### TRUSS SCREED

# **SA12**



# **OPERATIONS MANUAL**

Manual Part #: 037819 | Revision: -Language: English | Original Instructions



### **LIMITED WARRANTY**

Allen Engineering Corporation warrants its products to be free of defects in material or workmanship for the following periods:

A. All New Machines and Part

B. All New Gear Boxes

C. All Factory Reconditioned Gear Boxes

6 Months

2 Years

1 Year

Warranty period begins on first day of use by End User. This first day of use is established by a completed warranty card or a Bill of Sale to the end user. All warranty is based on the following limited warranty terms and conditions.

- 1. Allen Engineering Corporation's obligation and liability under this warranty is limited to repairing or replacing parts if, after Allen's inspection, it is determined to be a defect in material or workmanship. Allen Engineering Corporation reserves the choice to repair or replace.
- 2. If Allen Engineering Corporation chooses to replace the part, it will be at no cost to the customer and will be made available to the Distributor/Dealer from whom the customer purchased the product.
- 3. Replacement or repair parts, installed in the product, are warranted only for the remainder of warranty period of the product as though they were the original parts.
- 4. Allen Engineering Corporation's warranty applies only to the products that are manufactured by Allen Engineering and does not cover component parts such as engines and clutches. Allen Engineering Corporation **DOES NOT** warranty clutches. Engine warranty claims should be made directly to an authorized factory service center for the particular engine make.
- 5. Allen Engineering Corporation's warranty does not cover the normal maintenance of products or its components (such as engine tune-ups and oil changes). The warranty also does not cover normal wear and tear items (such as belts and consumables).
- 6. Allen Engineering Corporation's warranty will be void if it is determined that the defect resulted from operator abuse, failure to perform normal maintenance on the product, modification to product, alterations or repairs made to the product without the written approval of Allen Engineering Corporation. Allen Engineering Corporation also excludes from warranty any failure of clutches on any engine driven piece of equipment.
- 7. If a new gear box has a factory defect within the first year of use, Allen Engineering Corporation will either repair the gear box or replace it with a new gear box. If a new gear box has a factory defect in the second year of use, Allen Engineering Corporation will either repair it or replace it with a factory reconditioned gear box. Impact damage is **NOT** covered under the gear box warranty.
- 8. Allen engineering Corporation will pay shop labor repair on warranty at the Allen Engineering Shop Labor Rate in existence on the date of the warranty claim. An Allen Engineering Labor Chart will determine the time allowed to complete a repair and will govern the shop labor hours that will be allowed.
- 9. Allen Engineering Corporation will pay freight on warranty replacement parts at Worldwide standard ground rates. No warranty replacement parts will be shipped air freight at the expense of Allen Engineering Corporation. Allen Engineering only pays outbound freight charges when sending warranty replacement parts to the customer VIA ground service. Allen Engineering does not pay any inbound freight, however, if Allen Engineering determines this to be warranty defect only then will Allen Engineering reimburse the customer for inbound freight at standard ground rates.
- 10. Allen Engineering Corporation's warranty policy **WILL NOT COVER** the following; taxes, shop supplies, environmental surcharges, air freight, travel time, loss of rental revenue, or any other charges whatsoever or any liabilities for direct, incidental, or consequential damage or delay.
- 11. Allen Engineering Corporation makes no other warranty, expressed or implied. This limited warranty is in lieu of the warranty of merchantability and fitness. There are no other warranties that extend beyond the description on this document.
- 12. No Allen Engineering Corporation employee or representative is authorized to change this warranty in any way or grant any other warranty unless such change is made in writing and signed by an officer of Allen Engineering

# STEEL TRUSS

# AIR POWERED SCREED

# <u>O P E R A T I O N S</u> MANUAL

NOTE: THIS MANUAL IS BROKEN UP INTO THE FOLLOWING PARTS

OPERATIONS SECTION 1

PARTS SECTION 2

MODELS - 12SX 12HD 12SHD

# OPERATIONS • TABLE OF CONTENTS •

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# • INFORMATION CONTAINED IN THIS MANUAL •



The information contained in this manual provides important procedures to safely operate and maintain your air powered screed. The steps that are illustrated in this manual must be followed otherwise the life of the machine could be greatly shortened due to operator neglect. Remember that a machine that is well taken care of will provide many years of trouble free operation.

For your own protection and safety, always adhere to the safety warnings and notes that are pointed out in this manual. Disregard to these instructions could lead to personal injury or possibly even death.

### ORDERING PARTS

This manual contains an illustrated parts list to help you in ordering replacement parts for your air powered screed. Follow the instructions below carefully when ordering parts to insure that you get the exact parts that you are wanting.

- All orders for service parts include a serial number. Shipment of your parts will be delayed if this
  information is not available when you call Allen Engineering Customer Service.
- Include the description and correct part number from Section 2, as well as, the quantity needed.
- For prompt and accurate shipments, specify exact shipping instructions, including preferred routing and complete destination address.
- DO NOT return parts to Allen Engineering without receiving written authorization from Allen Engineering Corporation. All authorized returns must be shipped pre-paid.

When placing an order, contact your nearest Allen Engineering Distributor or call Customer Service at 800-643-0095 or 870-236-7751.

THIS MANUAL COVERS TRUSS SCREED STARTING WITH THE FOLLOWING SERIAL NUMBERS: 2' - HED820818. 2-1/2' -



**USA** 

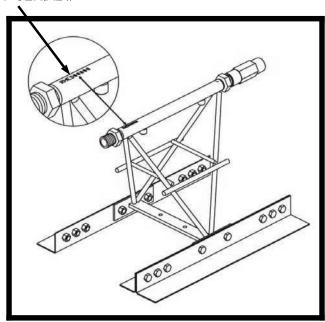
WHEN ORDERING ADDITIONAL COPIES OF THIS MANUAL, PLEASE SPECIFY THE PART NUMBER BELOW.

037819

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### SERIAL NUMBER LOCATION •

LOCATION OF SERIAL #



### INFORMATION ON SERIAL NUMBER

### **SAMPLE # - HED82243**

**HED** = MODEL

8 = LAST DIGIT OF PRESENT YEAR

**2**, **3**, **5**, **7** = SIZE OF TRUSS ASSEMBLY

2 = MONTH OF PRESENT YEAR

**43** = SEQUENCE NUMBER OF SECTION BUILT IN PRESENT MONTH

NOTE: EVERY SECTION THAT LEAVES ALLEN ENGINEERING HAS A SERIAL NUMBER STAMPED ON THE RIGHT HAND SIDE OF THE TRUSS TOP PIPE. WHEN ORDERING PARTS, YOU WILL BE ASKED FOR THIS SERIAL NUMBER. MAKE NOTE OF ALL YOUR SECTION SERIAL NUMBERS FOR FUTURE REFERENCE.

FILL OUT SERIAL #'S HERE FOR FUTURE REFERENCE	

## DISTRIBUTOR INFORMATION •



PLACE DISTRIBUTOR INFORMATION DISTRIBUTOR NAME: ADDRESS:	E DISTRIBUTOR INFORMATION HERE FOR FUTURE REFEREN R NAME:PHONE #:							NCE	
CITY:			S	TAT	 E:			ZIP:	
	S	<b>A</b>	L	Ε	S	M	A	:	
ADDITIONAL COMMENTS:									

### SAFETY NOTATIONS

NOTE: Throughout this manual, there are **NOTES**, **CAUTIONS**, and **WARNINGS** which must be followed to reduce the possibility of improper service damage to the equipment or personal injury.

- **NOTE** Contains additional information important to a procedure.
- **CAUTION** Provides information important to prevent errors which could damage the machine.



### OPERATING SAFETY

Familiarity and proper training are required for the safe operation of this equipment. Equipment operated improperly or by untrained personnel can damage equipment and could be dangerous. Read the operating instructions contained in both this manual to familiarize yourself with the location and proper use of all the controls.

**DO NOT** operate this machine until you have read the operating and safety instructions. Operate the machine in accordance with the manufacturer's instructions.

**ALWAYS** inspect your screed upon arrival for damage or tampering that can sometimes occur during shipping. If damage is found, file a claim with your carrier <u>immediately!!</u> Mark freight bill of lading as "damaged shipment".

**NEVER** allow untrained personnel to operate your air powered screed. Individuals who operate this screed should have adequate training in operating procedures.

**DO NOT** attempt to fill hydraulic(winch) tanks while machine is running.

**NEVER** use over-the-counter hardware to replace manufacturers hardware. Contact your nearest Allen Engineering dealer or our Customer Service department.

**HAZARD:** When operating machines with gas engines in confined areas, the fumes <u>must</u> be ventilated. Improper ventilation could lead to serious health problems or even death.

**ALWAYS** be aware of *HOT* components on this machine, such as, hydraulic components.



### SERVICE SAFETY



**DO NOT** attempt to clean or service screed while machine is running.

**DO NOT** use gasoline, other fuels, or any flammable solvent to clean parts, especially in enclosed areas. Fumes from fuels and solvents can cause serious health problems if you are exposed to them over an extended period of time.

**ALWAYS** disconnect spark plug before servicing engine to prevent accidental start-up.

**ALWAYS** wear adequate hearing protection while running your air powered screed.

### SOUND & VIBRATION ANALYSIS •

AVERAGE EQUIVALENT SOUND PRESSURE LEVEL	SOUND PRESSURE LEVEL AT OPERATOR'S EAR	EQUIVALENT SOUND POWER LEVEL
110dB(A)	106dB(A)	126dB(A)

The information above was acquired through vibration and sound analysis taken here at AEC. We brought in a certified sound and vibration technician to test several of our products. All of the data collected was measured according to OSHA standards ISO 3744. If there are any questions on this particular subject, contact AEC Customer Service at 870-236-7751 or 800-643-0095.





## DIMENSIONAL PICTORIALS

The dimensions of the air powered screed in this manual are illustrated on this page. The height and width are in Figure 1 and the lengths of the different screed sections available are illustrated in Figure 2.

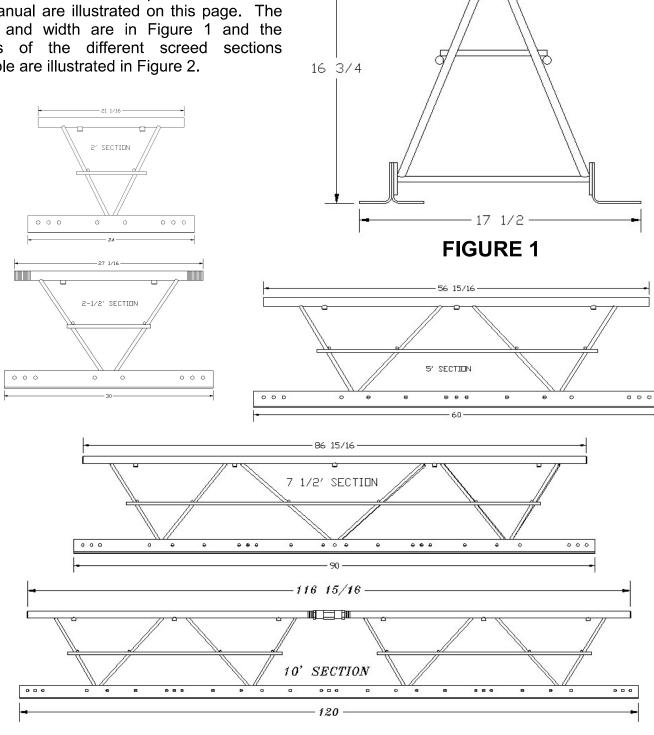


FIGURE 2

### • TECHNICAL DATA •



### SPECIFICATIONS ON AIR POWERED SCREED:

MODEL	TRUSS BLADES	10' lbs/kg	7 1/2' lbs/kg	5' lbs/kg	2 1/2' lbs/kg	2' Ibs/kg	MAXIMUM WIDTHS
12SX	12 GA. GALV. STEEL	140/64	104/47	70/32	36/16	28/13	55'
12HD	10 GA. GALV. STEEL	186/84	138/63	93/42	47/21	37/17	65'
12SHD	10 GA. STAINLESS	186/84	138/63	93/42	47/21	37/17	75'

- Top Pipe Coupling System Fine Thread Adjustment 1 5/16-16tpi with Full Flow 1" Non-Restricting Air System with Dual Locking Jam Nuts.
- Vibration Proof Welds with Exclusive Vibration-Dampening System.
- Bolt-On Blades with Quick Connecting Splice Plates Front and Back at each Truss Section using 1/2-13 Nuts and Bolts Throughout.
- Balanced Design Truss Height to Overall Base Width Provides Equilateral Triangle Strength for Obtaining Precise Grade Control and Structure Integrity.
- Top Pipe Coupling System Provides for Crowned or Invert Slab Section without loosening Bottom Splice Blade Bolts. Special Crowns or Inverts are obtainable with Ball Joint Top Pipe Coupler or Crown Invert Bracket. Crowns greater than 1/8"/ft are considered special.
- NOTE: Select Screed Width to Allow Minimum Overhangs Past Forms; 6" Overhangs are Ideal,

MODEL	1. SINGLE	2. DUAL	VIBRATORS PER SECTION			
	VIBRATORS	VIBRATORS	7-1/2'	5'	2'	
12SX	✓		3	2	1	
12HD		✓	5	3	2	
12SHD		✓	5	3	2	

- 1. SINGLE VIBRATORS 30" centers alternating front to back.
- 2. DUAL VIBRATORS 30" centers front and back.
- VIBRATORS Naval Bronze Piston Pneumatic Vibrator. Rebuildable, Rust-Resistant, One Moving Part, Fatigue Proof Air Fitting. Weight 2.42#. Piston is 1" Diameter with Unbalanced travel. Air Consumption 4.0 CFM at 60 PSI. Vibrations Per Minute, 9500 at 60 PSI.
- Exclusive 3 Bolt Attaching Bracket using High Strength Fine Thread Double Nut Vibrator Bolt with 2 each 1/2" Bracket Bolts.
- Vibratory Supply Air Supply 200 PSI with Push Lock Fittings.
- Full Flow 1" Air Flow System Includes Air Connecting Hose to Screed, Off/On Valve Also used as Volume Flow Valve, Air Gauge, In-line 1" Mist Lubricator Provides Adjustable Lubrication. Top Dome Sight Drip Glass, Fill Cap, 1 Quart Capacity Steel Body with Sight Glass for Lubrication Oil.
- Lubrication Mist Lube NR88 or Allen Air Lube; Aft Dextron II is Allowable for Intermittent Use.

# OPERATIONS SECTION 1

### BEFORE STARTING •

Before starting the air powered screed, there are a few items that need to be looked over.

- Make sure that bolts are secure and will not vibrate loose.
- Check jam nuts on top pipe to ensure that they are tight against the top pipe coupler.
- Check the hydraulic level in the tank for the hydraulic winches (if applicable).
- Check winch cables to make sure that they will not loosen during the screed run.
- Look over the forms to check for unevenness so that the screed will not hang up.

Ask yourselves these questions when preparing your screed for a job.

- What is the "exact" pour width?
- What is the slump?
- Is the slab flat, crowned, or inverted?
- What is the required surface tolerance?
- Choose screed type and size based on the above information.
- Are any accessories required?
- Do the winches work properly?

### OPERATING •

Operating your air powered screed correctly will greatly produce the outcome of the pour. Follow the instructions below to operate your screed correctly and you will be very pleased with your equipment.

### THE JOB SITE:

#### **FORMS**

- Are they stable?
- Will they support the weight of the screed?
- Have the form pins been driven below the top of the forms?
- Can the screed pass from form to form without getting caught?

#### **COLUMNS & WALLS**

- Screed size is important.
- How will you go through the columns?
- Consider the use of HD winches & 6" extension handles.
- What do you do when your up against a wall?
   a) wall bracket b) pipe rail c) form

#### **CONCRETE**

- Are there any mix characteristics or additives that effect the performance of the screed?
- Will the supply of concrete be steady or intermittent?
- Be aware of the importance of WEATHER!

### **THE CREW**

- Two key people should be trained to operate the screed.
- The screed is a finishing machine, there is a technique to it's operation. The TRAVEL SPEED, the VIBRATORY FREQUENCY, and the FEEDING of the screed must all be controlled.
- Knowing how the winches operate before you start is essential.
- To what do you hook the cables, and when do you move them?
- Pay attention to safety with the cables.

## PERIODIC MAINTENANCE SCHEDULE



The following information contains the maintenance and operations procedures that must be adhered to improve the life of your machine. A well maintained piece of machinery will provide you years of satisfaction.

- Use Loctite anti-seize MIL A 907D to lubricate the top pipe coupler threads before assembly.
- Oil winch bushings at 10 hr. operation intervals. Use light lubricating oil.
- CAUTION! Change worn or frayed cables cables under tension may snap and cause severe injury. Use proper methods illustrated in this manual to properly attach cables. Always connect cables properly - wrap cable under last form pin then connect cable hook to the next form pin towards the screed.
- DO NOT hook cables to a stake driven into the ground, the stake can tilt and allow cable under tension to snap back and cause severe injury.
- CAUTION! For screeds over 75 ft. in length consult the factory.
- Check your screed for loose bolts and nuts approximately every 30 to 45 days.
- Make sure that all the vibrator nuts and bolts and also the nuts on top of the vibrators themselves
  are still tight, because these can and occasionally do loosen through vibration.
- Always check the air hoses to make sure that none of them have been broken or severed somehow. Usually this is done by a shovel or come-along during the pour.
- It is almost impossible to get dirt or grit into the vibrators, but if this should happen, wash the vibrator out promptly with a cleaner. To clean the vibrator, remove it from the machine and replace it with a spare one. Remove the top nut and also the piston. Clean the vibrator with a vibrator cleaner and wipe it dry with a clean cloth. Oil the piston, place it back into the barrel and tighten the top nut. Tighten the top nut until you see the nut dig into the brass on the barrel section. Now your vibrator is ready for re-use.
- To provide proper air supply should be dry and contamination free. Clean dry air will provide trouble free vibrator operation.
- If the air compressor is fitted with an air dryer, the moisture content of the air supply will be reduced. The reduction should be less than 10%. This will enable Allen's A88/NR oil to absorb the remainder of the moisture in the air stream. If the air stream is not dry, the moisture will combine with the vibrator lubricant to form a sticky sludge. This results in vibrators slowing down or in cold weather, not working.



# OPERATIONS SECTION 1

### LIFTING PROCEDURES

The following procedures describe proper lifting techniques for screed. There is no OSHA standard weight limit for manual lifting. Therefore, rather than stating a regulated limit, they ask that employers or contractors do the following:

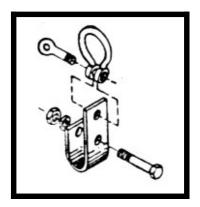
- A) Identify each hazard to which a person at the work place (jobsite) is likely to be exposed to
- B) Assess the risk of injury or harm to a person resulting from each hazard
- C) Consider the means by which the risk may be reduced.

NOTE: Never lift more than what you personally feel that you can handle.

The lifting handles at each end of the screed are not intended to be used as the only source to lift the screed. It is quite obvious that two large men will not be able to lift 70 feet of screed. The following list of maximum screed lengths is very important so that the length of your screed will not be too long.

SX SCREED - MAXIMUM 55 FEET HD SCREED - MAXIMUM 65 FEET SHD SCREED - MAXIMUM 75 FEET

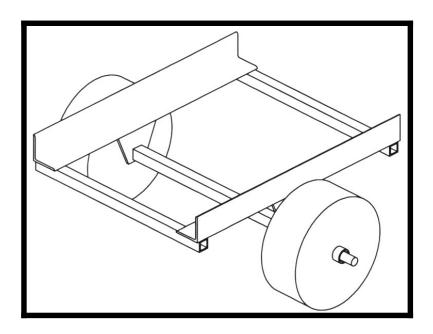
For proper lifting of an average screed (30 ft.), the screed lifting hook is an ideal item to use. This instrument should be placed at equal distances from each end. A special lifting bridle is then used by a forklift, crane, front-end loader, etc. to raise and transport the screed. Also available from Allen Engineering is the screed cart. This item is used to move the screed around on the job site only.



LIFTING HOOK PART # 532000

STANDARD SCREED CART MAXIMUM 500 lbs. - 543000

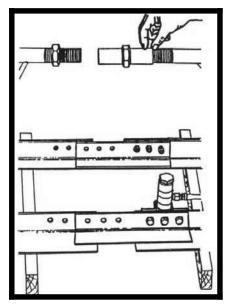
HEAVY DUTY SCREED CART MAXIMUM 1,000 lbs. - 543001



### SECTION ASSEMBLY



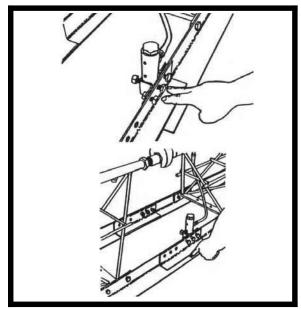
The following figures describe the proper instructions for correctly assembling air powered screed. Make sure that you follow the instructions in order. If the assembling of your screed is not done in this order, there could be some problems in trying to maintain floor flatness because your screed is not level. Levelness of your screed is critical!



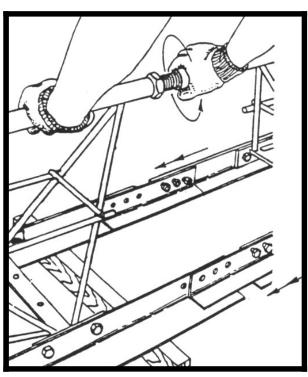
**STEP 1**: Screw jam nuts onto top pipe. Start the top pipe coupler onto the top pipe of the mating truss section. Only thread the coupler on about three turns.

**NOTE**: The right and left hand jam nuts will already be installed on the screed section.

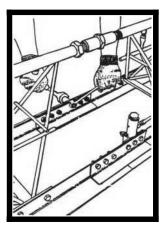
TIGHTEN JAM NUTS AFTER SCREED IS LEVEL



**STEP 3:** Vibrator mounting bolts should be loose so that the splice plate can move in the clearance holes. With a 15" adjustable wrench, turn top pipe coupler until screed and bullfloat blades contact. Then back coupler off slightly so the blades touch without tension.



**STEP 2:** Slide screed sections together until top pipe threads on screed marked "R" line up with threads in coupler on the screed. Start coupler on adjoining threads by hand to prevent cross threading.



**STEP 4:** Secure the sections together by assembling the remaining 6 bolts and nuts, tighten them firmly. Continue joining sections together in this manner until you have all the sections assembled. Now you are ready to stringline your screed. See PAGE S1-15.

# OPERATIONS SECTION 1

### LUBRICATOR OPERATION •

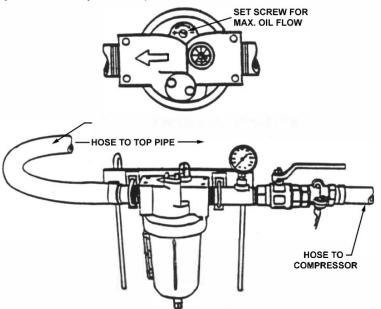
The following illustrations explain the location and operation of the air lubrication system on air powered screeds. Follow instructions carefully to prevent mistakes that could cause problems in the air flow which could then destroy the vibrators.

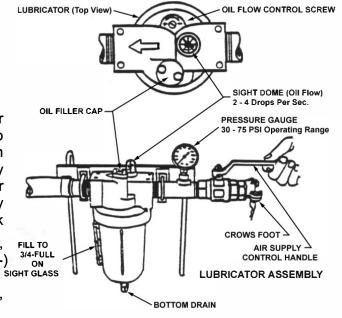
Oil must be added to the lubricator prior to operation. Remove the oil filler cap, fill the lubricator 3/4 full with:

Pneumatic lubricating oil should be a IOW, non-detergent mineral oil rated for pneumatic tools. [This oil can be purchased from McMaster Carr under Air Tool Oil. May also be found in big box stores.]

Replace filler cap and tighten securely. Connect air supply hose from compressor to crows foot, attached to lubricator. For safety, always install hair pins when completing crows foot connections. Turn air supply control handle to open position. Start compressor. After the machine vibrators are running, turn the air supply down slowly to operating pressure (30 - 75 PSI), check

sight dome for proper oil flow (2 - 4 drops per second), turn screw counter-clockwise (+) for more oil, clockwise (-) for less oil. Do not turn screw too far in or out, this will shut off the oil completely. When oil flow is properly set, you are ready for the pour.





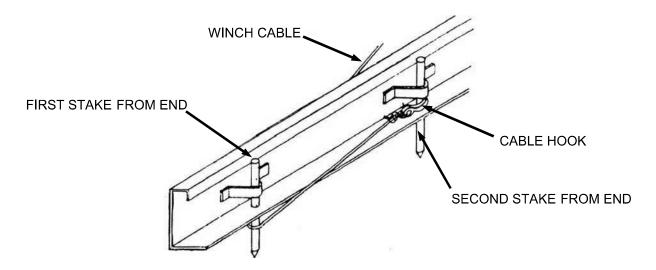
#### TO START UP NEW MACHINE:

- Make sure tape on all vibrators exhaust ports is removed.
- Run screed with bursts of air, at intervals, until all vibrators are lubricating. You will see an air oil mist coming from the vibrators. Hold your hand at the exhaust ports. This mist should feel oily.
- Run vibrators 2 3 minutes at a time, up and down in pressure, for a total of 15 minutes.
   This will seat the piston to the barrel inside the vibrator.

## ATTACHING WINCHES TO FORM STAKES



The figure below illustrates the proper way to attach the winch cables to the form stakes. This is the only way that the cables should be attached. If the cables are not attached properly, the cables could snap loose causing severe injury to finishing personnel surrounding the screed.



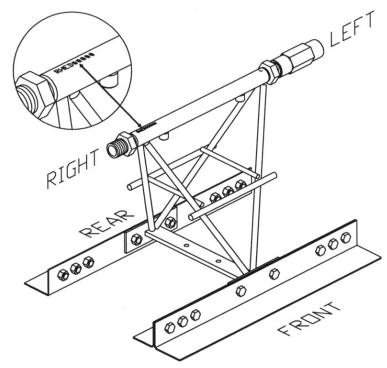
## DETERMINING LEFT AND RIGHT OF

The following illustration shows all the key information on how to determine the left and right

and the front and rear of a screed section.

Note the circle with the serial number.

This is probably the easiest way to determine the left and right sides of the screed assembly. The right side has the model number and the a 5-digit serial number. The left hand side is only stamped with an "L". Also the front of the screed is determined by the two screed blades mounted back-to-back. The rear of



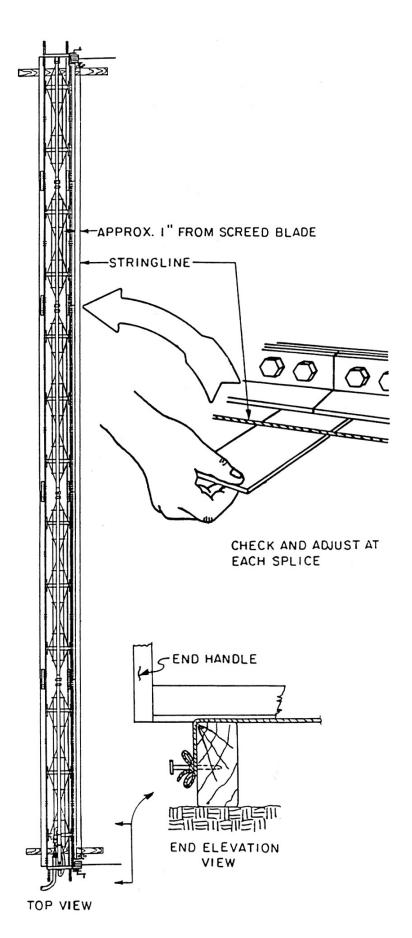
# OPERATIONS SECTION 1

## STRING LINING •

To string line your screed, there are a few important steps that need to be followed.

- Place screed ends on a 2 x 6 or other wooden type support.
- At approximately 1" out from the leading edge of the screed blade, drive a nail into the wooden support. NOTE: Nail should be on the outside of the wooden support.
- Stretch a line as tight as possible from nail to nail. Make sure that the nail is contacting each support at the point of blade contact.
- NOTE: The supports do not have to be on the same level.
- Use a short, flat piece of metal or wood as a gauge block to compare the string to the bottom surface of the screed blade and bullfloat blade.
- The blades should be equal to each other at each splice. If they are not even, loosen jam nuts and tighten top pipe coupler as described on page S1-12.

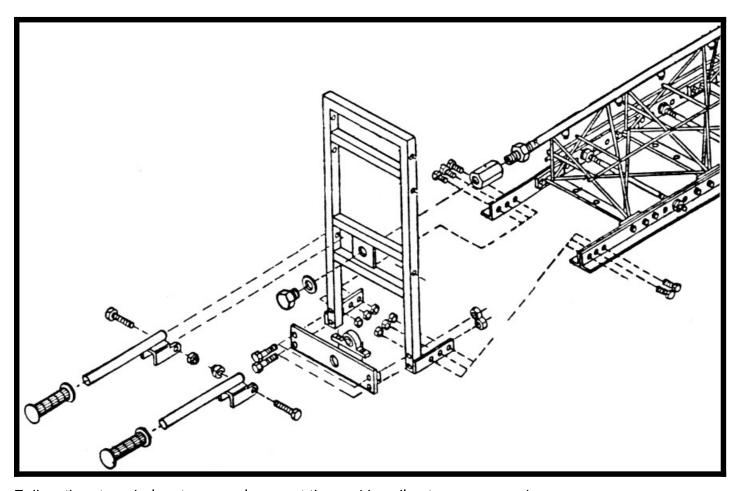
NOTE: Always string line your



### END HANDLE ASSEMBLY



The following figure shows the proper way to mount a standard end handle to the screed section. Do not try to modify this mounting procedure, this is the only way to mount the end handles where they will work properly.

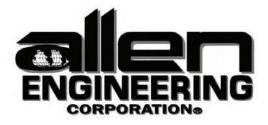


Follow the steps below to properly mount the end handles to your screed.

- Mount the bearing onto the bearing support bracket.
- Mount the handle grips onto the lifting handles.
- Mount the lifting handles onto the end handle using two 3/8 x 2 bolts and 3/8 nylon lock nuts.
- Mount the bearing support bracket to the end handle using four 1/4 x 1 1/2 bolts and 1/4 stover nuts.
- Mount the end handle to the screed using three 1/2 x 3/4 bolts, three 1/2 x 1 bolts and six 1/2 hex nuts. Screw the appropriate adaptor for the end you are working on onto the top pipe. Next, using

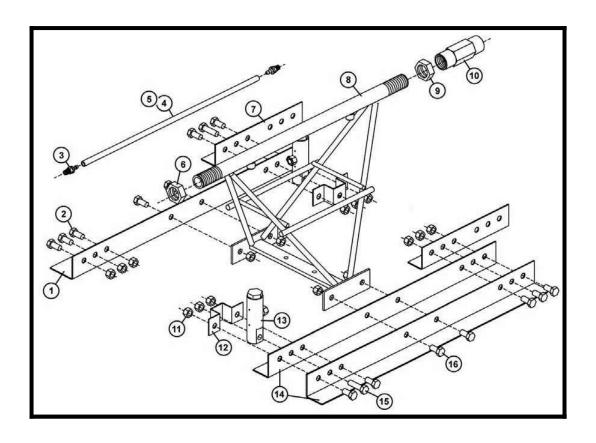
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# PARTS SECTION 2

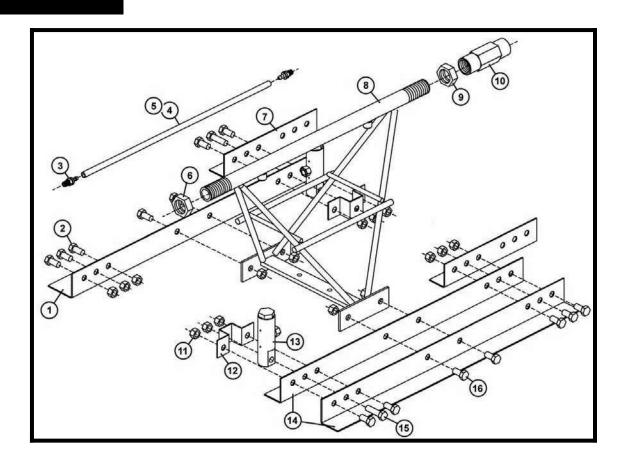
# • ASSEMBLY 2' SECTION •



	PART #	DESCRIPTION	λΤλ.
1.		2' BULLFLOAT BLADE 12 GA	. 1
	010173	2' BULLFLOAT BLADE 12HD	· 1
	022425	2' BULLFLOAT BLADE 10 GA. SS	. 1
2.	010066	BOLT, 1/2-13 x 3/4	· 8
3.	010193	FITTING, MALE PUSHLOK 1/4 x 1/4-18	· 2
4.	013391	HOSE, 1/4" PUSHLOK	2.5
5.	132000	HD AIR HOSE ASSEMBLY	· 2
6.	108000	NUT, JAM R	. 2
7.	106000	PLATE, SPLICE 12 GA	. 2
	106001	PLATE, SPLICE 10 GA	· 2
	022430	PLATE, SPLICE 10 GA. SS	· 2
8.	016564	TRUSS, 2' HED WELDMENT	· 1
9.	108001	NUT, JAM LH	· 1
10.		TOP PIPE COUPLER	
11.		NUT, HEX 1/2-13	
12.	020053	BRACKET, BRASS VIBRATOR MOUNT	· 2
13.		BRASS VIBRATOR ASSEMBLY	_
14.	152000	2' SCREED BLADE 12 GA	- 2
	· · · · · · –	2' SCREED BLADE 10 GA	_
	022422	2' SCREED BLADE 10 GA. SS	· 2
15.	011489	BOLT, 1/2-20 x 3" GRADE 8 (HD & SHD ONLY)	. 2
	025413	BOLT, 1/2-20 x 2-3/4" GRADE 8 (SX ONLY)	· 2
16.	010067	BOLT, 1/2-13 x 1"	. 7

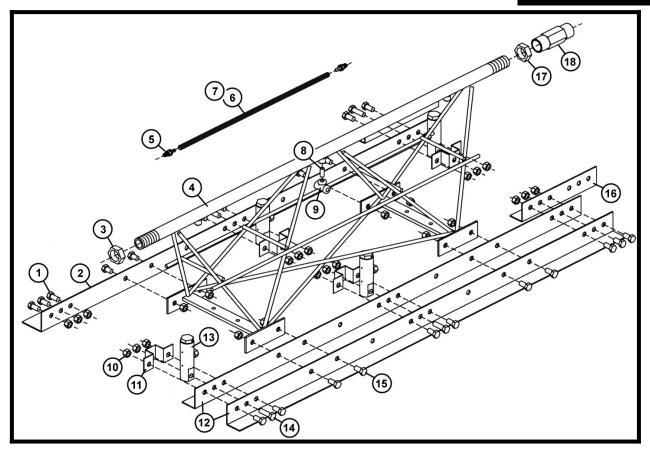
# PARTS SECTION 2

# • ASSEMBLY 2-1/2' SECTION •



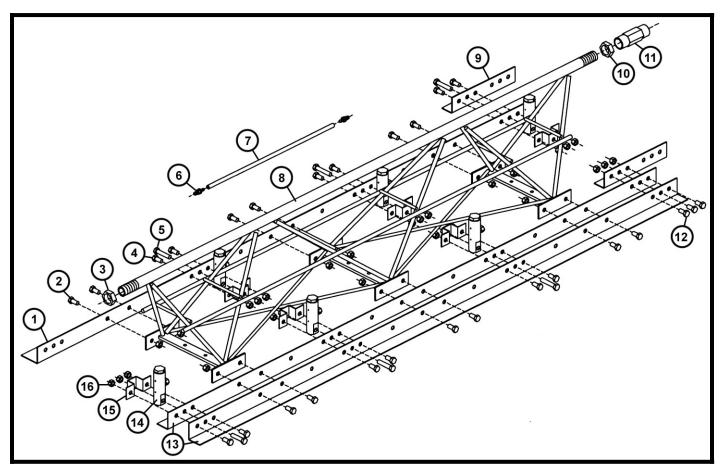
	PART #	DESCRIPTIONQTY.
1.	028744	2-1/2' BULLFLOAT BLADE 12 GA 1
	028702	2-1/2' BULLFLOAT BLADE 12HD 1
	028746	2-1/2' BULLFLOAT BLADE 10 GA. SS1
2.	010066	BOLT, 1/2-13 x 3/48
3.	010193	FITTING, MALE PUSHLOK 1/4 x 1/4-182
4.	013391	HOSE, 1/4" PUSHLOK2.5
5.		HD AIR HOSE ASSEMBLY2
6.	108000	NUT, JAM R 2
7.	106000	PLATE, SPLICE 12 GA2
8.	028700	TRUSS, 2-1/2' HED WELDMENT 1
9.	108001	NUT, JAM LH
10.	107000	TOP PIPE COUPLER 1
11.	010106	NUT, HEX 1/2-13 15
12.	020053	BRACKET, BRASS VIBRATOR MOUNT2
13.	111000	BRASS VIBRATOR ASSEMBLY2
14.	028743	2-1/2' SCREED BLADE 12 GA2
	028701	2-1/2' SCREED BLADE 10 GA2
	028745	2-1/2' SCREED BLADE 10 GA. SS2
15.		BOLT, 1/2-20 x 3" GRADE 8 (HD & SHD ONLY) 2
	025413	BOLT, 1/2-20 x 2-3/4" GRADE 8 (SX ONLY) 2
16.	010067	BOLT, 1/2-13 x 1"7

# • ASSEMBLY 5' SECTION •



	PART #	DESCRIPTION	QTY.
1.	010066	BOLT, 1/2-13 x 3/4	-17
2.		5' BULLFLOAT BLADE 12 GA	
	105001	5' BULLFLOAT BLADE 10 GA	-1
	022424	5' BULLFLOAT BLADE 10 GA, SS	-1
3.	108000	NUT, JAM RH	-1
4.	016565	TRUSS, 5' WELDMENT	-1
5.		FITTING, MALE PUSHLOK 1/4 x 1/4-18	
6.		HOSE, PUSHLOK 1/4"	
7.	132000	HD AIR HOSE ASSEMBLY	-4
8.		NIPPLE, 1/4" NPT BI CLOSE	
9		TEE. 1/4" NPT GALVANIZED	
10		NUT, 1/2 <b>-</b> 13	
11.		BRACKET, BRASS VIBRATOR MOUNT	
12.		5' SCREED BLADE 12 GA	
		5' SCREED BLADE 10 GA	
		5' SCREED BLADE 10 GA. SS	
13.		BRASS VIBRATOR ASSEMBLY	_
		BOLT, 1/2-20 x 2-3/4" GRADE 8 (SX ONLY)	
		BOLT, 1/2-20 x 3" GRADE 8 (HD & SHD)	
15	010067	BOLT, 1/2-13 x 1"	-9
		PLATE, SPLICE 12 GA	
		PLATE, SPLICE 10 GA	
		PLATE. SPLICE 10 GA. SS	
17.		NUT, JAM LH	
18		TOP PIPE COUPLER	

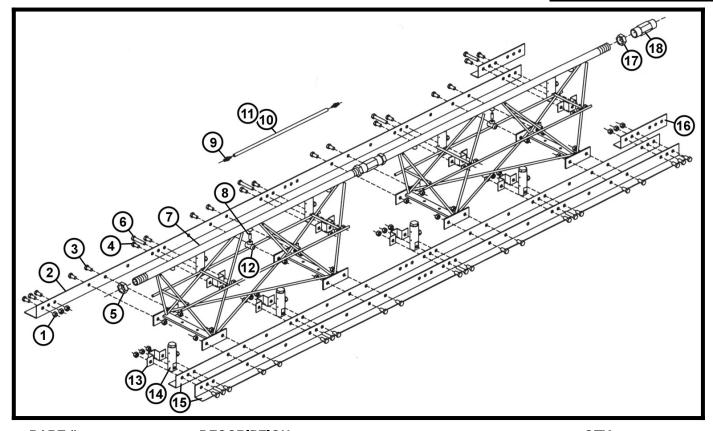
# • ASSEMBLY 7-1/2' SECTION •



	PART #	DESCRIPTIONQTY.	
1.	104000	7-1/2' BULLFLOAT BLADE 12 GA 1	
	104001	7-1/2' BULLFLOAT BLADE 10 GA 1	
	022423	7-1/2' BULLFLOAT BLADE 10 GA. SS 1	
2.	010067	BOLT, 1/2-13 x 1 19	
3.		NUT, JAM RH 1	
4.		BOLT. 1/2-13 x 1-1/47	
5.	011488	BOLT, 1/2-20 x 2-1/2 GRADE 82	
6.		FITTING, PUSHLOK MALE 1/4 x 1/4-182	
7.		HOSE, PUSHLOK 1/4" 2.5	
		HD AIR HOSE ASSEMBLY6	
8.		TRUSS, 7-1/2' HED WELDMENT 1	
9.		PLATE, SPLICE 12 GA2	
		PLATE, SPLICE 10 GA2	
		PLATE, SPLICE 10 GA. SS2	
10.		NUT, JAM LH 1	
		TOP PIPE COUPLER 1	
		BOLT, 1/2-13 x 1-1/46	
		7-1/2' SCREED BLADE 12 GA2	
	102001	7-1/2' SCREED BLADE 10 GA2	
	022420	7-1/2' SCREED BLADE 10 GA. SS2	
14.		VIBRATOR BRASS ASSEMBLY 6	
		BRACKET, BRASS VIBRATOR MOUNT6	
		NUT, 1/2-13 33	
		NUT, 1/2-20 6	
		,	

# PARTS SECTION 2

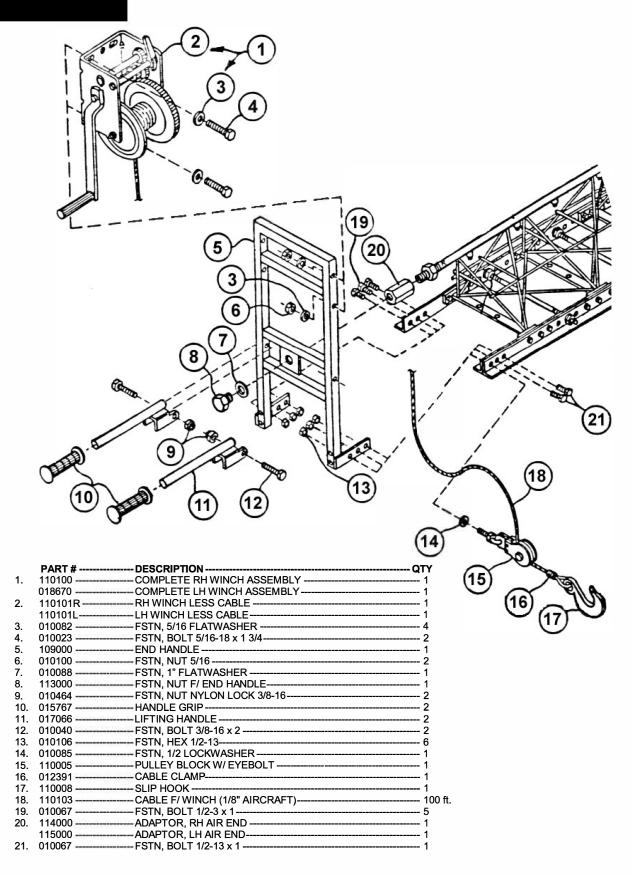
# • ASSEMBLY 10' SECTION •



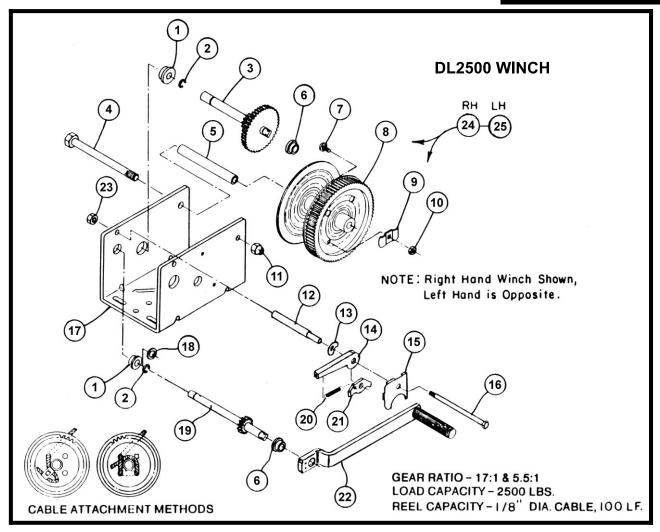
	PART #	DESCRIPTION	QTY.
1.	010106	NUT, 1/2-13 HEX	44
	010107	NUT, 1/2-20 HEX	8
2.	032139	10' BULLFLOAT BLADE 12 GA	1
	032141	10' BULLFLOAT BLADE 10 GA	1
	025994	10' BULLFLOAT BLADE 10 GA. SS	1
3.	010068	BOLT, 1/2-13 x 1-1/4	14
4.	010067	BOLT, 1/2-13 x 1	30
5.		NUT, JAM RH	
6.	011488	BOLT, 1/2-20 x 2-1/2	2
7.	016565	TRUSS 5' WELDMENT	2
8.	012393	NIPPLE, 1/4" NPT BI CLOSE	2
9.	010193	FITTING, PUSHLOK MALE 1/4 x 1/4-18	2
10.	013391	HOSE, 1/4 PUSHLOK	2.5'
11.	132000	HD AIR HOSE ASSEMBLY	8
12.	010318	TEE, 1/4" NPT GALVANIZED	2
13.	020053	BRACKET, BRASS VIBRATOR MOUNT	8
14.	111000	VIBRATOR BRASS ASSEMBLY	8
15.	032140	10' SCREED BLADE 12 GA	2
	032138	10' SCREED BLADE 10 GA	2
	025993	10' SCREED BLADE 10 GA. SS	2
16.	106000	PLATE, SPLICE 12 GA	2
	106001	PLATE, SPLICE 10 GA	2
	022430	PLATE, SPLICE 10 GA. SS	2
17.	108001	NUT, JAM LH	1
18.	107000	TOP PIPE COUPLER	1

# PARTS SECTION 2

### END HANDLE ASSEMBLY



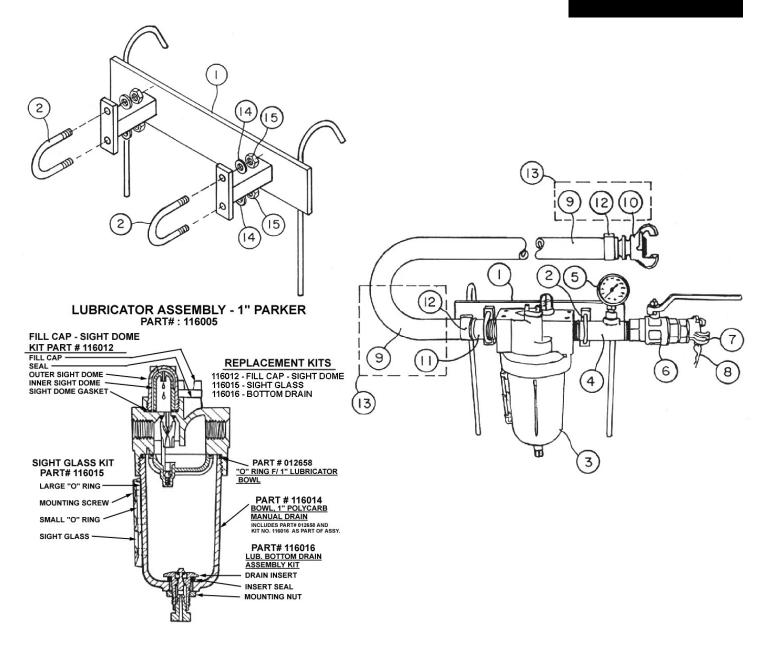
## • WINCH ASSEMBLY •



		DESCRIPTIONQTY
1.	250002	BUSHING2
2.	250003	E-RING2
3.		INTERMEDIATE DRIVE SHAFT1
4.	250014	SHAFT REEL1
5.	012826	SPACER1
6.	250024	BUSHING2
7.		FSTN. BOLT CARRAGE 1/4 x 3/41
8.	250017	WINCH REEL 2 1/2 DIA1
9.		CABLE CLAMP1
10	120011	FSTN. NUT HEX 1/41
11.		FSTN, STOVER LOCK 3/81
12.		SLEEVE RATCHET1
13.	120017	COMPRESSION SPRING1
14.		LEVER RATCHET1
15		PLATE. LATCH LH1
		PLATE, LATCH RH1
16.		BOLT, RATCHET1
17		BASE WINCH. 25001
18		SPACER1
19		DRIVE SHAFT1
20.		SPRING EXTENSION1
21		PAWL RATCHET1
22	110102	HANDLE1
23.		FSTN. NUT STOVER LOCK 1/41
24		HD WINCH RH (WINCH ONLY)1
25		HD WINCH LH (WINCH ONLY)
_0.	1101012	The fill of the fill of the file of the fi

## AIR CONTROL SYSTEM ASSEMBLY

# PARTS SECTION 2

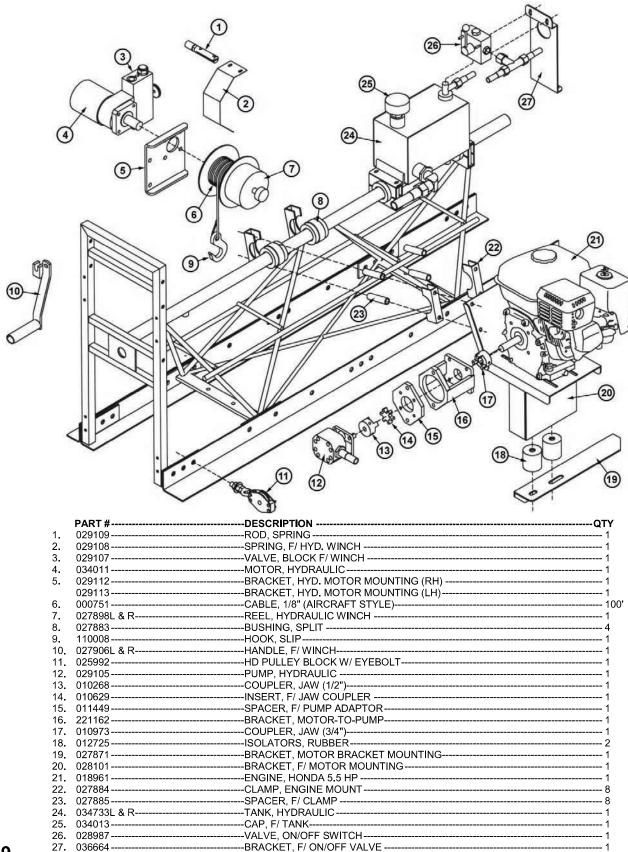


		DESCRIPTIONQTY
1.	116007	HANGER, LUBRICATOR ASSY 1
2.	116008	CLAMP, U-BOLT2
3.	116005	LUBRICATOR BOWL ASSEMBLY 1
4.	116003	TEE, SPECIAL F/ GAUGE 1
5.	116004	GAUGE, PRESSURE 0-200 PSI - 1/4" BM-MNT 1
6.	116002	VALVE, FLOW CONTROL 1
7.		CONNECTOR, CROWS FOOT 1
8.	116010	PIN 1
9.	100211	HOSE, 65" LONG 1" RED 1
		CONNECTOR, CROWS FOOT NIPPLE 1
11.	100193	PIPE, NIPPLE 1
12.	100261	CLAMP, BANDIT TYPE 2
13.	116006	HOSE ASSEMBLY COMPLETE 1
		WASHER, LOCK 5/16 4
15.	010100	FSTN, NUT HEX 5/16 4

# • NOTES •


# PARTS SECTION 2

### HYDRAULIC WINCH ASSEMBLY





### **AEC FACTORY & HEADQUARTERS**

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