

## OPERATOR MANUAL

### Model FCS16 RIP-R-STRIPPER® Floor Covering Stripper

Do not discard this manual. Before operation, read and comprehend its contents. Keep it readily available for reference during operation.

It is important to remember that this product will only be as safe as the operators which utilize it. It just makes good, common sense to take the time to read and fully understand the contents of this manual before attempting to utilize this product in service.

### BLADE CONFIGURATIONS, ACCESSORY ATTACHMENTS AND APPLICATIONS.

RIP-R-STRIPPER blades are fabricated from high carbon steel, precision machined and heat treated for extended service life. Blades are marked to depict use on either concrete or wood surfaces. When utilized on concrete, the cutting edge is positioned facing up. On wood flooring surfaces, the cutting edge faces down against the surface. This configuration allows the blade to skim over the surface and minimize any tendency to gouge or dig into the wood. A slotted blade configuration is employed to lower installation and removal time. The slotted configuration is also intended to help minimize direct exposure of hands, arms and other body parts to the blade during the installation or removal process. A protective covering is provided to protect the blade cutting edge from external damage and minimize the potential for property damage and/or personal injury. Store the blade with the protective covering properly installed to minimize the effects of external damage to the cutting edge and the potential for property damage and/or personal injury.

THE BLADE IS EXTREMELY SHARP. IMPROPER HANDLING WHILE REMOVING FROM THE PACKAGE, REMOVING/REINSTALLING THE PROTECTIVE CUTTING EDGE COVER, INSTALLING/REMOVING FROM THE MACHINE OR WHILE IMPROPERLY TRANSPORTING CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

While individual blade or accessory attachment design and configuration may vary, basic operational characteristics are identical: impact against a floor surface and remove the covering material. This common operational characteristic has led to the development of the following popular blade configurations and accessory attachments:

#### Angled mastic removal blade.

This blade configuration is utilized to remove a wide variety of adhesives, mastics and material residues from concrete surfaces. The steep angle increases the cutting edge position relative to the floor surface. The angle increase allows the blade to better penetrate the material and then shear and scrape it from the floor surface. The cutting edge faces down toward the floor surface. Angled mastic blades are utilized on concrete surfaces only. Use on wood surfaces will only dig into and remove substrate material.

#### Straight beveled cutting edge blade.

This blade configuration is utilized to remove a wide variety of VCT and linoleum tiles along with general material removal from concrete and wood surfaces. Some blades feature two cutting edges. Position the blade edge facing up for use on concrete surfaces. Flip the blade over for use on wood surfaces. Specific blades are available for removing covering materials from either concrete or wood surfaces. This blade design does not allow it to be flipped over for use on both concrete and wood surfaces.

Straight beveled scoring blades.

This blade configuration is utilized to remove glued type carpet and soft sheet type (PVC, rubber, linoleum, etc) materials from concrete and wood surfaces. The cutting wings score the covering material to aid in removal. Specific part numbers are available for removing covering materials from either concrete or wood surfaces. The blade design does not allow it to be flipped over for use on both concrete and wood surfaces. Use of a straight beveled scoring blade with the cutting wings positioned down and against the work surface can result in unrepairable surface damage and personal injury.

Ceramic tile ripper attachment.

This attachment is designed for light to medium duty projects requiring the removal of ceramic, thicker VCT and linoleum tiles, hardwood floors, etc, from concrete and wood surfaces. The primary design function for the RIP-R-STRIPPER is not to remove ceramic tile. Removing ceramic tile is a secondary job application that may require the use of a machine and/or process with significant greater stability, power and/or impact force. The RIP-R-STRIPPER has demonstrated the ability to remove ceramic tile for those job applications classified as light to medium duty. An improper job application for the RIP-R-STRIPPER may result in property damage and/or personal injury.

INSTALLING A BLADE OR THE CERAMIC TILE RIPPER ATTACHMENT TO THE RIP-R-STRIPPER.  
Tools required: 1 each, 5/32 inch T-handled Allen wrench provided with the machine.

Parts required: 1 each, blade appropriate for the job application or the ceramic tile ripper attachment.

WHEN INSTALLING OR REMOVING A BLADE OR THE CERAMIC TILE RIPPER ATTACHMENT TO/FROM THE RIP-R-STRIPPER ALWAYS WEAR THE APPROPRIATE SAFETY EYEWEAR, GLOVES, LEATHER SHOES AND LONG PANTS TO MAXIMIZE PERSONAL PROTECTION FROM THE SHARP EDGE(S). IMPROPER CONTACT WITH A SHARP EDGE CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

1) Properly disconnect the extension cord or the RIP-R-STRIPPER from the power source.

2) To place the operator handle in the work position, move the handle upright so that the ball-detent pins can be inserted through the operator handle and main frame. Determine the ball-detent pins are inserted through the operator handle and main frame to fully expose the ball detent.

THE BALL DETENT MUST BE FULLY EXPOSED AGAINST THE MAIN FRAME TO PROVIDE THE PROPER PIN RETAINING FORCE. AN IMPROPER PIN RETAINING CONFIGURATION CAN RESULT IN UNEXPECTED OPERATOR HANDLE MOVEMENT. THIS OCCURRENCE CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

3) Loosen the threaded handle knobs and extend the operator handle out until it stops against the threaded studs. Retighten the knobs. Improper knob tension and/or improperly securing the operator handle to the main frame can result in an unstable platform configuration. An unstable platform configuration can result in property damage and/or personal injury.

4) Tilt the RIP-R-STRIPPER back until the operator handle comes in contact with the surface. The RIP-R-STRIPPER may not be in a stable position in this configuration. To minimize the possibility of property damage and/or personal injury, properly secure an appropriate weight to the handle for added stability. Other means can also be utilized to support the frame and provide proper machine stability. Appropriate wheel chocks are also recommended.

EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR UNDER THE RIP-R-STRIPPER WITH THE OPERATOR HANDLE TILTED BACK IN THE SERVICE POSITION. IF THE RIP-R-STRIPPER IS NOT POSITIONED IN A STABLE CONFIGURATION , WITH ADEQUATE COUNTERWEIGHT PROPERLY SECURED, UNEXPECTED MOVEMENT CAN ALLOW THE MACHINE TO FALL BACK TO THE WORK SURFACE. THIS OCCURRENCE CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

5) Wear proper safety apparel and equipment. Use the T-handled Allen wrench to loosen the button head cap screws which secure the fence plate to the exciter plate. This will allow the blade to slide in between the fence plate and the exciter plate. IT IS NOT NECESSARY TO REMOVE THE FENCE PLATE FROM THE EXCITER PLATE. The fence plate has an integral stop which the edge of the blade thrusts up against. Blades are provided with a covering that protects the cutting edge. Do not remove the protective covering until you are ready to operate the RIP-R-STRIPPER. Exercise extreme caution when removing and/or reinstalling the protective cover.

6) Two attachment configurations for blades are utilized. Narrow (less than 6 inches wide) blades are positioned between the two button head cap screws and thrust up against the fence plate stop.

13. Use the T-handled Allen wrench to tighten the button head screws. Wider (greater than 6 inches wide) blades incorporate a slotted design which slides around the button head cap screws. The slots afford increased clamping pressure for the wider blades during the covering removal process. SLOTS ALSO MAKE IT UNNECESSARY TO REMOVE THE FENCE PLATE FROM THE EXCITER PLATE. Use the T-handled Allen wrench to tighten the button head cap screws. If the RIP-R-STRIPPER is to be utilized immediately, remove the protective cover from the blade. If the RIP-R-STRIPPER is not be utilized immediately, do not remove the protective covering from the blade.

7) The installation of the ceramic tile ripper attachment is similar to that of a blade with the exception that the fence plate is removed from the exciter plate. The ceramic tile ripper attachment fastens directly to the exciter plate. Follow the same tightening procedure as with a blade. For all blades and the ceramic tile ripper attachment, tighten the button head cap screws with the T-handled Allen wrench provided. Do not utilize another wrench type and/or configuration. The T-handled Allen wrench was chosen to place body parts a practical distance from the blade during the fastener tightening and loosening process. Do not apply excessive impact force to the button head cap screws. Ample seating torque can be applied by the T-handled Allen wrench and normal arm strength levels. Excessive impact force can cause the T-handled Allen wrench to slip out of the button head cap screw, resulting in property damage and/or personal injury. Do not substitute a different fastener type for the button head cap screw configuration. The button head configuration was chosen for operational considerations. The use of other fastener types can increase the potential for property damage and/or personal injury.

BLADES ARE EXTREMELY SHARP. CONTACT WITH THE BLADE CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY. BLADES ARE PROVIDED WITH A PROTECTIVE COVER OVER THE CUTTING EDGE. EXERCISE EXTREME CAUTION WHEN REMOVING AND/OR REINSTALLING THE PROTECTIVE COVER. STORE THE BLADE WITH THE PROTECTIVE COVER PROPERLY INSTALLED TO MINIMIZE THE POTENTIAL FOR BLADE DAMAGE AND/OR PERSONAL INJURY.

8) Return the RIP-R-STRIPPER to its normal operating position.

9) Determine that the ON/OFF switch located on the operator handle is in the OFF position. If the RIP-R-STRIPPER is to be used immediately, then reconnect the extension cord or RIP-R-STRIPPER to the power source.

UNEXPECTED MACHINE START UP CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

REMOVING THE BLADE OR CERAMIC TILE RIPPER ATTACHMENT FROM THE RIP-R-STRIPPER.  
Tools Required: 1 each, 5/32 inch T-handled Allen wrench provided with the machine.

WHEN INSTALLING OR REMOVING A BLADE OR THE CERAMIC TILE RIPPER ATTACHMENT TO/FROM THE RIP-R-STRIPPER, ALWAYS WEAR THE APPROPRIATE SAFETY EYEWEAR, GLOVES, LEATHER SHOES AND LONG PANTS TO MAXIMIZE PERSONAL PROTECTION FROM THE SHARP EDGE(S). IMPROPER CONTACT WITH A SHARP EDGE CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

1) Properly disconnect the extension cord or the RIP-R- STRIPPER from the power source.

2) To place the operator handle in the work position, move the handle upright so that the ball-detent pins can be inserted through the operator handle and main frame. Determine the ball-detent pins are inserted through the operator handle and main frame to fully expose the ball detent.

THE BALL DETENT MUST BE FULLY EXPOSED AGAINST THE MAIN FRAME TO PROVIDE THE PROPER PIN RETAINING FORCE. AN IMPROPER PIN RETAINING CONFIGURATION CAN RESULT IN UNEXPECTED OPERATOR HANDLE MOVEMENT. THIS OCCURRENCE CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

3) Loosen the threaded handle knobs and extend the operator handle out until it stops against the threaded studs. Retighten the knobs. Improper knob tension and/or improperly securing the operator handle to the main frame can result in an unstable platform configuration. An unstable platform configuration can result in property damage and/or personal injury.

4) Tilt the RIP-R-STRIPPER back until the operator handle comes in contact with the surface. The RIP-R-STRIPPER may not be in a stable position in this configuration. To minimize the possibility of property damage and/or personal injury, properly secure an appropriate weight to the handle for added stability. Other means can also be utilized to support the frame and provide proper machine stability. Appropriate wheel chocks are also recommended.

EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR UNDER THE RIP-R-STRIPPER WITH THE OPERATOR HANDLE TILTED BACK IN THE SERVICE POSITION.

IF THE RIP-R-STRIPPER IS NOT POSITIONED IN A STABLE CONFIGURATION, WITH ADEQUATE COUNTERWEIGHT PROPERLY SECURED, UNEXPECTED MOVEMENT CAN ALLOW THE MACHINE TO FALL BACK TO THE WORK SURFACE. THE RESULT CAN BE PROPERTY DAMAGE AND/OR PERSONAL INJURY.

5) Reinstall the protective blade cover. Exercise extreme caution when removing and/or reinstalling the protective cover. Use the T-handled Allen wrench to loosen the button head cap screws which secure the blade between the fence plate and exciter plate. Remove the blade and store in an appropriate location. Use the T-handled Allen wrench to tighten the button head cap screws. Keep the button head cap screws tight to minimize becoming lost.

6) The removal of the ceramic tile ripper attachment is similar to that of a blade with the exception that the fence plate is reinstalled to the exciter plate. Follow the same tightening procedure as with a blade. For all blades and the ceramic tile ripper attachment, tighten the button head cap screws only with the T-handled Allen wrench provided. Do not utilize another wrench type and/or configuration. The T-handled Allen wrench was chosen to place body parts a practical distance from the blade during the fastener tightening and loosening process. Do not apply excessive impact force to the button head cap screws. Ample seating torque can be applied by the T-handled Allen wrench. Excessive impact force can cause the T- handled Allen wrench to slip out of the button head cap screw, resulting in property damage and/or personal injury.

Do not substitute a different fastener type for the button head cap screw configuration. The button head configuration was chosen for operational considerations. The use of other fastener types can increase the potential for property damage and/or personal injury.

BLADES ARE EXTREMELY SHARP. CONTACT WITH THE BLADE CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY. BLADES ARE PROVIDED WITH A PROTECTIVE COVER OVER THE CUTTING EDGE. EXERCISE EXTREME CAUTION WHEN REMOVING AND/OR REINSTALLING THE PROTECTIVE COVER. STORE THE BLADE WITH THE PROTECTIVE COVER PROPERLY INSTALLED TO MINIMIZE THE POTENTIAL FOR BLADE DAMAGE AND/OR PERSONAL INJURY.

7) Return the RIP-R-STRIPPER to its normal operating position.

8) Determine that the ON/OFF switch located on the operator handle is in the OFF position. If the RIP-R-STRIPPER is to be used immediately, then reconnect the extension cord or RIP-R-STRIPPER to the power source.

UNEXPECTED MACHINE START UP CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

#### OPERATIONAL DISCLAIMER.

THE MANUFACTURER OF THE RIP-R-STRIPPER MAKES NO WARRANTY OR GUARANTEE THAT IT IS MERCHANTABLE AND/OR SUITABLE FOR ANY SPECIFIC JOB APPLICATION AND THAT IT WILL HAVE THE CAPABILITY AND POWER REQUIRED TO REMOVE ANY SPECIFIC COVERING FROM ANY SPECIFIC WORK SURFACE.

#### INFORMATION RELATIVE TO MINIMUM COMPONENT STANDARDS FOR THE OPERATION OF THE RIP-R-STRIPPER.

For operational safety and overall productivity\considerations, it is required that specific RIP-R-STRIPPER components meet minimum acceptable operational standards BEFORE utilization:

1) Operator handle be properly mounted to the main frame, with factory supplied ball-detent type retaining pins that properly secure the handle to the main frame while in the work position.

2) The operator handle is equipped with properly fitting handle grips of sufficient integrity to allow for proper job function as outlined within this manual. Loose fitting handle grips or grips without full end caps are not permitted.

3) An ON/OFF motor switch that allows it to perform its intended job function as outlined within this manual. Replace any damaged ON/OFF motor switch with a factory approved replacement part only.

4) An extension cord and GFI that allows this accessory to perform its intended job function as outlined within this manual. Replace any damaged extension cord or GFI with a factory approved replacement part only.

5) Exciter plate elastomeric rubber mounts which allow them to perform their intended job function as outlined within this manual. Do not operate the RIP-R-STRIPPER without the correct number of exciter plate elastomeric rubber mounts. Do not operate the RIP-R-STRIPPER with a damaged and/or improperly secured rubber mount. Replace any damaged rubber mount with a factory approved replacement part only.

6) Blade(s) and/or ceramic tile ripper attachment of proper structural integrity (void of cracks, etc), straightness, sharpness, etc which are retained by the proper fasteners. Replace worn or damaged blades, fasteners and the ceramic tile ripper attachment with a factory approved replacement part only.

7) All safety decals, Operator Manual and operational information decals (including the applicable Quik Tips information) must be in proper and readable condition.

Replace any missing or damaged safety decal, Operator Manual and/or information decal with a factory approved replacement part only.

#### TRANSPORTING THE RIP-R-STRIPPER.

The RIP-R-STRIPPER has an operational weight that prohibits one person from loading and/or unloading it alone by conventional, physical efforts.

DO NOT ATTEMPT TO LIFT THE RIP-R-STRIPPER UP INTO A TRANSPORTATION VEHICLE WITH THE USE OF ONE PERSON ALONE. DO NOT ATTEMPT TO LOWER THE RIP-R-STRIPPER FROM A TRANSPORTATION VEHICLE WITH THE USE OF ONE PERSON ALONE. LIFT AND/OR LOWER THE RIP-R-STRIPPER ONLY BY THE USE OF A POWER TAILGATE UNIT, A SUITABLE HOIST UNIT OF PROPER CAPACITY AND/OR CONFIGURATION OR BY THE USE OF A PROPER QUANTITY OF PERSONNEL IN PROPER PHYSICAL/MENTAL CONDITION.

1) The RIP-R-STRIPPER can be hoisted by a mechanical device incorporating a chain and suitable attachment device to the lifting bail area located behind the electric motor. This location may not always locate the exact position of the center of gravity for the RIP-R-STRIPPER. Lifting handles are also provided on both sides of the main frame. These handles can be utilized by personnel whenever lifting/lowering the RIP-R-STRIPPER.

EXERCISE EXTREME CAUTION WHEN UTILIZING A MECHANICAL DEVICE FOR LIFTING THE RIP-R-STRIPPER. UTILIZE THE MECHANICAL DEVICE IN ACCORDANCE TO BOTH ITS DESIGNED STATIC AND DYNAMIC LOADING ENVELOPES. DO NOT UTILIZE THE MECHANICAL DEVICE UNTIL THIS INFORMATION IS PROPERLY KNOWN AND UNDERSTOOD BY ALL APPLICABLE PERSONNEL. FAILURE TO PROPERLY UTILIZE THE MECHANICAL DEVICE CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

Do not drop the RIP-R-STRIPPER directly upon the exciter plate. Direct impact against the exciter plate can result in damage to components including the plate, elastomeric rubber mounts, electric motor shaft, bearings, etc.

2) To minimize the possibility of damage to the RIP-R-STRIPPER, always transport in its normal, upright position. All equipment must be secured in/on vehicles with suitable strapping or tie-downs. Personnel should not be transported in the same compartment as equipment. Consult applicable OSHA and transportation regulations (local, State and Federal) for the proper transportation of the RIP-R-STRIPPER.

3) Do not transport the RIP-R-STRIPPER with a blade or the ceramic tile ripper attachment attached to the main frame in the following configurations:

- a) To and from the job site.
- b) For longer distances while being repositioned on the job site.
- c) When traversing up and down stairways.
- d) While performing maintenance and/or repairs.
- e) Lifting up/into or/down from a transporting vehicle.

Remove the blade or ceramic tile ripper attachment according to the procedures as outlined in this manual for the above listed configurations.

LIFTING, LOWERING AND TRANSPORTING THE RIP-R-STRIPPER WITH A BLADE OR CERAMIC TILE RIPPER ATTACHMENT INSTALLED CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

4) When transporting to and from the job site, block the bottom of the main frame to prevent direct impact blows against the exciter plate. This procedure will reduce impact loads directly to the elastomeric rubber mounts, minimize their deflection and increase service life.

#### ADJUSTING THE OPERATOR HANDLE HEIGHT.

The RIP-R-STRIPPER incorporates a handle that can be adjusted to compensate for variances in operator height. Handle height can be infinitely varied between the stop limits. No external tools are required. Correct handle height can increase overall machine productivity and reduce operator fatigue.

1) Loosen the handle knobs located at the rear of the handle. Extend the knobs out approximately 1/2 inch.

2) Position the operator handle grips at a height convenient to the specific operator. In most configurations, the operator handle grips will be at approximately waist level.

3) Tighten the handle knobs finger tight. Determine the adjustable section of the operator handle is properly secured tight against the fixed section. Improper knob tension and/or improperly securing the operator handle to the main frame can result in an unstable platform configuration. An unstable platform configuration can result in property damage and/or personal injury. DETERMINE THE THREADED STUDS ARE PROPERLY SEATED AGAINST THE SLIDING SECTION OF THE OPERATOR HANDLE. THE ADJUSTABLE SECTION MUST BE FIRMLY SECURED TIGHT AGAINST THE FIXED SECTION OF THE OPERATOR HANDLE. IMPROPERLY SECURED STUDS CAN RESULT IN INADVERTENT OPERATOR HANDLE MOVEMENT AND/OR SEPARATION, RESULTING IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

STARTING THE RIP-R-STRIPPER ON THE JOB SITE.

1) Position the RIP-R-STRIPPER on a flat and level surface of firm foundation.

2) Install a blade or the ceramic tile ripper attachment per the procedures as outlined in this manual.

3) Determine that the ON/OFF switch located on the operator handle is in the OFF position.

UNEXPECTED MACHINE START UP CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

4) The RIP-R-STRIPPER is designed to operate from a clean, 15 ampere, 115 VAC, 60 Hz, nominal power source. A clean power source refers to the amperage available from the individual electrical circuit selected. Additional electrical products already utilizing the same circuit will reduce the available amperage, and can result in starting and operational difficulties. Operating the RIP-R-STRIPPER from a power source of improper voltage and/or amperage will result in unrepairable damage to the electric motor and related controls.

5) Providing proper voltage and amperage levels to the electric motor is essential to obtain maximum productivity and service life. Low voltage and amperage levels will cause the motor to overheat. The motor is equipped with an automatic thermal protection device that will stop it before major internal damage can result. After the motor has cooled to an acceptable temperature level, the switch must be manually activated to restart.

6) The RIP-R-STRIPPER utilizes a factory supplied extension cord equipped with an integral GFI device. The GFI device is intended to protect both the operator and electric motor in the event a ground fault is developed during operation. The extension cord is 37 foot long, fabricated from 12 AWG wire and incorporates a NEMA 5-15P plug and a NEMA L5-15R twist lock type receptacle. The twist lock feature allows the extension cord to be pulled by the RIP-RSTRIPPER without becoming disconnected.

BEFORE USE, PROPERLY INSPECT THE EXTENSION CORD AND WIRING DEVICES FOR STRUCTURAL INTEGRITY. DO NOT UTILIZE A CORD WITH A WORN OR CUT OUTER JACKET MATERIAL. DO NOT UTILIZE A CORD WITH EXPOSED INNER WIRES OR INSULATION MATERIAL. DO NOT UTILIZE A CORD THAT HAS BEEN REPAIRED WITH ELECTRICAL TAPE. DO NOT UTILIZE A CORD WITH A CRACKED AND/OR DAMAGED GFI CASE. USE OF AN EXTENSION CORD OF IMPROPER STRUCTURAL I N T E G R I T Y AND/OR DAMAGED GFI CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY. ALL ELECTRICAL WIRING, INCLUDING EXTENSION CORD GAUGE SIZE AND/OR LENGTH, MUST BE INSTALLED AND/OR APPROVED IN ACCORDANCE TO LOCAL ELECTRICAL CODES AND PRACTICES. AN IMPROPER WIRING INSTALLATION CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

7) Determine that the power source receptacle to be utilized is properly grounded. This can be accomplished with proper testing equipment and procedures. If there are any questions regarding the suitability of a specific power receptacle, contact CROWN RENTAL for assistance BEFORE utilizing the RIP-R-STRIPPER. There is no charge for this service. A qualified electrician may need to be consulted.

8) If additional extension cord length is required for a specific job application, an additional extension cord can be utilized in conjunction with an external GFI. Plug the receptacle of the additional extension cord into the factory supplied GFI. Plug the ground fault circuit interrupter into a separate power source receptacle. Connect the extension cord plug into the external GFI. This configuration will allow any fault over the length of a defective extension cord to be indicated. Extension cord gauge size and length must conform to National Electric Code standards.

FOR MAXIMUM PROTECTION AGAINST A FAULT, ALWAYS CONFIGURE A GROUND FAULT CIRCUIT INTERRUPTER TO BE PLUGGED INTO THE POWER SOURCE RECEPTACLE. A CONFIGURATION WITH THE GROUND FAULT CIRCUIT INTERRUPTER PLACED BETWEEN THE RIP-R-STRIPPER AND THE POWER SOURCE RECEPTACLE WILL NOT AFFORD MAXIMUM PROTECTION AGAINST A POTENTIAL FAULT.

9) Couple the NEMA L5-15R receptacle of the factory supplied extension cord and the NEMA L5-15P plug located on the RIP-R-STRIPPER together. Twist to lock. Connect the GFI to the power source receptacle. Determine that the reset switch is in its proper position to activate the GFI.

10) Grasp the operator handle with firm gripping. When starting the electric motor, apply a down force directly to the operator handle to help reduce the amount of static machine weight against the work surface. The blade or ceramic tile ripper attachment should remain in contact with the surface. Turn the ON/OFF switch to the ON position. Reduce the amount of applied down force on the operator handle as the electric motor attains its operational speed.

11) The RIP-R-STRIPPER is not equipped with a centrifugal clutch assembly. The electric motor is directly coupled to the exciter plate. The exciter plate will begin to move when the electric motor starts.

AS SOON AS THE ELECTRIC MOTOR HAS STARTED, THE OPERATOR MUST BE IN A POSITION TO ASSUME DIRECT AND FULL CONTROL OF THE RIP-R-STRIPPER. FAILURE TO ASSUME DIRECT AND FULL CONTROL CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

12) The RIP-R-STRIPPER is stopped by moving the ON/OFF switch located on the operator handle to the OFF position. For safety considerations, it is also recommended that the extension cord be disconnected from both the RIP-R-STRIPPER and power source receptacle whenever the RIP-R-STRIPPER is not in use on the job site.

IF THE RIP-R-STRIPPER IS EQUIPPED WITH A TOGGLE TYPE ON/OFF SWITCH THE MOTOR CAN RESTART IF THE ON/OFF SWITCH IS NOT MOVED TO THE OFF POSITION WHEN THE POWER SOURCE LOOSES POWER AND THEN BECOMES REENERGIZED.

13) If the RIP-R-STRIPPER is equipped with a magnetic start (push button) type ON/OFF switch, the motor will not restart if the power source loses power and then becomes re-energized unless the OFF button is first pushed. If the RIP-R-STRIPPER and/or an individual component/accessory does not appear to be functioning properly, STOP and do not further operate the RIP-R-STRIPPER until the proper corrective action has been completed. If there are any questions regarding the proper operation of the RIP-R-STRIPPER, contact CROWN RENTAL BEFORE further utilization. There is no charge for this service.

#### OPERATING THE RIP-R-STRIPPER ON THE JOB SITE.

THE COVERINGS REMOVAL PROCESS CAN PRODUCE EXCESSIVE NOISE, VIBRATION AND FLYING DEBRIS. ALL OPERATORS AND WORK PERSONNEL IN THE VICINITY OF THE RIP-R-STRIPPER MUST WEAR APPROPRIATE SAFETY EYE WEAR AND HEARING PROTECTION DEVICES. OTHER SAFETY APPAREL AND/OR PROCEDURES, DEEMED NECESSARY BY SUPERVISORY PERSONNEL MUST ALSO BE WORN AND/OR PRACTICED BY ALL APPROPRIATE PERSONNEL.

1) The RIP-R-STRIPPER utilizes an offset weight design (termed the exciter) that moves the blade or ceramic tile ripper attachment with a random orbit oscillation. This design configuration substantially enhances machine control and reduces fatigue as long as the blade or ceramic tile ripper attachment does



not come in direct contact with a protruding obstruction from the floor. Direct contact with such an obstruction can result in rapid and jerky directional movement of the machine. This occurrence can lead to loss of machine control, property damage and/or personal injury. In most operating situations, direct contact with a protruding obstruction from the work surface will, at a minimum, result in damage to the blade and/or ceramic tile ripper attachment. EXERCISE EXTREME CAUTION WHEN OPERATING THE RIP-R-STRIPPER IN THE VICINITY OF ANCHOR BOLTS, PIPES, COLUMNS, OPENINGS, PROTRUDING NAIL HEADS, LARGE CRACKS, UTILITY OUTLETS OR ANY OBJECT PROTRUDING FROM THE WORK SURFACE. CONTACT WITH SUCH OBJECTS CAN LEAD TO LOSS OF MACHINE CONTROL, RESULTING IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

ALWAYS MAINTAIN PROPER CONTROL OF THE RIP-R-STRIPPER. IF AN OPERATOR LOOSES CONTROL OF THE MACHINE, A "RUNAWAY" RIP-R-STRIPPER CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY. BECAUSE OF THE UNIQUE OPERATING CHARACTERISTICS OF THE RIP-R-STRIPPER, THERE IS NO PROVISION FOR THE ELECTRIC MOTOR TO AUTOMATICALLY STOP IF THE OPERATOR FAILS TO MAINTAIN PROPER CONTROL.

WHEN OPERATING THE RIP-R-STRIPPER ON ABOVE GROUND FLOOR LEVELS, EXERCISE EXTREME CAUTION TO PREVENT LOSS OF CONTROL THAT COULD ALLOW THE MACHINE AND/OR OPERATOR TO FALL DOWN TO LOWER LEVELS. SUCH AN OCCURRENCE CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY. WHEN WALKING BACKWARDS DURING THE COVERING REMOVAL PROCESS, BE AWARE OF DROP OFFS AND OBSTRUCTIONS.

2) Productivity rates with the various blade and/or attachments can be increased with the addition of external weight being applied to the front of the machine. Each external weight block weighs 14 lbs. Maximum allowable external weight permits the use of three blocks or 42 lbs. Exceeding this figure can result in permanent structural damage to the RIP-R-STRIPPER. The additional external weight blocks can be secured to the machine with the use of longer length carriage bolts.

DO NOT OPERATE THE RIP-R-STRIPPER WITHOUT ALL EXTERNAL WEIGHT PROPERLY SECURED TO THE MAIN FRAME. A SUDDEN CHANGE IN MOVEMENT OR DIRECTION CAN ALLOW THE UNSECURED WEIGHT TO FALL OFF THE RIP-R-STRIPPER, RESULTING IN LOSS OF MACHINE CONTROL, PROPERTY DAMAGE AND/OR PERSONAL INJURY. THIS PROCEDURE IS ESPECIALLY IMPORTANT WHEN OPERATING THE RIP-R-STRIPPER ON FLOORS AND/OR SURFACES ABOVE GROUND LEVEL.

3) Proper operator posture and stance will enhance productivity rates and minimize fatigue. Adjust the operator handle height to place the handle grips at approximately waist level. Keep the upper body as vertical as possible. This procedure will help to maximize leverage and minimize back related stress. Keep feet a comfortable distance apart to help provide stability and locomotion force.

4) The wide variety of potential covering materials along with the corresponding variety of job site environments, makes it impossible to develop a standardized operating procedure for the RIP-R-STRIPPER. Use of the RIP-R-STRIPPER will require constant trial and error testing until satisfactory results are achieved. Experience, gained over time, along with good common sense will help minimize the amount of necessary testing. Many factors will directly affect the operating parameters and/or techniques utilized for a specialized job application. Some of these factors include:

a) Work surface material yield and tensile values. As a general rule, these values will determine material removal rate per unit of time. Materials with high yield and tensile values will characteristically resist/limit penetration. For such materials, the accepted procedure is to decrease blade width and determine optimum blade angle relative to the floor surface. This will require increasing or decreasing the blade angle with the Back Saver™ Blade Control System. Other added benefits to this technique are decreased vibration, less operator fatigue and increased component service life.

b) Higher material removal rates can sometimes be achieved by making a series of passes 90 degrees to each other to form a waffle like pattern. This technique is especially useful when removing deeper accumulations of rubber type materials, material residues and dirt debris from industrial floors.

c) The covering removal process can be extremely abrasive to the blade cutting edge. Blades can be sharpened in the field by the use of the metal file stored on the fixed section of the operator handle. Use of the file in the field will not duplicate the original blade manufacturing process, but can significantly increase overall productivity rates versus the continued use of a dull blade. Remove the blade from the RIP-R-STRIPPER per the procedures outlined in this manual. Clamp the blade in a suitable vice. Use the file to sharpen the blade with a procedure similar to that of sharpening a rotary lawnmower blade.

EXERCISE EXTREME CAUTION WHEN SHARPENING THE BLADE. CLAMP THE BLADE FIRMLY IN THE VICE. REMAIN CLEAR OF THE CUTTING EDGE DURING THE SHARPENING PROCESS. IMPROPER CONTACT WITH THE BLADE CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

5) The coverings removal process on many work surface materials can produce sparks, dust and other foreign particle contamination. Many covering materials, adhesives and/or mastics can contain asbestos and other chemicals that are known to cause physical harm and/or affect the environment. These types of materials need to be properly identified, contained and disposed of according to established OSHA, EPA and other rules and regulations.

SPARKS PRODUCED BY THE ACTIONS OF BLADE AND/OR CERAMIC TILE RIPPER ATTACHMENT AGAINST THE WORK SURFACE (FOR EXAMPLE: STRIKING ANCHOR BOLTS) CAN RESULT IN A FIRE AND/OR EXPLOSION. THIS OCCURRENCE CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

THE CREATION OF DUST AND OTHER FOREIGN PARTICLE CONTAMINATION FROM THE COVERING REMOVAL PROCESS CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY. FOR SUCH OPERATING CONDITIONS, ALWAYS WEAR A NIOSH/MSHA APPROVED DUST/MIST RESPIRATOR AND APPROPRIATE SAFETY RELATED APPAREL. CONSULT APPLICABLE OSHA REGULATIONS FOR SPECIFIC INFORMATION.

6) Dust and other particle contamination can be controlled by the use of an appropriate industrial type vacuum system to remove/control dust and other particle contamination from the work surface.

ALWAYS UTILIZE A VACUUM SYSTEM TO OPERATE WITHIN THE SPECIFIC JOB SITE REQUIREMENT. DUST MATERIAL CAN MEET CLASS II OR CLASS III SPECIFICATIONS OF THE NATIONAL ELECTRIC CODE® FOR HAZARDOUS LOCATION CLASSIFICATIONS.

CONSIDERATION MUST ALSO BE GIVEN TO THE CREATION OF HAZARDOUS TYPE MATERIALS REQUIRING SPECIFIC DISPOSAL PROCEDURES. DETERMINE THAT THE VACUUM SYSTEM IS PROPERLY DESIGNED TO OPERATE WITHIN THESE ATMOSPHERES. CONSULT CURRENT NATIONAL ELECTRIC CODE®, OSHA AND ENVIRONMENTAL PROTECTION AGENCY REGULATIONS FOR SPECIFIC INFORMATION.

7) Water applied to the work surface is not normally utilized to control dust and other particle contamination. Water, and/or other conductive materials, should be removed from the work surface by an industry approved and/or accepted practice BEFORE utilizing the RIP-R-STRIPPER to remove the covering material. The presence of water and/or any other conductive material on the work surface can substantially increase the potential electrocution concern for the operator and/or associated work personnel.

WATER OR OTHER CONDUCTIVE MATERIALS DEPOSITED ON THE WORK SURFACE INCREASES THE ELECTROCUTION POTENTIAL FOR THE OPERATOR AND/OR ASSOCIATED WORK PERSONNEL. DETERMINE THE RIP-R-STRIPPER IS PROPERLY GROUNDED (NO FAULTS), THE EXTENSION CORD IS FREE OF CUTS, ABRASIONS, EXPOSED CABLE STRANDS AND THAT THE GFI PROPERLY FUNCTIONS TO ELIMINATE FAULT CONCERNS. IMPROPER MACHINE GROUNDING, EXTENSION CORDS AND/OR GFI CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

8) Normal usage of the RIP-R-STRIPPER will allow the build-up and accumulation of work surface materials on the surfaces. It is highly recommended that both

the interior and exterior surfaces be properly cleaned after the completion of each use. Failure to properly clean the interior surfaces of the RIP-R-STRIPPER can result in dried material build-up and accumulation directly affecting bearing service life.

EXERCISE EXTREME CAUTION WHEN UTILIZING ANY SOLVENT TO REMOVE ACCUMULATED MATERIALS FROM THE SURFACES OF THE MACHINE AND RELATED COMPONENTS. MANY SOLVENTS ARE FLAMMABLE. DO NOT SMOKE OR INTRODUCE FLAME IN THE WORK AREA. PROVIDE ADEQUATE VENTILATION AND WEAR PROPER SAFETY APPAREL. PROPERLY DISPOSE OF ALL ACCUMULATED MATERIALS PER OSHA AND ENVIRONMENTAL PROTECTION AGENCY CODES AND REGULATIONS. MANY ACCUMULATED MATERIALS CAN BE CLASSIFIED AS HAZARDOUS AND REQUIRE PROPER DISPOSAL PROCEDURES. CONTACT THE APPLICABLE GOVERNMENT AND/OR PRIVATE AGENCIES FOR SPECIFIC INFORMATION.

9) When the covering removal process creates a considerable amount of loose material on the work surface, it can become almost impossible to determine proper material removal depths and the extent of work already accomplished. The problem can be compounded if a vacuum system is not utilized. Loose material should be removed by sweeping or other, appropriate processes and the RIP-R-STRIPPER utilized until conditions again warrant removing the accumulated material.

#### STOPPING THE RIP-R-STRIPPER ON THE JOBSITE.

1) Stopping the RIP-R-STRIPPER is accomplished by moving the ON/OFF switch located on the operator handle to the OFF position. For safety considerations, it is also recommended that the extension cord be disconnected from both the RIP-R-STRIPPER and electric power source whenever the RIP-R-STRIPPER is not in use on the job site.

#### OPERATIONAL PARAMETERS AND TECHNIQUES FOR THE RIP-R-STRIPPER.

1) The specific type and/or density of adhesives and mastics which bond coverings to the work surface can directly affect removal rates. Many adhesives or mastics remain flexible in the fully cured state. These types of materials are usually darker or black in color. The adhesives and mastics which become dried in the fully cured state are usually yellowish or opaque in color. These types of materials will usually require less effort to remove than the dark types which remain flexible even when cured.

2) As a general rule, the lower the adhesive or mastic density (amount) utilized to adhere the covering to the work surface, the lower the force required to "shear" through the bond and thus, the greater the covering removal rate.

3) As a general rule, the thicker the adhesive or mastic utilized to adhere the covering to the work surface, the greater the force required to "shear" through the bond and thus, the lower the covering removal rate.

4) The Back-Saver™ Blade Control System is designed to adjust blade angle relative to the work surface without first stopping the machine to adjust mechanical linkages or bend over to operate a crank lever system. The Back-Saver™ Control System features a crank lever located on the operator console. Crank the lever clockwise to decrease the blade angle. Turn the crank lever counterclockwise to increase the blade angle.

5) Typically, adhesive/mastic densities or thickness change on the job site usually as a result of application rates on the work surface. This, in turn directly affects bond densities and thickness. As these factors change, the blade angle can be adjusted with the Back Saver™ Blade Control System to help optimize covering removal rates.

6) KEEP THE EXTENSION CORD FREE AND CLEAR OF THE MAIN FRAME AND BLADE AREA WHILE THE RIP-R-STRIPPER IS IN OPERATION. CONTACT WITH THE MAIN FRAME AND BLADE AREA CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

IN THE EVENT THE EXTENSION CORD BECOMES ENTANGLED ABOUT THE RIP-R-STRIPPER

AND/OR THE OPERATOR, TURN THE ELECTRIC MOTOR ON/OFF SWITCH TO THE OFF POSITION. FAILURE TO PROPERLY STOP THE RIP-R-STRIPPER IN THIS OPERATING CONFIGURATION CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY. DETERMINE THE EXTENSION CORD AND GFI ARE IN PROPER CONDITION TO CONTINUE OPERATION. REPLACE ANY DAMAGED COMPONENT WITH A FACTORY APPROVED REPLACEMENT PART ONLY. DISCONNECT THE EXTENSION CORD FROM THE RIP-R-STRIPPER WHEN TRAVERSING UP AND DOWN STAIRWAYS. AN IMPROPERLY STORED/CONNECTED EXTENSION CORD CAN ENTRAP AND/OR ENTANGLE PERSONNEL, RESULTING IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

7) Scoring blades are available to remove covering material such as rubber-backed carpet and linoleum from concrete and wood surfaces. The vertical ends of the scoring blade are designed to shear the covering and remove it in various widths as determined by the overall blade width.

Do not operate the RIP-R-STRIPPER with the vertical ends of the scoring blade facing down toward the work surface. In this configuration, damage to the work surface can result.

8) Part Number FCS16-1900 Blade can be mounted to the RIP-R-STRIPPER in the offset configuration to allow coverings to be removed from under the kick panel areas of cabinets and other, inaccessible locations. A stiffener is included with this blade as a standard accessory and must be mounted whenever this blade is utilized to minimize blade deflection.

Do not operate Part Number FCS16-1900 Blade without the additional stiffener properly mounted to the blade. Improper use of this blade without the additional stiffener can result in property damage and/or personal injury.

#### Troubleshooting

##### ELECTRIC MOTOR.

##### MOTOR FAILS TO START

1. ON/OFF switch in the OFF position. Place switch in the ON position.
2. Thermal protection switch activated. Allow time for motor to cool. Motor will not start until the temperature is reduced low enough for the red switch located near the capacitor to be activated.
3. GFI switch activated. Push GFI button to test and rearm. Reconnect to power source.
4. Improper extension cord connection. Determine all connections produce a closed circuit.
5. No power being received from power source. Check power source for correct voltage and amperage requirements.

##### MOTOR LOSES POWER

1. Check power source for correct voltage and amperage requirements.
2. High operating temperatures. Clean fan blades and exterior surfaces.

##### OPERATIONAL PROBLEMS.

##### UNEVEN BLADE WEAR

1. Incorrect blade installation. See INSTALLING A BLADE OR CERAMIC TILE RIPPER ATTACHMENT IN THE RIP-R-STRIPPER.
2. Damaged exciter plate. RETURN UNIT TO CROWN RENTAL.
3. Damaged elastomeric rubber mount(s). RETURN UNIT TO CROWN RENTAL.
4. Bent blade. Replace blade.

##### EXCESSIVE JUMPING ON THE WORK SURFACE

1. Incorrect blade or ceramic tile ripper attachment installation. See INSTALLING A BLADE OR CERAMIC TILE RIPPER ATTACHMENT IN THE RIP-R-STRIPPER.

2. Damaged exciter plate. RETURN UNIT TO CROWN RENTAL.
3. Damaged elastomeric rubber mount(s). RETURN UNIT TO CROWN RENTAL.
4. Improper blade angle. Readjust blade angle.

#### DIFFICULTY IN OPERATING THE BACK SAVER™ BLADE CONTROL SYSTEM

1. Misaligned jackscrew bearing. RETURN UNIT TO CROWN RENTAL.
2. Bent jackscrew. RETURN UNIT TO CROWN RENTAL.

#### UNEVEN COVERING MATERIAL REMOVAL

1. Excessive material build-up on caster wheel face surface. Remove material. Readjust wheel scraper to wheel gap setting: .03/.06 inch.
2. Excessive caster wheel bearing wear. RETURN UNIT TO CROWN RENTAL
3. Excessive axle shoulder type cap screw wear. RETURN UNIT TO CROWN RENTAL.
4. Damaged elastomeric rubber mount(s). RETURN UNIT TO CROWN RENTAL.
5. Damaged exciter plate. RETURN UNIT TO CROWN RENTAL.
6. Bent blade. Replace blade.

ALWAYS OPERATE THIS MACHINE WITH A GROUND FAULT CIRCUIT INTERRUPTER UTILIZED IMPROPER USAGE CAN RESULT IN AN ELECTRICAL SHOCK AND/OR ELECTROCUTION.

CONSULT OPERATORS MANUAL FOR SPECIFIC INFORMATION

WARNING KEEP GUARDS IN PLACE

WARNING CONTACT WITH BLADE EDGE CAN CAUSE PERSONAL INJURY

WARNINGEYE, EAR, AND RESPIRATION PROTECTION REQUIRED

KEEP CLEAR OF ROTATING PARTS

WARNING TO AVOID PROPERTY DAMAGE OR PERSONAL INJURY REMOVE BLADE OR ATTACHMENT BEFORE LIFTING OR TRANSPORTING MACHINE

Avoid injury, Use this product properly. Don't be afraid to ask for help.

For technical or application assistance for this product, CONTACT CROWN RENTAL.