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THE CHOICE OF ASPHALT PROFESSIONALS WORLDWIDE

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INTRODUCTION

The KM International Team would like to take this opportunity to THANK YOU for your purchase of the KM LB 2-16 Infrared Asphalt Recycler (LB 2-16). We at KMI are confident that your newest Infrared asphalt surface heater will offer years of safe, reliable and cost effective “IN PLACE ASPHALT RECYCLE and REPAIR.” KM International, Inc. has acquired and developed a number of strengths that has fostered KMI’s worldwide reputation as the “INFRARED PROCESS EXPERTS”. We have designed, developed and set the “Gold” and “Green” standards for Infrared use. We are the preeminent authority on the “Infrared Process” of in place “asphalt surface heating” and “recycle and repair.” We have fostered an ongoing industry standard of quality and excellence that continually exceeds our customers’ expectations in all of our product offerings including our “Infrared” line of equipment, crack maintenance and repair equipment, Hot Box Asphalt Reclaimers and Asphalt Recyclers.

Our commitment to the design and manufacture of the highest quality asphalt surface maintenance and repair equipment on the market is not just a “quote on the wall” but rather the driving force for the entire KMI team. Our 26 years in the Infrared and asphalt maintenance industries has provided KM INTERNATIONAL the necessary experience and knowledge of “IN PLACE ASPHALT RECYCLE and REPAIR” to give our customers the “peace of mind” that only experience and knowledge can provide; experience and knowledge that our customers have come to rely on. The Management Team at KM INTERNATIONAL is confident that YOUR purchase of the KM LB 2-16 will be the basis for a long standing and mutually profitable relationship. The Goal at KM INTERNATIONAL has and will always be to manufacture infrared heaters that provide our customers cost savings, purchase justification and profitability.

The KM LB 2-16 Infrared Asphalt Recyclers are designed to give years of dependable high performance service. Their solid welded construction stands up well to commercial use. The simple, straightforward design has little to go wrong and can be maintained easily. The compacted fold up design makes the LB 2-16 IR easy to use, transport and store.

The KM LB 2-16 Infrared Asphalt Recycler provides two (2) 2 foot x 4 foot independently controlled infrared zones for a total coverage of 16 sq. ft.), as the name indicates two (2) zones for 16 sq. feet hence the name KM LB 2-16. It is designed to be used to heat and repair asphalt of varying sizes and shapes making it the most versatile and efficient Infrared Asphalt Recycler on the market.

The serial number for this machine is located on a serial tag on the front of the machine and is included on the last page of this manual. Please be sure to retain this manual. It is a convenient information source that should be consulted regularly.
SAFETY AND WARNING INFORMATION

Please **READ and UNDERSTAND** these operating instructions carefully **PRIOR TO ATTEMPTING TO OPERATE** the KM LB 2-16 Infrared Asphalt Recycler. **FAILURE TO FOLLOW** these instructions and the safety warnings on the KM LB 2-16 may result in a possible **FIRE HAZARD** and will void the warranty. Any safety screen or guard removed for servicing must be replaced before operating the LB 2-16 Infrared Asphalt Recycler. **DO NOT USE** the LB 2-16 Infrared Asphalt Recycler if any part(s) has been damaged or placed under water. **DO NOT OPERATE** if the ceramic refractory blanket is wet or damaged. **DO NOT OPERATE** if the side safety panels have been removed. If the LB 2-16 is not working or has been damaged in any way **IMMEDIATELY CALL** a qualified service technician to inspect the infrared heater and/or to replace any part of the control system and any gas control, which has been damaged.

**THIS UNIT REQUIRES PROPANE GAS OR A SIMILAR TYPE GAS.** Repair should be **PERFORMED** by a qualified service person. The LB 2-16 Infrared Asphalt Recycler system should be **INSPECTED** before initial use and at least annually by a professional KMI service person. It is **IMPERATIVE** that the unit’s control compartment, burners, and circulating air passageways **ARE KEPT CLEAN** to provide for adequate combustion and ventilation air. Always **KEEP** the KM LB 2-16 clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

**NEVER OBSTRUCT** the flow of combustion and ventilation air. Keep the front of the KM LB 2-16 CLEAR of all obstacles and materials for servicing and proper operation. Children and adults should be **ALERTED** to the hazards of high surface temperature and should **STAY AWAY** to avoid burns or clothing ignition.

**WARNING:** Always wear protective clothing, including eye and ear protection when operating this or any other equipment. This equipment uses an open flame and requires the proper protection to avoid operator injury.

Safety is a serious concern when working with any fuel combustion system and the KM LB 2-16 Infrared’s propane system should be no exception. As with all KMI infrared heaters, the KM LB 2-16 is intended for **outdoor use only**. Gas leaks present a danger and should be tested for daily. Use a strong soap solution around fittings, bottles and hoses, watching for bubbles. **NEVER** use a flame to locate a suspected leak.

The **KM LB 2-16 Infrared Asphalt Recycler** is designed to heat asphalt to a working temperature in excess of three hundred (300) degrees. The desired surface temperature can be a hazard and requires all necessary caution. The heat can and will get **DANGEROUSLY** hot very quickly; care and caution must be observed at all times.

**WARNING:** Explosions can occur if gas is present!!!!!!!!!
Be aware of your surroundings. Use caution around buildings, utility wires, combustibles, excess seal coat, flammable gasses from manhole covers, landscaping material, dry weeds and grasses, or buried utilities, etc. to prevent damage from heat or fire.
Whenever heating on or around manholes and other underground utilities, always check with the local utility company for presence of gas or combustibles. Use a gas sniffer or detector to determine flammable hazards. Do not ever use an open flame to check for flammable gases.

CAUTION: When heating asphalt where rubber crack fill exists, take extreme care as the rubber may catch fire. It may be necessary to manually cycle the heating sequence in order to heat the surface more slowly. A slower heating process minimizes the potential to flash ignite the rubber. The same procedure may also be necessary while heating over fresh or excessive sealcoat.

IT IS HIGHLY RECOMMENDED THAT YOU HAVE A FIRE EXTINGUISHER ON YOUR JOB SITE AT ALL TIMES.

WARNING: Inspect all fuel lines and connections daily before using the KM LB 2-16 infrared. DO NOT use if damaged in any way. DO NOT allow the fuel line to lie against the bottom of the machine or on any hot surface during use. DO NOT expose the hose in any way to heat or physical abuse during operation.

HOW the HEATING SYSTEM WORKS
The blower constantly forces air through the micro-spaces in the ceramic refractory fiber blanket. When the control valves are opened, propane gas is mixed with this air. The pilot light then ignites as shown in Figure 2. This results in the combustible mixture, at the lower surface of the blanket, to ignite on the surface of the ceramic blanket as shown in Figure 1. Flame is never present behind the blanket. The flame spreads evenly across this lower surface and quickly turns red-orange hot. The long wave radiant energy or Infrared that is developed then penetrates the asphalt surface. The KMI Infrared heating process is the only one of its kind in the industry. The heater utilizes automatically timed cycles that turn the heater on and off during use. The process was specifically designed by the KMI Team to allow for
deeper penetration of the asphalt without burning or scorching the surface. The KM International Infrared Process allows the heated asphalt to be reused and provides a better longer lasting seamless repair. **WARNING:** Heat escaping from under the KM LB 2-16 Infrared causes the bottom sides of the unit to get very hot. Be sure that the blower has gone through its final cooling cycle. Depending on ambient conditions, the heaters may still be hot enough to cause serious injury. **SHOW CARE & CAUTION** when loading and transporting.

**POSITIONING THE UNIT**

1. Remove the protective cover from the heat deck and inspect the unit for serviceability. Visually inspect the ceramic blanket and its retainer frames, nuts and washers.

2. Maneuver the unit in position at the area of repair.

3. Unlock the heating panel and lower it to the ground over the repair. The LB 2-16 is ready for operation.

**Helpful Hint:** If you anticipate multiple moves to complete a repair, position the unit so that you will not be placing the bottle rack & tires over a newly completed repair area.

4. For repositioning after heating an area of repair lift the heating panel back into its locked travel position using the handles affixed to the outside corners, maneuver the unit and lower the panel. **CAUTION:** Exhausting heat will escape around the edges of the machine and can severely burn the operator. **ALWAYS** wear protective gear!

**The unit is supplied with a deep cycle marine gel battery and appropriate 110 volt charger. Charge the battery over night before placing the unit into service.**

**OPERATION**

1. Connect the LP hose connection and 12V battery line.

2. Slowly open both 30 lb. propane cylinders. Be sure not to activate the propane excess flow safety valves. Note: Opening a valve too quickly will activate an excess flow valve that limits the flow of fuel through the hoses.

3. Turn ON the ON/OFF Toggle Switch. The LB 2-16 will begin its cycling sequence. The pilot light will automatically ignite.

- Each of the two independent zones is controlled by a manual zone On/Off valve located on top of the control box. Determine which zone (or zones) you will need for your repair and move the
valve lever to the full open position. The unit will cycle the zones automatically. To end the heat cycle, simply turn the ON/OFF Toggle Switch to the OFF position.

4. The voltmeter will indicate a voltage above 12 volts for a well-charged battery. You should hear the blower run followed shortly by the click of the solenoid gas valve turning on. The 0-15 PSI gauge located on the control panel will indicate 8.5 PSI in the distribution manifold. The pilot should light almost immediately and ignite the heating zones within a few seconds.

- After about one minute the machine should begin a repetitive cycle of approximately 10 seconds off and 40 seconds on. If the asphalt begins to burn or smoke excessively after a few minutes, the switch can be turned off for a short period. The blower will always continue to run for about one and a half minutes after the switch is turned off. The air assures that all the propane has been exhausted from the system and cools the ceramic blanket.

5. When done working the LB 2-16, turn OFF the propane bottles and allow the machine to run until the fuel line is completely empty. All gauges will read 0 PSI.

6. Turn the toggle switch OFF. The blower will continue to run automatically for approximately 1½ minutes.

REMEMBER: Heat escaping from under the LB 2-16 causes the bottom sides of the unit to get hot. SHOW CARE & CAUTION when loading and transporting.

ADJUSTING THE ZONES

CAUTION: VIEW FROM AT LEAST 8 FEET AWAY!

From time to time it may be necessary to re-adjust the gas/air ratio of a zone. Adjustment of the improperly heating zone is best done in dim light. Safely position the LB 2-16 onto nonflammable blocks that will allow visual inspection of the heating panel in working position (facing the pavement) during heating from at least 8 feet away.

There are three (3) mixture adjustment valves located on the control panel. Two are connected to their corresponding heat zones. The third is located toward the middle and is the mixture adjustment valve for the pilot light. The mixture adjustment valves have round handles, which should move stiffly when turned by hand. If any handles move loosely, tighten the packing nut that is on the shaft beneath the handle.

The ideal heating zone adjustment turns the blanket red/orange hot.
Clockwise rotation closes the adjustment valve, leaning the mixture to that zone. Counterclockwise richens it. Turn slowly because a small adjustment can make a big difference. If a blue flame layer is visible a distance below the blanket, the mixture is too rich. A patchy blue dancing flame close to blanket means the mixture is too lean. Try several positions as you zero in on the optimum adjustment. Compare the zones.

**CHANGING BOTTLES**
During the course of a day bottles may cease their supply of propane pressure. They may run out of propane or on cold days with extensive use they may “freeze up,” leaving some amount of cold liquid propane in them. It is necessary to replace these bottles with full ones. Simply turn off all the propane valves, turn off the toggle switch and then remove the POL fitting (left-hand threads) from the bottles. Loosen the chains and replace the bottles. Frozen bottles may be useable when they warm up, if they are not too empty.

**CAUTION:** ENSURE ALL SAFETY STANDARDS ARE FOLLOWED WHEN PROPANE BOTTLES ARE UNDER PRESSURE. BURNS MAY OCCUR.

**REGULATOR OPERATION**
Your regulator is equipped with a vent which allows the diaphragm to “breathe”. The diaphragm of the regulator moves down and draws air into the bonnet or adjustment spring housing. When the diaphragm moves up, air is expelled through the vent. In the event that excess pressure builds up in the lower housing or body of the regulator, a relief mechanism vents it to the atmosphere. It is imperative to check the vent frequently to be sure it is clean and free of water, corrosion or obstruction, as clogging is a potential cause of regulator malfunction.

Great care has been taken in the manufacture of your regulator and is has been thoroughly tested and UL listed. However, even a small piece of dirt, corrosion, pipe thread compound or other foreign material which finds its way into the regulator can result in higher than normal pressure (high lockup) and/or loss of fuel.

If the vent does become clogged it can easily be cleaned with a toothbrush. In addition, your regulator should be checked periodically by a competent LP serviceman to be sure it is properly adjusted and in safe working condition. By following these simple precautions your regulator should give you years of trouble-free service.

**WHAT IS REGULATOR FREEZE UP?**
A regulator will not freeze, nor will LP gas under normal atmospheric conditions. However, as the gas passes through the regulator it expands and cools and moisture in the gas or in the regulator may turn to ice. This ice can build up and block the orifice and thus partially or totally block the fuel supply. There are a number of things you can do to prevent this type of freeze up:
1. Be sure your LP cylinder is totally free of moisture before it is filled.

2. Be sure your cylinder is not over filled. This is particularly important if you have a permanently mounted ASME tank.

3. Keep the valves on empty cylinders closed.

4. Have your LP gas dealer inject methyl alcohol in your cylinder.

**BLANKET REPLACEMENT**

Your KM Infrared Asphalt Recycler operates using Refractory Ceramic Fiber (ceramic blanket). Respiratory protection is necessary when working with this product. Working in a well ventilated environment is recommended along with respiratory protection. There is NO ASBESTOS in the blanket, however precaution such as is necessary when handling fiberglass house insulation should be used. A mask and gloves are necessary.

The ceramic refractory fiber (ceramic blanket) takes a great deal of thermal stress and in time will need replacement. Inspect the blanket on a regular basis for signs of physical damage or punctures. If damage is evident, replace immediately to prevent a “blown blanket”. Properly installed blankets that are not subjected to physical damage can last for years.

The KM LB 2-16 has been designed to make blanket replacement quick and easy.

The 4-48 is equipped with a refractory ceramic blanket. Please pay attention to the warning label enclosed with the blanket and take the necessary precaution to avoid any hazards.

*It is highly recommended by KMI that the replacement of the heating element, Ceramic Refractory Blanket and all component parts be done by a KM International certified technician.*

KM International recommends that blanket replacements be part of the ongoing maintenance and service provided by the manufacturer. These services are available at our factory in North Branch Michigan. Please contact a sales staff person at 1-800-492-1757 to get information on pricing and availability.

**PRODUCT SAFETY INFORMATION**

**WARNING**

- Fiber released during normal handling can cause skin, eye and respiratory irritation.
- Based on studies of laboratory animals, refractory ceramic fiber is classified as a possible cause of cancer.
Before changing a blanket remove the propane cylinders and battery and position the machine on its back with the blanket facing up.

1. Remove all nuts, washers and the frame from the zone of the blanket to be replaced. It is helpful to put a drop of penetrating oil on all nuts to be removed. Remove the blanket to be replaced.

2. Thoroughly inspect the interior of the zone for obvious deformities (i.e. broken bolts, cracks, warped metal or burned paint). Inspect all silicone around and under the air channels and perimeter framework. If there is any void of silicone it should be re-sealed. Standard 100% silicone caulk (temp. rating 475°F) available at hardware stores is recommended.

3. Clean the interior of the zone of all debris (vacuum).

4. Place a dab of high temperature anti-seize lubricant (gray) available at most auto and hardware stores on all exposed threads.

5. Prepare a flat clean surface to roll the blanket onto and trim edges if necessary. A long blade utility knife works well.

6. As the replacement blanket rolls out from the packaging it will face up and be marked INSIDE. When installed, the writing will be inside the machine and no longer visible.

7. If not already pre-cut, measure the dimensions for the piece to be replaced. To do so measure the length from outside of the perimeter bolt across to the outside of the far opposite perimeter bolt. Repeat this procedure to measure width.

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**WORK PRACTICES**

- Avoid breathing dust and contact with skin and eyes.
- Wear long-sleeved, loose fitting clothing, gloves, and eye protection.
- Use an approved respirator as specified in the MSDS.
- Sawing, installation and tear out may generate fiber/dust concentrations and may require additional respiratory protection. See MSDS for recommendations.

**FIRST AID**

- **Inhalation** – Move to fresh air source, drink water to clear throat, and blow nose to evacuate dust.
- **Eye Contact** – Flush eyes with water to remove dust. If symptoms persist, seek medical attention.
- **Skin Contact** – Wash exposed areas with soap and water after handling.

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- Removal of this product after use at temperatures above 1000°C (1832°F) can result in exposure to crystalline silica. Crystalline silica may cause lung damage (silicosis) and is classified as a possible cause of cancer.
8. With the new blanket rolled flat use a marker to mark the dimensions to be cut. Use a straight edge and a knife to make the cuts. Always cut to the outside of the marks, if it is too long, then it can be trimmed shorter.

   LB 2-16 Blanket dimensions: Zone 1: 21 ¾” x 42”. Zone 2: 20 ¼” x 42”.

9. When working with and installing the ceramic blanket it is important to use caution not to damage it with a hole, cut or tear. Install the new piece by carefully laying it on the retainer bolts. Using the palm of your hand, gently push the blanket onto the retainer bolts, forcing the threads thru the blanket. When installed, “INSIDE” will face the machine. The blanket should fit snug from edge to edge and should not have any sags between retainer bolts.

10. Re-install the frame, washers and nuts. When installing the washers place the smooth side down on the blanket.

   a) Tighten the outside perimeter nuts snug to the bushing.
   b) Tighten the interior frame nuts (frame to frame) to show one-to-two (1-to-2) threads above the nut.
   c) Tighten the nuts on the interior retaining bolts which suspend the blanket to show flush to one (0-1) thread. DO NOT OVER TIGHTEN!

11. Inspect to be sure all nuts are “snugged” properly and that everything looks in workable condition.

12. Before placing the machine back into operation the zones should be adjusted for proper heating. Refer to ADJUSTING THE ZONES for the adjustment procedure.

**TROUBLE SHOOTING**

Problem: Nothing happens when the switch is turned on.

- Dead Battery – Recharge or replace.
- Blown Fuse – Check, replace.
- Bad switch – Try a jumper wire between the fuse and the wired terminal on the voltmeter. If the blower now runs, replace the toggle switch.
- Loose Wire – Look for possible corrosion.
- Verify that batter power supply cord is in place and twist-locks are secure at both ends.

Problem: Voltmeter registers acceptable voltage but blower fails to run.

- Bad Blower Relay (located on the side of the control panel) – Disconnect the four (4) prong blower delay relay (gently pull the connector wire out from under the control panel). On the female half of the connector, use a short piece of wire (jumper wire) to connect the brown wire and yellow wire contacts together. If the blower runs, then the blower delay is faulty and should be replaced.
- Bad blower – If the blower still fails to run it should be replaced after checking its ground.

Problem: Blower runs but solenoid valve won’t “click” on. No low pressure gauge reading. Follow all test procedures with the fuel cylinders CLOSED in the OFF position!

- Air Pressure Switch Failure – Locate the pressure switch mounted on the side of the control panel. Remove the cover, exposing the terminal connections. Using a short jumper wire, connect the two terminals with wires attached (marked normally open and common). With the toggle switched ON
the solenoid should activate and cycle. (If the solenoid cycles at this point then it is necessary to replace the pressure switch.)

To adjust pressure switch – locate the slotted hexagon screw on top of the pressure switch. Turn the screw counterclockwise until the solenoid valve activates or until it no longer turns. If the solenoid does not cycle at this point then it is necessary to replace the pressure switch.

NOTE: Pressure switches are pre-set at the factory and under normal operating conditions do not require field adjustment.

**Bad Cycling Circuit Box.**

- If in the previous test the solenoid valve does not click on then locate the cycling circuit box (three wired, yellow, brown, & white, black box located on the side of the control panel). With all fuel cylinders off, turn on the toggle switch, disconnect the three (3) prong cycling box (gently pull the connector wire out from under the control panel). On the female half of the connector, connect the brown wire and yellow wire contacts together with a short piece jumper wire. The solenoid valve should click open; if it does open, remove the jumper wire (solenoid will close) and reconnect the 3 prong cycle box. If the solenoid does not re-open, then it is necessary to replace the Cycling Circuit Box.

- Bad Solenoid Valve – If in the previous test the solenoid gas valve still will not click on, all or part of it must be replaced. It is rare to replace this component; before doing so it is recommended to check all ground wires (especially one connected directly from the solenoid valve) and repeat the above test procedures in order to reconfirm the necessity to replace the solenoid valve.

**Problem: Solenoid valve clicks on but pilot won’t light.**

- Fouled Spark Igniter – Check for excess carbon buildup on the spark electrode. Clean with a small brass wire brush or with carburetor spray cleaner, be careful not to get any on the blanket or damage it with the brush.

- Improper Pilot Flame Setting – The pilot flame size is controlled by the needle valve labeled “pilot” on the top of the control panel. Adjust for best lighting. With both heat zones in the off position adjust the pilot so that it lights within 2 seconds of the start of each cycle. Test by turning the toggle switch on and listen for the pilot to ignite, and then turn toggle switch off wait for the pilot to completely extinguish and repeat.

**Problem: Pilot lit but one zone is heating improperly.**

- Zone Out of Adjustment – See “Adjusting the Zones” section

**Problem: Improper propane pressure.**

- Check the 0 –15 psi Gauge – it should read 4.5 to 8.0 psi with no zone valves turned on and just the pilot light working. Adjustment may be made on the regulator located on the control panel.

  **NOTICE:** This equipment should be protected from the weather during storage.

**DANGER: STORING PROPANE CYLINDERS CAN RESULT IN EXPLOSION. Consult local codes for proper propane storage.**

The LB 2-16 is equipped with a refractory ceramic blanket. Please pay attention to the warning label enclosed with the blanket and take the necessary precaution to avoid any hazards.

Always close propane cylinders and be sure to bleed the lines empty when the machine is not in use.
TRAINING POLICY

The optimal and efficient operation of the KM LB 2-16 INFRARED requires instruction on the operation and maintenance of the equipment. We at KMI are very much aware that time is a precious commodity and will take all the steps necessary to ensure that equipment training is done in a professional and expedient manner. We are in the process of developing a library of instructional videos that will be available shortly. We encourage our customers to take advantage of our extremely knowledgeable staff as needed for trouble shooting or to answer equipment operation questions. We are available during normal business hours, 8:30 a.m. to 4:30 p.m. EST, Monday through Friday by phone – (810) 688-1234 or by e-mail at kmi@kminb.com. We encourage you to contact our sales staff to schedule a convenient training session for your staff prior to operation.

If you are using the KMI infrared equipment for applying thermo-plastic or similar product, our technicians are unable to answer specific questions on those application processes. We would encourage the user to contact the applications manufacturer.

Additionally, we encourage our customers to take advantage of our hands on training classes made available to all purchasers and their staff as requested and/or necessary. We have incorporated a small fee associated with on sight training in an effort to encourage education without making the process cost prohibitive or too time consuming for our staff. This small charge will help to keep KMI equipment price competitive and user friendly. KM International will train FREE OF CHARGE any customer or customer employees that travel to the KMI manufacturing facility within the first 90 days of purchase. We would be happy to schedule an appointment for a free ½ day of training on every aspect of equipment maintenance and operation. The customer would be responsible for travel and expenses to the KMI location. Our technical staff is available to schedule an instructional full day of training at the customers site if that is preferred but would require the following:

1. All travel and expense to and from the customer requested location as required, including Hotel and Airfare as necessary. KMI reserves the sole right to determine appropriate and reasonable accommodations and travel.

2. A per-diem food allowance of Fifty U.S. Dollars ($50.00) per technician, or as agreed.

3. A Five Hundred U.S. Dollar ($500.00) per diem off-site man charge per technician, or as agreed, to be paid in advance.

MANUFACTURER RECOMMENDED KM 4-48 INFRARED HEATER BASIC MAINTENANCE AND REPAIR PACKAGES

KM International recommends all of our customers purchase a basic maintenance and repair kit to ensure that they are never left without basic parts at critical times. It is our opinion that while our machines are robust, long lasting and easy to operate there may be parts failures in the field that are never expected but that can result in preventable down time. Please call the sales department to help you determine an appropriate maintenance and recommended repair parts package.
At KMI we are the “Infrared Experts” and pride ourselves in manufacturing only the highest quality equipment available in the infrared heat industry. Our commitment to the design and manufacture of the highest quality equipment in the market is not just a “quote on the wall” but rather the driving force for the entire KMI Team. KMI has acquired industry experience that provides us with real world knowledge to deal with those isolated instances when a problem develops. If a problem ever develops with your new KM 4-48 Infrared, KM International will take every reasonable action necessary to get you back on the work site and back to work as quickly and effortlessly as possible.

**LIMITED WARRANTY**

KM INTERNATIONAL, INC. (hereinafter called KMI) warrants all equipment manufactured by KMI to be free from defects in material and workmanship on the date of sale to the original end user. With the exception of any special, extended, or limited warranty published by KMI, KMI will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by KMI to be defective. This warranty applies only when the equipment is used for its intended purpose and properly maintained.

This warranty does not cover and KMI will not be liable for general wear and tear, or any malfunction, damage or wear caused by misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-KMI component parts.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized KMI distributor or the factory direct, for verification of the claimed defect. If the claimed defect is verified, KMI will repair or replace free of charge any defective parts. Electrical components shall be returned in total. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation. THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED. KMI’s sole obligation and buyer’s sole remedy for any breach of warranty shall be set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential lost) shall be available. Any action for breach of warranty must be brought within one (1) Year of date of sale. Items sold, but not manufactured by KMI (such as electric motors, electric switch boards, switches, hose, etc) are subject to the warranty, if any, of their manufacturer. KMI will provide purchaser with reasonable assistance in making any claim for breach of these warranties or at KMI’s sole discretion shall accept the return in conjunction with and/or despite the original manufacturers’ warranty.

In no event will KMI be liable for indirect, incidental, special or consequential damages resulting from KMI supplying equipment hereunder, or the furnishing performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of KMI or otherwise.
MODEL:  KM LB 2-16 Infrared Asphalt Recycler

PURCHASER:

DATE OF PURCHASE:

SERIAL NUMBER:

Thank you again for your purchase of the KM LB 2-16 Infrared Asphalt Recycler. We are happy to have you as a customer and are confident that you will have years of efficient operation by following the above parameters and guidelines. We encourage an open dialogue with our customers and prize any feedback. Our commitment to our customers is second to none and our desire to improve our equipment is an integral part of our ongoing growth strategy.

Sincerely,

The KM International Management Team.

KM International, Inc.
6561 Bernie Kohler Drive
North Branch, Michigan 48461
(810) 688-1234 * www.kminb.com

Please call the Team at KM International anytime for questions, comments or to just talk “Infrared.”

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**LB 2-16** shown in travel position with protective canvas cover. Remove cover before positioning for heating. Always allow the unit to cool sufficiently before putting the cover on for travel or storage.

- Heating Panel Locking Pin
- 30 lb. LP Cylinders
- 2” x 12” Solid Wheels

**LB 2-16** Shown in working position.

**CAUTION:** Heat escaping around the edges is dangerously hot.

ALWAYS WEAR PROTECTIVE GEAR.

- Heating Panel Lift Handle(s)