

Instruction and Maintenance Manual

RAIL GRINDER Model SBG150

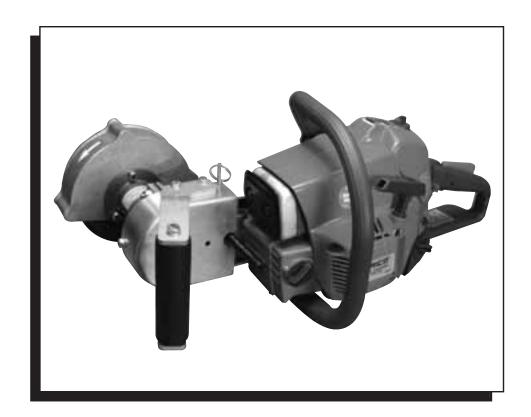




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WARNING:

- 1. ERICO products shall be installed and used only as indicated in ERICO product instruction sheets and training materials. Instruction sheets are available at www.erico.com and from your ERICO customer service representative.
- 2. ERICO products must never be used for a purpose other than the purpose for which they were designed or in a manner that exceeds specified load ratings.
- 3. All instructions must be <u>completely</u> followed to ensure proper and safe installation and performance.
- 4. Improper installation, misuse, misapplication or other failure to completely follow ERICO's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death.

SAFETY INSTRUCTIONS:

All governing codes and regulations and those required by the job site must be observed. Always use appropriate safety equipment such as eye protection, hard hat, and gloves as appropriate to the application.

For Service, call 1-800-447-RAIL (7245).



GENERAL SAFETY INFORMATION

Read and follow all safety instructions before operating or performing maintenance on the equipment.

DEFINITIONS OF FLAG WORDS:

DANGER: Indicates an imminent hazardous situation, which, if not avoided, will result in death or serious injury.

Its use is limited to the most extreme situation.

WARNING: Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

CAUTION: Indicates a hazardous situation, which, if not avoided, will result in minor or moderate injury.

It is also used to alert against unsafe practices.

NOTICE: Is used only with alerts that warn against property damage.

During the operation of the equipment, the user must be familiar with and follow all applicable statutes, codes, and regulations governing the workplace.



EXPLOSIVE DISINTEGRATION HAZARD: Defective grinding wheels can explosively disintegrate when turning at high speeds causing death or serious injury from flying debris. Prior to use, always check wheel for soundness by tapping with a hammer or wrench; wheels with nicks, flat spots or excessive wear should be discarded. Never operate the wheel above its rated speed. Ensure that all guards are in place prior to operating the tool. Always operate the grinder in a position that places the guard between the wheel and the operator. New wheels should be run at operating speed for one minute before any actual grinding. Never grind with the side of a conventional straight or Type 1 grinding wheel.

EXPLOSION, FLAMMABILITY HAZARD: Failure to refuel the equipment away from open flame, spark generators, or other ignition sources, including smoking, will result in a fatal or serious injury accident. Never start the engine in an explosive atmosphere or near flammables, failure to observe this can be fatal or result in serious injury.

WARNING

EYE DAMAGE HAZARD: Failure to wear approved safety eye protection can result in permanent sight loss from flying debris.

CLOTHING AND HAIR ENTANGLEMENT HAZARD: Loose clothing, ornamentation and hair can be entangled on projections or moving parts, and result in fatal or serious injury. If gloves are used, they should be easily removable and of nonslip type. Always allow the grinder wheel to fully stop before setting the grinder down and never touch moving parts.

HEARING LOSS HAZARD: Failure to wear approved hearing protection when operating this equipment can result in permanent hearing loss.

EXPLOSION FLAMMABILITY HAZARD: Failure to remove fuel cap slowly may cause spurting of gasoline onto hot parts of engine and possible fire resulting in serious or fatal burns. Do not use glass bottles, which can shatter or explode and result in serious or fatal burns.

EXPLOSIVE DISINTEGRATION HAZARD: Damage to flywheel or clutch due to use of improper tools may result in their disintegration when used, resulting in fatal or serious injury.



GENERAL SAFETY INFORMATION



1 POTENTIAL PHYSICAL HEALTH PROBLEM

PROTECTION FROM VIBRATION: Vibrations from hand-held tools of this type may contribute to a condition called Raynaud's Syndrome in certain individuals. Symptoms may include tingling, numbness and blanching of the fingers, usually apparent under exposure to cold. Hereditary factors, exposure to cold and dampness, diet, smoking and work practices are all thought to contribute to the development of these symptoms. If you experience any of the symptoms of this condition, immediately discontinue use and see your physician about these symptoms.

This grinder is classified in the "occasional use" category by many current regulations. To reduce the effects of vibration:

- a) Keep your body warm in cold weather. When operating the unit, wear gloves to keep the hands and wrists warm.
- b) Refrain from smoking.
- After each period of operation, exercise (move arms, etc.) to increase blood circulation.
- Take frequent work breaks. Limit the amount of exposure per day.
- e) Keep the tool well maintained, fasteners tightened and worn parts replaced.



HAND INJURY HAZARD: Do not allow the grinder or other moving parts to make contact with unprotected skin on the hand or elsewhere on the body. Failure to wear gloves may result in cuts and bruises to the hand. Gloves must be easily removable and of a non-slip material.



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FUEL MIX



EXPLOSION, FLAMMABILITY HAZARD: Failure to refuel the equipment away from open flame, spark generators, or other ignition sources, including smoking, will result in a fatal or serious injury accident. Never start the engine in an explosive atmosphere or near flammables. Failure to observe this can be fatal or result in serious injury.



Select safe area for fueling. **DO NOT SMOKE** or bring any flame or sparks near fuel. Move at least 10 feet (3 m) from the fueling spot before starting the engine.

This tool is designed to operate on unleaded gasoline with a mix ratio of 50:1. A **name-brand gasoline** is recommended with a quality 2-stroke engine oil having a **classification type TC**.

The unleaded gasoline requires a **minimum** octane number 89 (90 ROZ). Fuels with a lower octane level may result in premature engine failure and may void the warranty.

The chemical composition of the fuel is also important. Various additives etc. may affect seals, fuel lines, diaphragms and metal cast materials. Therefore it is essential that only **name brand fuels** be used.

RECOMMENDED ENGINE OIL: We recommend the use of any name brand type TC two-stroke engine oil.



DO NOT use types BIA or TCW (2-stroke water-cooled) engine oils.

When preparing to mix fuel, first pour the two-stroke engine oil in fuel container and then add gasoline.

2-stroke Oil (type TC)
(US fl. Oz.)
2.6
6.4
12.8



EXPLOSION FLAMMABILITY HAZARD: Failure to remove fuel cap slowly to release pressure and/or re-install fuel cap properly may cause spurting of gasoline onto hot parts of engine and possible fire resulting in serious or fatal burns.

- 1. Ensure area around fuel cap is free of dirt. Loosen fuel cap slowly.
- 2. Thoroughly shake fuel canister to ensure gasoline is mixed with engine oil. Add fuel to reservoir and avoid spillage by not overfilling.
- 3. Immediately replace fuel cap and hand tighten. Additionally, use a suitable tool (screwdriver, etc.) to tighten the slotted fuel cap. Wipe up any fuel spillage.

AGING OF FUEL MIX: Mix enough fuel for several days of work, **DO NOT** store mixed fuel for more than 30 days. Use only approved safety fuel-containers for storage.

For long-term storage of the tool, drain and clean the fuel tank and run the engine to ensure that no fuel is in the carburetor. Store the tool in the toolbox provided. Ensure the storage area is secure and not accessible to children or other unauthorized persons.

Replacement of the fuel pickup body (fuel filter) that is located in the fuel reservoir is recommended once every year.

DRIVE BELT LUBRICANT: Lubrication of the drive belt is **not required**. The oil pump has been disengaged and the oil reservoir cap has been riveted in place to eliminate the potential of adding oil to the reservoir.



SPECIFICATIONS

ENGINE: ERICO® Part No. B3394

Type: Single Cylinder, 2-Stroke Engine Power Head: EFCO (Olympyc) Model 940

Displacement: 39cc (2.38 cu in)

IGNITION:

Spark Plug: Champion RCJ-74 or equivalent

Spark Plug Gap: 0.5 mm (.02"in)

GRINDING WHEEL:

Diameter: 152 mm (6") max.

Arbor: 15.8 mm (5/8") (with bushing)

Type: ERICO® Approved Rated RPM: 6,000 max.

FUEL/OIL SYSTEM:

Air Filter: Special filter (Reusable)
Fuel Capacity: 0.41 Liter (13.8 fl.oz.)
Fuel Mixture: ref. FUEL MIX Section
Drive (Chain) Lubrication: Not Available

WEIGHT:

Model SBG150: 18.2 Lbs (8.3 Kg)

ORDERING SPARE PARTS

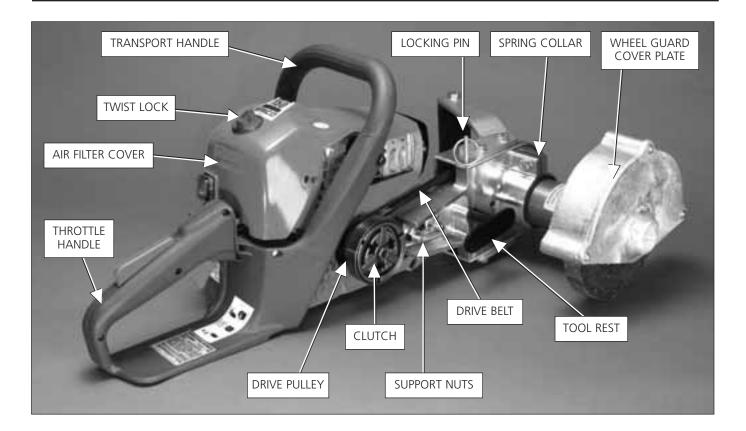
Please provide the Model No. and Item No. as noted on the appropriate exploded views found in this manual.

WARRANTY / SERVICE

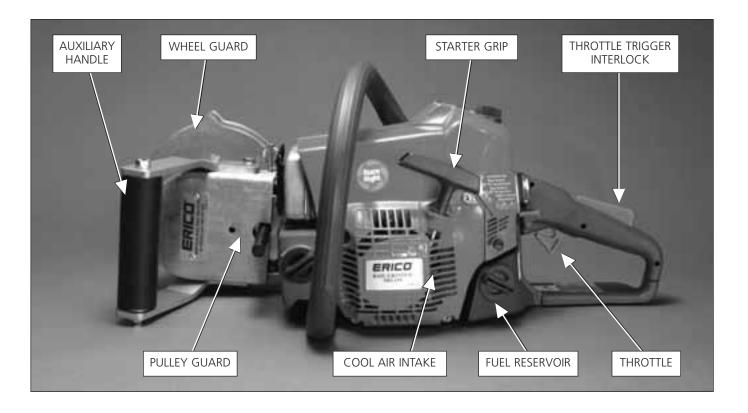
You must use the ERICO factory or an authorized ERICO service center to perform all repairs of grinders. Any repairs made by non-authorized service centers and/or personnel will void all warranties.



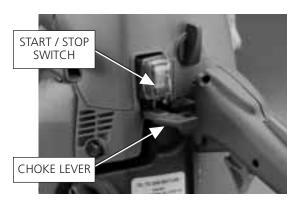
IDENTIFYING PARTS OF THE TOOL



NOTE: Shown without side belt guard



INSTRUCTIONS BEFORE STARTING





"COLD STARTING" PROCEDURES: The choke lever should be pulled out and the start/stop switch should be on "start". Pull starter cord once or twice. Push choke lever back in. Pull starter cord until engine starts.

"WARM STARTING" PROCEDURES: If the engine is warm, the choke is not required. With the choke lever pushed in, pull starter cord until the engine starts.

To **STOP** the engine, move the start/stop switch to "stop".

OPERATING THE RAIL GRINDER

You can expect some fluids and residues to seep, etc. from the tool during transport or storage. **DO NOT** put tool on a surface that you wish to keep unsoiled.

REMINDERS: Speed up engine before making grinder wheel contact. Do all grinding at full throttle so as not to slip the clutch. Get ready to throttle down to idle so as not to overspeed the engine when it becomes load free.

NOTE! A new tool should not be run at full throttle with no load until at least 3 full tanks of fuel have been used. This ensures that the engine will not fail prematurely due to higher loads during the break-in period. After the break-in period the engine will start reaching maximum horsepower after 5 full tanks of fuel.

GRIP ON HANDLES

- 1. Wear non-slip gloves for maximum grip and protection.
- 2. Proper grip is important! Maintain a proper grip on the grinder whenever the engine is running and/or the grinding wheel is rotating. Grasp the THROTTLE HANDLE with your left hand so you can control the THROTTLE properly as shown above. With your right hand, grasp the AUXILIARY HANDLE (Foam handle).



GRINDING STANCE: Always keep your weight well balanced on both feet when grinding. Since you will exert moderate pressure when grinding, guard against loss of balance, by being ready to hold up on the grinder in case it slips off the object being ground.

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RAIL GRINDING PROCEDURE

It is recommended that before grinding, the rail surface be wiped clean with a cloth saturated with mineral spirits, followed by a wipe with a clean dry cloth. Surface contaminants such as rust, grease, oil, and water condensation will affect the integrity of a CADWELD® bond. Discard soiled rags etc. in an approved manner.

Reference the pictures that follow:



1. Proper stance

- Stance: Take the proper stance in front of the area to be ground with the grinder idling. Rest right arm on knee while in squatting position. Lift with your legs, not your back.
- 2. **Tool Rest Adjustment:** This grinder can be used for both head grinding and web grinding. Adjust the tool rest so that the grinding wheel is positioned at the correct height.

Wheel Position:

Head Grinding Wheel should be at the center of the head of the rail, above the splice plate.

Web Grinding Wheel should be at the Neutral Axis of the rail.



Use the tool rest to support the grinder. NEVER REST THE GRINDER ON THE CLUTCH GUARD.



Head grinding



Web grinding



3. Wheel guard adjustment



4. Proper grip

- 3. **Wheel Guard Adjustment:** If desired, you may adjust the orientation of the wheel guard by loosening the spring collar bolt and rotating the guard to the desired position. Retighten bolt before grinding.
- 4. **Grip:** Grasp the throttle control handle with your left hand while gripping the auxiliary foam handle with your right hand.
- 5. Use the tool rest to support the weight of the grinder. **NEVER REST THE GRINDER ON THE CLUTCH GUARD**. Accelerate the engine to full throttle just before wheel touches area to be ground.
- 6. Begin grinding with the wheel against the rail moving with a side-to-side motion until bright base metal is shown.
- 7. Allow wheel to do grinding for you. Exert only slight pressure.
- 8. Release the throttle trigger as soon as the wheel loses contact with the rail, allowing the engine to idle.

Note! If you run the grinder at full throttle without a grinding load, unnecessary wear can occur to the belt, bearings and engine.



TOOL MAINTENANCE SCHEDULE

		Start of Work	Each Re-fueling	Daily	Weekly	Monthly	Yearly	If Required	If Damaged
Overall Tool	Check for Leaks, etc.	*	*						
Overall 1001	Clean			*					
Throttle Trigger, Control Lever	Check for Operation	*	*						
Fuel Diek up Filter	Check					*			
Fuel Pick-up Filter	Clean and Replace						*		
Fuel Reservoir	Clean					*			
Air Filter	Clean		*						
Air Filler	Replace								*
Cool Air Inlets	Clean			*					
Cylinder Fins	Clean					*			
	Check Idle Adjustment – wheel must not turn	*	*						
Carburetor	Readjust Idle							*	
	Replace								*
Coorle Dive	Clean and Adjust					*			
Spark Plug	Replace							*	
Muffler	Inspect Muffler					*			
iviuiller	Replace								*
Drive Belt	Inspect and Adjust				*				
	Replace								*
Grinding Wheel	Inspect for Damage	*	*						
	Replace							*	*
Check Screw, Tighten	Check for Loose Fasteners			*					

TORQUE SCHEDULE: SBG150

Item No.	Torque (Inch-Lbs.)
1	100
18,35	30
22	100
23	100
25	80
29	20
38	130*
EFCO Engine Clutch	190

^{*} Loctite® 242 or equivalent is required.



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TROUBLE SHOOTING CHART

PROBLEM	CAUSE	SOLUTION			
Engine will not start.	1. No Spark	Remove spark plug, clean if dirty and re-gap at 0.02" (0.5 mm). Replace after approx. 100 hrs and/or badly eroded. Use only resistor type spark plugs with the same heat range.			
		Wrong fuel mixture, dirty air filter or unfavorable running conditions will affect the condition of the spark plug.			
Engine will not reach full speed	1. Wrong oil/fuel mixture.	Use brand-name fuel (min. 89 octane) and quality 2-stroke engine oil (class TD).			
and emits excessive smoke.	2. Dirty air filter.	2. Clean or replace air filter.			
	3. Carburetor out of adjustment.	3. Turn high speed adjustment "H" clockwise			
Engine runs and accelerates, but will not idle properly.	Carburetor out of adjustment. Idle speed adjustment.	Turn the Idle speed screw "T" clockwise to increase speed, counter-clockwise to decrease. Proper idle speed is achieved when engine idles without the drive clutch engaging. - If the engine hesitates or stalls when the throttle is engaged, turn the low speed adjustment counter-clockwise. - If the engine is sluggish to respond and smokes, turn the low speed adjustment clockwise until the engine responds.			
Erratic idle. Poor Acceleration.	Carburetor out of adjustment. Too lean idle mixture.	Adjust idle mixture screw "L". Proper idle mixture is achieved when engine idles and accelerates smoothly. If the engine hesitates or stalls when the throttle is engaged, turn the low speed adjustment counter-clockwise. If the engine is sluggish to respond and smokes, turn the low speed adjustment clockwise until the engine responds.			
	2. Fouled spark plug.	2. Replace spark plug.			
Lacks power when throttle is fully open.	Carburetor out of adjustment.	Turn high speed adjustment screw "H". If smoking, turn clockwise. If not achieving full speed, turn counter-clockwise.			
	2. Dirty air filter.	2. Clean or replace air filter.			

NOTE! If the above solutions do not solve your problem, please contact ERICO® for service at 1-800-447-RAIL.

CARBURETOR ADJUSTMENTS



The carburetor is designed to provide optimum performance from the factory. The settings of the carburetor are adjusted to ensure that the tool will deliver maximum horsepower, fuel efficiency and operate reliably.

Before adjusting the carburetor, clean the cool air intake, the air filter and warm up the engine.

On these tools it is only possible to set the idle mixture and speed within limits. Note the trouble-shooting chart above for instructions on when these adjustments should be made.



Do not try to force the screws outside the range.



DRIVE BELT

Ensure that all guards are in good condition and mounted properly prior to starting the tool.

NOTE! For the following procedures, please reference the item numbers found in the exploded view of the tool model SBG150. Corresponding items referenced below are found in brackets (). Follow the recommended torque schedule for re-installation of fasteners.

BELT ADJUSTMENT:

- 1. Remove two flange nuts (38) and belt guard (15) from wheel side of grinder.
- 2. Loosen support nuts using a 13 mm drive socket. **DO NOT REMOVE.**
- 3. Adjust belt tension by inserting large screwdriver between support rest (37) and engine case (see photo). Pry on engine case to tension belt. 1/8 1/4 inch deflection is adequate when applying thumb pressure at center of belt.
- 4. After proper adjustment, tighten support nuts.
- 5. Remove cured Loctite® from threads on studs and flange nuts (38) using a wire brush or equivalent.
- 6. Clean threads of studs and flange nuts (38) with Loctite cleaning solvent, or equivalent, and allow to dry.
- 7. Shake Loctite 242 thoroughly. Apply several drops of Loctite onto studs at flange nut (38) engagement area.
- 8. Replace the belt guard (15) and snug the flange nuts (38). Once snug, turn flange nuts (38) 1/8-turn to lock.



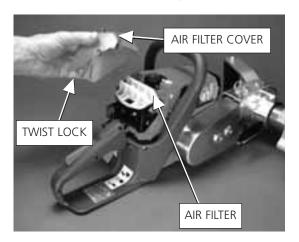
BELT REPLACEMENT:

- 1. Remove two flange nuts (38) and belt guard (15) from wheel side of grinder.
- 2. Loosen support nuts until main support (9) can move $\bf DO$ NOT REMOVE NUTS.
- 3. Remove five screws (18), foam handle assembly (33) and belt pulley guard (16).
- 4. Remove belt (8) by rolling it off the drive pulley (11).
- 5. To re-install belt, place over pulleys (11) (12). "Roll" belt onto drive pulley (11) with your hand.
- 6. Replace pulley guard (16), foam handle assembly (33) and five screws (18).
- 7. Adjust belt tension as described in previous section.
- 8. After proper adjustment, tighten support nuts.
- 9. Remove cured Loctite from threads on studs and flange nuts (38) using a wire brush or equivalent.
- 10. Clean threads of studs and flange nuts (38) with Loctite cleaning solvent, or equivalent, and allow to dry.
- 11. Shake Loctite 242 thoroughly. Apply several drops of Loctite onto studs at flange nut (38) engagement area.
- 12. Replace the belt guard (15) and snug the flange nuts (38). Once snug, turn flange nuts (38) 1/8-turn to lock.



AIR FILTER REMOVAL

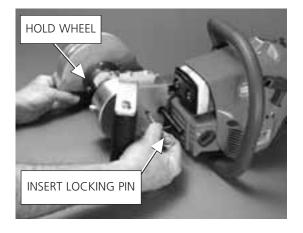
- 1. Unlock air filter cover by rotating twist lock counter clockwise.
- 2. Remove air filter cover by pulling up from the twist lock end of the cover.
- 3. Remove air filter.
- 4. Replacement: Insert air filter into air filter cover before reinstalling cover.



GRINDING WHEEL REMOVAL

NOTE! For the following procedures, please reference the item numbers found in the exploded view of the tool model SBG150. Corresponding items referenced below are found in brackets (). Follow the recommended torque schedule for re-installation of fasteners.

- 1. Remove the Side Cover Wheel Guard (28) by removing the three mounting screws (29).
- 2. Remove locking pin (6) from main support (9) and insert into the hole in belt guard (16). Rotate grinding wheel until pin slips into hole. See photo.
- 3. Using a 5/8" open-end wrench (supplied), loosen the wheel nut (22). NOTE! Rotate clockwise to loosen (left hand fastener) and remove the grinding wheel.
- 4. Inspect all replacement wheels, ensure that they have not been dropped and/or abused.
- 5. Check to ensure that the paper blotters are present on each side of wheel, and that the wheel is an approved type by ERICO®.
- 6. Re-install in reverse order. Do not overtighten wheel nut (22). Follow torque schedule.
- 7. Replace locking pin (6) in main support.
- 8. Re-install side cover wheel guard (28) and start grinder. Allow grinding wheel to come up to maximum speed to verify correct installation of wheel prior to grinding. Check installation if excessive vibration is present.





ACCESSORIES



Standard Wheel 6" x 3/4"



Standard Wheel 6" x 1"



6" Beveled Wheel



Slotting Wheel 6" x 5/32"

KITS

• **Slotting Wheel Kit** (p/n SBK104) Includes 6" slotting wheel, spacer and adjustable depth gauge.

REPLACEMENT PARTS (Wheels, etc.)

- 6" x 3/4" Standard Grinding Wheel (p/n SBS2333)
- 6" x 1" Standard Grinding Wheel (p/n SB22122)
- **6" Beveled Grinding Wheel** (p/n S2129) (Head Free Rail Applications)
- **6" Slotting Wheel** (p/n 22128) (includes spacer)
- **Dressing Stone** (p/n SBS3590)

TOOL BOXES

• **Tool Box for SBG150** (p/n SBG15003)

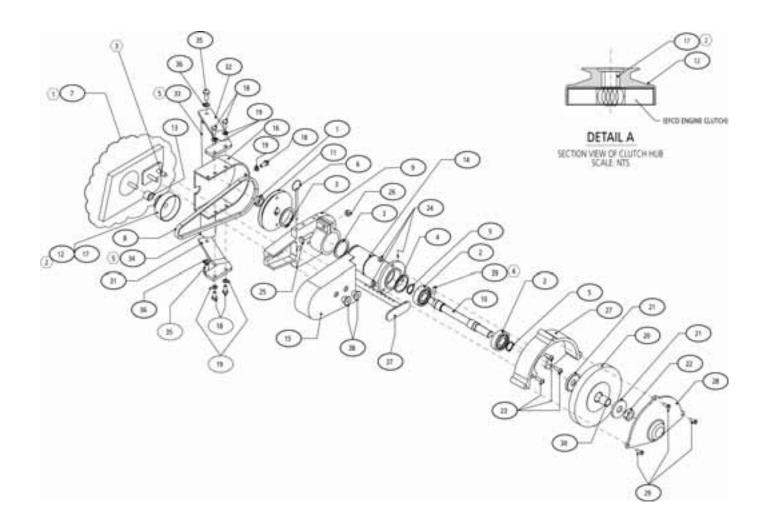


SBG150 RAIL GRINDER PARTS LIST

Item	ERICO® Part No.	Quantity	Description	
1	A928P001	1	NUT, LOCK, BEARING, NL-02	
2	A930U008	2	BEARING, BALL, SPINDLE, 42 x 20 x 12 mm	
3	A932C010	2	RING, SNAP, EXTERNAL, 2 in	
4	A932B044	1	RING, SPIRAL, INTERNAL, 42 mm	
5	A932C009	2	RING, SNAP, EXTERNAL, 25/32 in	
6	A930X012	1	PIN, RELEASE, QUICK, 3/16 x 3 in	
7	SBG150MOD	1	ENGINE, GRINDER, EFCO 940LE	
8	SB013212	1	V-BELT, TY 3L240	
9	C3097	1	SUPPORT, MAIN, ALUMINUM	
10	B3406	1	SHAFT, GRINDER, STEEL	
11	B3399	1	PULLEY, DRIVE, ALUM. 3-7/8 in, V-BELT GROOVE	
12	B3398	1	DRUM, CLUTCH DRUM	
13	B3400	1	SPACER, CLUTCH DRUM	
14	B3407	1	SUPPORT TUBE, SHAFT	
15	SBG15002	1	GUARD, BELT, SIDE	
16	SBG15001	1	GUARD, BELT, FORWARD	
17	A930U007	1	BEARING, NEEDLE, 14 mm x 10 mm x 12 mm	
18	A927F006	5	BOLT, HEX, 1/4-20 x 3/4 in GRADE 5, ZINC/CHROME FIN.	
19	A929B004	5	WASHER, LOCK, 1/4 in, ZINC/CHROME FIN.	
20	S2333P	1	WHEEL, GRINDING	
21	B3368	2	SPACERS, WHEEL	
22	A928C024	1	NUT, THIN, (JAM) 5/8-18 LH	
23	A927B009	3	SCREW, BUTTON, 1/4-20 x 3/4 in	
24	A928B001	3	NUT, HEX, NY-LOC, 1/4-20 in	
25	A927F024	1	BOLT, HEX, 5/16-18 x 1-1/4 in, PLATED	
26	A928B021	1	NUT, HEX, NY-LOC, 5/16-18, PLATED	
27	B3367	1	GUARD, GRINDING WHEEL	
28	B3365	1	GUARD, SLIDE COVER, GRINDING WHEEL	
29	A927A011	3	SCREWS, BINDING HEAD	
30	\$3899	1	SLEEVE, HARD AL	
31	B3387LH	1	BRACKET, LEFT HAND, AUX. HANDLE	
32	B3387RH	1	BRACKET, RIGHT HAND, AUX. HANDLE	
33	B3361	1	HANDLE, ROUND, STL	
34	B3361A	1	GRIP, FOAM, 5 in, BLACK	
35	A927F022	2	BOLT, HEX, 5/16-18 x 3/4 in, GRADE 5, ZINC/CHROME FIN.	
36	A929B005	2	WASHER, LOCK, 5/16 in, ZINC/CHROME FIN.	
37	B3410	1	SUPPORT REST, STAND-OFF	
38	B3390	2	NUT, SPECIAL SLANGE, M8-1.25	
39	A930H039	1	PIN, DOWEL, 3/16 x 3/4 in, STL	



SBG150 RAIL GRINDER EXPLODED VIEW





ERICO® RAIL PRODUCTS LIMITED WARRANTY

SBG150 Series Rail Grinder

ERICO Inc. will repair or replace, at its option, any part that is proven to be defective in material or workmanship under normal use during the applicable warranty time period. Warranty repairs and replacements will be made without charge for parts or labor. Anything replaced under warranty becomes the property of ERICO Inc. All parts replaced under warranty will be considered as part of the original product and any warranty on those parts will expire coincident with the original product warranty.

Length of limited warranty from date of original purchase:

- 12 months on all components of SBG150 style grinder.
- 24 months EMAK factory warranty for engine 940LE on emission control system parts.

This warranty is not transferable and does not cover damage caused by unreasonable use, including the failure to provide necessary maintenance. In addition, this warranty does not cover general check-ups on electrical equipment, tune-ups on gasoline engines or replacement of non-defective parts (such as electrical ignition, cables, sparkplugs, filters, grinding wheels, etc.) that may wear and need to be replaced with reasonable use within the warranty period or which may require replacement in connection with normal maintenance.

Proof of purchase is required. This may be in the form of a purchase order number and date, or ERICO order number. Also, the part number and serial number notation will be required.

You must at your own expense arrange to deliver or ship the product for warranty repairs.

OTHER THAN THE LIMITED WARRANTY SET FORTH ABOVE, ERICO MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED, ORAL OR WRITTEN, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. NO ORAL OR WRITTEN INFORMATION OR REPRESENTATION GIVEN BY ERICO OR ITS AGENTS, AFFILIATES, REPRESENTATIVES OR EMPLOYEES SHALL CREATE ANY WARRANTY OR OBLIGATION, AND PURCHASER AGREES THAT IT SHALL NOT RELY ON ANY SUCH INFORMATION OR REPRESENTATION WITH RESPECT TO THE PRODUCT.

ERICO SHALL NOT BE LIABLE UNDER ANY THEORY OF LIABILITY, HOWEVER ARISING, INCLUDING BUT NOT LIMITED TO NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE FOR ANY COSTS OF COVER OR FOR INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND (INCLUDING WITHOUT LIMITATION CLAIMS BY THIRD PARTIES AGAINST THE PURCHASER, OR CLAIMS OF CONTRIBUTION OR INDEMNITY) ARISING OUT OF THE PURCHASE OF, USE OF, OR INABILITY TO USE THE PRODUCT, EVEN IF ERICO HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. ERICO'S TOTAL LIABILITY TO PURCHASER AND ANY THIRD PARTIES FOR ANY LOSSES OR DAMAGES, REGARDLESS OF THE BASIS OF THE LIABILITY, ARISING IN CONNECTION WITH THE PRODUCT SHALL IN NO EVENT EXCEED THE AMOUNT OF THE PURCHASE PRICE ACTUALLY PAID BY THE PURCHASER FOR ONE OF THE PRODUCTS.

How to obtain warranty service:

Warranty service can be obtained by calling the Rail Electrical Sales Dept at ERICO, 1-800-447-RAIL (7245) and requesting a Returned Materials Authorization (RMA) number. Other instructions will be given at that time.

This warranty affords you specific legal rights, and you may also have other rights, which vary, from state to state.

ERICO Products, Inc. (d/b/a ERICO, Inc.), 34600 Solon Road, Solon, OH 44139, gives this limited warranty.









AUSTRALIA Phone 1-800-263-508 Fax 1-800-423-091



CHINA Phone +86-21-3430-4878 Fax +86-21-5831-8177



HUNGARY Phone 06-800-16538 Fax +39-0244-386-107



NORWAY Phone 800-100-73 Fax 800-100-66



SWITZERLANDPhone 0800-55-86-97
Fax 0800-55-96-15



BELGIUM Phone 0800-757-48 Fax 0800-757-60



DENMARKPhone 808-89-372
Fax 808-89-373



INDONESIA Phone +62-21-575-0941 Fax +62-21-575-0942



POLAND Phone +48-71-349-04-60 Fax +48-71-349-04-61



THAILANDPhone +66-2-267-5776
Fax +66-2-636-6988



BRAZIL Phone +55-11-3623-4333 Fax +55-11-3621-4066



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ITALY Phone 800-870-938 Fax 800-873-935



SINGAPORE Phone +65-6-268-3433 Fax +65-6-268-1389



UNITED ARAB EMIRATESPhone +971-4-881-7250
Fax +971-4-881-7270



CANADA Phone +1-800-677-9089 Fax +1-800-677-8131



GERMANYPhone 0-800-189-0272
Fax 0-800-189-0274



MEXICO Phone +52-55-5260-5991 Fax +52-55-5260-3310



SPAINPhone 900-993-154
Fax 900-807-333



UNITED KINGDON Phone 0808-2344-670 Fax 0808-2344-676



CHILEPhone +56-2-370-2908
Fax +56-2-369-5657



HONG KONG Phone +852-2764-8808 Fax +852-2764-4486



NETHERLANDS Phone 0800-0200-135 Fax 0800-0200-136



SWEDEN Phone 020-790-908 Fax 020-798-964



UNITED STATES
Phone 1-800-753-9221
Fax +1-440-248-0723