. Adjust to suit by tightening or loosening screw on outside of cover. When proper adjustment is obtained, secure screw with jam nut.

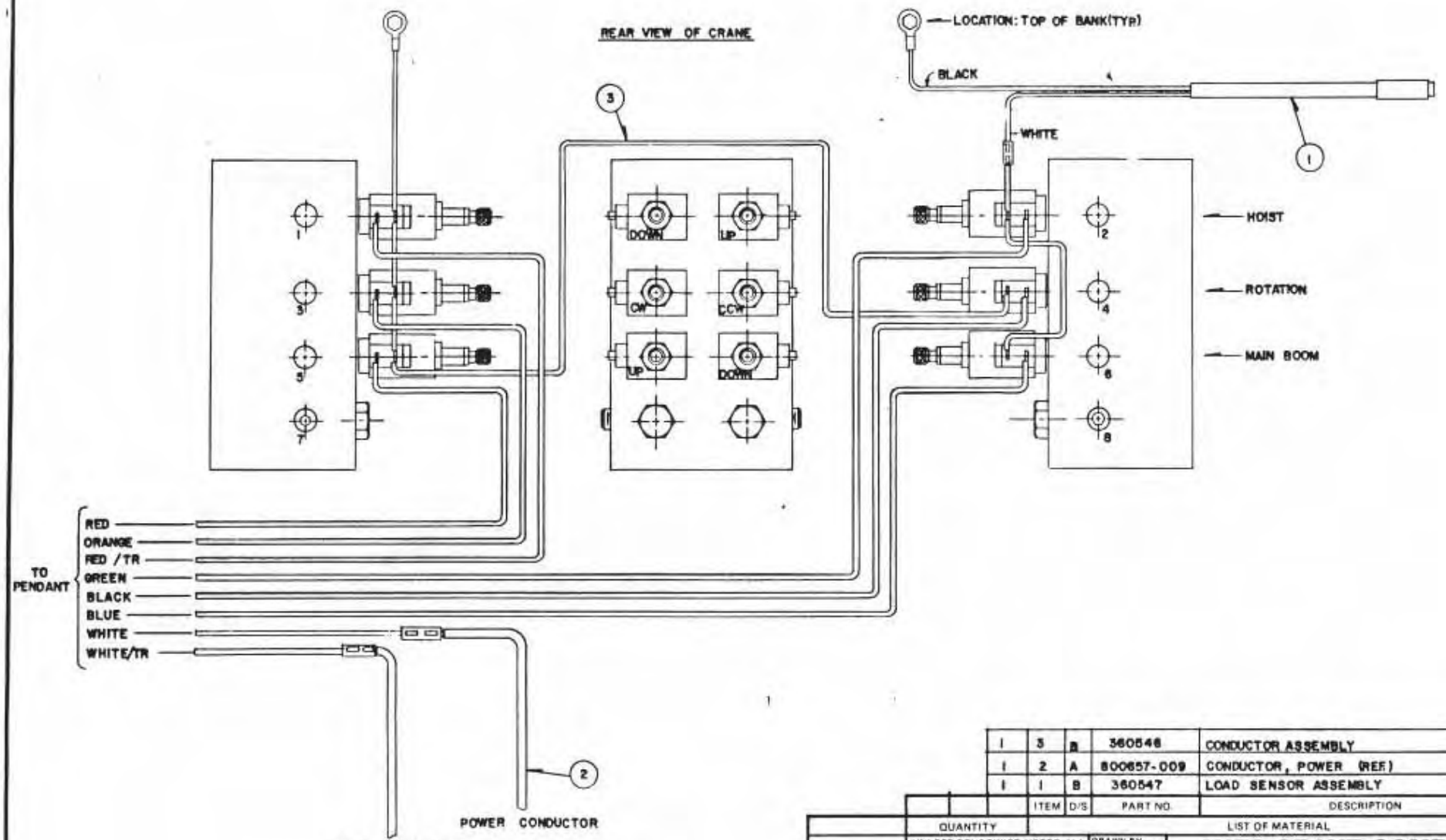



FIXTURE NO
FINISH NO
REVISIONS
DESCRIPTION
DATE
APPD
12/86
ITEM
QTY
DASH
PART NO
DESCRIPTION
LIST OF MATERIAL
AUTO CRANE COMPANY
GEAR BOX, ROTATION
8005H
SIZE
DWG NO
REVISION
B
AW-480028
SHEET

GEAR BOX, ROTATION - 5005H - AW-480028

ITEM	QTY.	PART NO.	DESCRIPTION
1	1	480240	ADAPTER
2	1	480241	BUSHING
3	1	480242	CAP-BEARING
4	1	480243	COVER
5	1	480244	GEAR-R.H.
6	1	480245	HOUSING-GEAR
7	2	480246	KEY
8	1	480247	SHAFT-OUTPUT
9	1	480248	WASHER-THRUST
10	1	480249	WORM-R.H.
11	1	480251	BEARING, BALL
12	1	480252	BEARING-NEEDLE
13	1	480253	BEARING-NEEDLE
14	1	480254	BEARING-THRUST
15	1	480255	COVER
16	6	007400	CAPSCREW 5/16-18NC x 1" LG. HX.HD.
17	8	007804	CAPSCREW, 5/16-18NC x 1-1/4" LG. HX.HD. G5
18	2	011508	CAPSCREW 1/2-13NC x 3/4LG. HX.HD.
19	6	480256	CAPSCREW 5/16-18NC x 1" LG. SOC. HD. LOC-WEL
20	6	480258	LOCKWASHER 5/16 MED. SECT. C.P.
21	1	480259	ELBOW - 90° DEG.
22	2	480260	GASKET
23	1	480250	GASKET
24	1	480262	FITTING-RELIEF
25	1	480239	O-RING
26	1	480263	REDUCER
27	2	480264	PLUG-PIPE
28	4	480265	PIN-DOWEL
29	1	480266	SEAL-OIL
30	8	480267	SEAL-WASHER
31	2	480268	WASHER-THRUST
32	1	480269	PLUG-EXPANSION
33	1	480288	SEAL AND GASKET KIT

CHG LTR	REVISIONS DESCRIPTION	DATE	APP'D



ITEM	D/S	PART NO.	DESCRIPTION
1	3	B	360546	CONDUCTOR ASSEMBLY
1	2	A	800657-009	CONDUCTOR, POWER (REF.)
1	1	B	360547	LOAD SENSOR ASSEMBLY

QUANTITY — LIST OF MATERIAL

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS OTHERWISE SPECIFIED: ANGLES ± 1/2° | .XX ± .40 | FRACTIONAL ± 1/16 | .XXX ± .010. REMOVE ALL BURRS AND SHARP EDGES. DO NOT SCALE THIS DRAWING. TOLERANCES NOT SHOWN ABOVE ARE PER ANSI Y14.5 1973

THIS PRINT IS THE PROPERTY OF AUTO CRANE CO AND MUST NOT BE USED IN ANY MANNER DETRIMENTAL TO THEIR INTERESTS

DRAWN BY: [illegible] DATE: 7-9-86 | CHK'D BY | DATE | ENG. BY | DATE

NEXT ASS'Y

AUTO CRANE COMPANY

TITLE: ELECTICAL ASSEMBLY - 5005H MANUAL EXTENSION

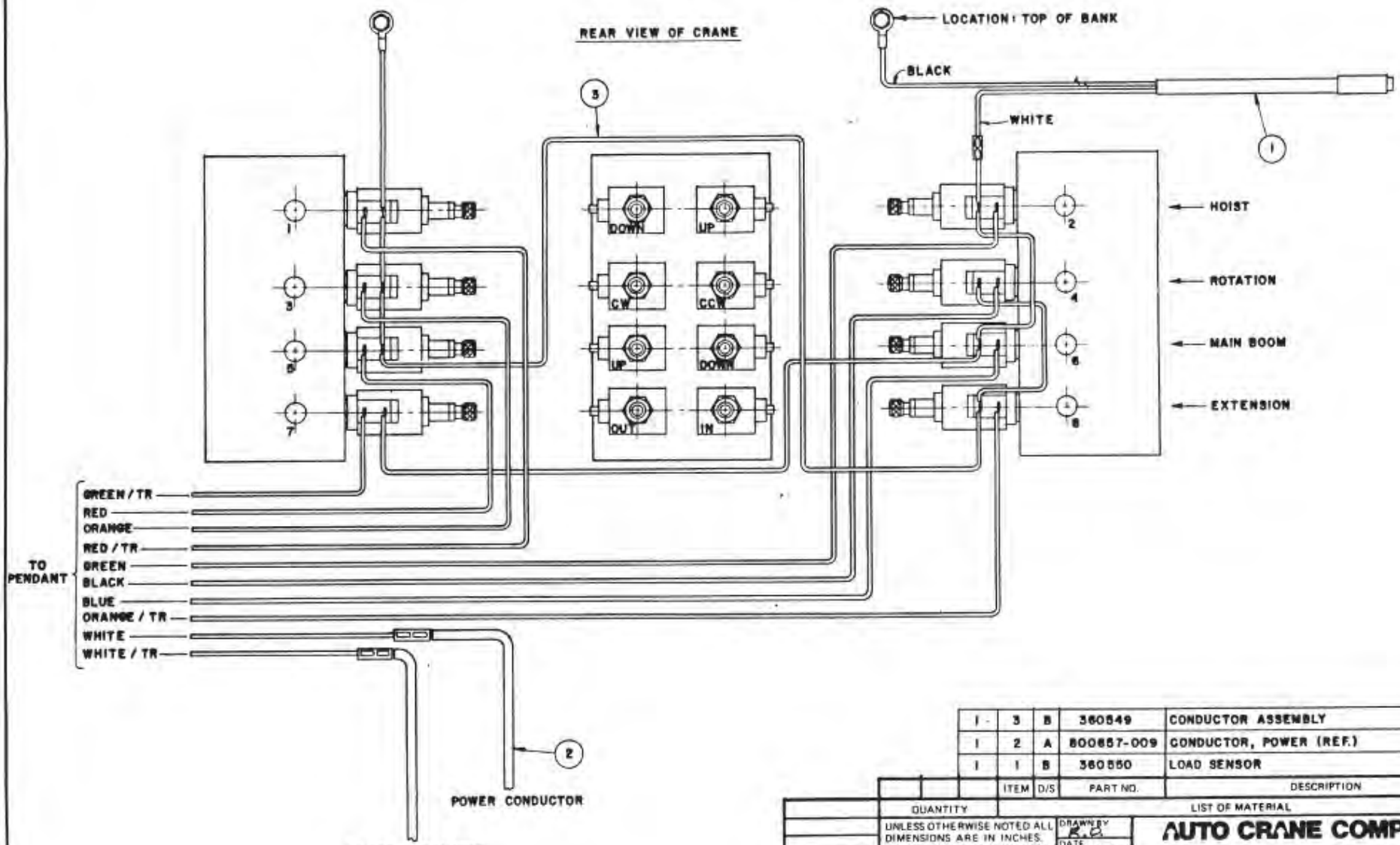
SCALE: — | SIZE: C | DRAWING NO: AW-360548 | REVISION: —

WEIGHT | SHEET 1 OF 1

12/86

FIXTURE NO.	FINISH NO.

CHG LTR	REVISIONS DESCRIPTION	DATE	APP'D



QUANTITY	ITEM	D/S	PART NO.	DESCRIPTION
1	3	B	360549	CONDUCTOR ASSEMBLY
1	2	A	800657-009	CONDUCTOR, POWER (REF.)
1	1	B	360550	LOAD SENSOR

LIST OF MATERIAL

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS OTHERWISE SPECIFIED: ANGLES ± 1/2° | XX ± .40 | FRACTIONAL ± 1/16 | .XXX ± .010 | REMOVE ALL BURRS AND SHARP EDGES. DO NOT SCALE THIS DRAWING. TOLERANCES NOT SHOWN ABOVE ARE PER ANSI Y14.5 - 1973.

DRAWN BY: R.B. DATE: 7/10/86 | CHK'D BY | DATE | ENG. BY | DATE

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NEXT ASS'Y

AUTO CRANE COMPANY

TITLE: ELECTRICAL ASSEMBLY - 5005H POWER EXTENSION

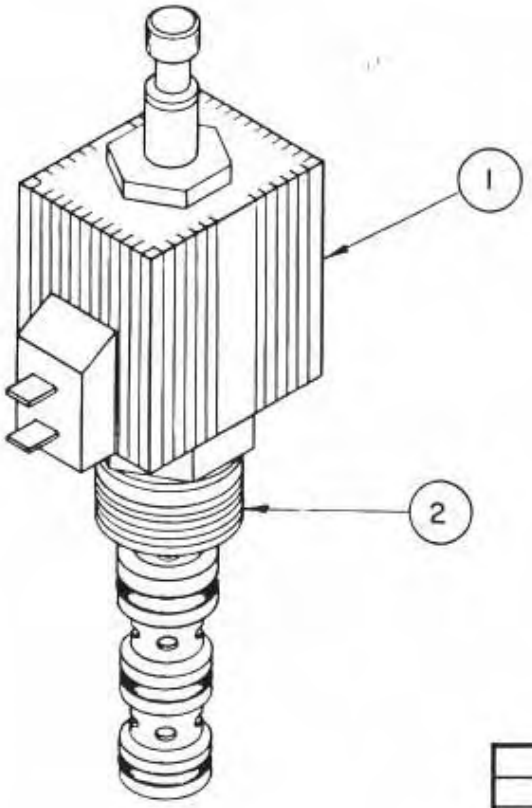
SCALE	SIZE	DRAWING NO.	REVISION
2	C	AW-360551	2

WEIGHT | SHEET 1 OF 1

12/86

FIXTURE NO.	FINISH NO.

CHG LTR	REVISIONS DESCRIPTION	DATE	APP'D



NOTE:
FOR SEAL KIT, ORDER PART NO. 480184-001

ITEM	QTY	D/S	PART NO.	DESCRIPTION
2	1	-	480186	SPOOL ASSEMBLY
1	1	-	480185	COIL, CARTRIDGE

QUANTITY — LIST OF MATERIAL

NEXT ASS'Y

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES UNLESS OTHERWISE SPECIFIED
ANGLES ± 1/2° | XX ± .40
FRACTIONAL ± 1/16 | .XXX ± .010
REMOVE ALL BURRS AND SHARP EDGES. DO NOT SCALE THIS DRAWING.
TOLERANCES NOT SHOWN ABOVE ARE PER ANSI Y14.5 1973

DRAWN BY: [illegible] DATE: 9.20.84
CHK'D BY: DATE:
ENG. BY: DATE:

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AUTO CRANE COMPANY

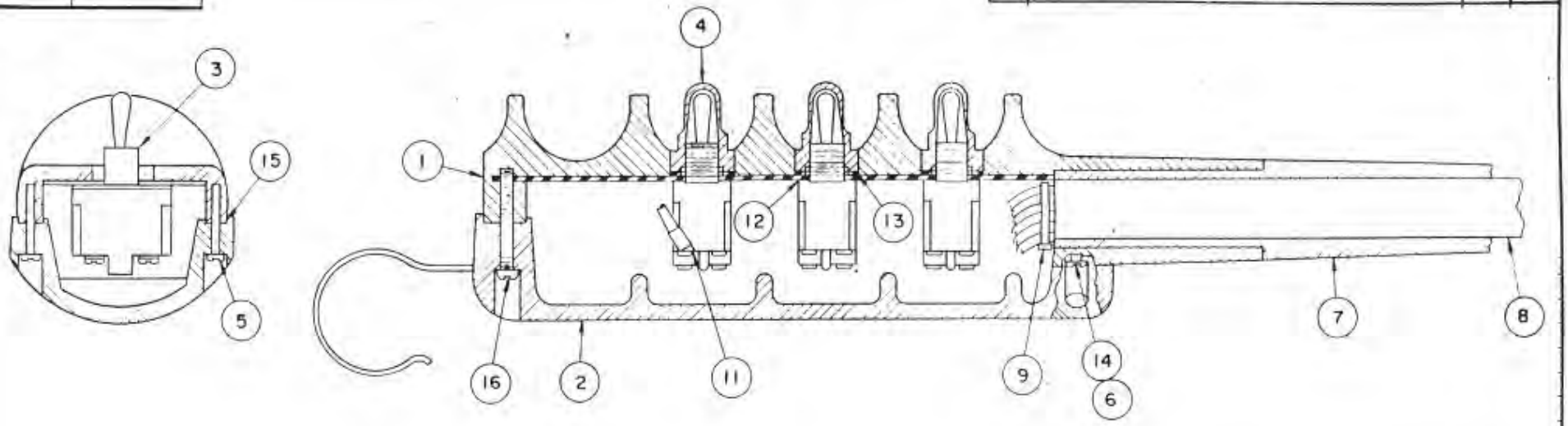
TITLE: VALVE CARTRIDGE

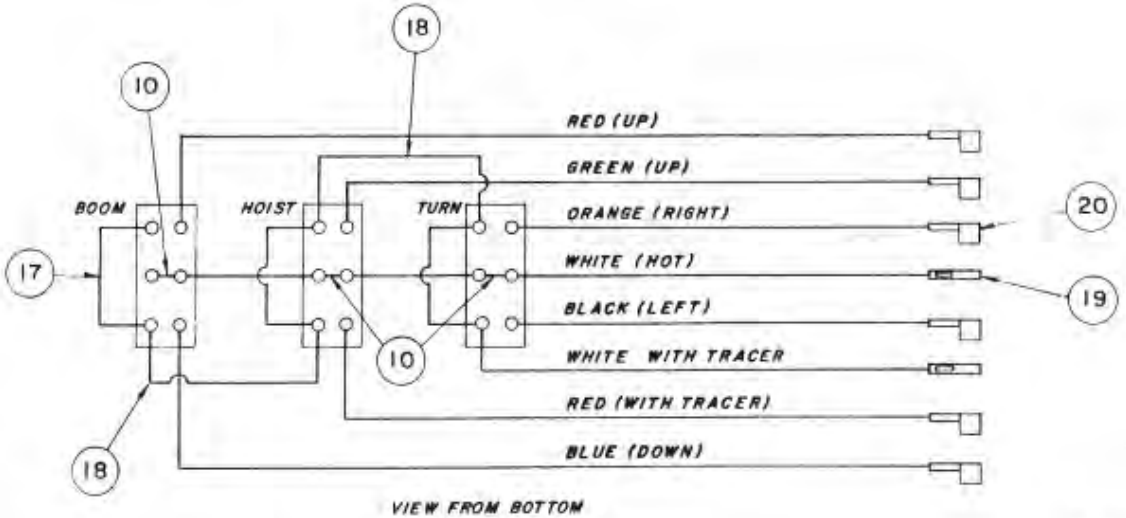
SCALE	SIZE	DRAWING NO.	REVISION
~	B	AW-480184	

WEIGHT | SHEET 1 OF 1

FIXTURE NO.	FINISH NO.

CHG LTR	REVISIONS DESCRIPTION	DATE	APP'D





VIEW FROM BOTTOM

ITEM	QTY	PART NO	DESCRIPTION
20	6	000405	TERMINAL, FLAG (REF.) *
19	2	001102	SPLICE, BUTT (REF.) *
18	2	622346-002	CONDUCTOR ASS'Y 3 3/8" LG.
17	3	622346-001	CONDUCTOR ASS'Y 2 1/8" LG.
16	1	004700	SCREW, SLT. PAN HD. S.T.#8X1 1/2"
15	21"	800580	3/4" WIDTH OKONITE RUBBER TAPE
14	4	019700	WASHER, SPLIT LOCK#8 PLATED
13	3	642100	O-RING
12	3	675271	NUT
11	22	000101	TERMINALS T&B
10	3	636600	JUMPER
9	2	634401	TY-RAP CABLE TIE
8	1	360281	CONDUCTOR CABLE (23') *
7	1	633801	CABLE ADAPTER
6	2	005101	SCREW, S.T.- SLT. PAN HD.#8X1 1/4
5	10	005001	SCREW, S.T.- SLT. PAN HD.#8X 3/4
4	3	640302	BOOT, TOGGLE SWITCH
3	3	634200	TOGGLE SWITCH
2	1	631700	BOTTOM COVER
1	1	631602	PENDANT HOUSING

* NOTE:
WHEN ORDERING ITEM 8 (P/N 360081)
ITEMS 19 AND 20 ARE INCLUDED.

12/86

QUANTITY — LIST OF MATERIAL

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED
ANGLES ± 1/2° | XX ± .01
FRACTIONAL ± 1/16 | XXX ± .005
REMOVE ALL BURRS AND SHARP EDGES BEFORE SCALE 100%
DRAWING TOLERANCES NOT SHOWN ABOVE ARE PER ANSI Y14.5 1973

DRAWN BY L.E.D. DATE 7-1-86
CHECKED BY DATE
ENG. BY DATE

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NEXT ASS'Y

AUTO CRANE COMPANY

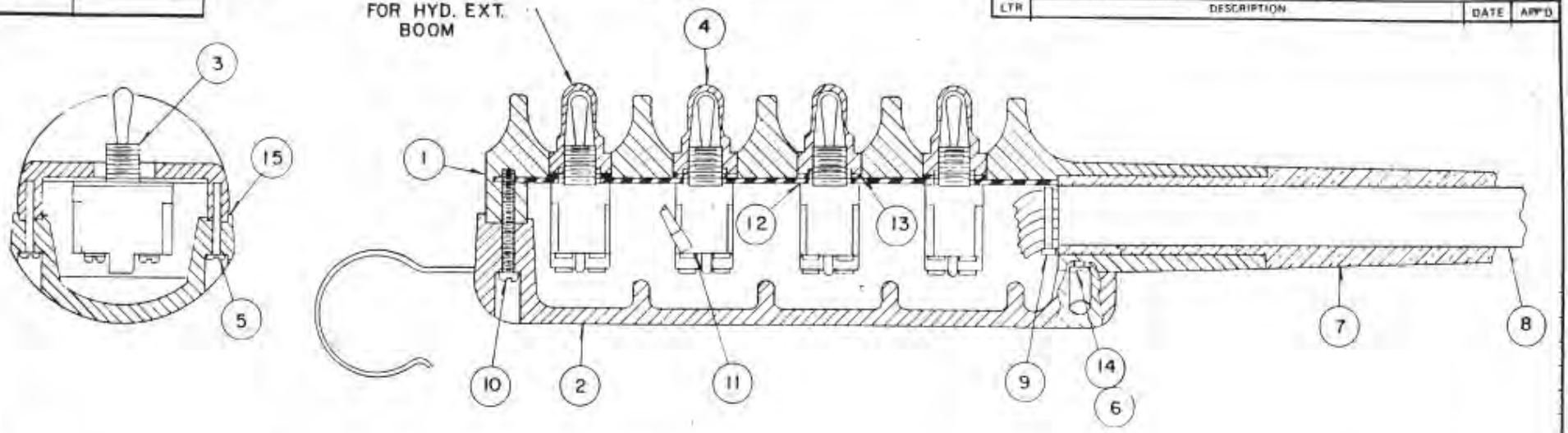
TITLE
PENDANT ASSEMBLY 3-FUNCTION
5005H

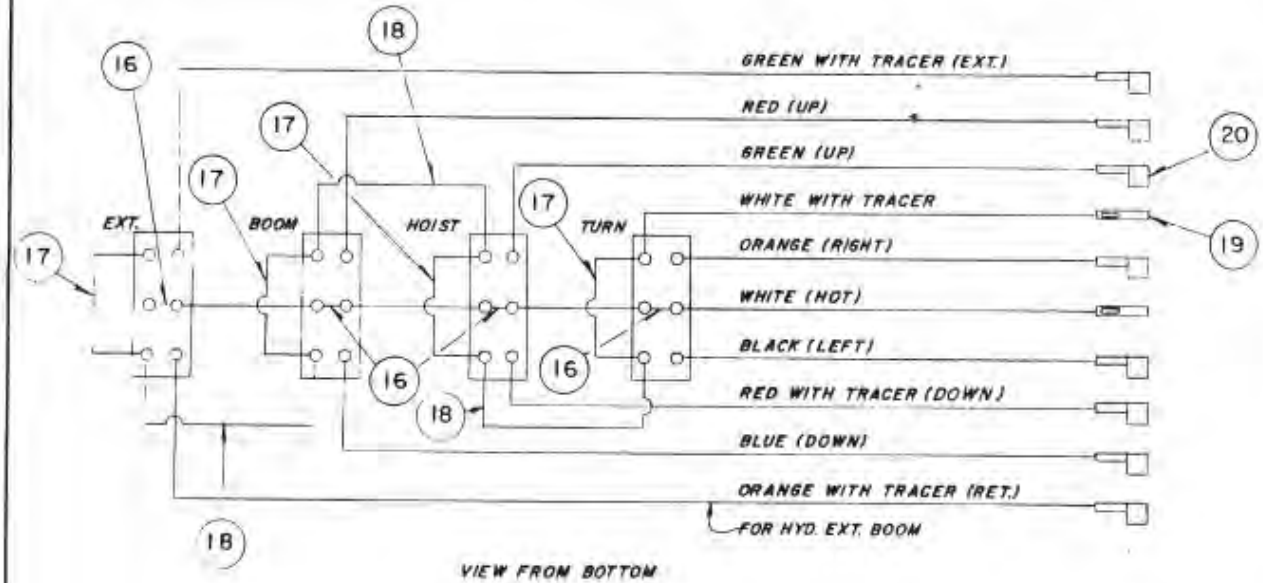
SCALE — SIZE C — DRAWING NO. AW-360522 — REVISION —

WEIGHT — SHEET 1 OF 1

FIXTURE NO	FINISH NO

CHG LTR	REVISIONS DESCRIPTION	DATE	APP'D





VIEW FROM BOTTOM

ITEM	QTY	PART NO	DESCRIPTION
20	8	000405	TERMINAL, FLAG (REF.)*
19	2	001102	SPLICE, BUTT (REF.) *
18	3	622347	CONDUCTOR ASS'Y 3 1/8" LG.
17	4	622346	CONDUCTOR ASS'Y 2 1/8" LG.
16	4	636600	JUMPER
15	21"	800580	3/4" WIDTH OKONITE RUBBER TAPE
14	4	019700	WASHER, SPLIT LOCK#8 PLATED
13	4	642100	O-RING
12	4	675271	NUT
11	10	000101	TERMINALS T&B
10	1	004700	SCREW, SLT. PAN HD. ST. #8X1 1/2
9	2	634401	TY-RAP CABLE TIE
8	1	360280	CONDUCTOR CABLE (23') *
7	1	633801	CABLE ADAPTER
6	2	005101	SCREW, S.T.-SLT. PAN HD. #8X1 1/4
5	10	005001	SCREW, S.T.-SLT. PAN HD. #8X 3/4
4	4	640302	BOOT, TOGGLE SWITCH
3	4	634200	TOGGLE SWITCH
2	1	631700	BOTTOM COVER
1	1	631601	PENDANT HOUSING

* NOTE:
WHEN ORDERING ITEM 8 (P/N 360280)
ITEMS 19 AND 20 ARE INCLUDED.

QUANTITY — LIST OF MATERIAL

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED
ANGULAR ±2°
FRACTIONAL ±1/16
REMOVE ALL BURRS AND SHARP EDGES
DO NOT SCALE THIS DRAWING
TOLERANCES ARE SHOWN ABOVE ARE PLEASE VERIFY
THIS PRINT IS THE PROPERTY OF AUTO CRANE CO. AND IS NOT TO BE USED IN ANY MANNER DETRIMENTAL TO THE INTERESTS OF

DRAWN BY: [illegible]
DATE: 7-9-86
CHECKED BY:
DATE:
ENG. BY:
DATE:

NEXT ASS'Y

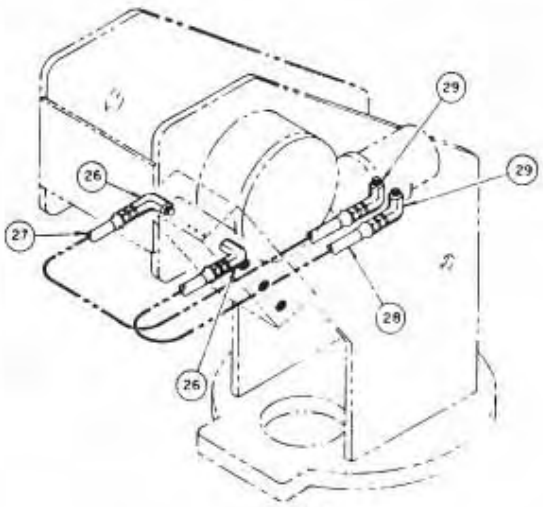
AUTO CRANE COMPANY

TITLE: PENDANT ASSEMBLY 4-FUNCTION 5005H

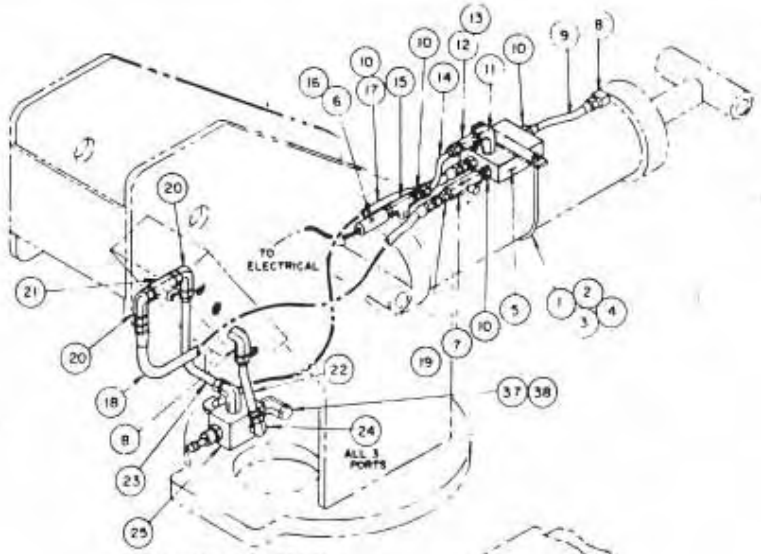
SCALE: 4 | SIZE: C | DRAWING NO: AW-360523 | REVISION: A

WEIGHT | SHEET 1 OF 1

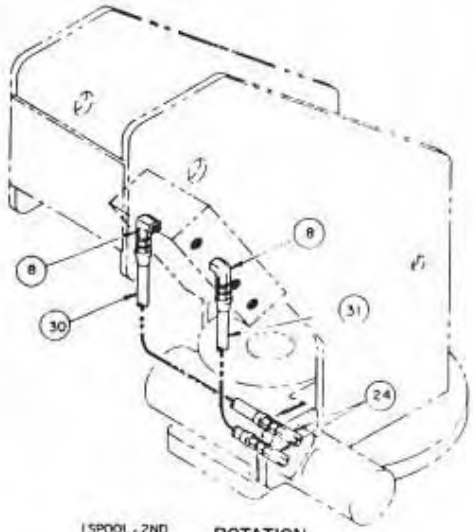
12/86



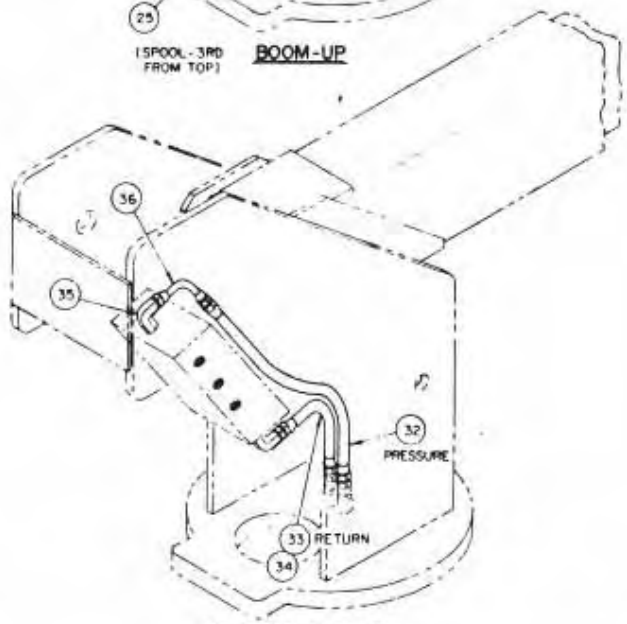
HOIST
(SPOOL - TOP)



(SPOOL - 3RD FROM TOP) BOOM-UP



(SPOOL - 2ND FROM TOP) ROTATION



PRESSURE - RETURN

12/86

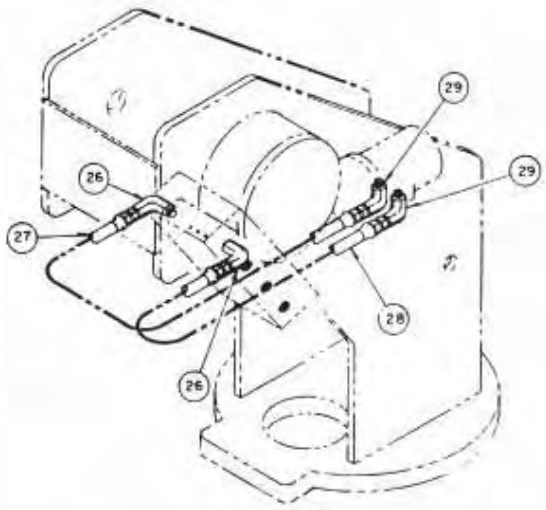
AUTO CRANE COMPANY

HYDRAULIC ASSEMBLY - 5005H
MANUAL EXTENSION

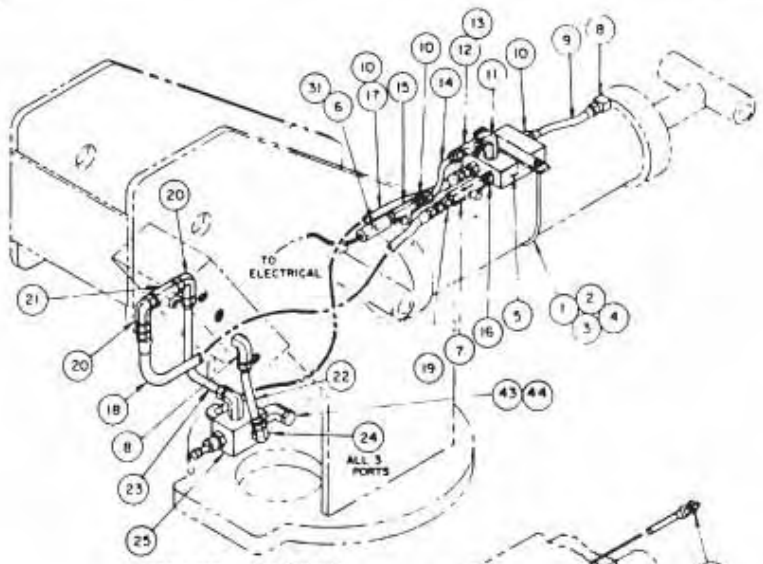
D AW-360564

HYDRAULIC ASSEMBLY - MANUAL EXTENSION - 5005H - AW-360564

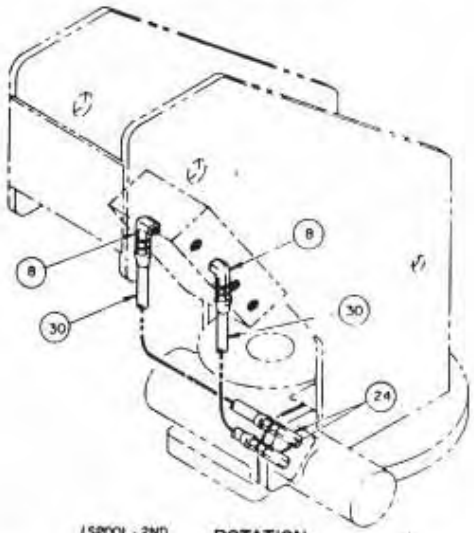
ITEM	QTY.	PART NO.	DESCRIPTION
1	1	360581	U-BOLT
2	1	360582	CLAMP
3	2	020200	LOCKWASHER 1/4
4	2	015900	NUT, HX.1/4 NC
5	1	360568	VALVE, COUNTERBALANCE
6	1	360567	LOAD SENSOR SWITCH
7	1	330582	FLOW REGULATOR
8	4	200892	ELL, 90° 3/8 P.M. / 9/16-18 JIC
9	1	360098	HOSE ASSEMBLY (8-1/2")
10	3	360042	ADAPTER, 3/8 P.M. / 9/16-18 JIC
11	1	360047	ELL, 90° 3/8 P.M. / 1/4 P.F.
12	1	360574	TEE, BRANCH 9/16 JIC / 1/4 EXT / 1/4 INT
13	2	000209	PLUG, PIPE 1/4-18
14	1	360575	TUBE ASSEMBLY
15	1	360053	TEE, 3/8 P.M. / 3/8 P.F.
16	1	360576	ADAPTER, 3/8 P.M. / 1/4 P.M.
17	1	360573	HOSE ASSEMBLY (23")
18	1	360572	HOSE ASSEMBLY (27")
19	1	360041	ADAPTER, 1/4 P.M. / 9/16-18 JIC
20	2	480194	ELL, 90° SWIVEL 9/16-18 JIC
21	1	360577	TEE, 3/8 P.M. / 9/16-18 JIC RUN
22	1	360571	TUBE ASSEMBLY
23	1	360570	TUBE ASSEMBLY
24	5	202759	ELL, 90° 1/2 P.M. / 9/16-18 JIC
25	1	360566	VALVE, RELIEF
26	2	360044	ELL, 90° 3/8 P.M. / 3/4-16 JIC
27	1	480203	HOSE ASSEMBLY (24-3/4")
28	1	480202	HOSE ASSEMBLY (21-1/2")
29	2	360043	ELL, 90° 1/2 P.M. / 3/4-16 JIC
30	2	480204	HOSE ASSEMBLY (17-1/2")
31	1	200880	ADAPTER, 3/8 P.M. / 1/4 P.F.
32	1	360578	HOSE ASSEMBLY (22-1/4")
33	1	360579	HOSE ASSEMBLY (15-1/2")
34	1	480191	ELL, 45° 3/8 P.M. / 3/4-16 JIC
35	1	480213	ELL, 90° 3/8 P.M. / 3/4-16 JIC LONG
36	1	480211	TUBE ASSEMBLY
37	1	330348	CAP. 7/16 JIC
38	1	330176	ELL, 90° 1/4 NPT / 7/16 JIC 37



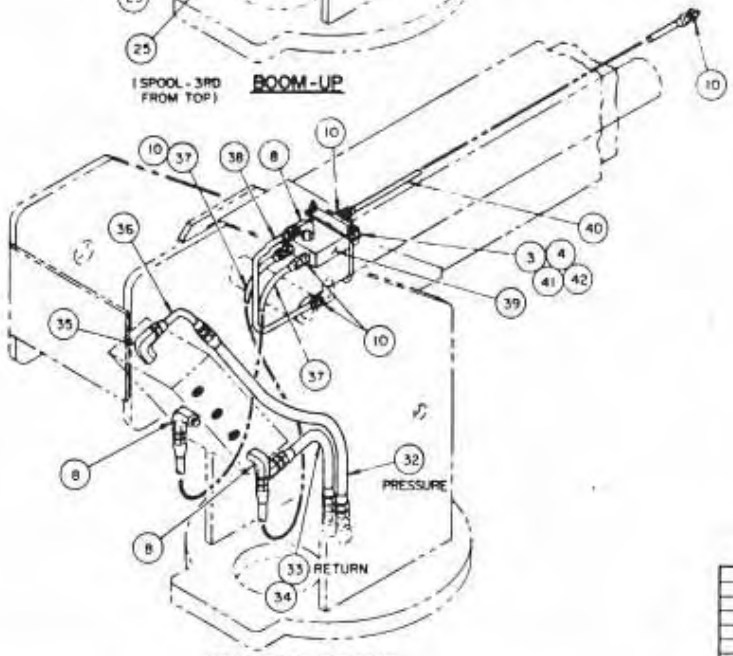
HOIST
(SPOOL - TOP)



(SPOOL - 3RD FROM TOP) BOOM-UP



(SPOOL - 2ND FROM TOP) ROTATION



PRESSURE - RETURN
EXTENSION (SPOOL - BOTTOM)

12/86

AUTO CRANE COMPANY

HYDRAULIC ASSEMBLY - 5005H
POWER EXTENSION

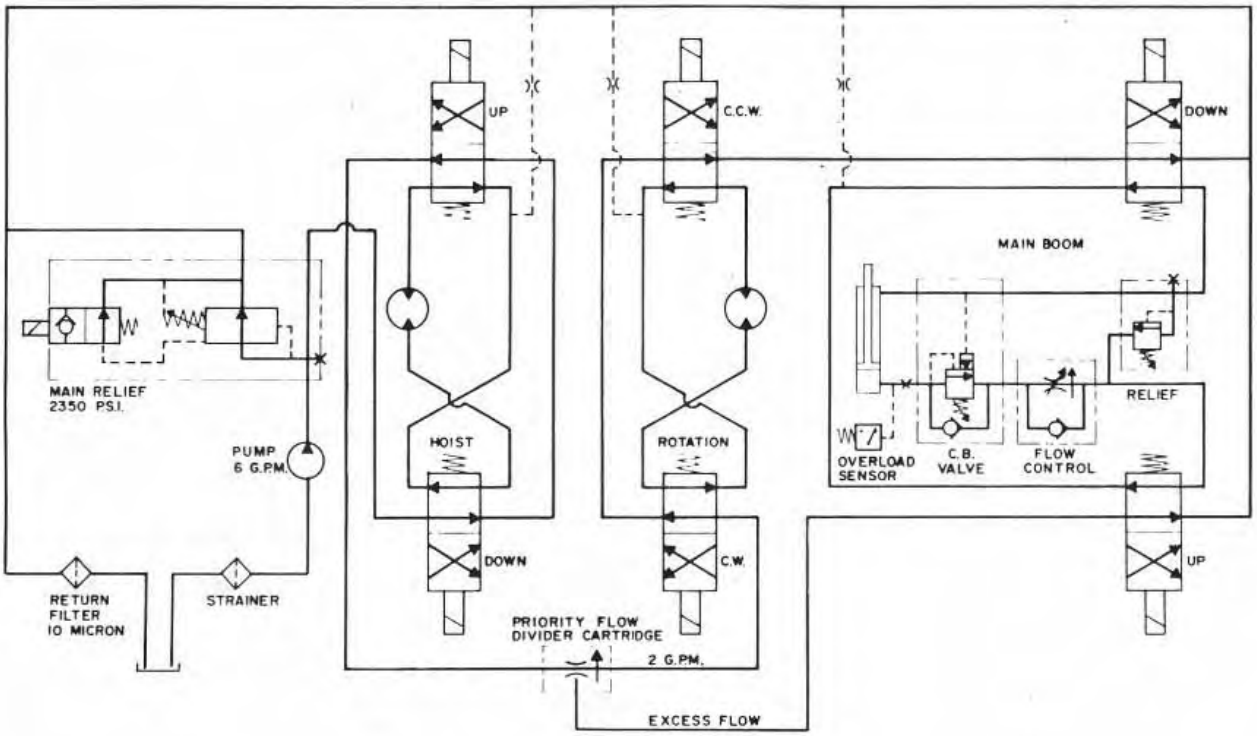
AW-360565

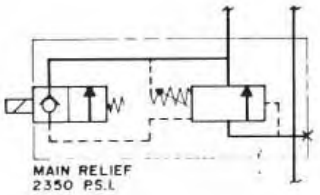
HYDRAULIC ASSEMBLY - POWER EXTENSION - 5005H - AW-360565

ITEM	QTY	PART NO	DESCRIPTION
1	1	360581	U-BOLT
2	1	360582	CLAMP
3	4	020200	LOCKWASHER 1/4
4	4	015900	NUT, HX. 1/4 NC
5	1	360568	VALVE, COUNTERBALANCE
6	1	360567	LOAD SENSOR SWITCH
7	1	330582	FLOW REGULATOR
8	7	200892	ELL, 90° 3/8 P.M. / 9/16-18 JIC
9	1	360098	HOSE ASSEMBLY (8-1/2")
10	8	360042	ADAPTER, 3/8 P.M. / 9/16-18 JIC
11	1	360047	ELL, 90° 3/8 P.M. / 1/4 P.F.
12	1	360574	TEE, BRANCH 9/16 JIC / 1/4 EXT / 1/4 INT
13	2	000209	PLUG, PIPE 1/4-18
14	1	360575	TUBE ASSEMBLY
15	1	360053	TEE, 3/8 P.M. / 3/8 P.F.
16	1	360576	ADAPTER, 3/8 P.M. / 1/4 P.M.
17	1	360573	HOSE ASSEMBLY (23")
18	1	360572	HOSE ASSEMBLY (27")
19	1	360041	ADAPTER, 1/4 P.M. / 9/16-18 JIC
20	2	480194	ELL, 90° SWIVEL 9/16-18 JIC
21	1	360577	TEE, 3/8 P.M. / 9/16-18 JIC RUN
22	1	360571	TUBE ASSEMBLY
23	1	360570	TUBE ASSEMBLY
24	5	202759	ELL, 90° 1/2 P.M. / 9/16-18 JIC
25	1	360566	VALVE, RELIEF
26	2	360044	ELL, 90° 3/8 P.M. / 3/4-16 JIC
27	2	480203	HOSE ASSEMBLY (24-3/4")
28	1	480202	HOSE ASSEMBLY (21-1/2")
29	2	360043	ELL, 90° 1/2 P.M. / 3/4-16 JIC
30	2	480204	HOSE ASSEMBLY (17-1/2")
31	1	200880	ADAPTER, 3/8 P.M. / 1/4 P.F.
32	1	360578	HOSE ASSEMBLY (22-1/4")
33	1	360579	HOSE ASSEMBLY (15-1/2")
34	1	480191	ELL, 45° 3/8 P.M. / 3/4-16 JIC
35	1	480213	ELL, 90° 3/8 P.M. / 3/4-16 JIC LONG
36	1	480211	TUBE ASSEMBLY
37	2	360075	HOSE ASSEMBLY (30-3/4")
38	1	360069	TUBE ASSEMBLY
39	1	360153	VALVE, COUNTERBALANCE
40	1	360070	TUBE ASSEMBLY
41	1	360091	U-BOLT
42	1	360092	CLAMP
43	1	330348	CAP. 7/16 JIC
44	1	330176	ELL, 90° 1/4 NPT / 7/16 JIC 37

FIXTURE NO	FINISH NO

CHG LTR	REVISIONS DESCRIPTION	DATE	APP'D





RELIEF VALVE SHOWN WITH SOLENOID ENERGIZED

12/86

ITEM	QTY	PART NO	DESCRIPTION
		LIST OF MATERIAL	

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED
ANGLES ± 2° .XX ± .01
FRACTIONAL ± 1/8 .XXX ± .005
REMOVE ALL BURRS AND SHARP EDGES DO NOT SCALE THIS DRAWING
TOLERANCES NOT SHOWN ABOVE ARE PER ANSI Y14.5 1973
THIS PRINT IS THE PROPERTY OF AUTO CRANE CO. AND MUST NOT BE USED IN ANY MANNER DETRIMENTAL TO THEIR INTERESTS

DRAWN R.D. DATE 7/16/86
CHECKED
DATE
ENG'RD
DATE

NEXT ASSY

AUTO CRANE COMPANY

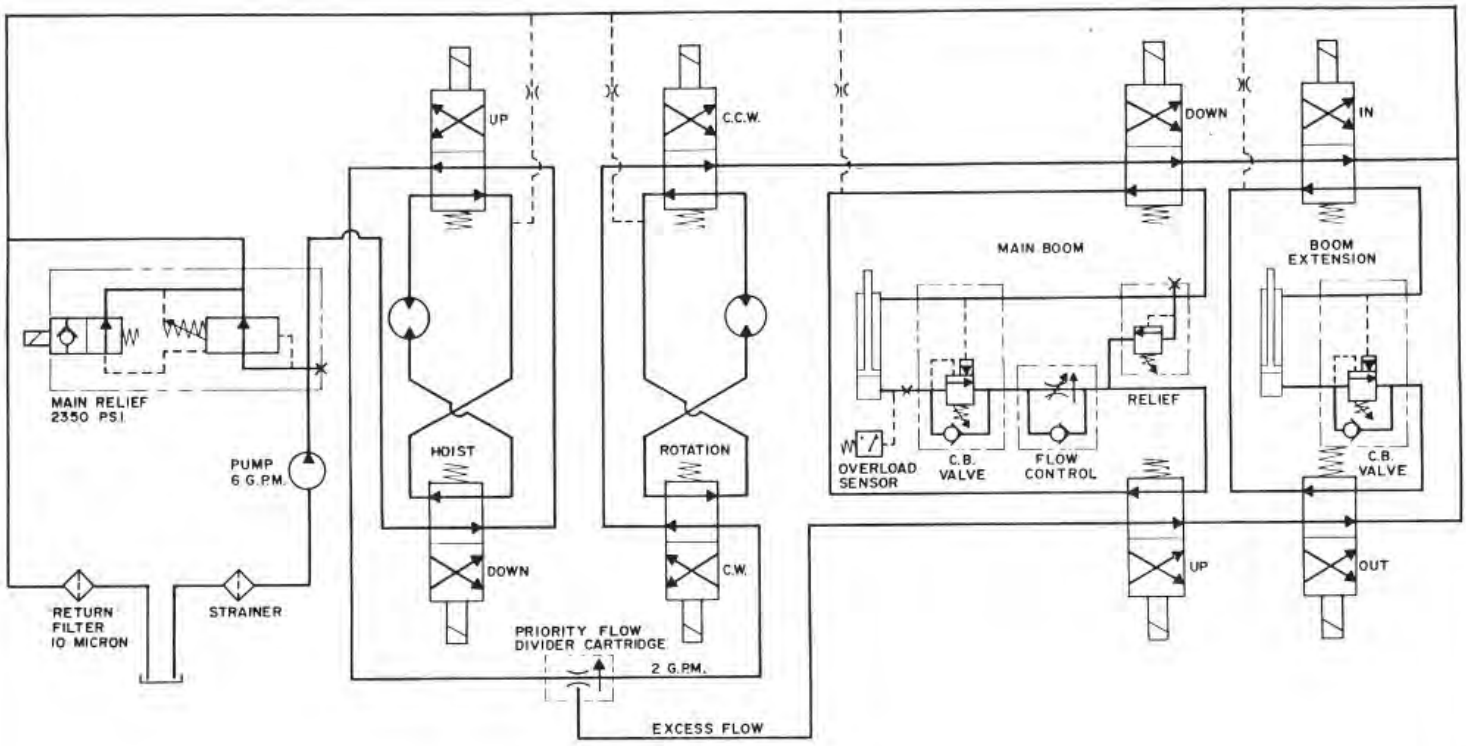
TITLE: HYDRAULIC SCHEMATIC
5005H
(WITHOUT POWER EXTENSION)

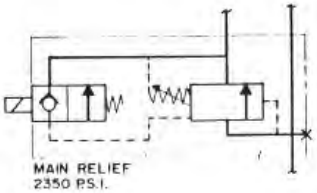
SCALE	SIZE	DRAWING NO	REVISION
	C	AW-360653	

WEIGHT | SHEET 1 OF 1

FIXTURE NO.	FINISH NO.

CHG LTR	REVISIONS DESCRIPTION	DATE	APP'D





RELIEF VALVE SHOWN WITH SOLENOID ENERGIZED

12/86

ITEM	QTY	PART NO.	DESCRIPTION
		LIST OF MATERIAL	

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE AS FOLLOWS: SPECIFIED ANGLES ± 1/2° | XX ± .03 | FRACTIONAL ± 1/16 | XXX ± .005 | REMOVE ALL BURRS AND SHARP EDGES. DO NOT SCALE THIS DRAWING. TOLERANCES NOT SHOWN ABOVE ARE PER ANSI Y14.5 1973.

THE PRINT IS THE PROPERTY OF AUTO CRANE CO. AND MUST NOT BE USED IN ANY MANNER DETRIMENTAL TO THEIR INTERESTS.

DRAWN BY: R.O. DATE: 7/16/86 CHECKED BY: DATE: ENGR'G APPR'D: DATE:

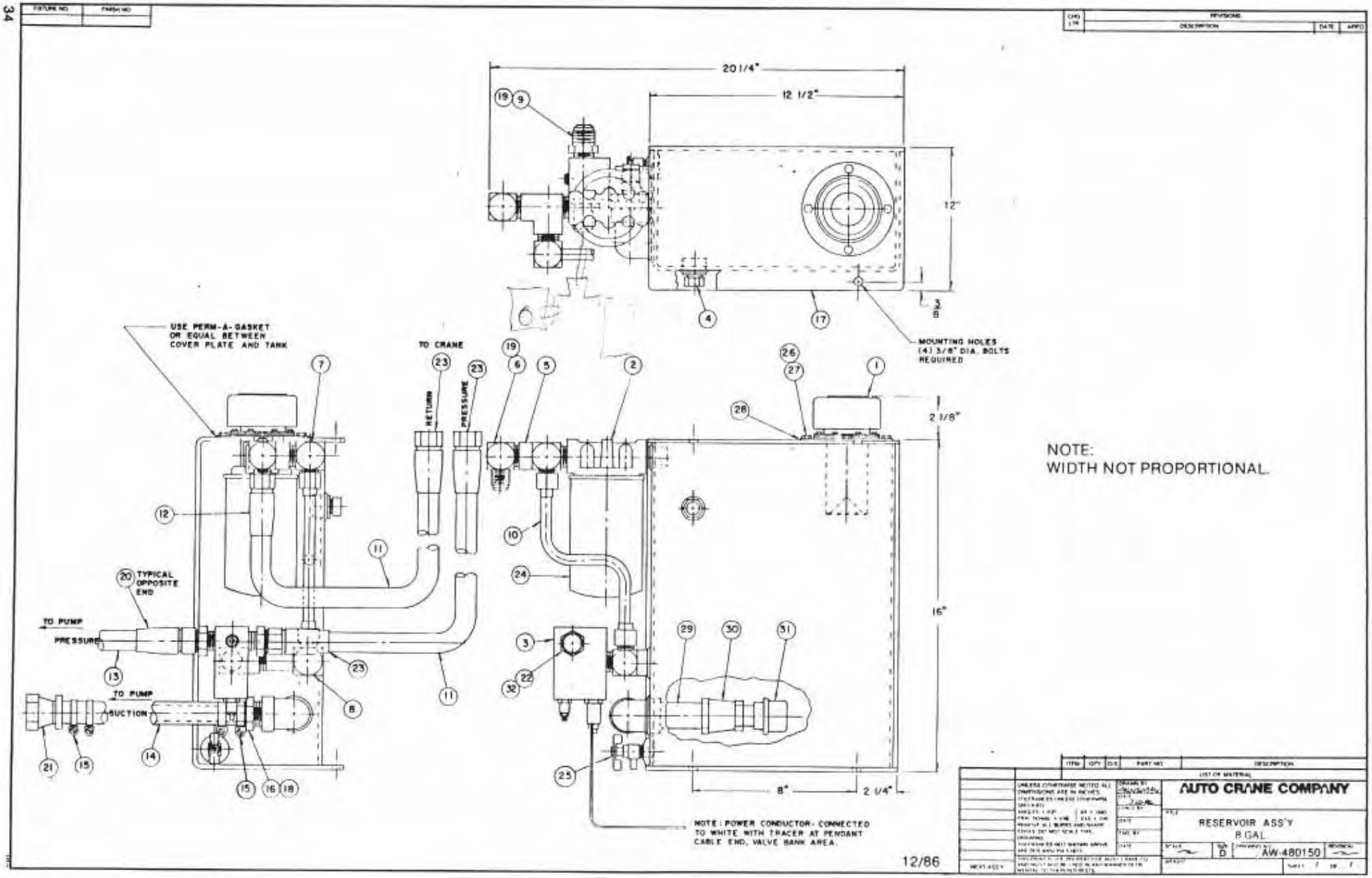
NEXT ASS'Y

AUTO CRANE COMPANY

TITLE: HYDRAULIC SCHEMATIC 5005H (WITH POWER EXTENSION)

SCALE: | SIZE: C | DRAWING NO.: AW-360654 | REVISION:

WEIGHT: | SHEET 1 OF 1



NOTE:
WIDTH NOT PROPORTIONAL.

12/86

AUTO CRANE COMPANY

RESERVOIR ASS'Y
8 GAL.

AW-480150

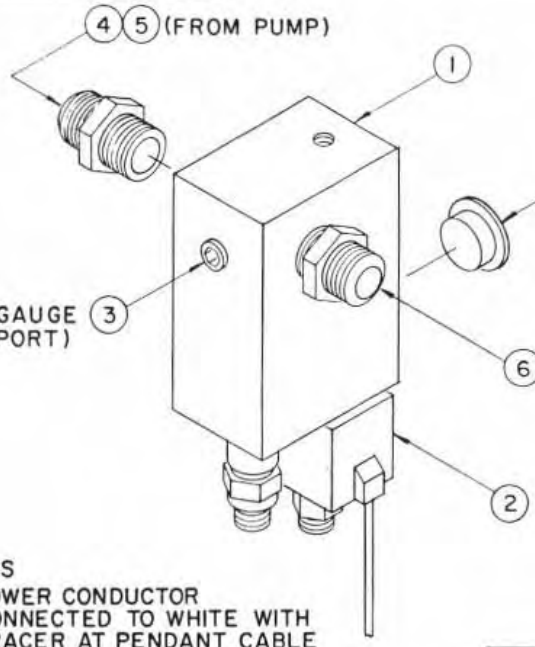
RESERVOIR ASSEMBLY - 5005H - AW-480150

ITEM	QTY.	PART NO.	DESCRIPTION
1	1	360151	FILLER ASSY., RESERVOIR
2	1	360156	FILTER, HYD. FLUID
3	1	360247	VALVE VENTED RELIEF ASS'Y WITH SOLENOID
4	1	360150	PLUG, RESERVOIR SIGHT
5	1	360262	TEE
6	1	360263	ELL
7	1	551222	ELL
8	1	360264	ELL
9	1	REF.	ADAPTER, STRAIGHT
10	1	360267	TUBE ASSY.
11	1	REF.	HOSE (SIZE 8)
12	1	REF.	FITTING, 10-8
13	1	REF.	HOSE (SIZE 12)
14	1	REF.	HOSE (SIZE 16)
15	4	REF.	CLAMPS, HOSE
16	1	REF.	ADAPTER, STRAIGHT SUCTION
17	1	360251	RESERVOIR, WELDMENT
18	1	360271	CAP, DUST (1" I.D.) PLASTIC
19	2	REF.	CAP, DUST (7/8" I.D.) PLASTIC
20	2	REF.	FITTING,10-12
21	1	REF.	ADAPTER, HOSE
22	1	REF.	ADAPTER, ST. 1/2 NPT / 3/4-16 JIC
23	3	REF.	FITTING, 8-8
24	1	360277	FILTER, HYD. REPLACEMENT
25	1	750715	VALVE DRAIN
26	4	005500	SCREW, HX. 1/4-20 X 3/4"LG
27	4	020200	WASHER SP. LK. 1/4" CP
28	1	360249	COVER, CLEAN OUT
29	1	360257	NIPPLE, STRAIGHT 1" NPT X 3" LG
30	1	360256	REDUCER 1" NPT / 3/4 NPT.
31	1	360168	STRAINER, SUCTION
32	1	REF.	CAP, DUST 3/4 I.D. PLASTIC

NOTE: 1. ITEMS 11, 12, 13, 14, 15, 16, 20, 21 AND 23 CAN BE PURCHASED IN KIT FORM WITH P/N 480159
2. ORDER ITEM 24 WHEN REPLACEMENT FILTER IS NEEDED.
3. ITEMS 9, 19, 22, 32 COME WITH ITEM 3 (360247) VALVE, VENTED RELIEF ASS'Y WITH SOLENOID.

FIXTURE NO.	FINISH NO.

CHG LTR	REVISIONS DESCRIPTION	DATE	APP'D



NOTES

1. POWER CONDUCTOR CONNECTED TO WHITE WITH TRACER AT PENDANT CABLE END, VALVE BANK AREA.
2. RELIEF VALVE MUST BE LOCATED BETWEEN PUMP AND ANY OTHER VALVES OR ACCESSORIES.

ITEM	QTY	PART NO.	DESCRIPTION
8	1	360278	PLUG, PIPE 1/2" (PLASTIC)
7	1	360276	CAP, DUST 3/4" (PLASTIC)
6	1	360054	ADAPTER, STRAIGHT
5	1	360272	CAP, DUST 7/8" (PLASTIC)
4	1	551215	ADAPTOR, STRAIGHT
3	1	000209	PLUG, PIPE-SOC. 1/4"
2	1	480137	VALVE DIRECTIONAL, SOLENOID
1	1	480136	VALVE VENTED RELIEF 2350

LIST OF MATERIAL

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS OTHERWISE SPECIFIED.
ANGLES ± 1/2° | XX ± .040
FRACTIONAL ± 1/16 | XXX ± .010
REMOVE ALL BURRS AND SHARP EDGES. DO NOT SCALE THIS DRAWING.
TOLERANCES NOT SHOWN ABOVE ARE PER ANSI Y14.5-1973

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DRAWN BY RP
DATE 12-02-86
CHK'D BY
DATE
ENG. BY
DATE

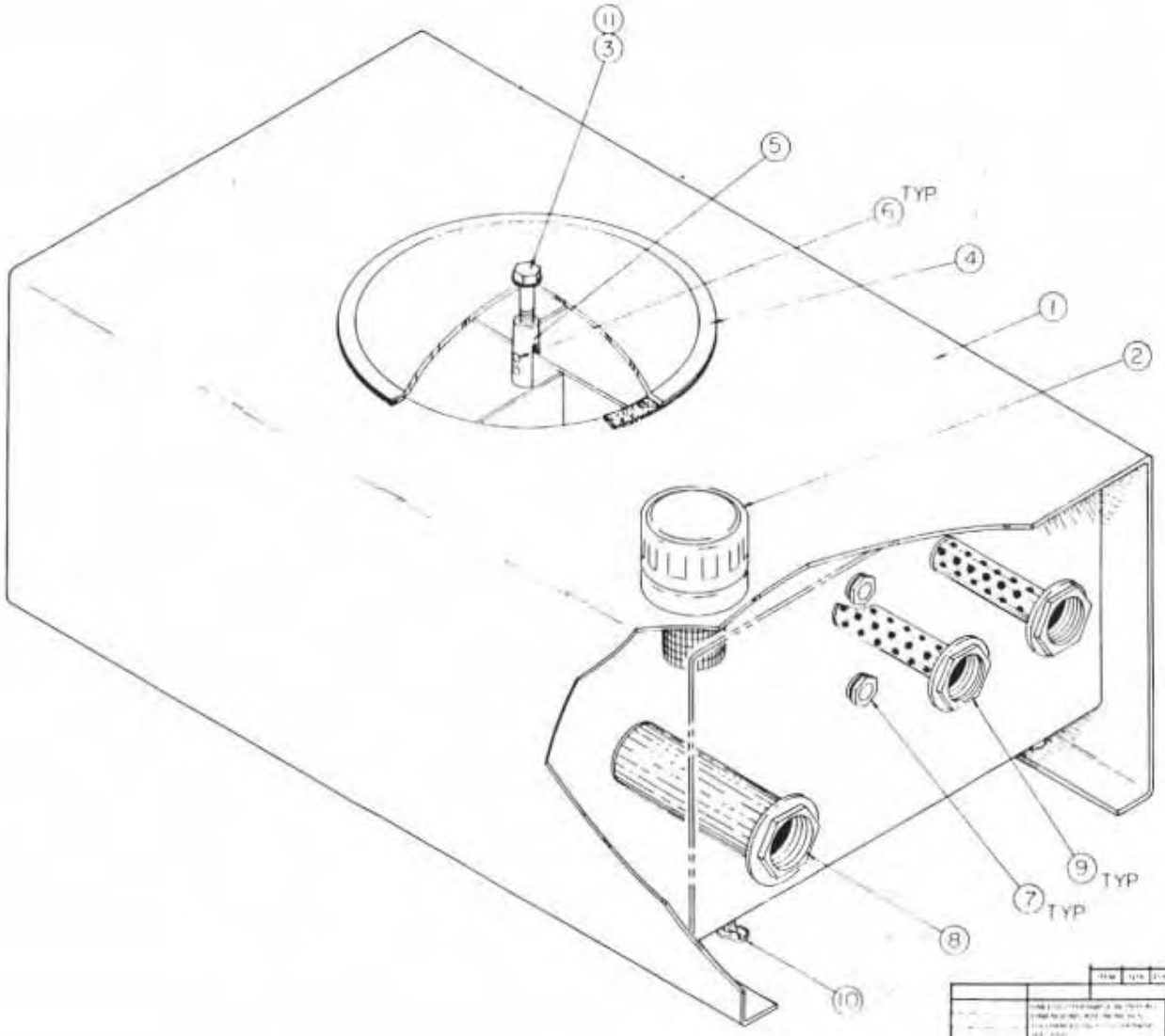
NEXT ASS'Y

AUTO CRANE COMPANY

TITLE: VALVE VENTED RELIEF ASS'Y. WITH SOLENOID 5005H

SCALE | SIZE B | DRAWING NO. AW-360247 | REVISION

WEIGHT | SHEET 1 OF 1



AUTO CRANE COMPANY

RESERVOIR, 18GAL TOP ASSY

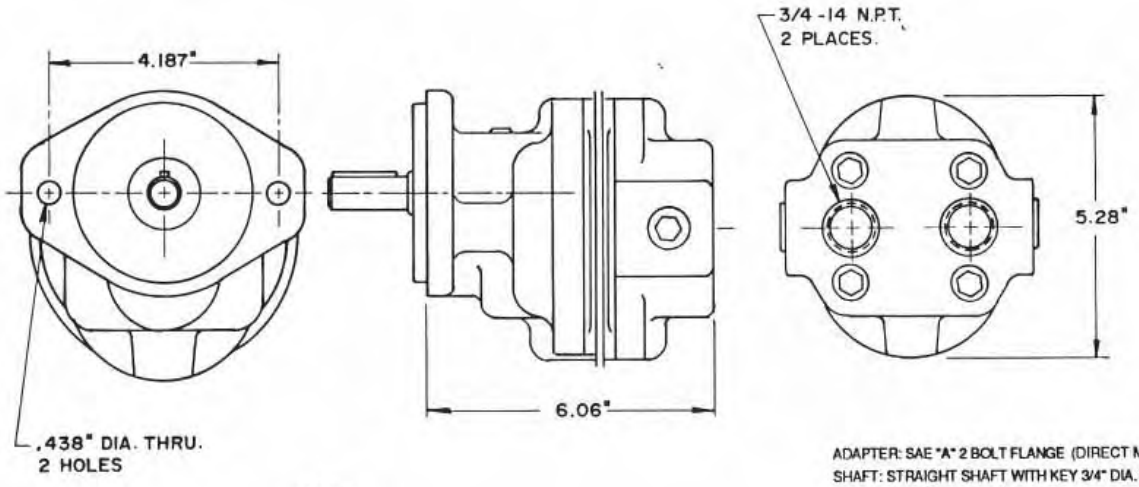
D AW-750690

RESERVOIR, 18 GALLON TOP ASSEMBLY -AW-750690

ITEM	QTY	PART NO	DESCRIPTION
1	1	750691	RESERVOIR, WELD ASS'Y.
2	1	360151	FILLER ASS'.Y RESERVOIR
3	1	750711	BOLT, (END COVER)
4	1	750712	END COVER
5	1	750709	ADAPTER, BAFFLE
6	2	750710	PIN, END COVER
7	2	360150	PLUG, RESERVOIR
8	1	750707	STRAINER, SUCTION
9	2	750708	STRAINER, DIFFUSER
10	1	750715	VALVE, DRAIN
11	1	750716	CRUSH WASHER

FIXTURE NO.	FINISH NO.

CHG LTR	REVISIONS DESCRIPTION	DATE	APP'D



ADAPTER: SAE "A" 2 BOLT FLANGE (DIRECT MOUNT ONLY).
SHAFT: STRAIGHT SHAFT WITH KEY 3/4" DIA. 2-3/4" LONG
3/16" SQ. KEY 1-5/8" LONG

NOTE:
PUMP SPEED - 950 R.P.M. (STANDARD)

NOTES:
1. TO ORDER HYD. PUMP ASSEMBLY USE PART NO. 360030, WHICH CONSISTS OF HYD. PUMP (360029), 3/4-14NPT/1-5/16-12 JIC ADAPTER (360055) AND 3/4-14 NPT/ 7/8-14 JIC ADAPTER (360056).
2. FOR SEAL KIT USE PART NO. 480018-001.
3. FOR SERVICE KIT USE PART NO. 480018-002.

ITEM	D/S	PART NO.	DESCRIPTION
QUANTITY			LIST OF MATERIAL

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS OTHERWISE SPECIFIED
ANGLES ± 1/2° | XX ± .40
FRACTIONAL ± 1/16 | XXX ± .010
REMOVE ALL BURRS AND SHARP EDGES. DO NOT SCALE THIS DRAWING.
TOLERANCES NOT SHOWN ABOVE ARE PER ANSI Y14.5 1973

DRAWN BY: ARMSTRONG
DATE: 2-16-83
CHK'D BY:
DATE:
ENG. BY:
DATE:

THIS PRINT IS THE PROPERTY OF AUTO CRANE CO AND MUST NOT BE USED IN ANY MANNER DETRIMENTAL TO THEIR INTERESTS

12/86 NEXT ASS'Y

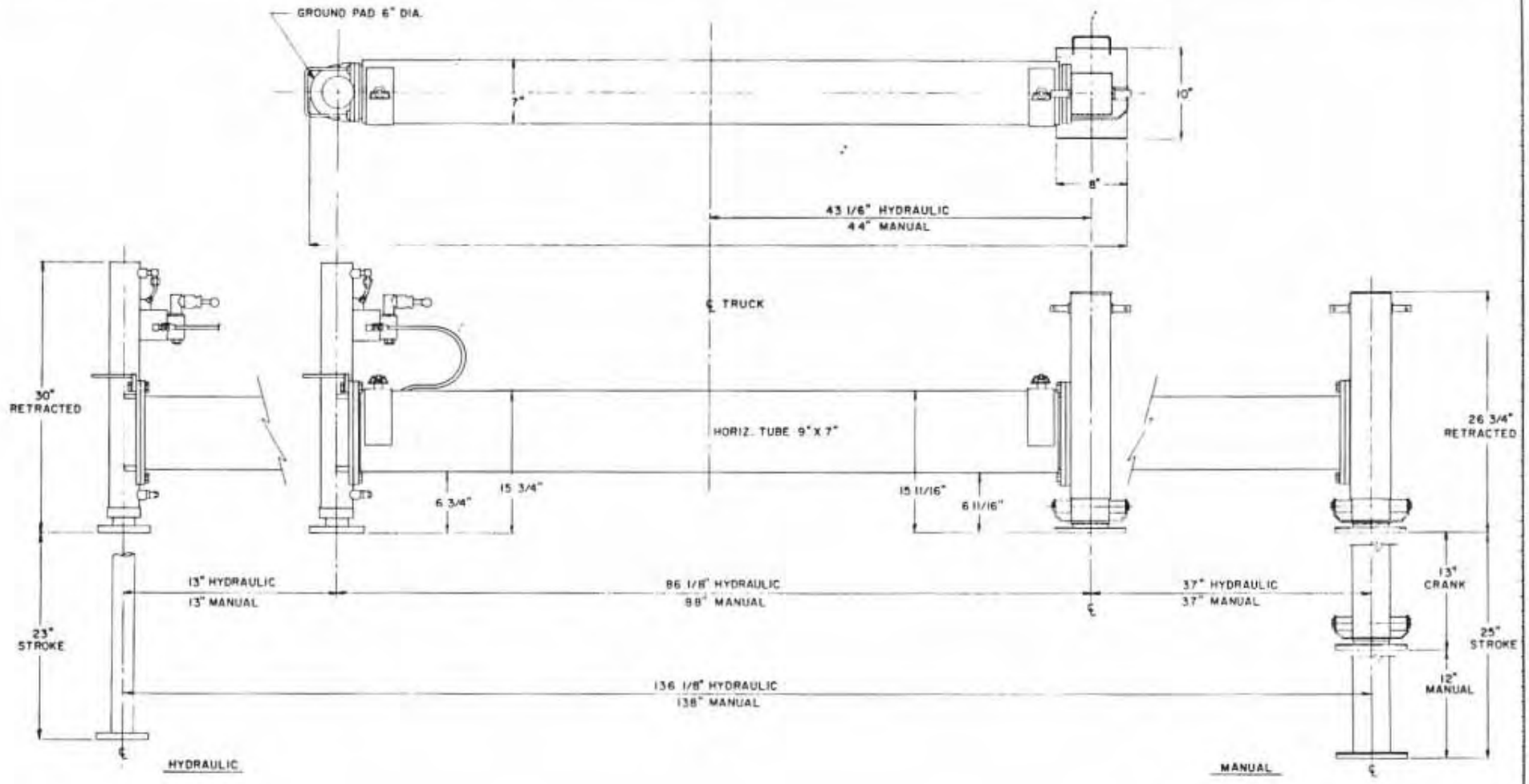
AUTO CRANE COMPANY

TITLE: PUMP, HYDRAULIC - DIRECT MOUNT

SCALE	SIZE	DRAWING NO	REVISION
~	B	AW-360029	~

WEIGHT | SHEET 1 OF 1

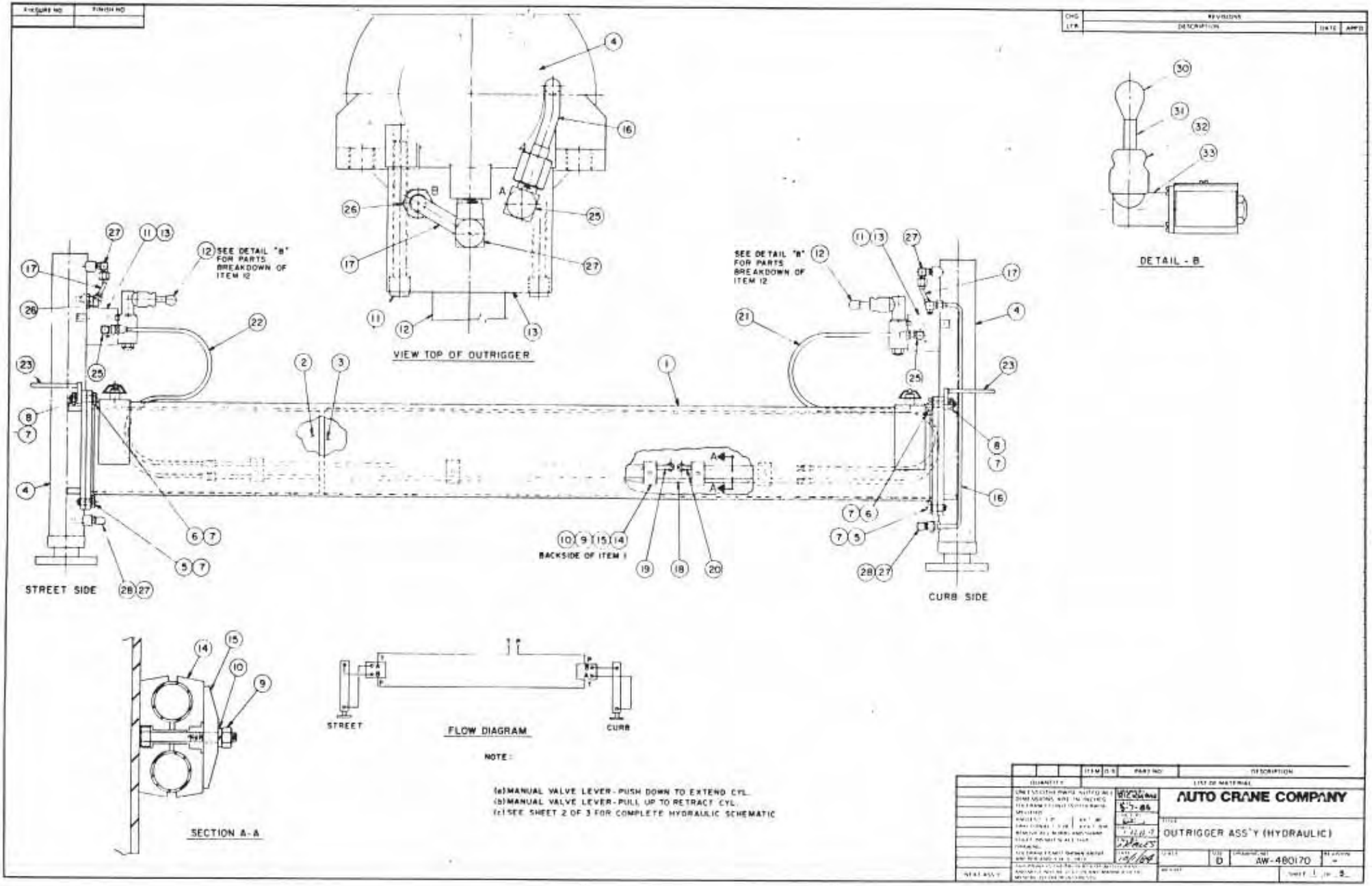
RIDGWAYS 1000H



AUTO CRANE COMPANY

DIMENSIONAL OUTRIGGERS
HYDRAULIC & MANUAL

D ENG. 164



NOTE:

(a) MANUAL VALVE LEVER - PUSH DOWN TO EXTEND CYL.
(b) MANUAL VALVE LEVER - PULL UP TO RETRACT CYL.
(c) SEE SHEET 2 OF 3 FOR COMPLETE HYDRAULIC SCHEMATIC

AUTO CRANE COMPANY

OUTRIGGER ASS'Y (HYDRAULIC)

SIZE D | DRAWING NO. AW-480170 | REVISION -

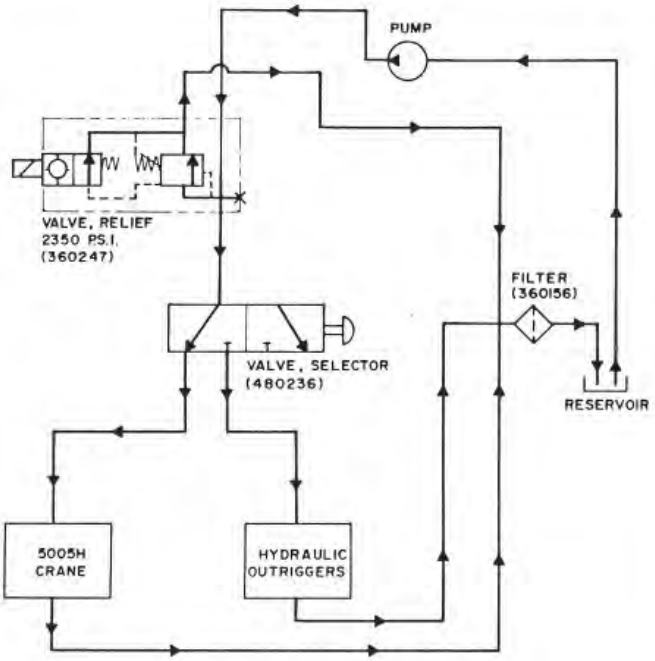
SHEET 1 OF 3

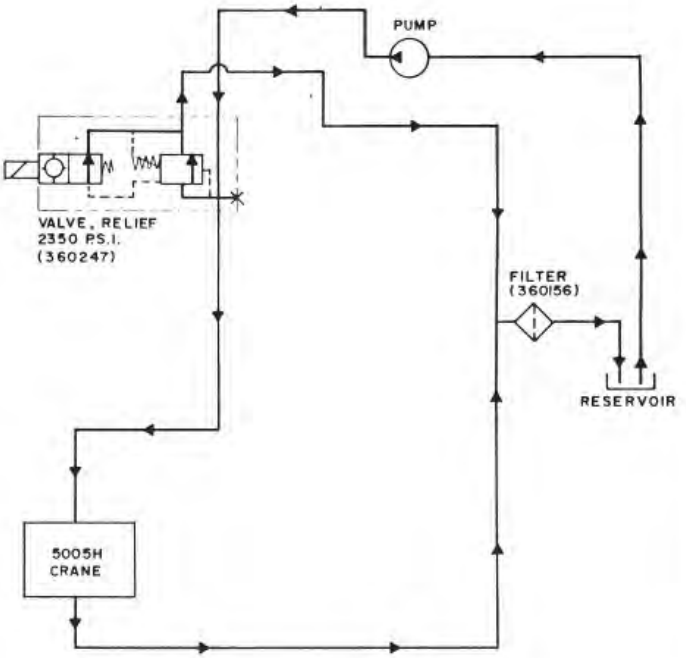
OUTRIGGER ASSEMBLY (HYDRAULIC) - AW-360655

ITEM	QTY.	PART NO.	DESCRIPTION
1	1	480171	MAIN CROSS TUBE ASS'Y
2	1	480174	SLIDE, STREET SIDE
3	1	480176	SLIDE, CURB
4	2	480017	CYLINDER
5	4	012203	SCREW HX.HD. 5/8 NF X 1-1/4" LG
6	4	013506	SCREW HX.HD. 5/8 NF X 2-1/4" LG
7	12	023800	WASHER, SPLK 5/8
8	4	018302	NUT, HX. 5/8 NF
9	5	016500	NUT, HX. 5/16 NC
10	5	020600	WASHER, SP LK 5/16
11	4	003906	SCREW 5/16-18 X 31/4 LG. SC. HD.
12	2	480230	VALVE, MANUAL - OUTRIGGER
13	2	480231	MANIFOLD - OUTRIGGER
14	5	480232	CLAMP HALVES
15	5	480233	PLATE, TWIN COVER
16	2	480220	TUBE ASS'Y - LEG
17	2	480221	TUBE ASS'Y - LEG
18	1	480222	TUBE ASS'Y
19	1	480223	TUBE ASS'Y
20	1	480224	TUBE ASS'Y
21	2	480225	HOSE ASS'Y O.R - CURB
22	2	480226	HOSE ASS'Y O.R. - STREET
23	2	480227	HANDLE ASS'Y
24	1	480235	KIT, OUTRIGGER INSTALLATION
25	6	241175	ELL, 90 #6 O-RING/ #6 JIC STD
26	2	480195	ELL, 45 #6 O-RING / #6 JIC
27	4	200892	ELL, 90 #6 PIPE / #6 JIC
28	2	360048	ELL, 90 #6 PIPE M/ #6 PIPE FM
29	1	480014	SEAL KIT (For 480017 - O.R. Cyl.)
30	1	480230-001	KNOB
31	1	480230-002	LEVER
32	1	480230-003	BOOT
33	1	480230-004	HANDLE ASS'Y

FIXTURE NO.	FINISH NO

CHG LTR	REVISIONS DESCRIPTION	DATE	APP'D





ITEM	D.S.	PART NO.	DESCRIPTION
QUANTITY		LIST OF MATERIAL	

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS OTHERWISE SPECIFIED
ANGLES ± 1° | XX ± .01
FRACTIONAL ± 1/16 | XXX ± .010
REMOVE ALL BURRS AND SHARP EDGES DO NOT SCALE THIS DRAWING
TOLERANCES NOT SHOWN ABOVE ARE PER ANSI Y14.5 1973

THIS PRINT IS THE PROPERTY OF AUTO CRANE CO. AND MUST NOT BE USED IN ANY MANNER OR BE LOANED TO OTHERS EXCEPT AS MAY BE AUTHORIZED IN WRITING

DRAWN: R.D. DATE: 7/16/86
CHECKED: DATE:
ENG. BY: DATE:

NEXT ASSY

AUTO CRANE COMPANY

TITLE
HYDRAULIC SCHEMATIC
5005H
WITH / WITHOUT HYDRAULIC OUTRIGGERS

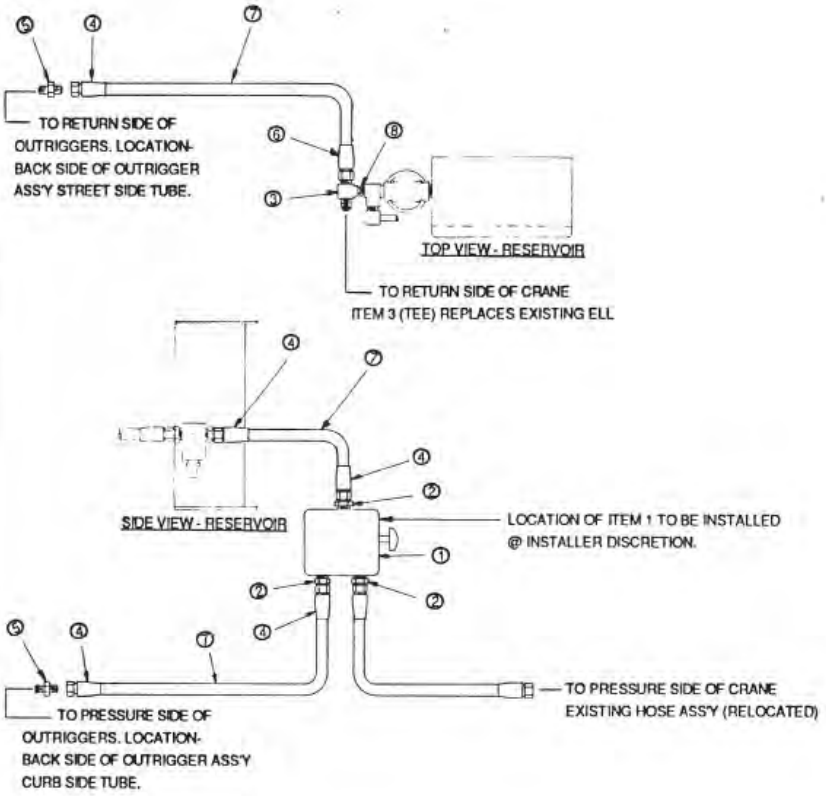
SCALE	SIZE	DRAWING NO.	REVISION
	C	AW-360655	

WEIGHT: SHEET 2 OF 2

12/86

FIXTURE NO.	FINISH NO.

CHG LTR	REVISIONS DESCRIPTION	DATE	APP'D



NOTES:
1. ITEMS 2, 3, 4, 5, 6, 7, 8 CAN BE PURCHASED WITH KIT NO. 480234.

Item	Qty.	Part. No.	Description
8	1	REF.	ADAPTOR, ST. #8 PIPE/#12 PIPE
7	1	REF.	HOSE NO. 8 (12 FEET)
6	1	REF.	FITTING 10-8
5	2	REF.	ADAPTOR, ST. #8JIC/#6JIC
4	4	REF.	FITTING 8-8
3	1	REF.	TEE, #10 RUN NIC/#8 PIPE FM
2	3	REF.	ADAPTOR, ST. 1/2 NPT/3/4-16 JIC
1	1	480236	VALVE SELECTOR

LIST OF MATERIAL

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS OTHERWISE SPECIFIED.
ANGLES ± 1/2° | XX ± .40
FRACTIONAL ± 1/16 | XXX ± .010
REMOVE ALL BURRS AND SHARP EDGES. DO NOT SCALE THIS DRAWING.
TOLERANCES NOT SHOWN ABOVE ARE PER ANSI Y14.5, 1973

DRAWN BY: KICKMAN DATE 5-28-84
CHK'D BY: DATE
ENG'R BY: DATE 10/1/84

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NEXT ASS'Y

12/86

AUTO CRANE COMPANY

TITLE: KIT, OUTRIGGER INSTALLATION

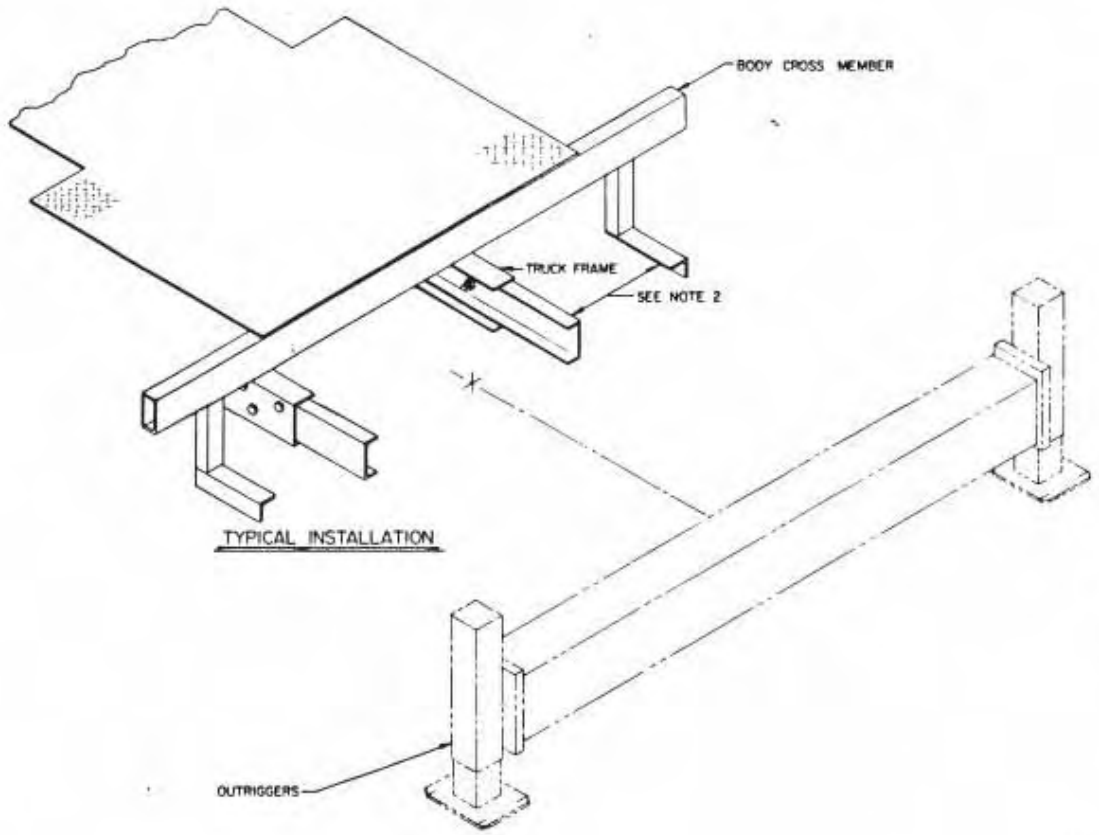
SCALE: — | SIZE: C | DRAWING NO: AW-480235 | REVISION: —

WEIGHT

SHEET 1 OF 1

FIXTURE NO.	FINISH NO.

CHG LTR	REVISIONS DESCRIPTION	DATE	APP'D



TYPICAL INSTALLATION

NOTES:

1 WELD MAIN CROSS TUBE TO FRAME EXTENSIONS AND CROSS MEMBER EXTENSIONS.

2 CAUTION: ON HYDRAULIC OUTRIGGERS (REF. P/N-480170), POSITION SO THAT THE WELD OR BRACING DOES NOT INTERFERE WITH HYDRAULIC TUBING OR HOSE HOOK-UP.

ITEM	QTY	PART NO	DESCRIPTION
	QUANTITY		LIST OF MATERIAL

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS OTHERWISE SPECIFIED: ANGLES ± 1/2° | .XX ± .06 | FRACTIONAL ± 1/16 | .XXX ± .015 | REMOVE ALL BURRS AND SHARP EDGES. DO NOT SCALE THIS DRAWING. TOLERANCES NOT SHOWN ABOVE ARE PER ANSI Y14.5 1973. THIS DRAWING IS THE PROPERTY OF AUTO CRANE CO. AND MUST NOT BE USED IN ANY MANNER OR BY ANYONE DETRIMENTAL TO THEIR INTERESTS.

NEXT ASS'Y

DRAWN
CHECKED
DATE
ENG APP'D
DATE
MFG APP'D
DATE

AUTO CRANE COMPANY

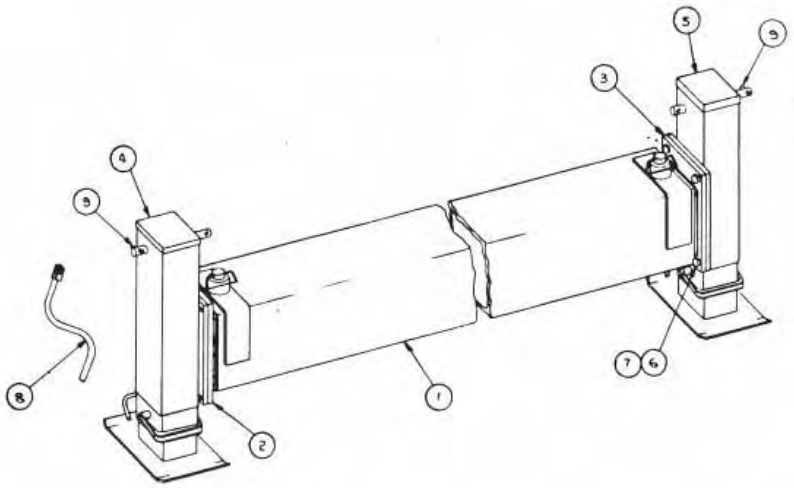
TITLE: INSTALLATION - OUTRIGGERS 5005H

SCALE: ~ | SIZE: D | DRAWING NO: AW-048 | REVISION

WEIGHT | SHEET 1 OF 1

FIXTURE NO.	FINISH NO.

CHG LTR	REVISIONS DESCRIPTION	DATE	APP'D



NOTE:
INSTALL ITEM 9 (PIN) WITH 1/2 INCH EACH SIDE OF CRANK SHAFT.

Item	Qty.	Part No.	Description
9	2	480162	PIN, ROLL 3/8 X 2" LG.
8	1	480164	HANDLE CRANK
7	8	023800	WASHER, SP.LK. 5/8
6	8	012203	SCREW HX.HD. 5/8 NF x 1-1/4" LG.
5	1	480169	OUTRIGGER, MANUAL WELDMENT(R)
4	1	480168	OUTRIGGER, MANUAL WELDMENT(L)
3	1	480176	SLIDE, CURB SIDE
2	1	480174	SLIDE, STREET SIDE
1	1	480179	MAIN CROSS TUBE ASS'Y

LIST OF MATERIAL

QUANTITY

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED
ANGLES ± 1/2° | XX ± .01
FRACTIONAL ± 1/16 | XXX ± .010
REMOVE ALL BURRS AND SHARP EDGES. DO NOT SCALE THIS DRAWING
TOLERANCES NOT SHOWN ABOVE ARE PER ANSI Y14.5 1973

DRAWN BY: RICHMAN
DATE: 5-5-84
CHK'D BY:
DATE:
ENG. BY:
DATE:

THIS PRINT IS THE PROPERTY OF AUTO CRANE CO. AND MUST NOT BE USED IN ANY MANNER DETRIMENTAL TO THEIR INTERESTS.

NEXT ASS'Y

AUTO CRANE COMPANY

TITLE: OUTRIGGER ASSEMBLY (MANUAL)

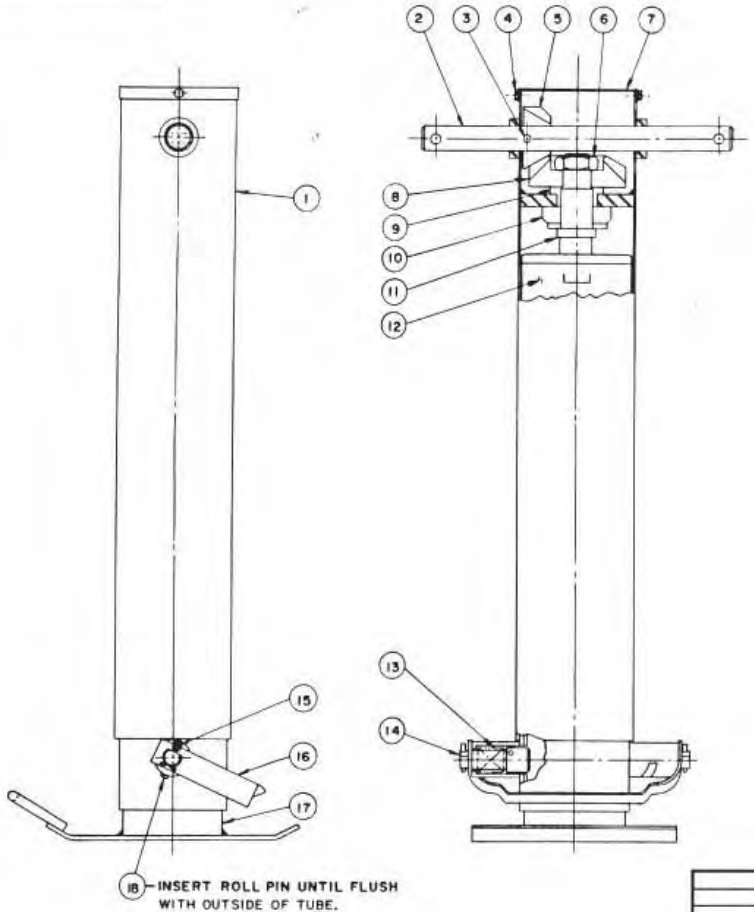
SCALE	SIZE	DRAWING NO.	REVISION
-	C	AW-480165	-

WEIGHT

SHEET 1 OF 1

FIXTURE NO.	FINISH NO.

CHG LTR	REVISIONS DESCRIPTION	DATE	APP'D



18 – INSERT ROLL PIN UNTIL FLUSH WITH OUTSIDE OF TUBE.

ITEM	D/S	PART NO.	DESCRIPTION
2	A	480287	ROLL PIN
17	A	480286	DROP LEG S/A
16	A	480285	SHOT PIN HANDLE
15	A	480284	COTTER
14	A	480283	SHOT PIN
13	A	480282	COMP. SPRING
12	A	480281	INNER LEG S/A
11	A	480280	SPECIAL WASHER
10	A	480279	THRUST BEARING
9	A	480278	BUSHING
8	A	480277	BEVEL GEAR
7	A	480276	COVER
6	A	480275	JAM NUT
5	A	480274	BEVEL PINION GEAR
4	A	480273	SELF TAPPING SCR.
3	A	480272	SPIRAL PIN
2	A	480271	CRANK SHAFT
1	A	480270	OUTER LEG S/A

QUANTITY — LIST OF MATERIAL

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS OTHERWISE SPECIFIED: ANGLES ± 1/2° | XX ± .40 | FRACTIONAL ± 1/16 | XXX ± .010. REMOVE ALL BURRS AND SHARP EDGES. DO NOT SCALE THIS DRAWING. TOLERANCES NOT SHOWN ABOVE ARE PER ANSI Y14.5 1973.

DRAWN BY: RICKMAN — DATE: 1-29-85
CHECKED BY: MORRIS — DATE: 1/31/85
ENG. BY: — DATE:

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NEXT ASS'Y

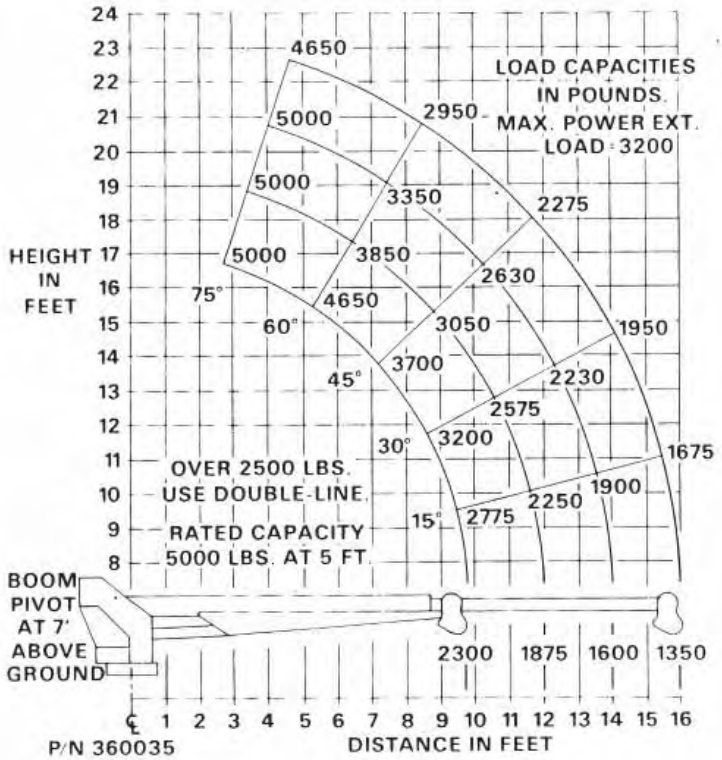
AUTO CRANE COMPANY

TITLE: OUTRIGGER, MANUAL

SCALE: NONE | SIZE: C | DRAWING NO: AW-480166 | REVISION: —

WEIGHT | SHEET 2 OF 2

1/85



NOTE:
DIMENSION FROM BASE OF CRANE TO CENTER OF BOOM PIVOT POINT IS 27 7/8"

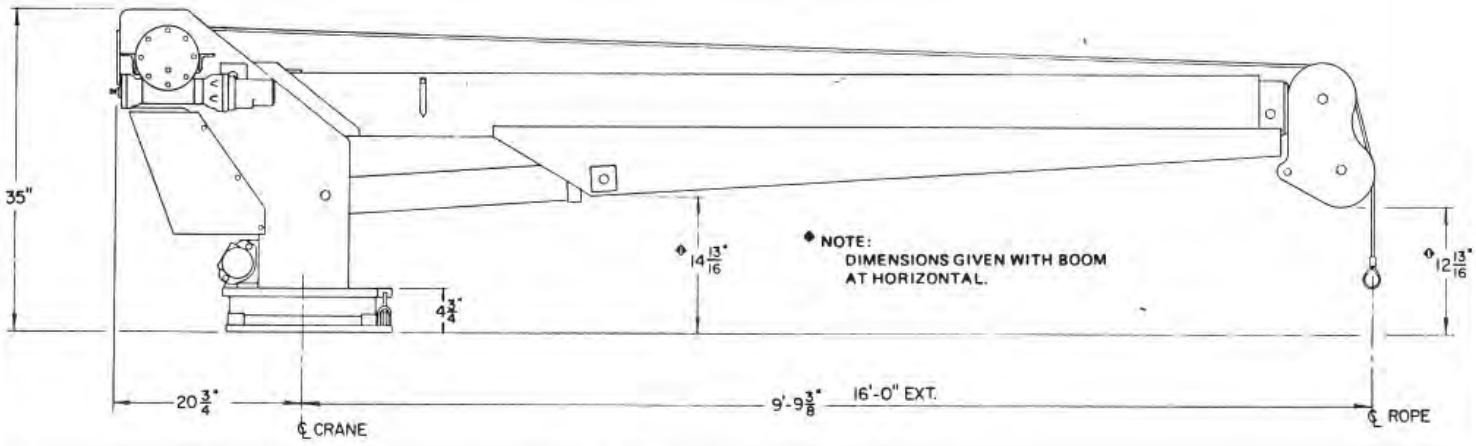
12/86

AUTO CRANE COMPANY

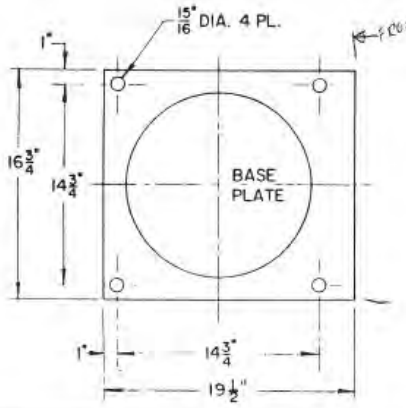
TITLE	DWG. NO.
LOAD CHART-5005H	AW-360035

FIXTURE NO.	FINISH NO.

CHG LTR	REVISIONS DESCRIPTION	DATE	APP'D



◆ NOTE:
DIMENSIONS GIVEN WITH BOOM AT HORIZONTAL.



SPECIFICATIONS:
BOOM LENGTH=9'-9⅜" (RETRACTED) TO 16'-0"
(FULLY EXTENDED).
CRANE WEIGHT= LBS. APPX.
POWER SOURCE = HYDRAULIC
REMOTE MOUNTED RESERVOIR
370 ° ROTATION
MAX. TURNING RADIUS (FROM CENTER OF CRANE)
@HOIST ACTUATOR - 23 3/16".
MAX. TURNING RADIUS (FROM CENTER OF CRANE)
@ ROTATION MOTOR=13 17/32".
OPERATING PRESSURE 2350 PSI
OIL FLOW 6 GPM

NOTE:
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED.

ITEM	D/S	PART NO.	DESCRIPTION
QUANTITY			LIST OF MATERIAL

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS OTHERWISE SPECIFIED
ANGLES ± 1/2° | XX ± .40
FRACTIONAL ± 1/16 | XXX ± .015
REMOVE ALL BURRS AND SHARP EDGES. DO NOT SCALE THIS DRAWING.
TOLERANCES NOT SHOWN ABOVE ARE PER ANSI Y14.5 1973

DRAWN BY: Armstrong DATE: 1-16-85
CHK'D BY: DATE:
ENG. BY: DATE:

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NEXT ASS'Y

AUTO CRANE COMPANY

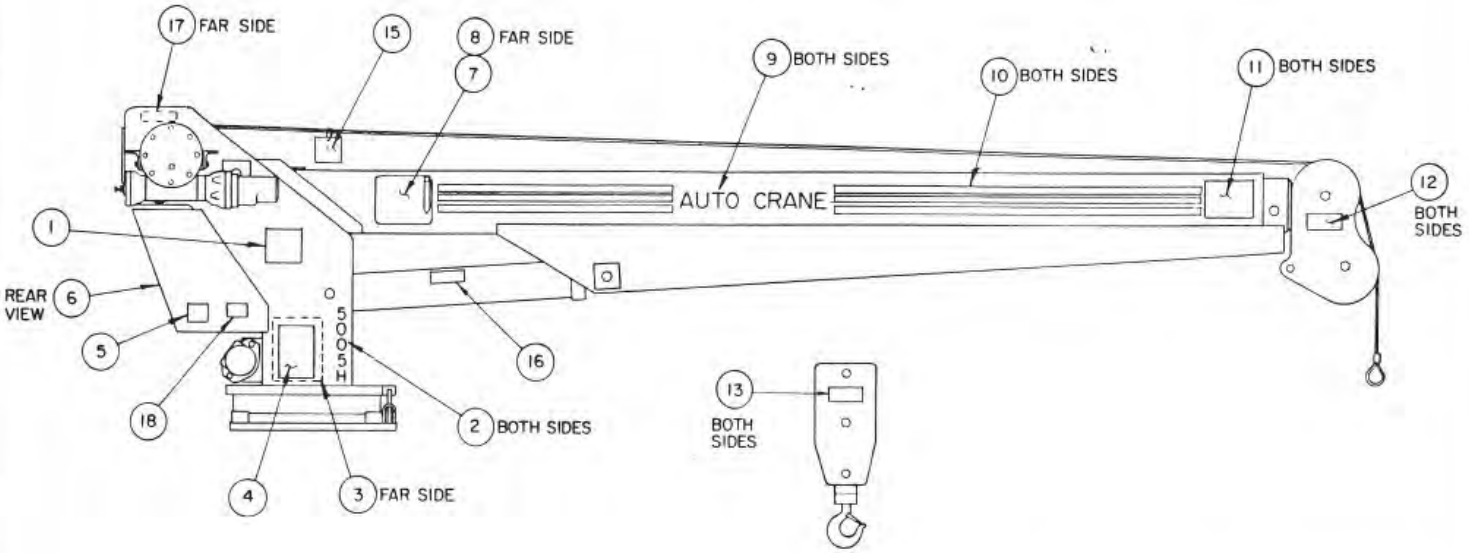
TITLE: 5005H DIMENSIONAL W/ SPEC'S

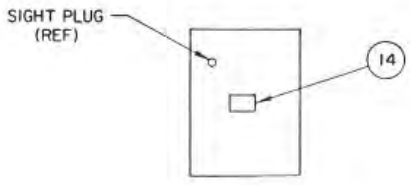
SCALE: ~ | SIZE: C | DRAWING NO.: ENG. 168 | REVISION:

WEIGHT: | SHEET 1 OF 1

FIXTURE NO.	FINISH NO.

CHG LTR	REVISIONS DESCRIPTION	DATE	APP'D





ITEM	QTY	PART NO.	DESCRIPTION
		LIST OF MATERIAL	

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED
ANGLES ± 1/2° | .XX ± .40
FRACTIONAL ± 1/16 | .XXX ± .010
REMOVE ALL BURRS AND SHARP EDGES. DO NOT SCALE THIS DRAWING.
TOLERANCES NOT SHOWN ABOVE ARE PER ANSI Y14.5, 1973

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NEXT ASS'Y

DRAWN BY: Elizabeth Kravik
DATE: 7-25-85
CHK'D BY
DATE
ENG. BY
DATE

AUTO CRANE COMPANY

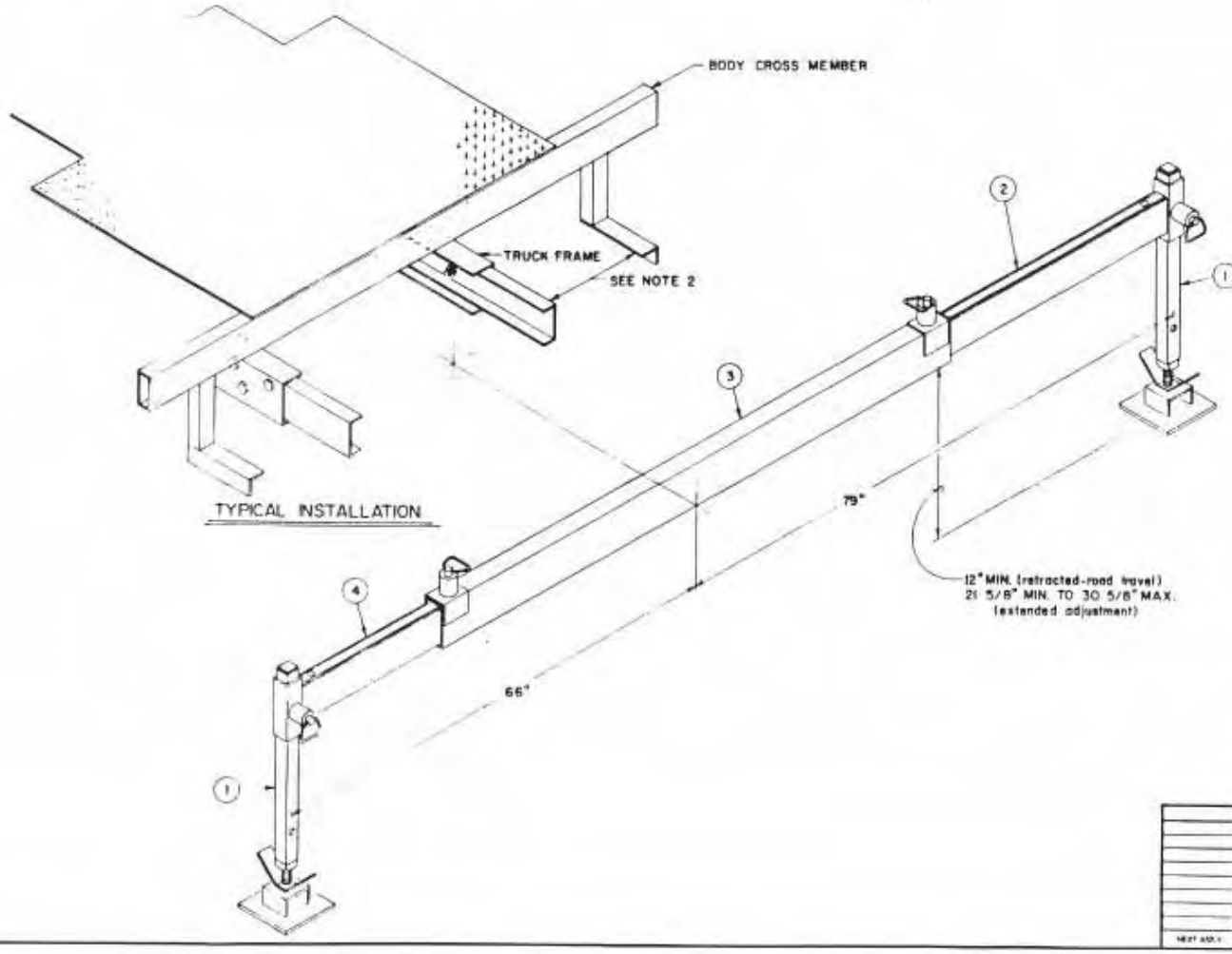
TITLE: DECAL LAYOUT - 5005H

SCALE	SIZE	DRAWING NO.	REVISION
~	C	AW-360552	

WEIGHT | SHEET ____ OF ____

DECAL LAYOUT 5005H - AW-360552

ITEM	QTY.	PART NO.	DESCRIPTION
1	1	040579	DECAL - WORK RULES
2	2	360033	DECAL - 3M - 5005H
3	1	360035	LOAD CHART
4	1	040580	DECAL - MUST NOT OPERATE UNLESS...
5	1	040632	DECAL - WARNINING CYCLS. INOP.
6	1	360034	DECAL - 3M - LOGO
7	1	360036	DECAL - ANGLE INDICATOR RIGHT
8	1	360037	DECAL - ANGLE INDICATOR LEFT
9	2	040624	DECAL - AUTO CRANE
10	13'	040620	STRIPING
11	2	040529	DECAL - WARNING - BOOM SHOCK
12	2	040517	DECAL - STAY CLEAR OF BOOM
13	2	040630	DECAL - STAY CLEAR OF LOAD
14	1	040633	CAUTION - 6 GPM...
15	1	999943	INST. CHECKLIST
16	1	040587	DECAL - LOAD SENSOR
17	1	330622	DECAL - SERIAL NO.
18	1	330633	DECAL - OPTI-FLOW



NOTES:

1. ADDITIONAL 3/4" HOLES MAY BE DRILLED IN THE LEG ASSEMBLIES FOR PROPER HEIGHTS. (DEPENDING ON INDIVIDUAL APPLICATIONS.)

2. WELD ITEM 3 TO FRAME EXTENSIONS AND CROSS MEMBER EXTENSIONS.

ITEM	QTY	DS	PART NO.	DESCRIPTION
1	4	C	360325	SOCKET / PULL PIN ASS'Y
1	3	C	360303	O.R. SOCKET / PULL PIN ASS'Y
1	2	C	360302	SOCKET / PULL PIN ASS'Y
2	1	C	360301	LEG ASS'Y

LIST OF MATERIAL

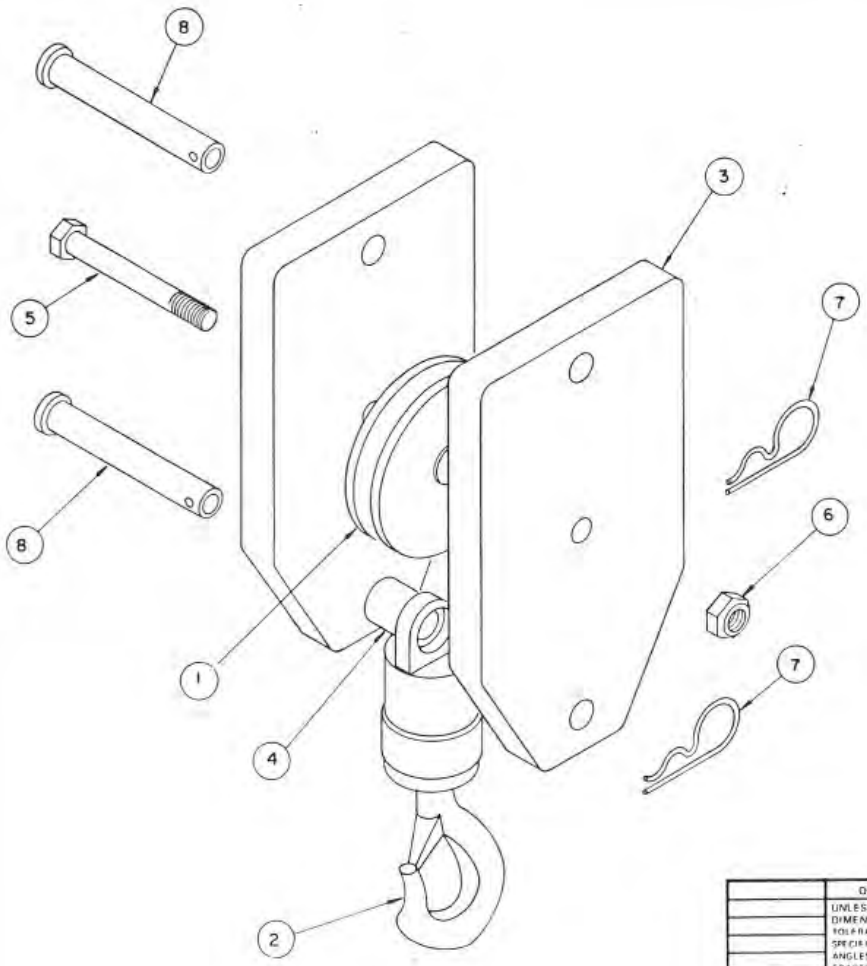
AUTO CRANE COMPANY

STABILIZER ASSEMBLY

SIZE D | DRAWING NO. AW-360300 | REVISION

FIXTURE NO.	FINISH NO.

CHG LTR	REVISIONS DESCRIPTION	DATE	APP'D



ITEM	QTY	PART NO.	DESCRIPTION
8	2	360605	PIN, BLOCK
7	2	360124	HITCH, PIN (HAIR PIN)
6	1	017800	NUT, HEX.-LOC 1/2 - 20
5	1	006801	SCREW, HX.-HD. 1/2 - 20 X 4" LG
4	1	240237	SPACER, BUSHING 1" O.D.
3	2	360601	BLOCK SIDE PLATE
2	1	200197	HOOK, SWIVEL
1	1	240236	SHEAVE ASSEMBLY

LIST OF MATERIAL

QUANTITY

NEXT ASS'Y

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED
ANGLES ± 1/2° | XX ± .40
FRACTIONAL ± 1/16 | XXX ± .010
REMOVE ALL BURRS AND SHARP EDGES DO NOT SCALE THIS DRAWING
TOLERANCES NOT SHOWN ABOVE ARE PER ANSI Y14.5 1973

DRAWN BY: K.D.
DATE: 6-24-86
CHK'D BY:
DATE:
ENG. BY:
DATE:

THIS PRINT IS THE PROPERTY OF AUTO CRANE CO. AND MUST NOT BE USED IN ANY MANNER DETRIMENTAL TO THEIR INTERESTS

AUTO CRANE COMPANY

TITLE: TRAVELING BLOCK ASSEMBLY 5005H

SCALE: - SIZE: C DRAWING NO. AW - 360602 REVISION

WEIGHT: SHEET 1 OF 1

AUTO CRANE COMPANY
P. O. BOX 581510 • TULSA, OKLAHOMA 74158

Limited Warranty

Auto Crane will warranty to consumer for a period of six months from date of purchase that each new Auto Crane product it sells will be free under normal use and service, from defects in material and workmanship. Date of purchase will be honored as either date of purchase by distrubutor or his date of sale of the product as substantiated by Distrubutor Delivery Report.

Obligation of Auto Crane under this warranty is limited to replacement or repair of parts that appear to manufacturer after review and/or inspection to be defective. This warranty does not obligate Auto Crane to bear the cost of labor or transportation charges in connection with the replacement or repair of defective parts. Responsibility for customer's claims arising from misapplication, abuse, misuse or alteration of equipment or parts lies with the distributor or user and no warranty obligation is assumed in these circumstances by Auto Crane.

Auto Crane will in no event be liable for any consequential damages or contingent liabilities arising out of the failure of any Auto Crane product or parts to operate properly.

Auto Crane makes no warranty in respect to component accessories, same being subject to the warranties of their respective manufacturers.

If field service, at the request of buyer, is rendered and fault is found not to be with Auto Crane's product, the buyer shall pay the time and expense of the field representative. Claims for service labor or other expenses that have been incurred by the buyer without approval or authorization of Auto Crane will not be accepted.

AUTO CRANE COMPANY IS UNDER NO OBLIGATION TO EXTEND THIS WARRANTY TO ANY CUSTOMER FOR WHICH AN AUTO CRANE WARRANTY REGISTRATION CARD HAS NOT BEEN COMPLETED AND MAILED TO AUTO CRANE COMPANY WITHIN FIFTEEN (15) DAYS AFTER DATE OF PURCHASE.