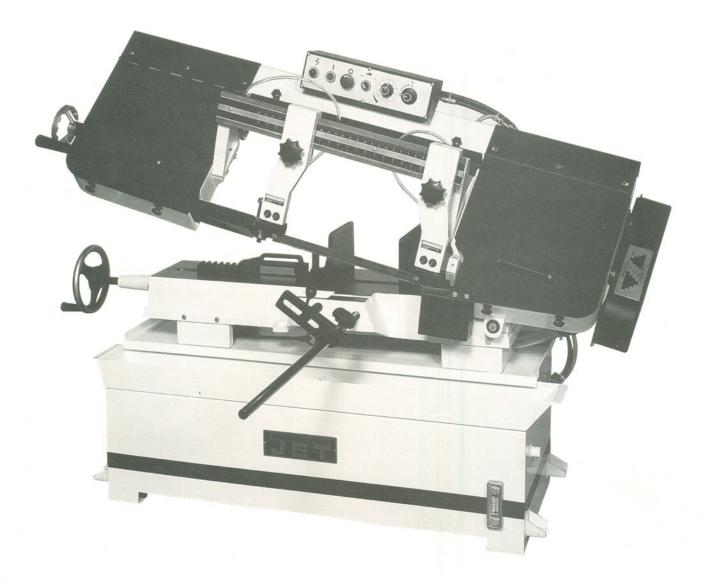


OPERATOR'S MANUAL HBS-916W & 1018W Bandsaws



JET EQUIPMENT & TOOLS, INC. A WMH Company www.jettools.com

P.O. BOX 1349 Auburn, WA 98071-1349 e-mail jet@jettools.com 253-351-6000 Fax 253-939-8001 **M-414468 2/99**

Important Information

1-YEAR LIMITED WARRANTY JET offers a one-year limited warranty on this product

REPLACEMENT PARTS

Replacement parts for this tool are available directly form JET Equipment & Tools.

To place an order, call 1-800-274-6848. Please have the following information ready:

- 1. Visa, MasterCard, or Discover Card number
- 2. Expiration date
- 3. Part number listed within this manual
- 4. Shipping address other than a Post Office box.

REPLACEMENT PART WARRANTY

JET Equipment & Tools makes every effort to assure that parts meet high quality and durability standards and warrants to the original retail consumer/purchaser of our parts that each such part(s) to be free from defects in materials and workmanship for a period of thirty (30) days from the date of purchase.

PROOF OF PURCHASE

Please retain your dated sales receipt as proof of purchase to validate the warranty period.

LIMITED TOOL AND EQUIPMENT WARRANTY

JET makes every effort to assure that its products meet high quality and durability standards and warrants to the original retail consumer/purchaser of our products that each product be free from defects in materials and workmanship as follows: 1 YEAR LIMITED WARRANTY ON THIS JET PRODUCT. Warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities or to a lack of maintenance. JET LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD SPECIFIED ABOVE FROM THE DATE THE PRODUCT WAS PURCHASED AT RETAIL. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OR MECHANTABILITY AND FITNESS ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG THE IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. JET SHALL IN NO EVENT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERY OR FOR INCIDENTAL, CONTINGENT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. To take advantage of this warranty, the product or part must be returned for examination, postage prepaid, to an authorized service station designated by our Auburn office. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection discloses a defect, JET will either repair or replace the product or refund the purchase price, if we cannot readily and quickly provide a repair or replacement, if you are willing to accept such refund. JET will return repaired product or replacement at JET's expense, but if it is determined there is no defect, or that the defect resulted from causes not within the scope of JET's warranty, then the user must bear the cost of storing and returning the product. This warranty gives you specific legal rights, and you have other rights, which vary, from state to state.

JET Equipment & Tools • P.O. Box 1349, Auburn, WA 98071-1349 • (253) 351-6000

- Read and understand the entire instruction manual before attempting assembly or operation.
- All JET bandsaws are designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper and safe operation of a bandsaw, do not use until proper training and knowledge have been obtained.
- Always wear approved safety glasses/face shields while using this machine.
- Make certain the machine is properly grounded.
- Before operating the machine, remove tie, rings, watches, other jewelry, and roll up sleeves above the elbows. Remove all loose clothing and confine long hair. Do NOT wear gloves.
- Keep the floor around the machine clean and free of scrap material, oil and grease.
- Keep machine guards in place at all times when the machine is in use. If removed for maintenance purposes, use extreme caution and replace the guards immediately.
- Do NOT over reach. Maintain a balanced stance at all times so that you do not fall or lean against blades or other moving parts.
- Make all machine adjustments or maintenance with the machine unplugged from the power source.
- Use the right tool. Don't force a tool or attachment to do a job which it was not designed for.
- Replace warning labels if they become obscured or removed.
- Make certain the motor switch is in the OFF position before connecting the machine to the power supply.

- Give your work undivided attention. Looking around, carrying on a conversation, and "horse-play" are careless acts that can result in serious injury.
- Keep visitors a safe distance from the work area.
- Use recommended accessories; improper accessories may be hazardous.
- Make a habit of checking to see that keys and adjusting wrenches are removed before turning on the machine.
- Always keep hands and fingers away from the blade when the machine is running.
- Never hand hold the material. Always use the vise and clamp it securely.
- Keep belt guard, blade guards, and wheel covers in place and in working order.
- Always provide adequate support for long and heavy material.
- Use a sharp blade and keep machine clean for best and safest performance.
- Failure to comply with all of these warnings may cause serious injury.

Specifications:

HBS-916W

Stock Number		
Capacity:		
Round at 90°		
Round at 45°		
Rectangle at 90°		
Rectangle at 45°		10" x 8-1/2"
Blade Size	1"x0.032"x119-1/2"	1.0" x 0.032" x 130"
Blade Wheel Diameter	13"	
Blade Wheel Speed		82, 132, 210, 330 SFPM
Motor(TEFC)	1-1/2 HP ,1 Ph 115/230V	2HP, 1Ph, 230V
	Prewired 115V	
Lowered Height		
Raised Height		
Bed Height		
Overall Dimensions (approx.)	65"L x 28"W	
Net Weight (approx.)		
Shipping Weight (approx.)	704 lbs.	

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The specifications in this manual are given as general information and are not binding. JET Equipment and Tools reserves the right to effect, at any time and without prior notice, changes or alterations to parts, fittings, and accessory equipment deemed necessary for any reason whatsoever.

Uncrating and Cleanup

- Note: Read and understand the entire manual before attempting setup or operation.
- Finish uncrating the saw and inspect for damage. Should any have occurred, contact your local distributor.
- 2. Remove all bolts attaching machine to shipping base.
- Leave packing material between vice clamps and saw head intact until bandsaw has been lifted to its final position.
- Clean all rust protected surfaces with kerosene or diesel oil to remove protective coating. Do not use gasoline, paint thinner, mineral spirits, etc. These may damage painted surfaces.
- 5. Lubricate all slideways with SAE 10W oil.

Installation

For best performance, the bandsaw should be located on a solid and level foundation. Allow room for servicing and for moving large stock around the bandsaw when deciding a location for the machine.

- Using lifting straps that are isolated from the bandsaw's finished surfaces, lift machine place in desired location. See figure 1 for strap placement.
- Install four leveling bolts with lock nuts on both sides of the base as shown in the parts breakdown on page 12 - items #2 and #3.
- 3. Place a level on the table surface and check side to side and front to back.
- Adjust leveling screws until machine is level in both directions and tighten locking nuts.

Assembly

- Unbolt the motor assembly from the shipping crate bottom.
- 2. Remove nut and washer from the motor support shaft.

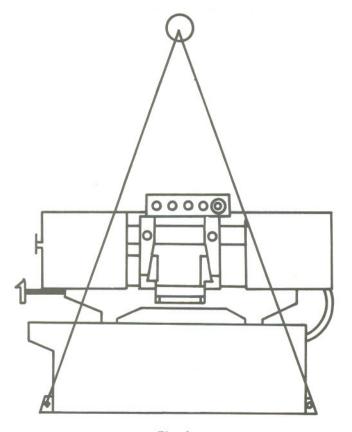


Fig. 1

- Remove shaft (A- Fig. 2) from the motor mount bracket.
- 4. Carefully lift motor and line up holes in the motor mounting plate and the motor bracket.
- 5. Slide motor support shaft into motor mount bracket to hold the motor in place.
- 6. Fasten shaft with nut and washer.
- Loosen strain relief nut on the motor junction box. Remove the junction box cover. Insert wire through strain relief and wire to the terminal strip using the diagram on the junction box cover. Tighten the strain relief nut and replace the junction box cover.

Remove two hex cap bolts and washers

- 8. (A, Fig. 3) from the right side of the saw arm.
- Slide belt cover (B, Fig. 3) around pulley shafts and attach to saw with two hex cap bolts and two washers.
- 10. Lift motor and place v-belt around both pulleys. Lower motor.
- Tension the v-belt by pushing down on the motor and tightening the lock handle on the motor tilt plate. Correct tension is achieved when finger pressure between the two pulleys causes approximately a 1/2" deflection. See Figure 4.
- 12. Close pulley cover door and fasten with lock knob.
- Fasten work stop rod (#17 page 12) to saw bed (#11) by inserting into bed and turning clockwise until tight. Place work stop bracket (#16) onto stop rod (#17) and tighten lock handle (#20). Attach stop screw (#19) to stop bracket (#16) with lock handle (#18) and tighten.

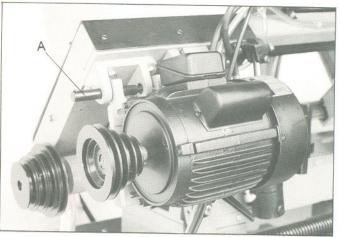


Fig. 2

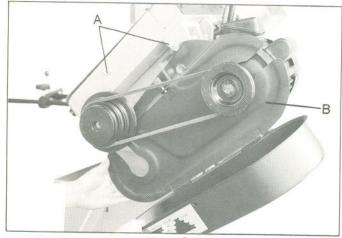


Fig. 3

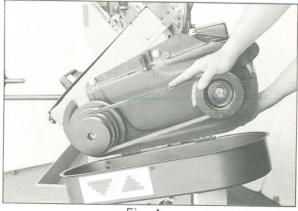


Fig. 4

Electrical Connections

All electrical connections must be done by a qualified electrician! Failure to comply may result in serious injury!

WARNING

Disconnect machine from the power source before changing any voltage components! Failure to comply may cause serious injury!

The HBS-916W bandsaw is rated at 115/230V, 1Ph. and is prewired 115 volt from the factory. The HBS1018W is rated at 230V, 1Ph. only. Confirm power available at the saw's location is the same as the saw is wired. To switch the HBS-916W from 115V to 230V, the following items will have to be changed:

- Main Motor follow diagram inside junction box cover.
- Coolant Pump Remove chip pan on front of saw, remove junction box cover on pump, and follow diagram inside junction box cover.
- Control Transformer Open electrical panel on rear of base and switch primary wire on transformer from 115V to 230V.

Machine must always be correctly grounded.

Note: The power cord end will have to be changed to one that is rated 230V when changing to the higher voltage.

Controls - Figure 5

- A. Power Indicator Light (A) lit whenever machine is running.
- B. Start Button (B) depress to start bandsaw.
- C. Emergency Stop Button (C) depress to immediately stop all machine functions.
- D. Coolant Switch (D) Turn arrow to "I" to turn on flow of coolant. Turn arrow to "O" to stop flow of coolant.

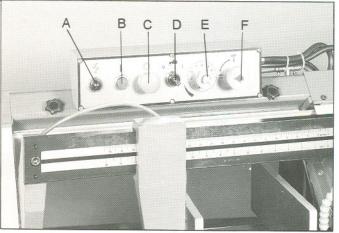


Fig. 5

- E. **Cutting Pressure Control** (E) turn clockwise to decrease cutting pressure. Turn counterclockwise to increase cutting pressure.
- F. Hydraulic On-Off Valve (F) turns hydraulic cylinder on and off.

Prior to Operation

- Check blade tooth direction matches diagram on blade guides.
- Check to see that blade is properly seated on wheels after applying correct tension (approximately 25,000 lbs.).
- 3. Set blade holder guides for approximately .003" to .005" clearance between the guides and blade.
- 4. Check for slight clearance between back up rollers and back of blade.
- 5. Position blade guides as close to work piece as possible.
- Select proper speed and feed rate for material being cut. See speed selection chart found in the enclosed "Guide to Bandsawing" booklet supplied with this saw.
- Material to be cut must be securely held in vise.
- Check to see that coolant level is adequate and turn on coolant pump if material to be cut requires it. Machine should be filled with four gallons of the proper coolant mixture. Follow the directions on the product makers label and fill the coolant tank through the chip tray area.
- 9. Do not start cut on a sharp edge.
- 10. Keep machine lubricated. See "Lubrication" section.

Adjusting Vise Square to the Blade

- 1. Disconnect the machine from the power source.
- 2. Place a machinist's square on the table against the blade and the vise. The square should lie along the entire length of the vise and blade without a gap.
- If adjustment is necessary, loosen bolts holding the vise and adjust vise so square lines up properly. Tighten bolts.
- 4. Connect machine to the power source.

Changing Blade Speeds

/ WARNING

Disconnect the machine from the power source before making any repair or adjustment! Failure to comply may cause serious injury!

- 1. Disconnect machine from the power source.
- Open pulley cover by supporting the belt cover with one hand while removing the belt cover lock knob with the other. Lower guard gently to its full open position.
- 3. Support motor with one hand while loosening lock handle (A Fig. 6). Lower motor gently.
- 4. Position belt in grooves according to the speed selection chart.
- Tension the v-belt by pushing down on the motor and tightening the lock handle on the motor tilt plate. Correct tension is achieved when finger pressure on the belt between the two pulleys causes approximately a 1/2" deflection.
- 6. Close pulley cover and fasten.
- 7. Connect machine to the power source.

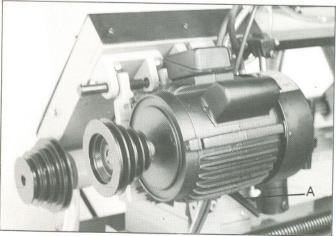


Fig. 6

Adjusting Feed Rate

Rate of feed is adjusted by turning the cutting pressure control knob on the control panel. Rate of feed is important to bandsaw performance; excessive pressure may break the blade or stall the saw. Insufficient pressure rapidly dulls the blade.

Material chips or shavings are the best indicator of proper speed and pressure. The ideal chip is thin, tightly curled, and warm to the touch. Chips that range from golden brown to black indicate excessive force. Blue chips indicate extreme heat from too high a band speed which will shorten blade life. Thin or powdered chips indicate insufficient feed pressure.

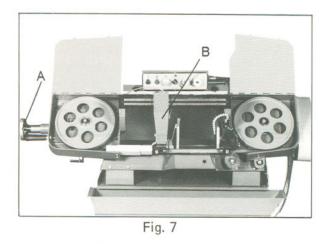
A detailed explanation on feed rate can be found in the enclosed "Guide to Band Sawing" published by American Saw and Manufacturing Company. Reprinted by permission.

Changing Blades

WARNING

Disconnect machine from the power source before making any adjustments or repairs! Failure to comply may result in serious injury!

- 1. Disconnect machine from power source.
- Raise saw arm approximately 6". Hold saw arm in place by closing cutting pressure control valve. Remove screw (#145), washer(#146), and brush (#147) from the wire brush post (#148) as shown on page 13.
- Open both wheel covers and clean chips out of both wheel housings. Loosen two lock knobs and remove upper blade guard.
- Release blade tension by turning blade tensioning handwheel (A - Fig. 7) counterclockwise until blade is free.
- Loosen lock knob and slide left blade guide arm (B) to the right as far as possible.



blades are sharp to the skin! Use extra caution handling bandsaw blades!

- Install new blade making sure teeth are pointed downward in the proper cutting direction. If necessary, turn blade inside out.
- Position blade on band wheels and tighten just enough to hold blade on wheels. Make sure back of blade rests lightly against the wheel flange of both wheels. Twist blade slightly to allow it to slip into guides.
- Tension blade to approximately 25,000 lbs. of blade tension, as indicated on the blade tension indicator found on the tension wheel shaft housing.
- 10. Attach wire brush to the wire brush post with screw and washer. Adjust wire brush post so that brush just comes into contact with blade teeth.
- Close all covers and guards and fasten securely. Connect machine to power and run freely for approximately two minutes.
- Turn power off and re-check blade tension and wire brush adjustment. If further adjustment is necessary, disconnect saw from power source, make adjustments, and re-connect to power.

Blade Tracking Adjustment

Blade tracking has been set at the factory and should require no adjustment. If a tracking problem occurs, adjust the machine as follows:

A WARNING

Tracking adjustment is done with the wheel covers open to observe the blade. Use extreme caution so as not to come into contact with the blade!

Since tracking can only be adjusted while machine is running, it is suggested that this adjustment be accomplished by qualified personnel that are familiar with this type of adjustment and the dangers associated with it.

- 1. Disconnect machine from the power source.
- Raise saw arm to its highest position and close cutting pressure control valve to hold saw arm in place.
- 3. Locate tracking adjustment plate on the back side of the driven blade wheel.
- 4. Loosen the three bolts (A Fig. 8) located on the top of the tracking nuts.
- Tracking adjustment is accomplished by either loosening or tightening three adjusting nuts (B - Fig. 8).
- Tracking is set properly when the back of the blade lightly touches the wheel flange. Note: over-tracking (allowing blade back to rub hard against wheel flange) will damage the blade wheels and blade.
- 7. Tighten locking bolts (A) once properly tracking is completed.
- 8. Connect machine to the power source.

Automatic Shut-Off Adjustment

The motor should shut off immediately after the blade has cut through the material and just before the head comes to rest on the horizontal stop bolt. If the machine continues to run after the work piece has been fully cut, locate and adjust the micro switch mounting plate down. If the machine shuts off before the work piece has been completely cut, move the micro switch mounting plate up.

Thrust Roller Adjustment

- 1. Disconnect machine from the power source.
- Loosen two hex socket cap screws (A Fig.
 9). Note: Left guide roller has two hex socket cap screw; right guide roller has one (HBS-916W only) The HBS-1018W has two screws on each guide..
- Move guide seat (B) up or down until a clearance of .003" to .005" between back of blade and thrust roller is obtained.

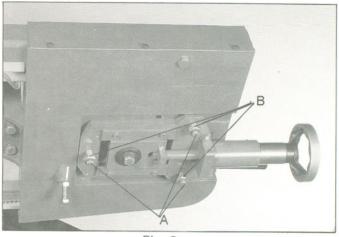


Fig. 8

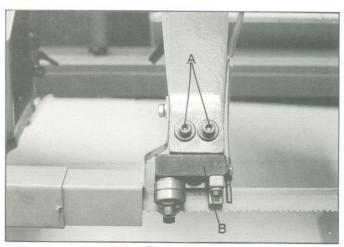


Fig. 9

- 4. Tighten two hex socket cap screws (A).
- 5. Repeat for other blade guide assembly.
- 6. Connect machine to power source.

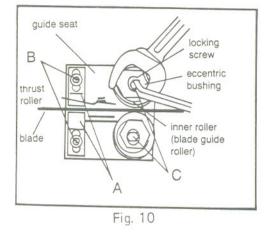
Guide Roller Adjustment

- 1. Disconnect machine from the power source.
- Loosen blade guides (A Fig. 10) by loosening screws (B). Slide blade guides away from blade.
- Loosen locking screws (C) by using a hex wrench.
- Adjust the eccentric bushings with a combination wrench until the ball bearings are snug to the blade. Note: blade should travel freely up and down between the ball bearings. Do not pinch the blade.
- 5. Tighten locking screws (C).
- Slide blade guides back into contact with blade and tighten screws (B).
- 7. Connect machine to the power source.

Bow Weight Adjustment

Bow weight is one of the most important adjustments of the saw. If the bow weight is not set properly, one can expect poor performance, crooked cuts, tooth stripping, stalling, and the blade popping off the blade wheels. The hydraulic feed rate unit will not compensate for improper bow weight. Bow weight has been set at the factory and should not need any adjustment. If adjustment is necessary:

- 1. Disconnect the machine from the power source.
- 2. Turn hydraulic valve to on (F Fig. 5)
- Turn cutting pressure control valve (E Fig. 5) counter-clockwise until it stops.



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- Place one end of a fish-type scale under the blade tension handle and lift the saw with the other end. The scale should indicate approximately 18-20 lbs. for the HBS-916W. For the HBS-1018W, it should indicate 22-24 lbs.
- Adjust tension to approximately 18-20 lbs.(or 22-24 lbs.) by turning the adjustable C-bolt found at the end of the coil spring on the rear of the bandsaw.
- 3. Connect the machine to the power source.

Vise Adjustment

To position the moveable vise jaw:

- 1. Turn vise handwheel (A Fig. 11) 1/2 turn counter-clockwise.
- Move rack block (B Fig. 11) to desired location by sliding along the bed. Place the rack block onto the rack.
- 3. Turn the handwheel to tighten the vise.

To adjust the vise for angle cutting:

- 1. Loosen bolts and move vise jaw (C-Fig11) to desired location.
- 2. Set the vise to desired angle, reinstall nuts and Tighten the nut and bolt assemblies.
- Adjust the movable vise parallel to the fixed vise by loosening bolt (D-Fig.11) adjusting to parallel and tightening bolt.

Maintenance

Keep the band saw and the motor clean.

Lubrication

All ball bearings are permanently lubricated and sealed. They require no further lubrication.

The gear box lubricant should be changed after the first 50 hours of operation. Change lubricant from then on every 250 hours of operation.

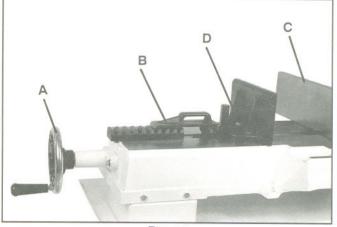


Fig. 11

To check level of gear box lubricant, place saw arm in down position and allow a few minutes to pass so that oil drains down. Check level in sight glass on side of gear casing. Correct level is the dot in the middle of sight glass.

To change gear box lubricant:

- 1. Disconnect machine from the power source.
- Open drain plug and allow lubricant to drain completely. Drain plug may be found on lower front of gear case under right wheel cover. Remove drain plug with a hex wrench.
- 3. Replace drain plug.
- 4. Remove filler cap (A Fig. 12) and fill gear box with Mobil DTE® Oil Heavy Medium until level reaches dot in middle of sight glass.
- 5. Replace filler cap.
- 6. Connect machine to the power source.

Use a light machine oil to lubricate all other moving parts as needed.

A detailed explanation on blade selection and blade problems and their solutions can be found in the enclosed "Guide to Band Sawing" published by American Saw and Manufacturing Company. Used by permission.

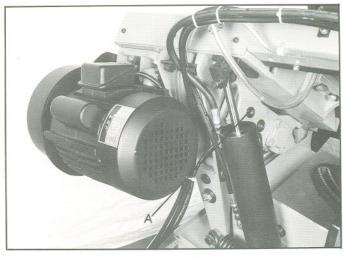
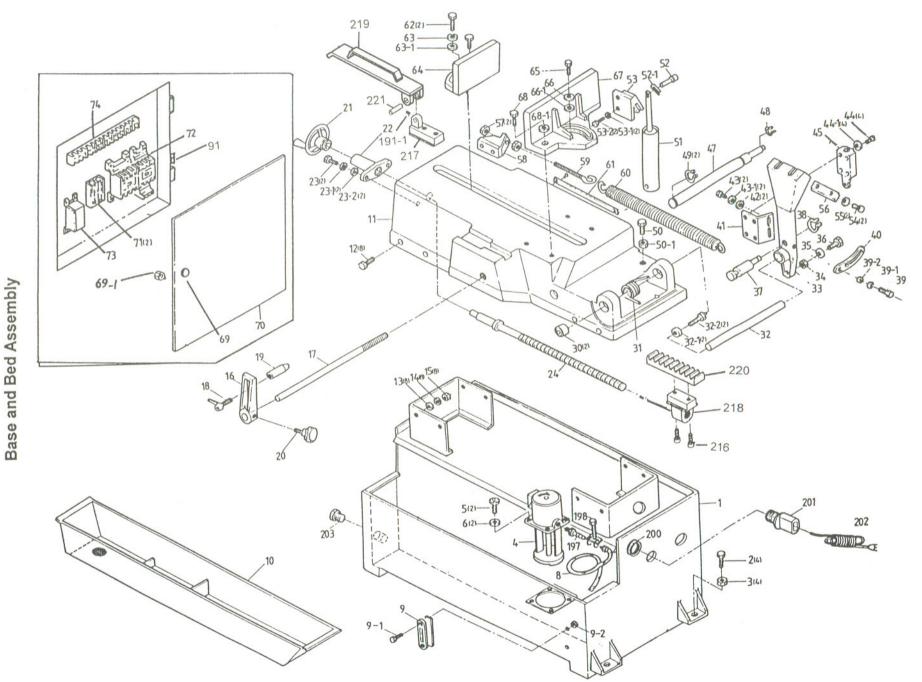
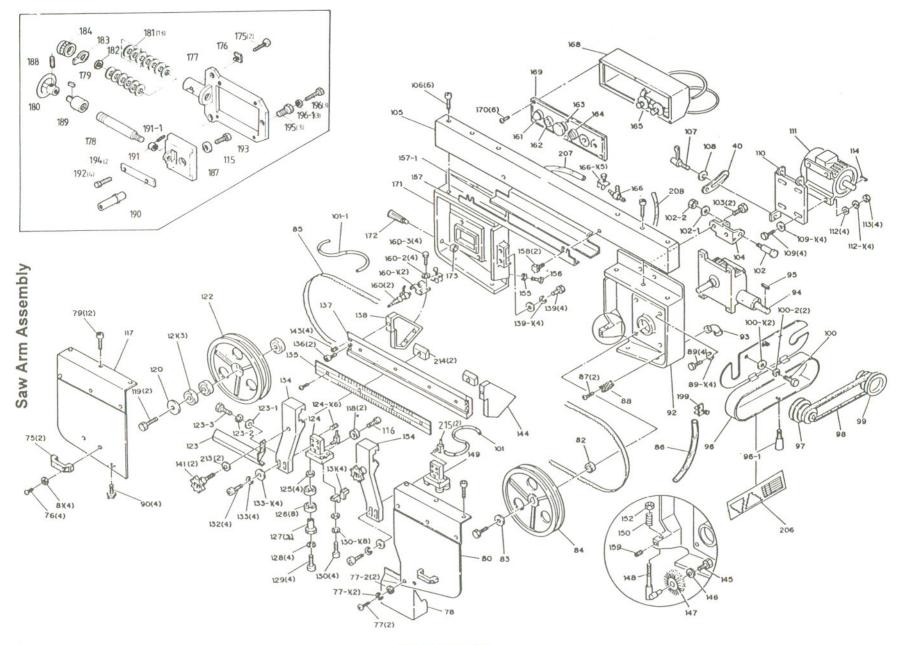
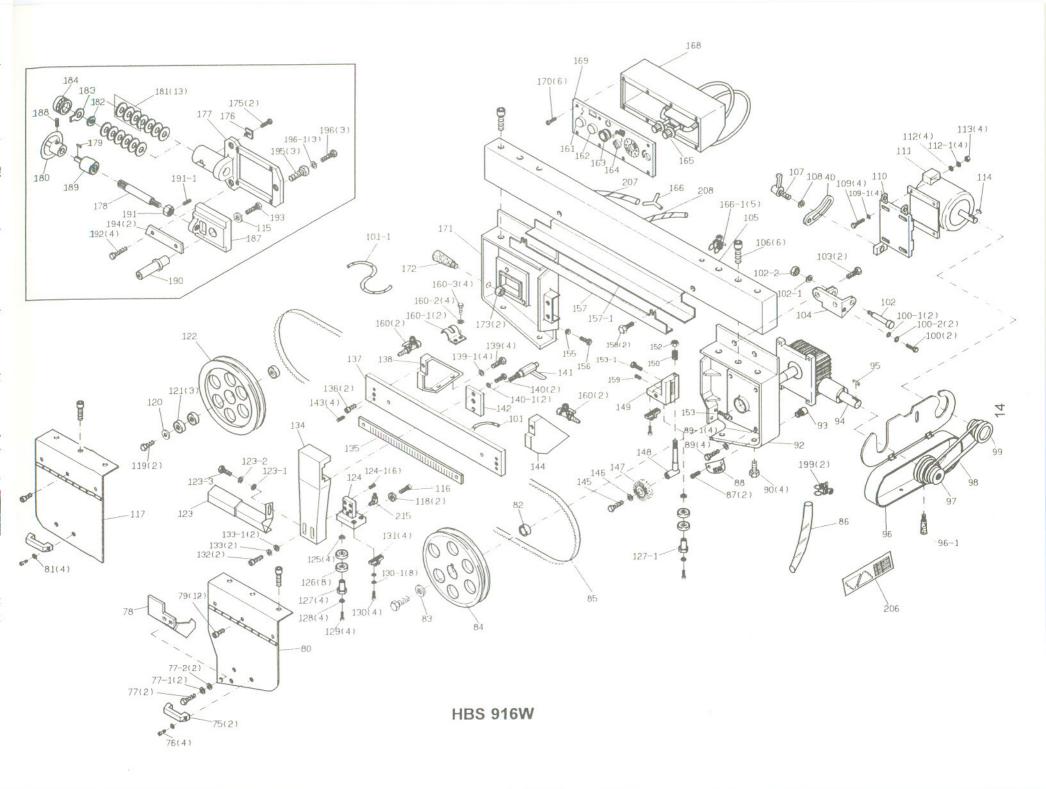


Fig. 12





HBS 1018W



Parts List for the HBS-916W/-1018W Bandsaws

No. No).		Cino	Otre
		Description	Size	Qty.
		Base (S/N 8081108 and lower)		
		Base (S/N 8081109 and higher)		
		Base (S/N 808718 and lower)		
		Base (S/N 808719 and higher)		
		Hex Cap Bolt		
		Hex Nut		
		Coolant Pump		
		Pan Head Screw		
		Lock Washer		
		Hose		
		Coolant Gauge		
		Hex Cap Bolt		
9-2TS	S-1540071	Hex Nut	M10	2
		Chip Tray		
		Chip Tray		
		Bed (S/N 8081108 and lower)		
		Bed (S/N 8081109 and higher)		
HE	3S1018W-11	Bed (S/N 808718 and lower)		1
		Bed (S/N 808719 and higher)		
12TS	5-1490051	Hex Cap Bolt	M8x30	8
		Washer		
14TS	S-1551081	Lock Washer	M8	8
		Hex Nut		
16HE	3S916W-16	Stop Bracket		1
17HE	3S916W-17	Stop Rod		1
		Lock Handle		
		Work Stop		
20HE	3S916W-20	Lock Knob		1
21HE	3S916W-21	Hand Wheel Assembly		1
HE	3S1018W-21	Hand Wheel Assembly		1
		Lead Screw Seat		
HE	3S1018W-22	Lead Screw Seat		1
23TS	S-1490051	Hex Cap Bolt	M8x30	2
		Lock Washer		
23-2 TS	S-1550061	Washer	M8	2
		Lead Screw (S/N 8081108 and lower)		
		Lead Screw (S/N 8081109 and higher)		
		Lead Screw (S/N 808718 and lower)		
HE	BS1018W-24A	Lead Screw (S/N 808719 and higher)		1
30Hk	K-2516-2RS	Needle Bearing		2
31HE	3S916W-31	Torsion Spring		1
HE	3S1018W-31	Torsion Spring		1
32HE	3S916W-32	Pivot Shaft		1
32-1 TS	6-1550041	Washer	M12	2
32-2HE	3S916W-32-2	Bolt w/ Zerk Fitting		2
33HE	3S916W-33	Pivot Bracket		1
HE	BS1018W-33	Pivot Bracket		1

34 I S-1540081	Nut	M12
35TS-1550081	Washer	M12
	Hex Cap Bolt	
37 HBS916W-37	Torsion Spring Shaft	
38 HBS916W-38	C-Ring	S-22
30 TS 1400041	Hex Cap Bolt	M8x25
	Lock Washer	
	Washer	
	Wotor Tilt Plate	
	Motor Tilt Plate	
	Limit Switch Plate	
42TS-1550061	Washer	M8
43TS-1490031	Hex Cap Bolt	M8x20
	Lock Washer	
	Hex Cap Screw	
44-1 TS-1441041	Washer	M6
	Limit Switch	
	Cylinder Pin	
	Cylinder Pin	
48 HBS916W-48	C-Ring	S-20
40 HBS016W/40	C-Ring	S-25
49	Hex Cap Bolt	M10x30
50 4 TO 4540074	Hex Nut	M10
	Hydraulic Cylinder Assembly	
	Hydraulic Cylinder Assembly	
	Cylinder Pin	
	Pin	
	Hydraulic Mounting Plate - Top	
HBS1018W-53	Hydraulic Mounting Plate - Top	
53-1 TS-1551071	Lock Washer	M10
53-2 TS-1491041	Hex Cap Bolt	M10x30
54TS-1492051	Hex Cap Bolt	M12x50
55 TS-1550081	Washer	M12
56 HBS916W-56	Plate	
57 TS-0561051	Hex Nut	
59 URS016W/58	Spring Bracket	
50 UPS016W/50	Adjustable C-Bolt	
60HBS916W-60		
	Spring	
	Angle Scale	
62TS-1492041	Hex Cap Bolt	M12x40
63TS-1551081	Lock Washer	M12
63-1 TS-1550081	Washer	M12
64HBS916W-64	Vise Jaw - left	
65TS-1492051	Hex Cap Bolt	M12x50
66TS-1551081	Lock Washer	M12
66-1 TS-1550081	Washer	M12
	Vise Jaw - right	
	Hex Cap Bolt	
60 1 TC 1551001	Lock Washer	M12
	Hex Socket Cap Bolt	
	Nut	
	Nut Electrical Panel Cover (S/N 8081108 a	
	Electrical Panel Cover (S/N 8081108 a	110 10WEI FIDO-910VV)

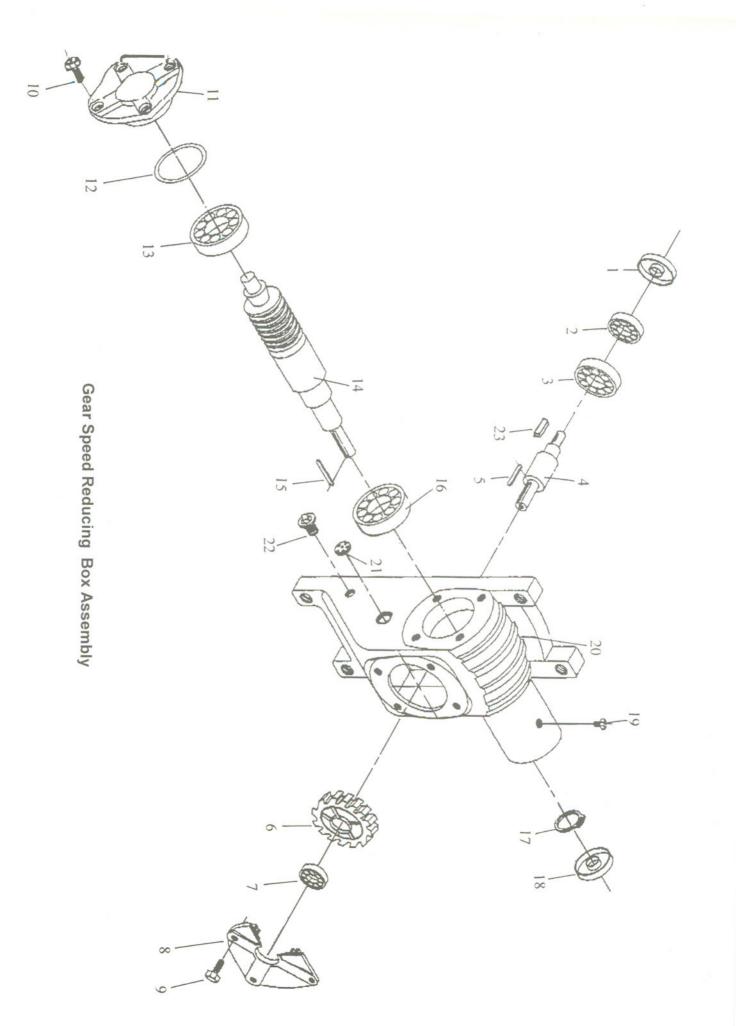
	Electrical Danal Cover (C/N 9091100 and big	har UPS 016MA	1
	Electrical Panel Cover (S/N 8081109 and high Electrical Panel Cover (S/N 808719 and high		
	Fuse Block		
	Fuse 3A		
	Magnetic Switch		
12	. Magnetic Switch		1
	Contactor (main motor)		
	Overload Relay		
	Contactor (pump)		
	Transformer		1
	Transformer		
	. Terminal Strip		
	. Handle		
	Pan Head Screw		
70	Hex Cap Bolt	M6v12	2
77 1 TO 1551041	. Lock Washer	M6	2
77 2 TS 1550041	Washer	M6	2
70 UP0016W/70	Wire Brush Guard		1
70 TO 1502011	Hex Socket Cap Screw	Meve	12
UDC10101/170A	Adjustable Bracket Mount - rear (1018W only	- not shown)	12
	Blade Wheel Cover - right	- HOL SHOWIT)	1
	Blade Wheel Cover - right		
	Washer		
	Bushing		
	Washer		
	Drive Wheel		
	Drive Wheel		
HBS1018VV-84A	Blade (local purchase - 916W)	14	1
85	Blade (local purchase - 91000) Blade (local purchase - 1016W)		I 1
	Hose Pan Head Screw		
	Filter Screen		
	Hex Cap Bolt Lock Washer		
	Lock Washer		
	Hinge Pin		
	Blade Wheel Box - right		
	Blade Wheel Box - right		
93HBS916W-93			
	Connector Gear Box Assembly (can only order entire as		I
	Key		
	Pulley Cover		
	Pulley Cover		
	Lock Knob Gear Box Pulley		
	Gear Box Pulley V-Belt		
	V-Belt		
	Motor Pulley		
100 TO 1402024	Motor Pulley Hex Cap Bolt	M8v16	I
	Hex Cap Bolt Washer		
100-113-1330001	vvasiiei		Z

100 2 TS 1551061	Lock Washer	140	
101 HBS016W/ 101	Lock Washer	M8	2
101-1 HBS916W-101-1	Hose		1
102 HBS916W-101-1	Support Shaft		1
102-1 TS-1550081	Washer	M40	1
102-7 TS-1540081	Hex Nut	IVI I Z	1
103 TS-1402021	Hex Cap Bolt	IVI 12 M10x20	1
104 HBS916W/104	Motor Mount Bracket	IVI 12X30	Z
105 HBS016W/105	Column		1
HBS1018W-105	Column		1
106 TS-1506011	Hex Socket Cap Screw	M42v20	1
107 HBS916W/-107	Locking Handle	IVI I Z X Z U	0
108 TS-1550061	Washer	оњ <i>л</i> њ <i>л</i>	ا
	Hex Cap Bolt		
109-1 TS-1550061	Washer	WOX45	4
110 HBS916W-110	Motor Mount Plate	IVIO	4
111 HBS916W-111	Motor (1-1/2 HP, 1Ph, 115/230V)	•••• •••••••••••••••••••••••••	1
HBS1018W-111	Motor (2 HP, 1Ph, 230V only)	••• ••••••	1
HBS916W-600250	Capacitor (not shown)		1
HBS916W-111-2	Capacitor Cover (not shown)		1
HBS1018W-111-1	Capacitor (not shown)		1
HBS1018W-111-2	Capacitor Cover (not shown)	••• ••••••••••••••••••••••••••••••	1
112 TS-1550061	Washer	M8	I
112-1 TS-1551061	Lock Washer	M8	4 /
113 TS-1540061	Hex Nut	M8	
114 HBS916W-114	Key	7MM	1
115 TS-1550081	Washer	M12	1
116 TS-1504041	Hex Socket Cap Screw	M8x20	1
117 HBS916W-117	Blade Wheel Cover - left	1110/20	1
HBS1018W-117A	Blade Wheel Cover - left		1
	Ball Bearing		
119 TS-1492011	Hex Cap Bolt	M12x25	2
120 TS-1550081	Washer	M12	1
121 BB-6205Z	Ball Bearing		3
122 HBS916W-122	. Idler Wheel		1
	Idler Wheel		
123 HBS916W-123	Blade Guard		1
HBS1018W-123A	Blade Guard		1
	Washer		
	Lock Washer		
	Hex Cap Bolt		
124HBS916W-124	Guide Bracket - left		1
HBS916W-124A	Guide Bracket Assembly - left		1
HBS1018W-124A	Guide Bracket Assembly - left		1
124-1TS-1504031			
TS-1504031	Hex Socket Cap Screw (HBS-1018W)		
	Washer		
126 BB-6201VV			
127HBS916W-127	Eccentric Sleeve (outside) (HBS916W)		
HBS1018W-127	Eccentric Sleeve (outside) (HBA1018W)		2
127-1HBS916W-127-1	Sleeve (inside-not show) (HBS916W)		2
HBS1018W-127-1	Sleeve (inside-not show) (HBS1018W)		2

100 TO 1551061	Lock Washer	MR	1
120 TS 1504001	Hex Socket Cap Screw	M8v45	ч Д
129 13-1504091	Hex Socket Cap Screw	M6v20	······4
	Washer		
131 HBS916VV-131	Blade Guide	M0	
132 TS-1504081	Hex Socket Cap Screw (HBS-916W)	M8x40	2
	Hex Socket Cap Screw (HBS-1018W)		
	Lock Washer (HBS-916W)		
TS-1551081	Lock Washer (HBS-1018W)	M8	4
133-1TS-1550081	Washer (HBS-916W)	M8	2
	Washer (HBS-1018W)		
	Adjustable Bracket		
HBS1018W-134A	Adjustable Bracket		1
135HBS916W-135	Scale (1018W)		1
HBS1018W-135	Dovetail Scale		1
136TS-1505031	Hex Socket Cap Screw	M10x25	2
	Slide		
	Slide		
	Blade Bracket - left		
	Blade Bracket - left		
139 TS-1492021	Hex Cap Bolt	M12x30	4
139-1 TS-551081	Lock Washer	M12	4
140 TS-1490041	Hex Cap Bolt (HBS-916W)	M8x25	2
140 1 TS 1551061	Lock Washer (HBS-916W)	M8	2
	Knob		
	Knob		
	Plate		
	Set Screw		
	Blade Bracket - right		
	Blade Bracket - right		
	Hex Cap Bolt		
	Washer		
	Wire Brush		
	Wire Brush		
	Wire Brush Rod		
	Wire Brush Rod		
	Guide Bracket - right		
HBS1018W-149			
HBS916W-149A	, ,		
HBS1018W-149A	, 0		
150HBS916W-150			
	Spring		
152TS-1540071	Hex Nut		
153TS-1504091			
153-1 HBS916W-153-1	Hex Socket Cap Screw	M8x55	1
154HBS1018W-154A	, , , , , , , , , , , , , , , , , , , ,		
155TS-1540081	Hex Nut	M12	1
156TS-1492061	Hex Cap Bolt	M12x60	1
	Blade Guard		
	Blade Guard		
	Blade Guard - down		
	Lock Knob		
	Adjusting Valve		

160 1 HPS016W 160 1	Clamp	
160-2 TS-15510/1	Lock Washer	MG 4
	Hex Cap Bolt	
161 HBS916W-161A	Power Indicator Light	1
	. Start Switch	
163 HBS916W-162	. Stop Switch	
164 HBS916W-163	Pump Switch	··· ··· · · · · · · · · · · · · · · ·
165 HBS016W-165S	Feed Control - Hydraulic On/Off Valve	··· ····· I
HBS016W-1655-1	Speed Control Valve	··· ····
URS016W/ 165S 1 K	Knob for Speed Control Valve	··· ·····
HRS016W 1655 K	Knob for On/Off Valve	·· ·····
166 UPS016W/166	Connecting Tube	•• ••••••
166 1 URS016W/166 1	. Hose Clamp	
160 UDS016W/160	. Control Box	
160 UPS016W 160	. Control Panel	
170 TO 1522021	Pan Head Screw	
	Wheel Box - left	
	Wheel Box - left	
	Handle	
	Hex Nut	
	. Pan Head Screw	
	Indicator Scale	
	Slide Bracket	
	. Tension Shaft	
	Кеу	
	Handwheel	
181HBS916W-181	Lock Washer	M22 13
182HBS916W-182	. Flat Steel Washer	
183HBS916W-183	. Tension Indicator	
184BB-51104	. Thrust Bearing	
	. Slide	
	. Set Screw	
	. Extension Bar	
	. Wheel Shaft	
	. Nut w/Hole For Set Screw	
	. Set Screw	
	. Hex Socket Cap Screw	
	. Hex Socket Cap Screw	
194HBS916W-194	. Gib	
195HBS916W-195	. Hex Cap Screw (re: HBS916W-196)	
196HBS916W-196	Screw Assembly	
196-1HBS916W-196-1	. Lock Washer (re: HBS916W-196)	
197HBS916W-197	Hose Fitting	
198HBS916W-198	. Hose Clamp	
199HBS916W-199	Hose Clamp	2
HBS1018W-199	Hose Clamp	
	. Nut	
201HBS916W-201	. Strain Relief Fitting	
	. Power Cord	
	. Screw	
204HBS916W-204	Name Plate	
205 HBS916W-205	. Warning Label	
206HBS916W-206	. Speed Chart Label	
207 HBS916W-207	. Hose	

208HBS916W-208	Hose		1
213TS-1550071	. Washer	M10	2
214HBS1018W-214	. Clamp		2
215HBS916W-215	. Cu Connector		1
HBS1018W-215	. Cu Connector		2
216TS-1504051	. Hex Socket Cap Screw	M8x25	2
217HBS916W-217	Slide Bracket		1
218HBS916W-218	. Lead Screw Bracket		1
219 HBS916W-219	. Rack Block		1
HBS1018W-219	. Rack Block		1
220 HBS916W-220	. Rack		1
HBS1018W-220	. Rack		1
221 HBS916W-221	. Pin		1

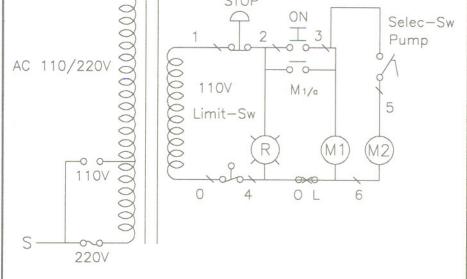


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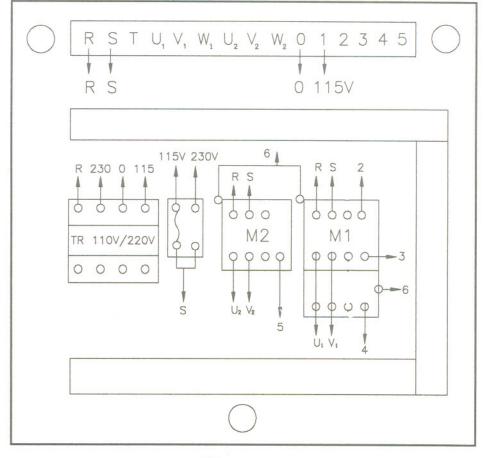
Parts List For The Gear Speed Reducing Box Assembly

Index Part			
No. No.	Description	Size	Qty.
1HBS916W-94-01	OIL SEAL	35x55X8	1
2HBS916W-94-02	BEARING	30207	1
3HBS916W-94-03	BEARING	6207	1
4HBS916W-94-04	. SHAFT		1
5HBS916W-94-05	. KEY	8x7x30	1
6HBS916W-94-06	. GEAR WHEEL		1
7HBS916W-94-07	BEARING	6206	1
8HBS916W-94-08	. OUTPUT SHAFT COVER		1
9HBS916W-94-09	. OUTPUT HEX CAP SCREW	M10x20	4
10HBS916W-94-10	INPUT HEX CAP SCREW	M8x20	4
11HBS916W-94-11	INPUT SHAFT COVER		1
12HBS916W-94-12	WASHER		1
13HBS916W-94-13	BEARING	6025	1
14HBS916W-94-14	. INPUT SHAFT		1
15HBS916W-94-15	. KEY	7x7x60	1
16HBS916W-94-16	. BEARING	6205	1
17HBS916W-94-17	. C-RING	R52	1
18HBS916W-94-18	OIL SEAL	25x52x8	1
19HBS916W-94-19	VENT BOLT		1
20HBS916W-94-20	GEAR BOX		1
21HBS916W-94-21	OIL LENS		1
22HBS916W-94-22	DRAW PLUG		1
23HBS916W-94-23	KEY	7X7X45	4



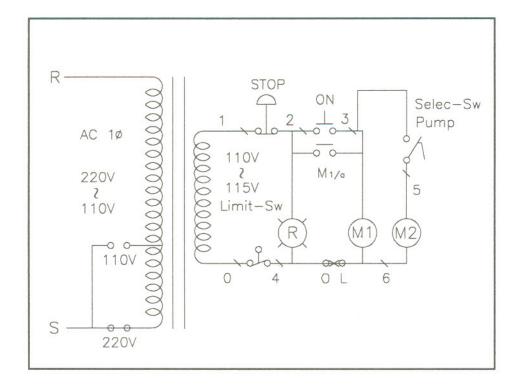


Electrical Panel Layout

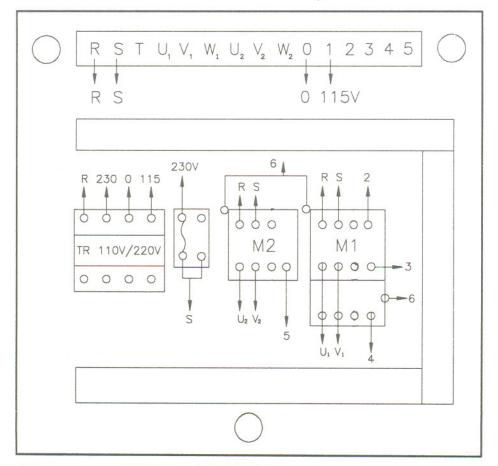


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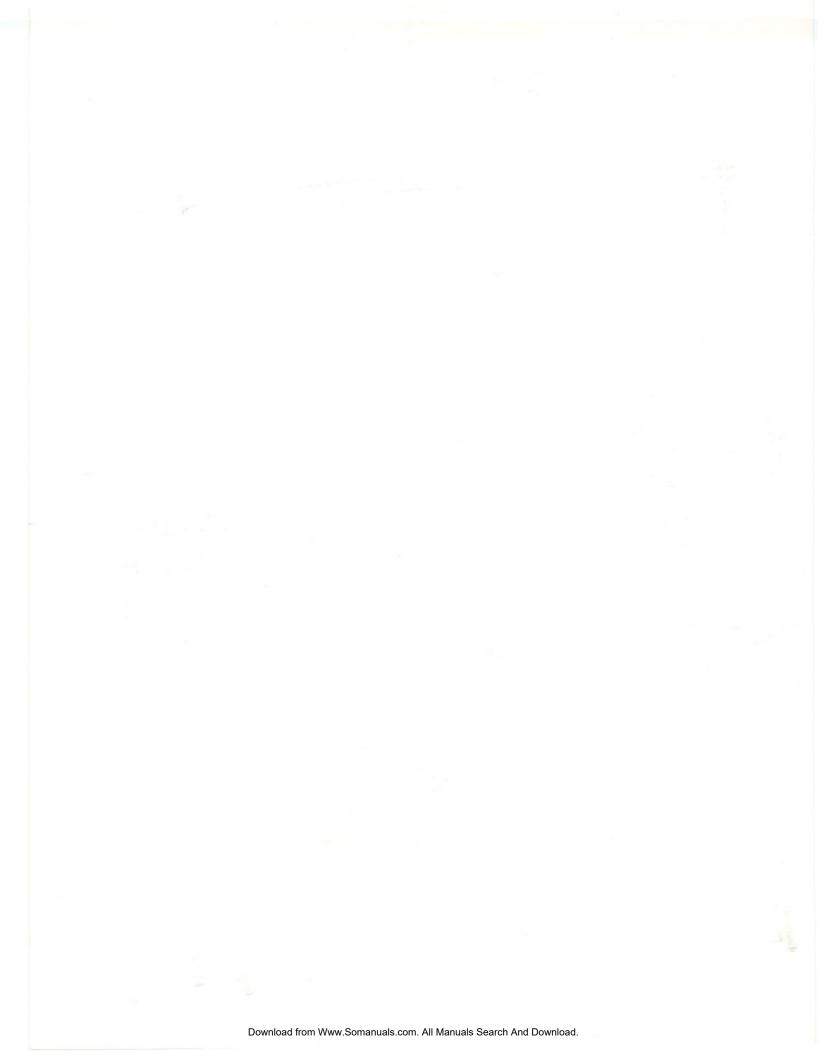
1PH Electrical Schematic for the HBS-1018W



Electrical Panel Layout







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