General®
EQUIPMENT COMPANY

OPERATOR'S MANUAL

Safety, Operation & Service Information

RIP-R-STRIPPER® Floor Covering Scraper

Model: CTS12GEN2

Form: GOM11121101EU, Version 1.1, Original Instructions

- **Do not discard this manual.**
- **Keep manual readily available for reference during operation or when servicing product.**
- **Before operation, read and comprehend operator manual content.**
- **Customer Service:** 001 507 451 5510
- **Customer Service Telefax:** 001 507 451 5511
  Note: There is no charge for Customer Service.
- **Internet Address:** http://www.generalequip.com
- **Email:** general@generalequip.com
- **Mailing Address:**
  General Equipment Company, 620 Alexander Dr. S.W., P.O. Box 334, Owatonna, MN 55060, USA

EUROPEAN CE REPRESENTATIVE

- **Customer Service:** (+31) 5 23 63 82 86
- **Internet Address:** http://www.eurogate-international.com
- **Email:** info@eurogate-international.com
- **Mailing Address:** Eurogate International, Galilieistraat 6, 7701 SK Dedemsvaart, The Netherlands

Product covered by this manual complies with mandatory requirements of 2006/42/EC.

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1 INTRODUCTION

Congratulations on your decision to purchase a General Equipment light construction product. From our humble beginnings in 1955, it has been a continuing objective of General Equipment Company to manufacture equipment that delivers uncompromising value, service life and investment return. Because of this continuous commitment for excellence, many products bearing the General name actually set the standard by which competitive products are judged.

When you purchased this product, you also gained access to a team of dedicated, knowledgeable, support personnel that stand willing and ready to provide field support assistance. Our team of sales representatives and in-house factory personnel are available to ensure each General product delivers the intended performance and product safety you expect. Our personnel can readily answer your questions or concerns regarding proper applications, service requirements and warranty related problems.

The RIP-R-STRIPPER is intended for use in removing glued down ceramic tiles and wood flooring materials, VCT and linoleum tiles, adhesives, mastics and material residues from cement surfaces in a nonexplosive atmosphere. The CTS12 RIP-R-STRIPPER is considered a complete product only when an approved, specified breaker is installed. The machine is operated by one adult of proper operator experience/skill/ common sense, height, weight, strength and physical condition.

If you have any questions or concerns about this product, please feel free to contact our European Representative or Customer Service Department during normal business hours using the contact information located on the front cover of this manual.

Sincerely,
The General Equipment Team

2 SAFETY SYMBOLS

The following safety alert symbols identify important safety messages in this manual. When you see these symbols, be alert to the possibility of personal injury and carefully read the message that follows. Always utilize correct tools or extension cords for use with the RIP-R-STRIPPER.

SAFETY SYMBOLS & MEANINGS

Symbol	Meaning	Symbol	Meaning
	Action Required		No Trash Containers
	Read Manual		General Warning
	Wear Ear Protection		Warning, Flammable Material
	Wear Eye Protection		Warning, Explosive Material
	Wear Protective Gloves		Warning, Toxic Material
	Wear Safety Shoes		Warning, Electricity
	Wear Breathing Protection		Warning, Body Entrapment
	Disconnect From Power		Warning, Sharp Element
	No Open Flame		Warning, Floor Level Obstacle
	No Smoking		Warning, Drop Off
	No Active Mobile Phone		Warning, Slippery Surface
	No Food Or Drink		

OPERATIONAL DISCLAIMER
The manufacturer of this RIP-R-STRIPPER makes no warranty or guarantee it is merchantable and/or suitable for a specific job application and that it will have the capability and power required to remove any specific floor covering from any specific work surface.

3 SAFETY INSTRUCTIONS

- **These safety instructions provide guidelines to promote safety and efficiency with the RIP-R-STRIPPER.**
- **No warranty, guarantee or representation is made by manufacturer as to absolute correctness or sufficiency of any information or statement.**
- **Safety instructions are intended to deal with common practices and conditions encountered in use of RIP-R-STRIPPER and are not intended to be all inclusive.**
- **Not following instructions in this manual can result in property damage, personal injury and/or death.**

BEFORE OPERATING

1. BEFORE operating RIP-R-STRIPPER, read this manual and view applicable Safety/Operational Video to familiarize each operator with correct operating procedures.

2. Visually inspect RIP-R-STRIPPER per MAINTENACE INSTRUCTIONS STEPS 5 through 9 of this manual.

3. Determine RIP-R-STRIPPER is in original, factory configuration and has not been modified in any manner. If questions arise about possible modifications, contact the European Representative or Customer Service Department BEFORE utilization. There is no charge for this service.

4. Always start and stop RIP-R-STRIPPER according to instructions to minimize possibility of unexpected or uncontrolled blade/accessory movement. Know how to stop unit in an emergency.

Physical Exertion/Body Strain
Operating RIP-R-STRIPPER requires proper physical stamina, mental alertness and is strenuous. Take work breaks to maintain stamina and alertness. If you have condition(s) that might be aggravated by strenuous work, check with doctor BEFORE operating.

Vibration
Prolonged use of RIP-R-STRIPPER (or other, similar machines) exposes operator to vibrations which may produce Whitefinger Disease (Raynaud's Phenomenon). Continuous and regular users should closely monitor condition of hands and fingers. After each period of use, exercise to restore normal blood circulation. If any symptoms appear, seek medical advice immediately.

Noise
RIP-R-STRIPPER and actual floor covering removal process creates exposure to high noise emission levels that can result in hearing loss or damage. Hearing protection is required while operating or when near operating equipment. Continuous and regular operators should have hearing checked regularly.

Clothing
Clothing must be sturdy, snug fitting, but allow complete freedom of movement. Never wear loose fitting jackets, scarves, neckties, jewelry, flared or cuffed pants or anything that could become caught on controls or moving parts. Properly secure eyeglasses, hearing aid devices and other medical related devices. Wear long pants to protect legs. Protect hands and improve grip with heavy duty, nonslip gloves. Wear and properly lace sturdy boots with nonslip soles. Steel-toed safety shoes are mandatory. Wear approved safety hard hat where there is danger of head injuries and/or approved breathing mask where danger of airborne particulate contamination is present.

Flying Debris
Floor covering removal process can result in flying debris. Eye protection and appropriate safety apparel is required when near or operating RIP-R-STRIPPER. DO NOT operate unit with onlookers or animals close by.

Back Care & Proper Lifting Procedures
Operators will be required to lift RIP-R-STRIPPER as demanded by specific job applications. When lifting, three or more people are required. Maximum lifting weight per person is 23 Kg (50.7 lbs) per NIOSH standards. Utilize proper lifting techniques to minimize fatigue and back-related injuries.

TRANSPORTATION

1. When transporting RIP-R-STRIPPER, remove extension cord and store. Remove accessory tool from electric breaker according to INSTALLING & REMOVING ACCESSORY TOOLS in MACHINE SET-UP section of this manual when in following operating conditions:

    a) To and from jobsite.

    b) Longer distances while being repositioned on jobsite.

    c) Traversing up and down stairways.

    d) Performing maintenance and/or repairs.

    e) Lifting/lowering from transportation vehicle.

2. To use personnel to lift/lower machine, use both sides of operator handles and breaker tool receiver.

3. Use mechanical device to lift/lower machine. Attach chain and suitable attachment device to lifting bail area on upper frame side. FIGURE 1

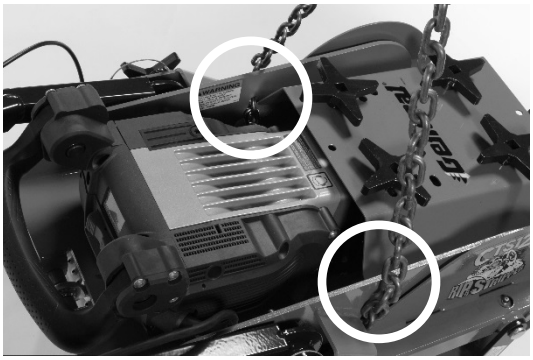


FIGURE 1

NOTE: This location may not always be the exact center of gravity for the machine. DO NOT use lift device until device limitations and operation are understood by all personnel.

4. To reduce storage area and minimize damage, transport RIP-R-STRIPPER in normal upright position with operator handle folded relative to main frame. Refer to MACHINE SET-UP section of this manual.

    a) DO NOT allow operator handle and main frame to make direct contact with each other while transporting. Provide proper protection between RIP-R-STRIPPER components and vehicle.

    b) DO NOT drop unit directly against breaker tool receiver or wheels to prevent damage to machine and/or breaker.

5. All equipment must be secured in/on vehicles with suitable strapping or tie downs.

DETERMINATION OF POTENTIAL SUBSURFACE HAZARDS IN PROPOSED FLOORING REMOVAL LOCATION(S)

RIP-R-STRIPPER operator handle grips are constructed of non-metallic, composite material and does not guarantee operators will be properly insulated from contact with charged electrical cables. RIP-R-STRIPPER and related accessories are not classified as insulated.

BEFORE attempting to remove any floor covering materials, identify/mark all potential subsurface hazards in proposed flooring removal location(s). Many utilities/other agencies will perform these tasks at minimal or no cost. Subsurface hazards may include, but may not be limited to the following:

1. Buried debris, rotted timbers or wood planking.
2. Buried pressurized pipelines (e.g. natural gas, propane, etc.)
3. Buried electrical cables.

DETERMINATION OF POTENTIAL ABOVE SURFACE HAZARDS IN PROPOSED FLOORING REMOVAL LOCATION(S)

Normal RIP-R-STRIPPER use is on level surfaces. Avoid other surface conditions which can be dangerous. Special care must be exercised on slippery and/or difficult/uneven surfaces. Watch for cracks, high spots/other surface irregularities or drop offs to lower floor levels. Operate only when/where visibility and light are adequate for the job at hand. Remove any trip/fall hazard BEFORE operating RIP-R-STRIPPER. Keep proper footing and balance at all times.

OPERATIONAL HAZARDS

1. RIP-R-STRIPPER is designed to substantially enhance machine control and reduce operator fatigue provided accessory tool does not directly contact larger, protruding obstructions (anchor bolts, pipes, nail heads, columns, openings, large cracks, utility outlets, material variances, etc., or any objects protruding from work surface). Such contact can result in rapid and jerky movement of machine and loss of machine control.

2. The floor covering material removal process can produce sparks, dusts and other foreign particle contamination that can result in fire and/or explosion depending on exiting jobsite conditions.

3. Many covering materials, adhesives or mastics can contain asbestos and other chemicals that are known to cause physical harm and/or affect the environment.

4. Dust and other particle contamination can be controlled by use of appropriate industrial-type water mist spray or dust collection system that meets specific job site requirements to remove/control dust and other particle contamination from work surface.

5. Excessive water, and/or other conductive materials on work surface can result in electrocution of operator and/or other personnel.

Preventive Measures:

- Operator must maintain physical and mental alertness. Be prepared for unexpected accessory tool contact with protruding anchor bolts, etc. and be capable to sense level of machine control they have.

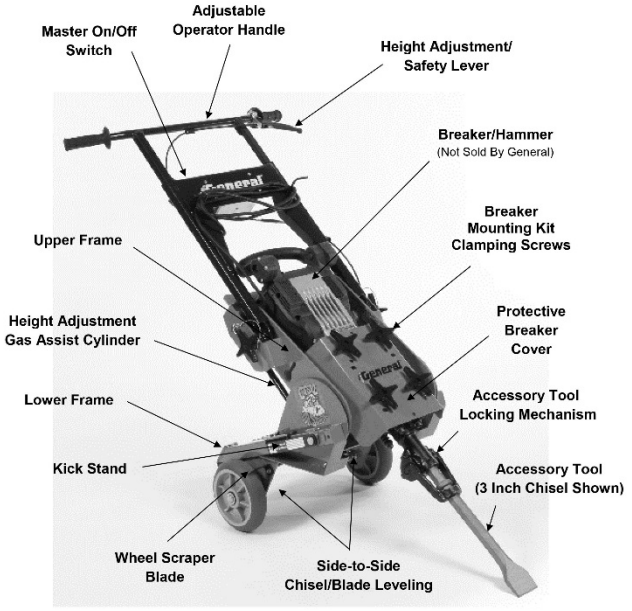
- DO NOT operate RIP-R-STRIPPER on jobsite where kickback forces can allow body parts to come in direct contact with vertical wall, foundation or other support type structures. Maintain a safe and reasonable distance from these structures.

- Maintain proper operating for better control of machine plus, reducing operator error and fatigue. Refer to OPERATOR STANCES in OPERATING INSTRUCTIONS section of this manual for more information.

- Remove water and/or conductive materials by industry-approved and/or accepted practice BEFORE removing floor covering. Determine RIP-R-STRIPPER is properly grounded and extension cords are free of cuts, abrasions and/or exposed cable strands.

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

4 MACHINE SPECIFICATIONS



Note:
Breaker mounting kit clamps are not shown in photo above.

FIGURE 2

FRAME STRUCTURE	Unitized, welded steel plate.
DRIVE SYSTEM	Direct impulse provided by electric breaker.
BREAKER SIZE RANGE	47.5 to 61.0 J (35 to 45 Ft.-lb.) class.
BREAKER INPUT VOLTAGE	220 VAC, 50 Hz depending on specific country/area of location.
BREAKER AMPERES	10 amperes average draw, consult material supplied by specific breaker manufacturer.
BREAKER RATED WATTS	Consult material supplied by specific breaker manufacturer.
NUMBER URETHANE MOUNTING BLOCK SETS	2
OUTSIDE WHEEL WIDTH	540 mm (21-1/4 inches)
OPERATOR HANDLE WIDTH	762 mm (30 inches)
TRANSPORT LENGTH	711 mm (28 inches), less breaker.
HEIGHT	636 mm (25 inches), less breaker.
WEIGHT	58 Kg (130 lbs.), less breaker.
EXTENSION CORDS	Minimum rating for non-manufacturer supplied extension cords, HOVV5F (3 x 1.5 mm²) up to a maximum extension cord length of 25 m.
OPERATING ENVIRONMENTS	Non-hazardous type locations.
REQUIRED NUMBER OF OPERATORS	1

NOTE: Noise and vibration levels are dependent on specific breaker installed. Check breaker manufacturer for sound and vibration values.

RIP-R-STRIPPER POWER SOURCE
The RIP-R-STRIPPER is designed to operate from a clean, 10 ampere, 220 VAC, 50 Hz, nominal power source. Clean power refers to amperage available from individual electrical circuit selected.

Additional electrical products already using same circuit will reduce available amperage resulting in starting/operational difficulties. Check proper voltage and amperage levels in addition to power source being properly grounded.

Proper voltage and amperage to electric breaker is essential for maximum productivity and service life. Low voltage and amperage will cause breaker to overheat and can cause unrepairable damage to breaker and related controls. An improperly grounded circuit increases risk of electric shock. A qualified electrician may need to be consulted.

NOTE: Many electric breakers DO NOT incorporate a motor winding temperature monitor system warning of harmful temperature levels. High temperatures can damage internal breaker components.

5 STANDARD PRODUCT & ACCESSORIES

Refer to FIGURE 2 for overview description of standard components included in machine. Included in shipment for CTS12GEN2 RIP-R-STRIPPER should be the following:

1 each, Model CTS12GEN2 RIP-R-STRIPPER
1 each, Mounting kit for specific electric breaker
1 each, Final inspection form

NOTE: Breakers are not supplied by General Equipment Company. CTS12GEN2 RIP-R-STRIPPER is designed for use with the following breakers:

- Bosch® GSH16-28
- DeWalt® D25941K
- Hilti® TE905-AVR
- Hilti® TE1000-AVR
- Hitachi® H65SD2
- Makita® HM1500B
- Makita® HM1317CB
- Makita® HM1307CB

BREAKER MOUNTING KITS

	Part #	Description	Weight (in Kg)
	CTS12-1000A	Mounting kit for Makita® HM1500B electric-powered, cement breaker.	5,5
	CTS12-1100A	Mounting kit for Makita® HM1317CB and HM1307CB electric-powered, cement breaker.	5,5
	CTS12-1200A	Mounting kit for Bosch® 11335K electric-powered, cement breaker.	5,5
	CTS12-1300A	Mounting kit for Hilti® TE905-AVR electric-powered, cement breaker.	5,5
	CTS12-1410A	Mounting kit for Hilti® TE1000-AVR electric-powered, cement breaker.	5,5
	CTS12-1600A	Mounting kit for Hitachi® H65SD2 electric-powered, cement breaker.	5,5

	CTS12-2100A	Mounting kit for DeWalt® D25941K electric-powered, cement breaker.	5,5

ACCESSORY TOOLS
NOTE: All tools are for use in general purpose projects on cement surfaces. All chisels are for ceramic tile and wood floor coverings removal. All scraper blades are for glued carpet, soft sheet type linoleum, rubber, PVC, plus, VCT and linoleum tile, adhesives, mastics, material build ups, etc., removal.

		Part #	Description	Weight (in Kg)
		102-1000	Standard moil point, 29 mm hexagon x 152 mm shank. For cement demolition.	2,6
		102-1100	Standard narrow chisel, 29 mm hexagon x 152 mm shank.	2,7
		102-1200	Standard 76,3 mm chisel, 29 mm hexagon x 152 mm shank.	2,7
		102-1500A	Scraper blade holder, 29 mm hexagon x 152 mm shank.	4,1
		CTS12-1801	Blade, scraper, 140 mm width, 1.5 mm thick. Package of 1 blade.	0,5
		CTS12-1901	Blade, scraper, 203 mm width, 1.5 mm thick. Package of 1 blade.	0,5
		CTS12-2001	Blade, scraper, 305mm width, 1.5 mm thick. Package of 1 blade.	0,8

6 MACHINE SET-UP

Open shipping carton immediately upon receipt. Remove RIP-R-STRIPPER from carton. Visually inspect contents for freight damage and/or missing parts. If shipping damage is evident, contact delivering carrier immediately to arrange for an inspection of damage by their claims representative. DO NOT DESTROY OR DISCARD SHIPPING CARTON UNTIL INSTRUCTED BY AUTHORIZED REPRESENTATIVE OF CARRIER OR FACTORY. If missing parts are detected, notify your dealer who will assist you in obtaining them.

NOTE: If ordered with RIP-R-STRIPPER, optional chisels, blades and accessories can be shipped separately or included in shipping carton.

NOTE: All lubrication fittings are lubricated at factory and will not require further servicing until first scheduled maintenance.

INSTALLING MOUNTING KIT TO MAIN FRAME

Installation of mounting kit assembly will require a level work surface of appropriate size and height.

1. Unfold operator handle from storage position and insert ball-detent pins through operator handle and main frame. Check ball-detent pins are inserted to fully expose ball detent and properly lock in position to prevent unexpected handle movement. FIGURE 3

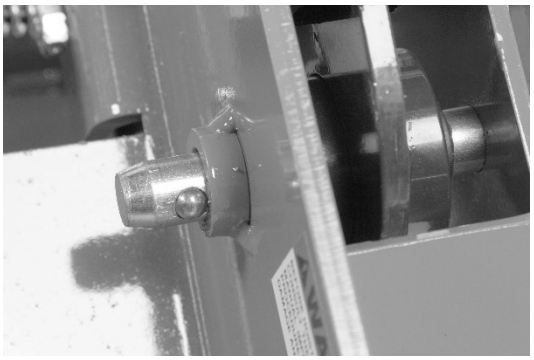


FIGURE 3

2. Deploy kickstands on both sides of main frame to assist in mounting kit, electric breaker and accessory tool installation. Proceed as follows:

   a) Rotate/position kickstand leg clamp to rear of main frame.

   b) Rotate kickstand leg forward until it wedges against main frame to prevent machine from falling forward or backwards. Weight of main frame is intended to help keep kickstand leg in position. FIGURE 4

FIGURE 4

   c) To retract kickstands, reverse above procedure. Determine clamp correctly positions itself in kickstand leg detent to prevent kickstand movement/wear.

NOTE: Mounting kits incorporate two urethane block sets to retain an electric breaker in position. Blocks are held inside two (top and bottom) steel assemblies. Bottom assembly is directly fastened to main frame. Top assembly is secured to bottom assembly by four (4) clamping screws. FIGURE 5

FIGURE 5

NOTE: For typical electric breaker installation, one set of urethane blocks with smaller inside opening is located near breaker accessory tool receiver (BOTTOM). The other block set with larger inside opening is located near location of carry handle location (TOP).

3. Install bottom weld assembly to main frame using supplied capscrews and lockwashers. DO NOT substitute with other fasteners. Tighten to 31 Nm (23 ft-lbs), DO NOT overtighten. FIGURE 6

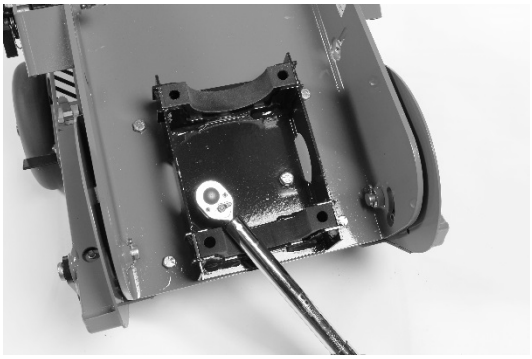


FIGURE 6

INSTALLING ELECTRIC BREAKER TO MAIN FRAME

1. If so equipped, remove attached breaker carry handle and store for potential reuse. Refer to material supplied by specific breaker manufacturer for additional information.

2. Install electric breaker into bottom urethane blocks/weld assembly. Any breaker identification/logo normally faces operator (TOP). Route breaker power cord clear of operator handle assembly. Typical installation is depicted in FIGURE 7.

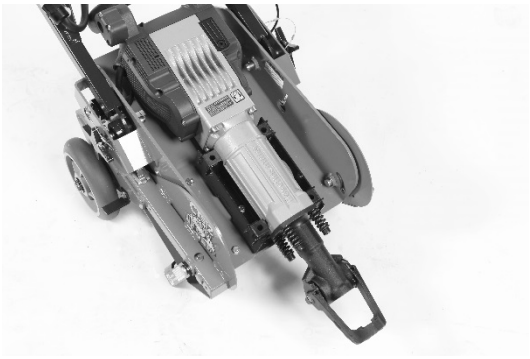


FIGURE 7

a) Any breaker power cord reinforcement may contact main frame. This is acceptable if there is no relative movement during normal operation.

b) Breaker receiver will normally be located adjacent to a urethane block. FIGURE 8

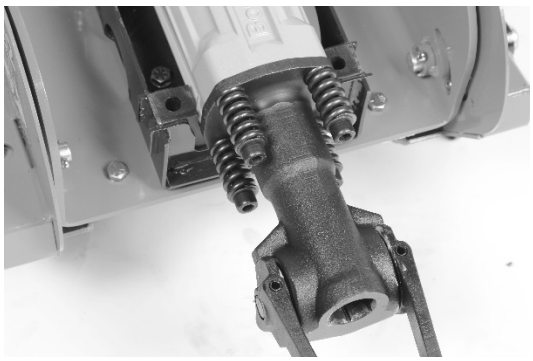


FIGURE 8

NOTE: Female hexagon shaped tool receiver orientation to breaker body can vary between manufacturers. Typical configuration depicted in FIGURE 8.

c) Any breaker body casting recess for carry handle is normally used for top urethane block set. Installation variances may exist depending on specific breaker manufacturer/model. FIGURE 9 is for illustrative purposes only.

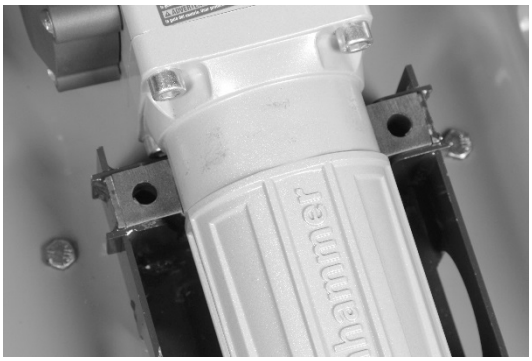


FIGURE 9

d) Determine breaker is properly centered, positioned top to bottom within urethane blocks and horizontally level against main frame for operational function/stability.

NOTE: HILTI TE-1000-AVR breaker body is mounted perpendicular to main frame and work surface.

3. Install top weld assembly aligning/centering upper and lower urethane blocks. Typical installation depicted FIGURE 10.

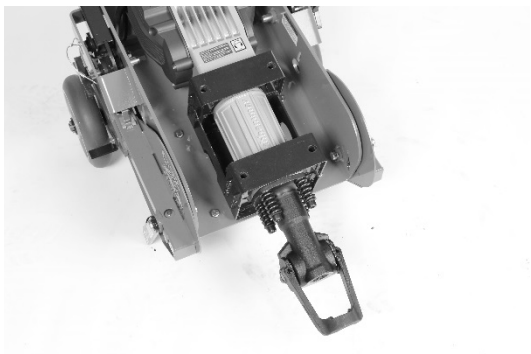


FIGURE 10

4. Align cover hole pattern to holes in top weld assembly. Refer to decal applied to cover bottom side for specific mounting information on all approved breakers. FIGURE 11

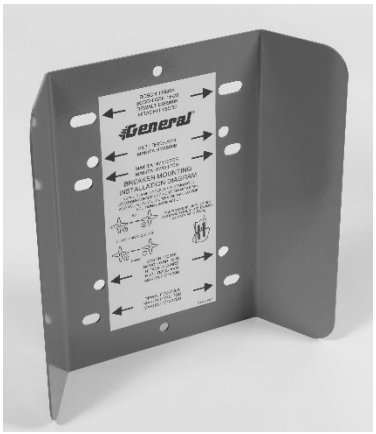


FIGURE 11

5. Insert four clamping screws through holes in cover, weld assemblies, urethane blocks and into threaded holes of main frame. Hand tighten in "X" pattern until top and bottom weld assemblies come into direct contact compressing urethane blocks against breaker body for proper retention. FIGURE 12

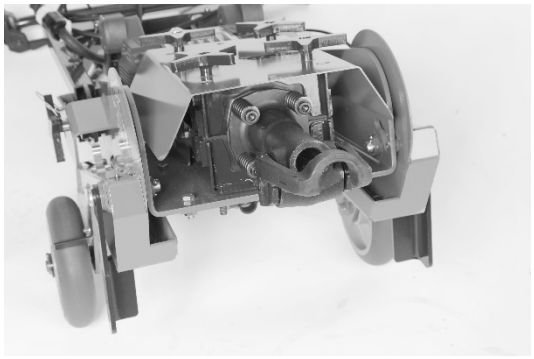


FIGURE 12

NOTE: Clamping screws can be tightened using 13 mm (1/2 inch) drive ratchet or torque bar along with appropriate length extension. DO NOT overtighten. FIGURE 13

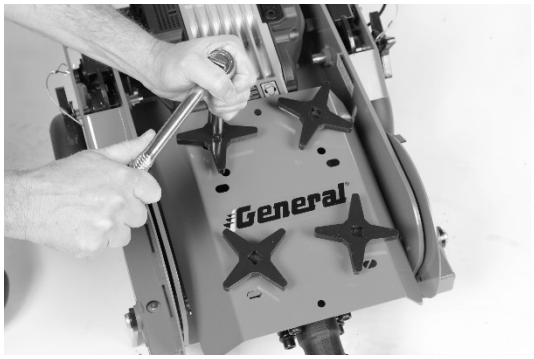


FIGURE 13

6. On fixed section of operator handles, wrap excess breaker electrical cord around storage holders and connect plug into receptacle of machine ON/OFF switch box. FIGURE 14

FIGURE 14

7. Verify extension system allows electric breaker attack angle to be properly repositioned and locked into position. Determine detent lock system prevents extension lever from being actuated without red safety latch lever from first being deployed. When extension lever is deployed and released, a properly adjusted cable will allow lever to return to closed position without any exposed cable and detent lock pin to be properly engaged.

8. Check all fasteners for looseness. Tighten as necessary.

9. Verify ON/OFF switch of RIP-R-STRIPPER and electric breaker operate correctly per SET-UP & STOPPING RIP-R-STRIPPER steps in OPERATING INSTRUCTIONS section of this manual.

10. Determine all components of RIP-R-STRIPPER and breaker allow for proper function as stated in this operator manual and information supplied by breaker manufacturer.

INSTALLING & REMOVING ACCESSORY TOOLS

Tools required: None, except as noted.

RIP-R-STRIPPER is designed to mount a wide variety of breaker models. No standard/specific accessory mounting tool procedure can be developed. As a general rule, these basic installation steps can be followed:

1. Turn RIP-R-STRIPPER and breaker ON/OFF power switch to OFF position. Disconnect extension cord of RIP-R-STRIPPER from power source. Disconnect breaker power cord from switch box of RIP-R-STRIPPER.

2. On level surface, place operator handles into work position and deploy kickstands per STEPS 1 & 2 of INSTALLING MOUNTING KIT TO MAIN FRAME section of this manual.

3. Raise operator handle to approximately 45 degrees from floor or desired position following this procedure:

   a) Use left forefinger, depress and hold red safety latch lever. FIGURE 15

FIGURE 15

   b) At same time, using left hand, pull/depress extension system lever to release locked detent pin. FIGURE 16

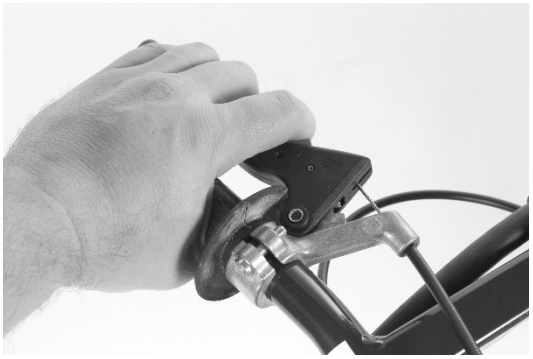


FIGURE 16

   c) Raise or lower operator handles/breaker to desired position. Nine locking positions are provided.

   d) Release red safety latch and extension system lever simultaneously to allow detent pin to lock in position.

NOTE: When adjusting operator handles, ensure red safety latch and extension system lever are fully depressed or released and detent locking pin fully engaged/locked to prevent damage to system and/or handle from dropping suddenly.

4. Inspect breaker accessory tool for deformation and/or cracking. If present, discard and replace. Consult specific accessory tool operational and safety information supplied by tool manufacturer.

5. Align/install full length, male accessory tool shank into breaker receiver. FIGURE 17 is for illustrative purposes only.

FIGURE 17

6. Deploy breaker accessory tool locking device to properly retain accessory tool in receiver. Deployment methods or procedures may differ between manufacturers and breaker models. Consult breaker manufacturer for specific information. FIGURE 18 is for illustrative purposes only.

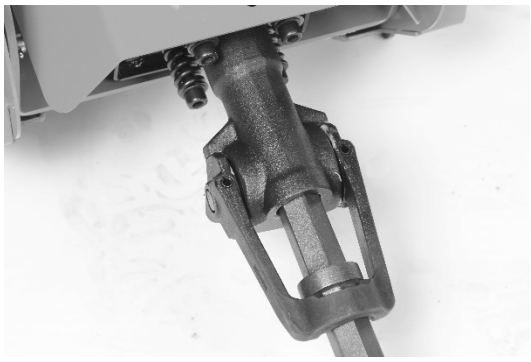


FIGURE 18

7. Retract integral kick stands and secure clamps allowing full accessory tool contact with level work surface.

8. Determine full accessory tool cutting edge contacts work surface. If not, adjust right and/or left rear wheels as necessary until full tool edge contacts work surface using (2) 24 mm (15/16 inch) open end/combination wrenches. FIGURE 19

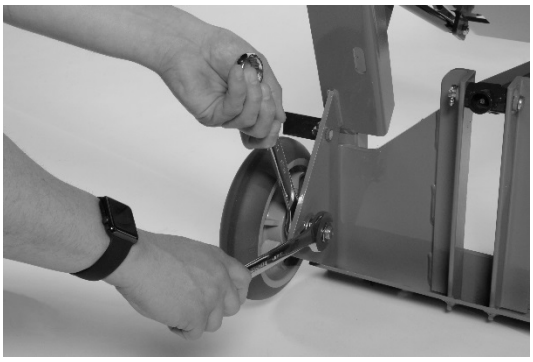


FIGURE 19

NOTE: For proper floor covering removal action, even tool wear, increased productivity and reduced operator fatigue/stress, full accessory tool cutting edge width must contact work surface/floor covering interface.

9. To remove accessory tool, redeploy kickstands and reverse STEPS 5 & 6.

10. If RIP-R-STRIPPER is to be placed back into service immediately lower machine so tool rests on floor then reverse procedure in Step 1 under INSTALLING & REMOVING ACCESSORY TOOLS. If not being placed back into immediate service, refer to STORAGE INSTRUCTIONS section of this manual.

7 APPLICATION THEORY & TECHNIQUES

THEORY OF OPERATION
The RIP-R-STRIPPER operates on principle of accessory tools directly impacting (back and forth) action to remove a variety of floor covering materials from work surfaces. This action is supplied by an electrically powered breaker secured to main frame of machine. Accessory tools utilized will affect type of materials to be removed, material removal rate(s) and resulting smoothness of work surface.

Floor coverings removal process is directly controlled by:

1. Tool type, impact angle and sharpness.

2. Sufficient machine weight and/or down force as provided by operator to accessory tool to effectively penetrate and remove floor covering material.

3. Adequate force exerted against RIP-R-STRIPPER by operator to push accessory tool against floor covering material to deliver acceptable productivity rates.

4. Type, density, thickness and adhesion of adhesives, mastics, thinsets and type of floor covering material.

5. No two floor covering materials are exactly alike, no two floor covering materials can be removed by exact same method and overall operator fed rates vary. The floor covering removal process, along with operator experience, skill and common sense, suggests flooring removal is a matter of trial and error and directly determines overall success of the job application.

ACCESSORY TOOL TYPES AND APPLICATIONS
RIP-R-STRIPPER uses electric breakers normally incorporating industry standard 28.5 mm (1-1/8 inch) hexagon x 152.4 mm (6 inch) shank accessory tools supplied by a number of manufacturers. Variances in shank configuration can exist between stock models and manufacturers. For most job applications, overall accessory tool length will vary between 457.2 mm and 558.8 mm (18 and 22 inches). Accessory tools are forged from high carbon steel and heat treated. FIGURE 20

FIGURE 20

Individual accessory tool or blade design will vary, but basic operational characteristics are identical: impact against floor surface and remove floor covering material. This common operational characteristic through extensive testing has led to use of the following popular configurations:

Standard 25.4 mm & 76.2 mm (1 & 3 Inch) Wide Chisels
1. Tools remove ceramic tiles and glued-down type hardwood floors. Tool width selection is determined by bond strength of flooring materials to cement surface. Normal removal process practice starts by using 76.2 mm (3 inch) chisel to determine flooring removal effectiveness. FIGURE 21

FIGURE 21

2. If 76.2 mm (3 inch) chisel encounters difficulty removing floor covering material, breaker blow force must be concentrated over a narrower tool width. Remove 76.2 mm (3 inch) chisel and install a 25.4 mm (1 inch) wide chisel and re-evaluate ease of flooring removal. Narrower tool should minimize removal difficulties, but productivity rates will normally be significantly reduced versus 76.2 mm (3 inch) chisel. FIGURE 22

FIGURE 22

3. The 76.2 mm (3 inch) chisel is also effective for removing a wide range of thinset type materials from cement surfaces. When used for this purpose, risk of surface cap damage increases requiring repair before new material installation.

Wide Flat Chisels

1. Flat chisels are usually available in 101.6 mm to 127 mm (4 to 5 inch) widths normally utilized with hand-held jackhammers for cutting asphalt, but can also be adapted for removing thinset-type materials. Depending upon adhesion strength to floor surface, increased removal rates can sometimes be achieved over the 25.4 mm and 76.2 mm (1 and 3 inch) chisels. FIGURE 23

FIGURE 23

Scraper Blades

RIP-R-STRIPPER uses scraper blades up to 304.8 mm (12 inch) wide for a variety of job applications, including: mastic and adhesive removal, thinset removal, plus general material build-up removal from cement surfaces.

1. Scraper blades are manufactured from high carbon steel and heat treated. Blades normally feature blunt cutting edges for use with direct impact-type forces and are not intended to be resharpened unlike those normally used with hand-operated scraper products.

2. Blades provided by General Equipment Company are available in 127 mm, 215.9 mm and 304.8 mm (5, 8-1/2 and 12 inch) widths. Use of specific size is normally dependent upon such factors as: type of material removed, thickness, adhesion strength and sub floor.

NOTE: Scraper blades are not intended for use on wood and certain sub floor configurations. Blade edge hammering effect can result in excessive damage to work surface.

3. In general, scraper blades are used at higher angles relative to work surface for most intended use applications. Experience suggests most effective blade angle range is 35 to 60 degrees from work surface. Lower angles prevent blade edge from penetrating and allow skimming over versus removing adhesives, etc. FIGURE 24

FIGURE 24

8 OPERATING INSTRUCTIONS

RIP-R-STRIPPER SET-UP ON JOBSITE

1. Position RIP-R-STRIPPER on a suitable work surface.

2. Determine electric breaker and RIP-R-STRIPPER ON/OFF switches are in OFF position and machine not connected to power source. FIGURE 25 and 26 are for illustrative purposes only.

FIGURE 25

FIGURE 26

3. Raise operator handle to work position and install accessory tool per INSTALLING & REMOVING ACCESSORY TOOLS in MACHINE SET-UP section of this manual.

4. Raise or lower operator handles/breaker to desired position. Loosen threaded knobs 13 mm (1/2 inch), slide adjustable portion of operator handle height near waist level then finger tighten to secure firmly in place. FIGURE 27

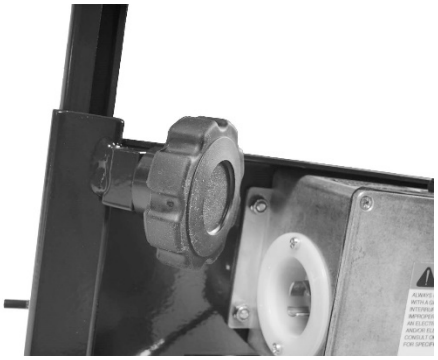


FIGURE 27

5. Connect extension cord to main connection of RIP-R-STRIPPER. FIGURE 28

FIGURE 28

NOTE: If additional extension cord is required, connect additional extension cord to remaining end of first extension cord.

NOTE: Inspect each extension cord BEFORE use. DO NOT use cord with worn or cut outer jacket, repaired with electrical tape and/or improper functioning twist lock connection device.

6. Connect extension cord to power source.

7. Position end of accessory tool on work surface with tool edge facing away from operator.

PROPER OPERATOR STANCE (FIGURE 29):

8. Grasp handle grips firmly. Always hold operator handle firmly with both hands. Wrap fingers and thumbs around handle grips. Wear gloves to improve grip.

9. Attempt to keep wrists and forearms inline to operator handles as much as feasible. Proper wrist position during removal process can minimize and/or reduce stress and strain related damage potential to this body area, plus, operator control can be enhanced and fatigue reduced.

10. Keep upper body as vertical as possible.

11. Keep feet comfortable distance apart for stability – shoulder width, one foot in front of the other.

12. Operator must always stand behind machine when in use.

FIGURE 29

NOTE: Using improper operator stance (FIGURES 30 & 31):
- a) Reduces operator control and balance.
- b) Increases operator fatigue.
- c) Increases risk of property damage and/or personal injury.

FIGURE 30

FIGURE 31

NOTE: Proper and improper operator stances depicted in this operator manual are not all inclusive.

13. Grasping handle grip of RIP-R-STRIPPER firmly in one hand, turn electric breaker ON/OFF switch to ON position. FIGURE 32

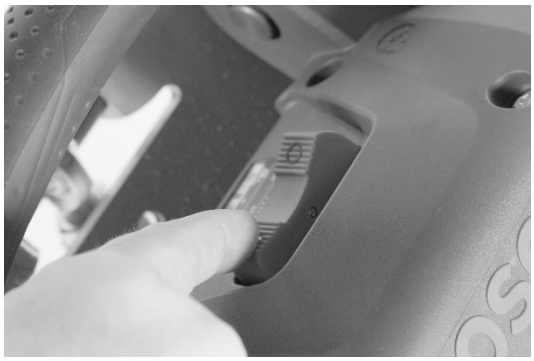


FIGURE 32

14. Grasp handle grip of RIP-R-STRIPPER firmly in one hand and turn RIP-R-STRIPPER master ON/OFF switch to ON position with other hand. FIGURE 33

FIGURE 33

NOTE: DO NOT operate machine if machine and/or breaker ON/OFF switch is not functioning properly and/or breaker does not stop when forward pressure is stopped to prevent unexpected machine start-up, loss of control and/or "runaway" machine. There is no automatic shut off feature on the machine or breaker.

15. Using proper operator stance, push forward with both hands on operator handle to engage accessory tool and initiate breaker action. To stop breaker action, reduce forward applied pressure.

NOTE: If accessory tool does not properly contact internal breaker anvil, breaker blow force will not transmit to tool. Breaker will function, but floor covering cannot be removed.

NOTE: DO NOT use extension cord to move RIP-R-STRIPPER or pull plug from receptacle. Damage to cord can result. Keep cord clear of machine, accessory blade, heat, oil, sharp edges or moving parts. If extension cord becomes entangled about RIP-R-STRIPPER and/or operator turn machine master ON/OFF and electric breaker ON/OFF switch to OFF position immediately.

16. Consistently remove loose flooring material to determine proper material removal depths and extent of work completed. Lack of proper dust collection system and/or broom use can increase problem.

NOTE: Properly dispose of all accumulated floor covering materials according to international and local regulations.

17. RIP-R-STRIPPER normal use creates material build-up on machine. It is highly recommended all exposed internal/external surfaces be properly cleaned after each use plus, adjust wheel scraper clearance to minimize material build-up on wheels. DO NOT allow materials to build up around breaker. Refer to MAINTENANCE INSTRUCTIONS section of this manual for more information.

STOPPING RIP-R-STRIPPER

18. Turn RIP-R-STRIPPER master ON/OFF and electric breaker ON/OFF switch to OFF position between each use and when moving from one major section of work surface to another.

19. Disconnect extension cord from power source. Never leave RIP-R-STRIPPER connected to power source and unattended.

20. Disconnect extension cord and breaker power cord from RIP-R-STRIPPER.

9 MAINTENANCE INSTRUCTIONS

For routine maintenance, the following information should be followed at minimum once per week or 40 hours of use for maximum performance and return on investment unless otherwise indicated. Information is for reference only and is not intended to be all inclusive.

1. Use factory approved replacement parts/accessories only for maintenance and repair.

2. All maintenance/repairs not described in this operator manual must be done by a dedicated service center following a specific service/repair manual.

3. STOP RIP-R-STRIPPER BEFORE performing maintenance and service per STOPPING RIP-R-STRIPPER in OPERATOR INSTRUCTIONS section of this manual.

4. Remove accessory tool per INSTALLING & REMOVING ACCESSORY TOOL in MACHINE SET-UP section of this manual.

5. Inspect for loose or broken parts. Inspect each tool for sharpness and cracking. Inspect all fasteners, individual parts, operator controls and safety devices for proper function. Tighten fasteners as necessary. Replace any worn or damaged part or assembly.

6. Remove all loose material accumulations, dirt and grease around electric breaker mount area, breaker, breaker air inlets and overall machine to prevent safety hazards, poor machine balance, performance and shortened service life. Use dust collection system as necessary to remove most accumulation then use safety type solvent for final RIP-R-STRIPPER cleaning.

IMPORTANT: Use safety type solvent. DO NOT use thinner, benzene, or other volatile solvents that will attack rubber/plastic components when cleaning RIP-R-STRIPPER. Provide adequate ventilation. Dispose of rags/solvents per international and local regulations.

7. Inspect elastomeric operator handle mounts and urethane breaker mounting blocks for damage and/or wear.

    a) Load capacity of mounts will decrease over time due to wear and environmental considerations. Mounting material will take a permanent set over time decreasing ability to properly secure electric breaker.

    b) Mounts/blocks have 36 month or 250 hour maximum service limits, whichever comes first. Establish a maintenance schedule replacing mounts/blocks before failure occurs.

NOTE: Urethane mounting block properties permit partial return to original shape allowing multiple breaker installations/removals. Permanent set takes place over time preventing proper compression around breaker body. When compression is lost, mounting blocks should be replaced.

8. Inspect RIP-R-STRIPPER master ON/OFF and electric breaker ON/Off switch for proper operation. If damaged or worn, replace.

9. Inspect operator handle grips are free of moisture, pitch, oil or grease and are not cracked, damaged or worn. If full of dirt or pitch, clean. If loose, damaged and/or worn or end caps are missing, replace.

10. Inspect extension system and red safety lever cable assembly for damage and/or wear and has complete freedom of movement plus proper engagement. If damaged or worn, replace.

11. Inspect operator handle for structural integrity, cracks or abrasions.

12. Inspect all safety and operation decals for proper condition. If any decal becomes damaged and/or unreadable, replace.

13. Consult material supplied by breaker manufacturer for specific operational, maintenance and storage information requirements.

10 TROUBLESHOOTING

NOTE: If troubleshooting information does not correct situation, all maintenance/repairs not described in this operator manual must be done by a dedicated service center following a specific service/repair manual.

BREAKER WILL NOT START OR LOOSES POWER

Possible Cause	Correction
ON/OFF switch located on operator handle in OFF position.	Turn to ON position.
Electric breaker ON/OFF switch in OFF position.	Turn to ON position.
Cord plug from operator handle to electric breaker not connected.	Inspect for damage/proper connection configuration. Connect cord to extension cord of electric breaker.
No power received from power source.	Consult qualified electrician for proper voltage and ampere output.
Improper extension cord connection (if applicable).	Determine all connections produce closed circuit. Reduce length and/or increase cord cross-sectional size.
Electric breaker loses power.	Check power source for correct voltage and amperage.
Electric breaker loses power due to high operating temperatures.	Disconnect electric breaker from operator handle cord. Determine electric breaker is clean of foreign material accumulations. Clean as necessary allow to cool. Consult material supplied by breaker manufacturer for specific information.

BREAKER FUNCTIONS/ACCESSORY TOOL DOES NOT IMPACT FLOOR

Possible Cause	Correction
Electric breaker internal component failure.	Consult breaker manufacturer for specific information.
Accessory tool top not in contact with electric breaker anvil.	Push accessory tool shank upward to make proper contact with anvil while in operation. See OPERATING INSTRUCTIONS this manual.
Damaged electric breaker urethane mounting block(s).	Inspect mounts for excessive damage and/or wear. Replace block(s) as necessary.
Retaining clamp screws loose.	Determine tool retaining device properly holds tool in receiver.
Worn or damaged accessory tool.	Determine tool retaining device properly holds tool in receiver.
Worn or damaged tool receiver.	Inspect receiver for excessive wear causing tool to wedge inside and not make proper contact with anvil.

EXCESSIVE JUMPING ON WORK SURFACE

Possible Cause	Correction
Incorrect accessory tool installation.	See INSTALLING & REMOVING ACCESSORY TOOLS to RIP-R-STRIPPER this manual.
Damaged electric breaker urethane mounting block(s).	Inspect mounts for excessive damage and/or wear. Replace as necessary.
Improper accessory tool angle relative to work surface.	Manually readjust accessory tool angle during operation to lower/minimize movement.

UNEVEN FLOOR COVERING MATERIAL REMOVAL

Possible Cause	Correction
Damaged electric breaker urethane mounting block(s).	Inspect mounts for excessive damage and/or wear. Replace as necessary.
Breaker improperly mounted to frame.	See INSTALLING ELECTRIC BREAKER TO MAIN FRAME this manual.
Excessive material build-up on caster wheel face surface.	Remove material. Adjust wheel scraper to wheel gap setting 0.8/1.5 mm (0.3/.06 inch) depending on covering material/jobsite conditions.
Excessive caster wheel bearing wear.	Replace caster wheel.
Bent or damaged accessory tool.	Replace accessory tool.
Electric breaker receiver out of alignment.	Realign main wheels to provide full accessory tool contact.

11 STORAGE

LONG TERM STORAGE

Procedure for long term storage of RIP-R-STRIPPER will protect it against effects of corrosion and damage. If RIP-R-STRIPPER is not to be operated for a period of 30 days or more, proceed to store as follows:

1. STOP RIP-R-STRIPPER per STOPPING RIP-R-STRIPPER in OPERATING INSTRUCTIONS section of this manual.

2. Remove accessory tool per INSTALLING & REMOVING ACCESSORY TOOLS in MACHINE SET-UP section of this manual. Store to prevent damage or rust.

3. Clean RIP-R-STRIPPER per MAINTENANCE INSTRUCTIONS section of this manual.

4. Inspect all visible parts for wear, breakage or damage per MAINTENANCE INSTRUCTIONS section of this manual.

5. Apply a dry film lubricant to all exposed metal components, including accessory tool, to prevent rust formation.

6. Block bottom of main frame to prevent damage to breaker urethane mounting blocks.

7. Store RIP-R-STRIPPER inside. If RIP-R-STRIPPER must be stored outside, protect it with a suitable covering.

8. Follow procedure as outlined in material supplied by breaker manufacturer detailing long term storage of breaker.

12 END OF LIFECYCLE

If the machine comes to the end of its lifecycle, destruction of the machine must be conducted according to international and local environmental regulations.

13 DECLARATION OF INCORPORATION

We, General Equipment Company, 620 Alexander Drive SW, P.O. Box 334, Owatonna, MN 55060, USA declare under our sole responsibility that the incomplete product: CTS12

To which this declaration relates is in conformity with the following standards or standardization documents:

- EN-ISO 12100:2010

According to the provisions of the European directive:

- 2006/42/EC

Manufactured at: Owatonna, Minnesota 55060, USA
Beginning with serial number: 140820

Signature: Dennis Von Ruden
Position: President
Date: April 4, 2016

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