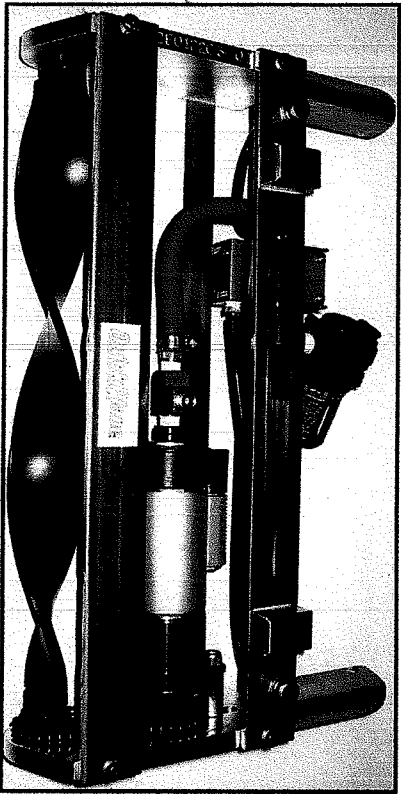


**QuickPlane®**

PRINTED: 06/05/06

**OPERATING MANUAL  
for Quick Plane Models  
2116 & 2124**



Manufactured by:



Effective January 1, 2006

# CONGRATULATIONS!!

CONGRATULATIONS ON THE PURCHASE OF YOUR NEW QUICKPLANE®. THIS AIR TOOL IS SPECIFICALLY DESIGNED FOR THE SHAVING, OR PLANING OF RIGID AND SOFT FOAMS.

THIS MANUAL WILL PROVIDE YOU WITH REQUIREMENTS AND SUGGESTIONS FOR THE PROPER OPERATION OF YOUR QUICKPLANE®. IMPROPER USE OR MAINTENANCE OF YOUR QUICKPLANE® MAY RESULT IN VOIDING ANY WARRANTY OF YOUR QUICK PLANE.

SHOULD YOU HAVE ANY QUESTIONS OR PROBLEMS NOT COVERED IN THIS MANUAL, PLEASE CONTACT US AT THE NUMBER LISTED BELOW. YOU MAY ALSO FIND SOME USEFUL INFORMATION ON OUR WEB SITE.

CONGRATULATIONS AND THANK YOU FOR CHOOSING THE ALL PHASE FABRICATION QUICKPLANE®.

SINCERELY YOURS,



DAN JANSEN

ALL PHASE FABRICATION, L.L.C.

TELEPHONE: (866) 677-1641

FAX: (616) 895-1293

WEB PAGE: WWW.QUICKPLANE.COM

E-MAIL: APF@QUICKPLANE.COM

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Be sure to read this entire manual prior to operating the QuickPlane®. The information provided here will help prevent harm to the operator, others and the equipment. If you have any problems please contact your distributor or All Phase Fabrication

# Before You Begin.....

## Safety Warnings and Precautions

**Warning:** When using this tool, basic safety precautions should always be followed to reduce the risk of injury to self or others and damage to equipment. The warnings, cautions, and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. It is understood by the operator that common sense and caution are factors which cannot be built into this product, therefore shall be supplied by the operator.

### Read all instructions before using this product!

1. **Avoid working alone.** If an accident happens, an assistant can bring help.
2. **Avoid electrical shock.** Stay clear of all exposed and overhead wiring.
3. **Keep work area clean and well lighted.** Cluttered areas invite accidents.
4. **Keep children away.** Children must never be allowed in work areas.
5. **Store idle equipment.** When not in use, QuickPlane® must be stored in a dry and clean space to inhibit rust and debris from entering the air motor.
6. **Dress properly.** Do not wear loose clothing or jewelry as these items may be caught in moving parts. Protective clothes and nonskid footwear are required when working with this tool. Wear restrictive hair covering to contain long hair.
7. **Use eye and ear protection.** Always wear ANSI approved impact safety goggles and dust mask or respirator. Ear protection is also required.
8. **Do not over reach.** Keep proper footing and balance at all times. Do not reach over or across electrical cables or vacuum hoses.
9. **Maintain tools with care.** Before connecting air line, be sure to check all hose connections. If there are any loose connections, reconnect it and be sure it is seated properly.
10. **Use the right tool for the job.** Do not use this tool for any purpose other than what it was intended for.
11. **Stay alert.** Watch what you are doing; use common sense. Do not operate tool when you are tired or under the influence of drugs or alcohol.
12. **Check for damaged parts.** Check for alignment and binding of moving parts or any other conditions that may affect proper operation. Any parts that are damaged should be properly repaired or replaced by a qualified technician.

# Air Supply & Lubrication

## Air Supply

The QuickPlane® requires 23.0 cfm at 87-90 psi of pressure. It is not recommended to run at pressures over 90 psi. For continual on site operation, we suggest going to a 30 cfm air compressor.

When connected properly, the QuickPlane® will operate at approximately 3300 R.P.M. for Model #2116 and 2100 R.P.M. for Model #2124. Increasing the air pressure over and above the requirements could damage the air motor.

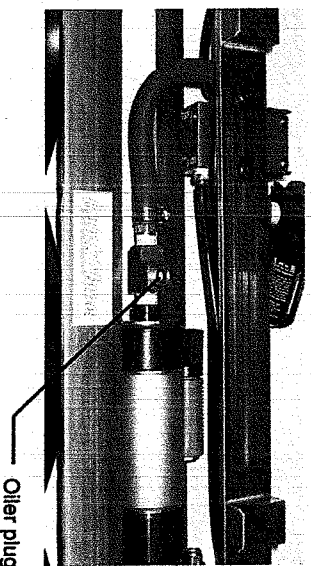
Your air supply hose should be 1/2" I.D. with couplings 3/8" I.D. Be sure any and all couplings are rated the same as or higher than the air pressure being utilized. Air must be clean and dry. Use air dryer system if necessary.

## Lubrication

### VERY IMPORTANT!!!

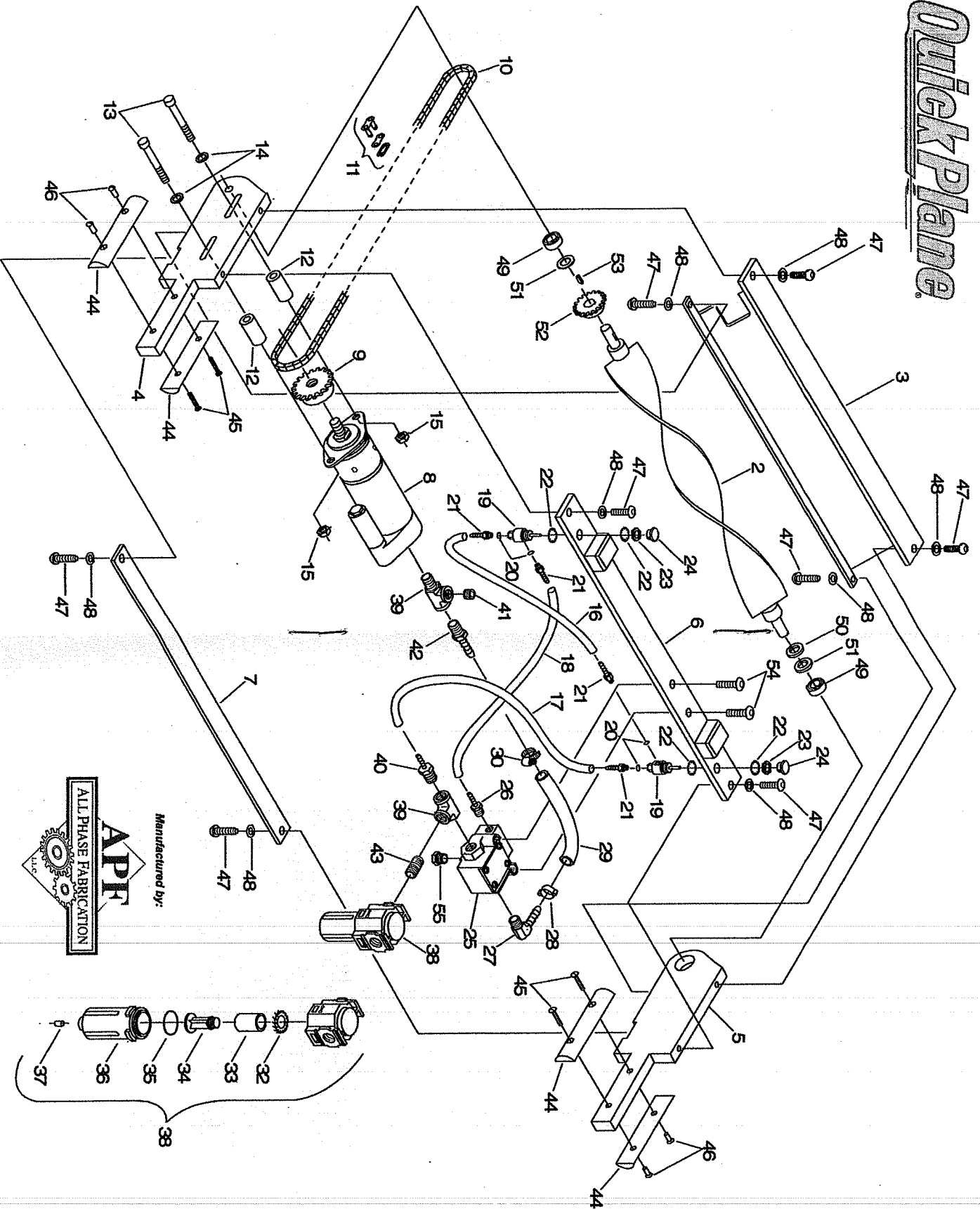
Lubrication is required at least every 6-8 hours of operation. During continuous heavy use, lubrication is required every 4 hours. Use a suitable pneumatic air motor oil such as: **Desoutter Air Motor Oil (available through your Quick Plane® Distributor)**, Shell Tellus 23; Regent-Catex Spindle; Mobil Gargoly Light Arctic oil; or Castrol Hyspin 40. The manufacturer of the air drive motor recommends NOT using Marvel Mystery Oil. They have experienced numerous problems with this oil. **NOTE: AN AIR SYSTEM DRYER, IS NOT A SUBSTITUTE FOR PROPER LUBRICATION, FAILURE TO OIL THE AIR DRIVE MOTOR PROPERLY, SHALL VOID WARRANTY!**

**OILING INSTRUCTIONS:** Remove oiler plug at the motor. While holding the QuickPlane® in a diagonal position, allow 8-10 drops of air motor oil to drain into the air motor for 1-2 minutes. Re-install the oiler plug and tighten securely. Re-connect air supply and run for 10-15 seconds. For extended periods of idle use, follow this procedure once a week and store in a dry and clean space to inhibit rust and debris from entering the air drive motor.



Oiler plug

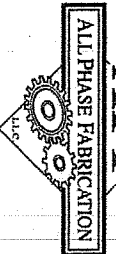
# QuickPlane®



Manufactured by:

## APF

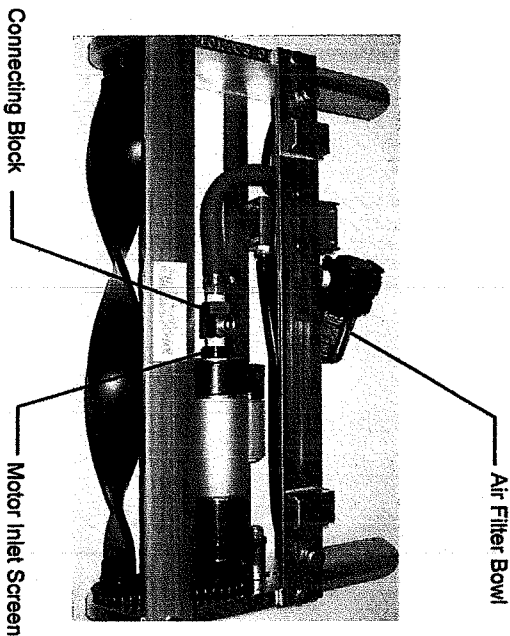
ALL PHASE FABRICATION  
LLC



# ROUTINE MAINTENANCE

**ROUTINE MAINTENANCE:** In order to keep your QuickPlane® operating at peak performance, please perform the following at the recommended intervals:

1. Visually inspect air filter/particle separator bowl on each use of the tool, to insure contaminants are not present which could damage and shorten tool life.
2. Clean the particle separator filter element and bowl as needed. Replace filter element once every 6 months. To remove air filter bowl, turn it counter-clockwise 1/8 turn and pull straight down. Before replacing the air filter bowl, be sure the O-ring is properly seated on the top rim of the bowl. (DO NOT use water to clean filter element or bowl.)
3. Clean air motor inlet screen, minimally, once every 3 months by removing air hose and connecting block from motor and unscrewing 3/4" nut on motor to gain access to the screen.
4. Check chain and master link for signs of wear once every 100 hours of operation. Insure chain does not rub against side plate or motor spacers.
5. Check washer spacer on blade ends once every 100 hours of operation to insure minimal lateral blade movement and proper chain to gear alignment. Install new spacers as necessary.



# Blade Replacement

**CAUTION:** Disconnect the air line before attempting any service work.

Follow these instructions for easy QuickPlane® Blade Replacement. It is also recommended that all parts involved in the Blade Assembly (i.e. drive chain, sprockets, spacers, bearings, etc.) be checked for excessive wear and replaced at the time of blade replacement.

1. Position the QuickPlane® in a vertical position, left side plate down, by clamping left side plate (4) handle in a vise or to a bench.
2. Loosen air motor bolts (13)) so that air motor (8) moves freely. Release as much tension on the drive chain (10) as possible.
3. Remove the right hand side plate (5) as follows:  
Remove all four allen screws (47) from right hand side plate (5) Place a block of wood on the inside of the right hand side plate, next to blade, to lightly tap on until plate and bearing (49) release the blade hub.
4. Proceed to the outside of the Left Side Plate (4):  
using a 3/8" punch, tap out blade hub far enough from bearing to remove drive chain (10) from blade sprocket (52), then tap out blade completely.
5. It is recommended that the blade sprocket (52) and woodruff key (53) be replaced when installing a new blade. When installing a sprocket on the blade it is important that the keyway is lined up with the woodruff key on the long blade hub to avoid any slippage during operation. Install the blade sprocket and woodruff on your new blade and it is ready to be reassembled.
6. With the QuickPlane® still in the vertical position, left side plate down, replace the spacer (51) and lower blade into bearing, making sure that the drive chain is on the blade sprocket teeth at this time. Lightly tap the blade squarely into the bearing using a wood block so not to damage the short hub (Caution must be taken to make sure the blade hubs fit squarely into the bearings or damage may occur). Replace any spacers on the opposite end of blade and line up right side plate and bearing squarely, using a block-tap the right side plate and bearing on hub only far enough to reattach the straps and allen screws. Reposition straps and tighten allen screws.
7. Reposition the air motor (8) so that the drive chain is almost tight. Tighten the air motor bolt (13) nearest the blade first, making sure the flat side of the air motor spacer (12) is faced toward the motor sprocket (9) to allow proper clearance during operation, tighten the rear air motor bolt with flat side of motor spacer (12) toward sprocket (9). (Caution must be taken to make sure the motor spacers are properly positioned or damage may occur).
8. You are now ready to reconnect the air supply. If your QuickPlane® seems to bind or lacks power, check the tension on the drive chain (10) to insure it is not too tight and the motor spacers (12) are properly positioned. If problems persist, contact your Distributor or All Phase Fabrication, L.L.C.

# Replacement Parts List

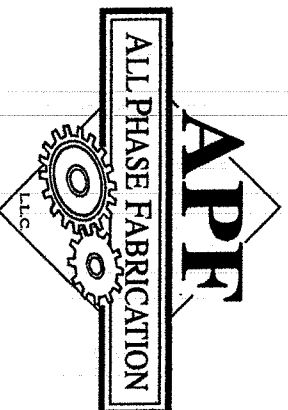
Part #	Description	Schematic #
2100-00	Pneumatic Oil-8 oz. Bottle	-
2100-01	Left Hand Side Plate	4
2100-02	Right Hand Side Plate	5
2100-03	Air Drive Motor Sprocket	9
2100-04	Drive Chain	10
2100-05	Drive Chain Master Link	11
2100-06	Air Motor Spacer	12
2100-07	Air Motor Bolt	13
2100-08	Air Motor Bolt Washer	14
2100-09	Air Motor Bolt Nut	15
2100-10	Air Supply Tubing	17
2100-11	Push Button Air Valve	19
2100-12	Rubber Washer	20
2100-13	Push Button Tube Connector	21
2100-14	Air Valve Lock Washer	22
2100-15	Push Button Air Valve Nut	23
2100-16	Push Button	24
2100-17	Activating Valve	25
2100-18	Activating Valve Pilot Connector	26
2100-19	Elbow Hose Barb	27
2100-20	Hose Clamp	28
2100-21	Screw Clamp	30
2100-23	Air Filter Spinner	32
2100-24	Air Filter Element	33
2100-25	Air Filter Element Fastener	34
2100-26	Air Filter O-Ring	35
2100-27	Air Filter Bowl	36
2100-28	Air Filter Release Valve	37
2100-29	Complete Air Filter Assembly	38
2100-30	Connecting Block	39
2100-31	Block Tubing Connector	40
2100-32	Oiler Plug	41
2100-33	Straight Hose Barb	42
2100-34	Air Filter Connector	43
2100-35	Handle Half (Inner or Outer)	44
2100-36	Male Fastening Screw	45
2100-37	Female Fastening Screw	46
2100-38	Allen Screw	47
2100-39	Lock Washer	48
2100-40	Blade Bearing	49
2100-41A	Blade Spacer (2 pieces) 3/32"	50
2100-41B	Blade Spacer (2 pieces) 3/16"	51
2100-42	Blade Sprocket	52
2100-43	Blade Sprocket Woodruff Key	53
2100-44	Activating Valve Attach. Screw	54
2100-45	Activating Valve Muffler	55

# Replacement Parts List

Part #	Description	Schematic #
2116-00	16" Special Purpose Blade	1
2116-01	16" Standard Blade	2
2116-02	Forward Guard Strap Assembly	3
2116-03	Rear Top Strap Assembly	6
2116-04	Lower Strap Assembly	7
2116-05	16" Air Drive Motor	8
2116-06	Button to Button Air Supply Tubing	16
2116-07	Button to Pilot Air Supply Tubing	19
2116-09	Valve to Motor Air Supply Tubing	33
2116-SPC	16" QuickPlane w/ Special Blade	-
2116-STD	16" QuickPlane w/ Standard Blade	-
2124-00	24" Special Purpose Blade	1
2124-01	24" Standard Blade	2
2124-02	Forward Guard Strap Assembly	3
2124-03	Rear Top Strap Assembly	6
2124-04	Lower Strap Assembly	7
2124-05	24" Air Drive Motor	8
2124-06	Button to Button Air Supply Tubing	16
2124-07	Button to Pilot Air Supply Tubing	19
2124-09	Valve to Motor Air Supply Tubing	33
2124-SPC	24" QuickPlane w/ Special Blade	-
2124-STD	24" QuickPlane w/ Standard Blade	-

**NOTE:** The parts listed on this page are QuickPlane® Model specific. Parts listed on page 9 are universal between models.

Manufactured By:



# ***QuickPlane***

## **LIMITED WARRANTY**

Patent Des. 268,475

All Phase Fabrication, L.L.C. warrants the QuickPlane® that All Phase Fabrication L.L.C. will repair or replace, at its option, without charge, any parts except blades and air motors, found under normal use to be defective in factory materials or workmanship within twelve (12) months from retail delivery.

The blades are warranted against initial defects in factory materials or workmanship, but no warranty claim shall be accepted after thirty (30) days from retail delivery.

The air motor is warranted against initial defects in factory materials or workmanship but no warranty claim shall be accepted after twelve (12) months from retail delivery.

A warranty claim shall be deemed received when written notice of such item is delivered to All Phase Fabrication, L.L.C., 11341 54th Avenue Allendale, MI 49401. Buyer is responsible for shipment to and from seller at 11341 54th Avenue Allendale, MI 49401.

The warranty shall not apply to any equipment that has been disassembled, repaired or altered by anyone other than manufacturer. The warranty shall not apply to any equipment, or parts thereof, subject to misuse due to common negligence or accident, nor to any equipment made by the manufacturer which was not operated in accordance with the printed instructions of the manufacturer, which has been operated beyond the rated capacity of the equipment, or which was not used for its intended purpose.

All Phase Fabrication, L.L.C. does not warrant that the equipment will meet or comply with the requirements of any safety code or regulation of any state, municipality, or other jurisdiction.

All Phase Fabrication, L.L.C. does not warrant that the equipment does not infringe on patents to third parties, but does state that it has no knowledge of any patent infringement.

**THERE IS NO OTHER EXPRESSED WARRANTY ON THIS EQUIPMENT.**

**ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS IS LIMITED TO THE TWELVE (12) MONTH DURATION OF THIS WRITTEN WARRANTY. TO THE EXTENT ALLOWED BY LAW, MANUFACTURER SHALL HAVE NO RESPONSIBILITY FOR LOSS OR USE OF THE EQUIPMENT, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS OR CONSEQUENTIAL DAMAGES.**

**THE MANUFACTURER, ALL PHASE FABRICATION, L.L.C., HEREBY EXPRESSLY DISCLAIMS ALL WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE EXCEPT THOSE OTHERWISE EXPRESSLY GRANTED HEREUNDER, AND MANUFACTURER NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY LIABILITY IN CONNECTION WITH THE SALE OF THIS EQUIPMENT.**