



Operator's Instruction Manual

TLR-7



TRAFFIC LINE REMOVER



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READ AND UNDERSTAND THE OPERATORS INSTRUCTION MANUAL *THOROUGHLY* BEFORE ATTEMPTING TO OPERATE THIS EQUIPMENT.



Death or serious injury could occur if this machine is used improperly.



SAFETY MESSAGES

- Safety Instructions are preceded by a graphic alert symbol of DANGER, WARNING, or CAUTION.



Indicates an imminent hazard which, if not avoided, will result in death or serious injury.



Indicates an imminent hazard which, if not avoided, can result in death or serious injury.



Indicates hazards which, if not avoided, could result in serious injury and or damage to the equipment.

GASOLINE/PROPANE POWERED EQUIPMENT



- Engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive

harm.



Gasoline is extremely flammable and poisonous. It should only be dispensed in well ventilated areas, and with a cool engine.

- Small gasoline engines produce high concentrations of carbon monoxide (CO) example: a 5 HP 4 cycle engine operation in an enclosed 100,000 cu. ft. area with only one change of air per hour is capable of providing deadly concentrations of CO in less than fifteen minutes. Five changes of air in the same area will produce noxious fumes in less than 30 minutes. Gasoline or propane powered equipment should not be used in enclosed or partially enclosed areas. Symptoms of CO poisoning include, headache, nausea, weakness, dizziness, visual problems and loss of consciousness. If symptoms occur - get into fresh air and seek medical attention immediately.

ELECTRICAL POWERED EQUIPMENT



Extreme care must be taken when operating electric models with water present: Ensure power cord is properly grounded, is attached to a Ground-Fault-Interrupter (GFI) outlet, and is undamaged.

- Check all electrical cables - be sure connections are tight and cable is continuous and in good condition. Be sure cable is correctly rated for both the operating current and voltage of this equipment.
- Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with qualified electrician or service person if there is any doubt as to whether the outlet is properly grounded. Adhere to all local codes and ordinances.
- **NOTE:** In the event of a malfunction or breakdown, grounding provides a path of least resistance for the electric current to dissipate. The machine is equipped with a grounded plug and must be connected to an outlet that is properly installed and properly grounded. DO NOT modify the plug provided on the motor. If the plug does not fit the outlet have a qualified electrician install the proper receptacle.
- Switch motor OFF before disconnecting power.

- Do not disconnect power by pulling cord. To disconnect, grasp the plug, not the cord.
- Unplug power cord at the machine when not in use and before servicing.

GENERAL INSTRUCTIONS

- Equipment should only be operated by trained personnel in good physical condition and mental health (not fatigued). The operator and maintenance personnel must be physically able to handle the bulk weight and power of this equipment.
- This is a one person tool. Maintain a safe operating distance to other personnel. It is the operators' responsibility to keep other people (workers, pedestrians, bystanders, etc.) away during operation. Block off the work area in all directions with roping, safety netting, etc. for a safe distance. Failure to do so may result in others being injured by flying debris or exposing them to harmful dust and noise.
- This equipment is intended for commercial use only.
- For the operator's safety and the safety of others, always keep all guards in place during operation.
- Never let equipment run unattended.



- Personal Protection Equipment and proper safety attire must be worn when operating this machinery. The operator must wear approved safety equipment appropriate for the job such as hard hat and safety shoes when conditions require. Hearing protection **MUST** be used (operational noise levels of this equipment may exceed 85db). Eye protection **MUST** be worn at all times.



Keep body parts and loose clothing away from moving parts. Failure to do so could result in dismemberment or death.

- Do not modify the machine.
- Stop motor/engine when adjusting or servicing this equipment. Maintain a safe operating distance from flammable materials. Sparks from the cutting-action of this machine can ignite flammable materials or vapors.



DUST WARNING



Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects, or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints, and
 - Crystalline silica from bricks and concrete and other masonry products.
- Your risk of exposure to these chemicals varies depending on how often you do this type of work. To reduce your risk: work in a well ventilated area, use a dust control system, such as an industrial-style vacuum, and wear approved personal safety equipment, such as a dust/particle respirator designed to filter out microscopic particles.



Read and understand all operating instructions
before operating this equipment.



Death or serious injury can result if this machine is used improperly.



Safety Guidelines



Eye and ear protection must be worn at all times while the TLR-7 is in use. During normal operation, sound pressure levels less than 85dBA. Use only ANSI approved safety glasses to help prevent eye injury. Everyday eyeglasses have only impact resistant lenses; they are NOT safety glasses.



Operator must wear appropriate clothing and footwear. Do not wear loose clothing or jewelry that can get tangled in moving parts. Footwear should provide sure footing and protection.



Materials being removed can be toxic or hazardous. A breathing respirator is required to help protect the operator from inhaling the airborne material when operating this machine.



Poisonous Exhaust Gas - Do not operate gasoline powered equipment without adequate ventilation. Carbon Monoxide is an invisible, odorless gas that can kill.

- The TLR-7 is designed to be controlled by a single operator.
- Never operate the TLR-7 while under the influence of drugs, alcohol or when taking medications that impair the senses or reactions, or when excessively tired or under stress.
- Be sure decals on the machine can be clearly read and understood. Replace worn or missing decals immediately.

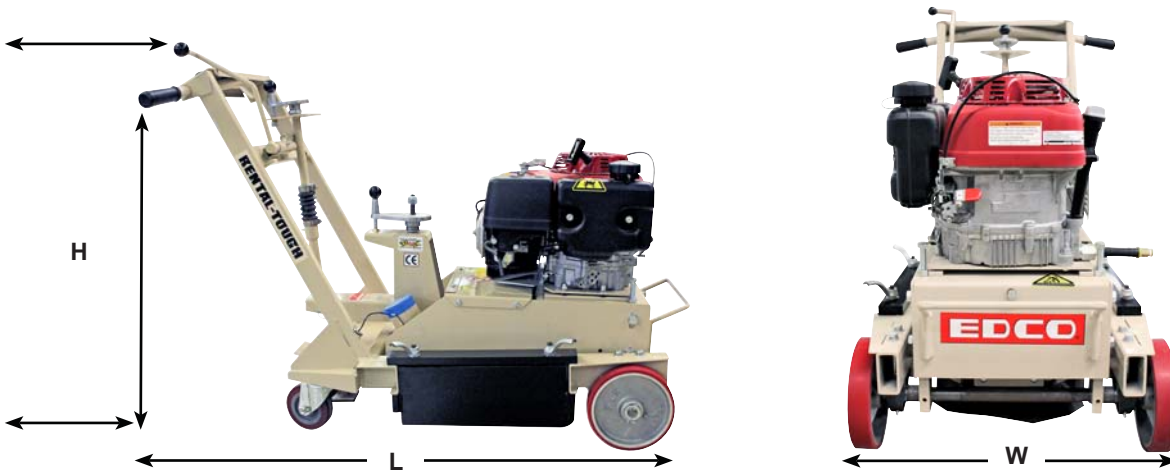
Safety warnings and guidelines do not by themselves eliminate danger. They are not given as substitutes for proper accident prevention procedures and good judgement.



Operator's Instruction Manual TLR-7

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NOTE: Due to improvements your machine may not appear the same as the pictures in this manual.

Figure 1

HOW TO ORDER REPAIR PARTS

To insure product safety and reliability, always use genuine EDCO replacement parts when making repairs to the equipment.

When ordering parts, please specify the MODEL and SERIAL NUMBER of the machine as given on the NAMEPLATE. In addition, give part number, description and quantity as listed on the parts list.

Please note: Due to improvements and changes in the equipment the illustrations shown may be different from the actual machine.

Toll Free: Voice 1-800-638-3326 • Fax 1-800-447-3326

Specifications & dimensions are for reference only and subject to change.

Length (L)	49"	125 cm
Width (W)	29"	74 cm
Height (H)	37"	94 cm
Total Weight	432 lbs.	19.6 kg



Operating Controls

About the TLR-7:

- The TLR-7 is a low maintenance Machine designed to remove markings from asphalt while creating feathered edges which quickly blend with the surrounding surface. The machine is designed to be pushed or pulled by one person in congested or limited access areas. Moving the machine side to side while pushing or pulling achieves the feathered edges that weather quickly and blend with the undisturbed road surface. Do not use the TLR-7 for any purpose other than that for which it was designed. Do not modify the machine.

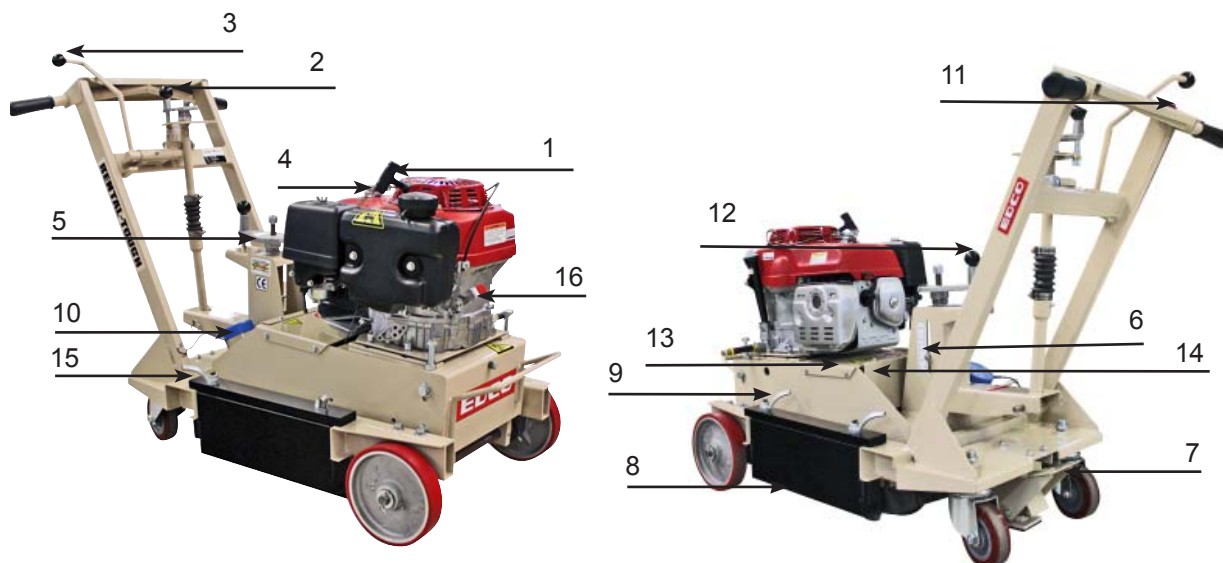


Figure 2



Before Starting:

- Inspect the work surface for foreign objects. Damage to the cutters and/or equipment may result, which can also cause serious injury to the operator. Hazardous areas should be properly identified, clearly marked and avoided.
- Read the operating instructions completely before starting this equipment.
- The operator must wear appropriate clothing and footwear, eye and ear protection must also be worn at all times while machine is in use.

1. ENGINE PULL START

2. ADJUSTABLE DEPTH CONTROL

3. CUTTER HEAD ENGAGING LEVER

4. THROTTLE LEVER

5. PRESSURE CONTROL ADJUSTMENT

6. PRESSURE INDICATOR

7. KICKSTAND

8. REMOVABLE WEIGHTS

9. TAIL NUT

10. VACUUM PORT

11. ENGINE STOP WATCH

12. PRESSURE CONTROL KNOB

13. TOP BELT GUARD

14. REAR BELT GUARD

15. GROUND WIRE

16. MANUAL CHOKE



OPERATING INSTRUCTIONS

1. OBTAIN ENGINE MANUAL

- Read and understand before continuing. **NOTE:** Oil is required on a new machine; they are shipped without oil and gasoline. Follow the engine manual for break-in instructions.

2. ENGAGE KICKSTAND

- prior to start-up of machine. This lifts the cutter head free of surface and applies the machine brake. (See figure 3)

3. CUTTER HEAD ENGAGING LEVER

- Before starting, check that cutter head engaging lever is in the disengaged position. When the engaging lever is disengaged it will be resting against the top plate of the handlebars. (See figure 4)

4. THROTTLE LEVER

- Pull Throttle control 25% open. Set choke lever to on. (See figure 6)

5. ENGINE STOP SWITCH

- Put engine stop switch in the run position. (See figure 7)

6. PRESSURE INDICATOR

- High numbers - more pressure.
- Lower numbers - less pressure. (See figure 8)

7. START ENGINE

- Start engine (only in a well ventilated area). Follow directions in the engine manual.

8. CHOKE

- After engine starts, close the choke and adjust idle to run.

9. RAISE CUTTER

- Raise the cutter to the full up position by lifting the locking knob then turning the adjustable depth control clockwise. (See figure 8)

10. DISENGAGE KICKSTAND

- The surface must be level for safe operation. (See figure 9)

11. MOVE TLR-7

- Into position where work will be performed.

12. LOWER CUTTER

- Lower cutter head lever. This is done by pushing it forward while grasping it firmly for a controlled lowering of cutters. (See figure 10, 11 and 12)



POISONOUS EXHAUST GAS - Do not operate gasoline powered equipment without adequate ventilation.

Carbon Monoxide is an invasive, odorless gas that can kill.



Figure 3



Figure 4

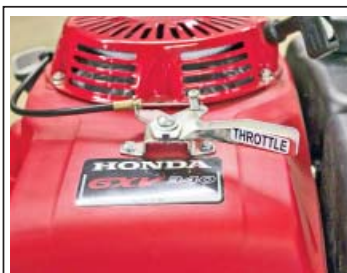


Figure 5



Figure 6



Figure 7



Figure 8



Figure 9



Figure 10



OPERATING INSTRUCTIONS

13. DEPTH CONTROL

- Turn the depth control counterclockwise until the desired depth of penetration is achieved. Once adjusted the operator can engage and disengage the cutters with the cutter head lever and the cutters will return to the preset depth. (See figure 13)

14. WARNING

- Never drop the cutters into the work by releasing the cutter head lever. Grasp the lever firmly to maintain a controlled raising/lowering of the cutters.

15. PRESSURE CONTROL ADJUSTMENT

- The last adjustment is the pressure control adjustment. Depending on the material to be removed, the operator can increase or decrease the tension of the cutting head to provide a more or less aggressive cutting action. If center section bounces on surface increase pressure until it smooths out.

16. PRESSURE INDICATOR

- Adjustment of the pressure control is monitored by the pressure indicator. (See figure 14)

17. VACUUM PORT

- For dust control use the Vacuum Port with an appropriately sized EDCO vacuum system. Contact your EDCO dealer for more information. (See figure 16)

18. TLR-7

- The EDCO Traffic Line Remover (TLR-7) is an easily operated, highly efficient machine which can be operated forwards or backwards. It was designed to be used at a very slow walking pace.

FLOATING HEAD FEATURE

The TLR-7 is designed to allow the cutter to float during removal operation. Maximum movement is 3/4". The pressure control adjustment determines how tightly the cutter head is held against the road surface - depth of cut is controlled by depth control adjustment. To override the floating head feature - lower the engaging lever and turn the depth control in the "down" position until the cutter head is locked at the cutting depth desired. In this position, the pressure adjustment setting will not have any bearing on the cutting action and cutting action will be extremely aggressive.

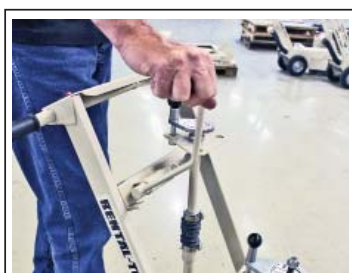


Figure 11



Figure 12

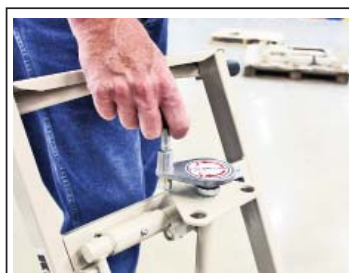


Figure 13



Figure 14



Figure 15



Figure 16



INSTRUCTIONS TO CHANGE CUTTERS

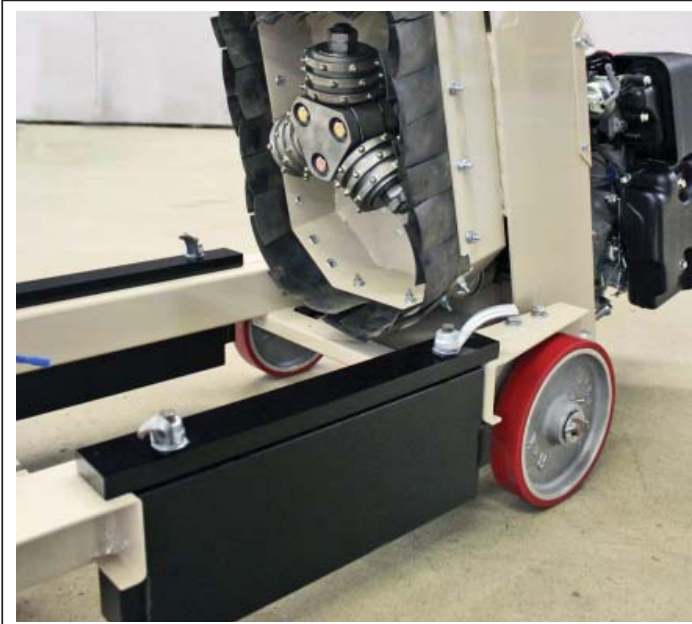


Figure 17



Figure 18

1. STOP ENGINE

- Stop engine and disconnect the spark plug lead. (See figure 15)

2. GASOLINE TANK

- Determine quantity of gasoline in tank - drain tank, if more than 1/2 capacity is present (a drain spout with shut off valve has been installed in fuel line - be sure valve is closed after draining fuel).

3. **DANGER**

- Do not allow gasoline to come in contact with hot engine parts.

4. PRESSURE CONTROL

- Turn pressure control until indicator is at "0". Arrow on pressure control handle indicates direction handle must be turned. This action releases tension from main pressure control spring. (See figure 19)

5. LOWER DISENGAGE LEVER

- Lower disengage lever - inner frame should be fully lowered and resting on outer frame. You may have to turn depth control knob in down direction a few turns. NOTE: Cutter assembly should be resting on road surface. (See figure 19)

6. PULL RETAINING CLEVIS PIN

- Pull retaining clevis pin free. (See figure 20A & 20B)



Figure 19



Figure 20A



Figure 20B



INSTRUCTIONS TO CHANGE CUTTERS

6. DEPTH CONTROL KNOB

- Grasp depth control knob and lift (See figure 25A & 25B). Entire depth control assembly should move up freely allowing lower linkage to lift clear of inner frame. Move lower linkage toward rear of machine out of the way of the inner frame. Unhook ground wire. (See figure 21)

7. UNLOCKING INNER FRAME ASSEMBLY

- Inner frame assembly is held against outer frame by the pressure control spring - a spring loaded latch retains the spring. To release pressure spring reach behind the black steel weight and in front of the rear casters (right side operators position) - half way under outer frame, locate lock hatch, pull pin back, turn 90 degrees and release. Pin should catch in released position and remain that way until frame is to be locked. (See figure 22)

8. FRAMES

- Grasp clevis pin (partially held in inner frame - (refer to figure 20A). Lift frame up and pivot forward until inner frame is 90 degrees to outer frame and is resting on front bumper. (See figure 17)

9. CUTTERS

- Remove, change, or replace cutters.

10. REPLACED CUTTERS

- After the cutters have been replaced, reverse steps #8, #7, #6, #5, #4.

11. DOUBLE CHECK

- Double check to be sure that pressure control spring is latched in position. To determine, attempt to lift inner frame - it should resist your efforts. Reposition lower linkage - push clevis pin through lower linkage and through inner frame until it is securely seated. Turn pressure control knob to setting #1 (refer to figure 14). Lift disengage lever. Reset depth control knob. Reconnect the spark plug lead. Resume line removal by following the operating instructions starting on page 5.



Figure 21



Figure 22

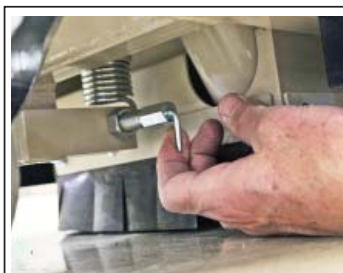


Figure 23

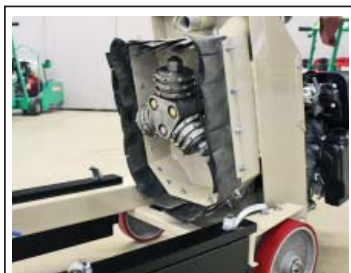


Figure 24



Figure 25

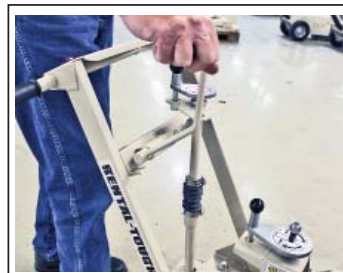


Figure 25A



Figure 25B



Repairs are to be done
by authorized EDCO
Dealers only.



Read and follow
instructions in the engine
owner's manual.

Maintenance



Disconnect the power source *at the machine* before performing any maintenance.

- All maintenance should be performed regularly and by qualified personnel only.
- Remove spark plug lead before carrying out any maintenance.
- Refer to engine manual for engine maintenance
- Be sure the safety decals are readable and properly maintained on the machine.
- Follow the maintenance schedule below, maintenance should be performed regularly by a qualified person.
- If the machine will not be used for extended periods, drain gasoline

Quick Reference For Maintaining the TLR-7	Before Each Operation	Every 4 Hours	Daily	Every 50 Hours of Operation	As Required
Visual Inspection of Machine and Power Cord	X				
Check Engine Oil	X				
Change Engine Oil (Refer to engine manual)				X	
Clean Air Filter Element			X		
Grease Cutter Assembly Bearings		X			
Inspect Drive Belts	X				
Belt Tensioning					X
Grease Wheel Bearings			X		
Clean Dust & Dirt Off Machine			X		



SMI Dust and Silica Warning

Grinding/cutting/drilling of masonry, concrete, metal and other materials can generate dust, mists and fumes containing chemicals known to cause serious or fatal injury or illness, such as respiratory disease, cancer, birth defects or other reproductive harm. If you are unfamiliar with the risks associated with the particular process and/or material being cut or the composition of the tool being used, review the material safety data sheets and/or consult your employer, the manufacturers/suppliers, governmental agencies such as OSHA and NIOSH and other sources on hazardous materials. California and some other authorities, for instance, have published lists of substances known to cause cancer, reproductive toxicity, or other harmful effects.

Control dust, mist and fumes at the source where possible. In this regard use good work practices and follow the recommendations of the manufacturers/suppliers, OSHA/NIOSH, and occupational and trade associations. Water should be used for dust suppression when wet grinding/cutting/drilling is feasible. When the hazards from inhalation of dust, mists and fumes cannot be eliminated, the operator and any bystanders should always wear a respirator approved by NIOSH/MSHA for the material being used.

Grinding/cutting/drilling of masonry, concrete and other materials with silica in their composition may give off dust or mists containing crystalline silica. Silica is a basic component of sand, quartz, brick clay, granite and numerous other minerals and rocks. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respiratory diseases, including silicosis. In addition, California and some other authorities have listed respirable crystalline silica as a substance known to cause cancer. When grinding/cutting/drilling such materials, always follow the respiratory precautions mentioned above.



LIMITED EQUIPMENT WARRANTY OF SALE – TERMS & CONDITIONS

Equipment Development Company, Inc. herein referred to as EDCO (Seller) warrants that each new unit manufactured by EDCO to be free from defects in material and workmanship in normal use and service for a period of (1) one year (except for the cutter drum assembly on all model concrete/asphalt planes, in which case the warranty period shall be 90 days) from date of shipment to the original retail or equipment rental center owner.

Accessories or equipment furnished and installed on the product by EDCO but manufactured by others, including, but not limited to engines, motors, electrical components, transmissions etc., shall carry the accessory manufacturers own warranty.

EDCO will, at its option, repair or replace, at the EDCO factory or at a point designated by EDCO, any part which shall appear to the satisfaction of EDCO inspection to have been defective in material or workmanship.

EDCO reserves the right to modify, alter and improve any part or parts without incurring any obligation to replace any part or parts previously sold without such modified, altered or improved part or parts.

This warranty is in lieu of and excludes all other warranties, expressed, implied, statutory, or otherwise created under applicable law including, but not limited to the warranty of merchantability and the warranty of fitness for a particular purpose in no event shall seller or the manufacturer of the product be liable for special, incidental, or consequential damages, including loss of profits, whether or not caused by or resulting from the negligence of seller and/or the manufacturer of the product unless specifically provided herein. In addition, this warranty shall not apply to any products or portions thereof which have been subjected to abuse, misuse, improper installation, maintenance, or operation, electrical failure or abnormal conditions and to products which have been tampered with, altered, modified, repaired, reworked by anyone not approved by seller or used in any manner inconsistent with the provisions of the above or any instructions or specifications provided with or for the product

FORCE MAJEURE

Seller's obligation hereunder are subject to, and Seller shall not be held responsible for, any delay or failure to make delivery of all or any part of the Product due to labor difficulties, fires, casualties, accidents, acts of the elements, acts of God, transportation difficulties, delays by a common carrier, inability to obtain Product, materials or components or qualified labor sufficient to timely perform part of or all of the obligations contained in these terms and conditions, governmental regulations or actions, strikes, damage to or destruction in whole or part of manufacturing plant, riots, terrorist attacks or incidents, civil commotions, warlike conditions, flood, tidal waves, typhoon, hurricane, earthquake, lightning, explosion or any other causes, contingencies or circumstances within or without the United States not subject to the Seller's control which prevent or hinder the manufacture or delivery of the Products or make the fulfillment of these terms and conditions impracticable. In the event of the occurrence of any of the foregoing, at the option of Seller, Seller shall be excused from the performance under these Terms and Conditions, or the performance of the Seller shall be correspondingly extended.

This document sets forth the terms and conditions pursuant to which the purchaser ("Purchaser") will purchase and Equipment Development Co. Inc. ("Seller") will sell the products, accessories, attachments (collectively the Products) ordered by the Purchaser. These terms and conditions shall govern and apply to the sale of Seller's Products to Purchaser, regardless of any terms and conditions appearing on any purchase order or other forms submitted by Purchaser to Seller, or the inconsistency of any terms therein and herein.

1. PRICE

All prices set forth on any purchase order or other document are F.O.B. Sellers facility or distribution point, as may be determined by Seller (F.O.B. Point). All prices are exclusive of any and all taxes, including, but not limited to, excise, sales, use, property or transportation taxes related to the sale or use of the Products, now or hereafter imposed, together with all penalties and expenses. Purchaser shall be responsible for collecting and/or paying any and all such taxes, whether or not they are stated in any invoice for the Products. Unless otherwise specified herein, all prices are exclusive of inland transportation, freight, insurance and other costs and expenses relating to the shipment of the Products from the F.O.B. point to Purchaser's facility. Any prepayment by Seller of freight insurance and other costs shall be for the account of Purchaser and shall be repaid to Seller.

2. PAYMENT TERMS

Payment terms are as follows. 2% 10 days (to approved and qualified accounts). Net 30 days. This is a cash discount for invoices paid within 10 days after the invoice date, regardless of date of receipt of shipment. This is not a trade discount and will not be granted to accounts that do not adhere to stated terms.

*All past due accounts are subject to a late payment fee of 1.5% per month or a maximum allowed by law if different, along with the expenses incidental to collection including reasonable attorney's fees and costs.

*Seller reserves the right to hold shipments against past due accounts.

*Seller reserves the right to alter payment terms.

3. FREIGHT TERMS

All shipments will be made F.O.B. shipping point as designated in these Terms and Conditions, and title shall pass at the F.O.B. point. Delivery to the initial common carrier shall constitute delivery to the Purchaser. Any claims for loss or damage during shipment are to be filed with carrier by the Purchaser. Seller will not assume responsibility for the performance of the carrier.

Back orders will be shipped in the most practical fashion with charges consistent with our freight policy established with the original order. UPS, FED EX, MAIL or shipments by other couriers are subject to the same terms and conditions as outlined in paragraph #3 "Freight Terms".

4. DELIVERY, DAMAGES, SHORTAGES

Seller shall use reasonable efforts to attempt to cause the Products to be delivered as provided for in these Terms & Conditions. Delivery to the initial common carrier shall constitute the delivery to the Purchaser. Seller's responsibility, in so far as transportation risks are concerned ceases upon the delivery of the Products in good condition to such carrier at the F.O.B. point and all the Products shall be shipped at the Purchaser's risk. Seller shall not be responsible or liable for any loss of income and/or profits, or incidental, special, consequential damages resulting from Seller's delayed performance in shipment and delivery.

5. RETURN OF DEFECTIVE PRODUCTS

Defective or failed material shall be held at the Purchaser's premises until authorization has been granted by Seller to return or dispose of Products. Products that are to be returned for final inspection must be returned Freight Prepaid in the most economical way. Credit will be issued for material found to be defective upon Seller's inspection based on prices at time of purchase.

6. PRODUCTS ORDERED IN ERROR

Products may be returned, provided that claim is made and Seller is notified within 7 days of receipt of Products, and the Products are in original buyer's possession not more than 30 days prior to return, subject to Seller's approval. If Products are accepted for return, they must be Freight Prepaid and buyer will be charged a minimum of 15% restocking charge, plus a charge back for outbound freight charges if the original order was shipped prepaid. Returns are not accepted for any Products that are specifically manufactured to meet the buyer's requirement of either specifications or quantity.

AGREEMENTS

These Terms and Conditions constitute the entire agreement between Seller and Purchaser as it relates to terms and conditions of sale, and supersedes any and all prior oral or written agreements, correspondence, quotations or understandings heretofore in force between the parties relating to the subject matter hereof. There are no agreements between Seller and Purchaser with respect to the Product herein except those specifically set forth in and made part of these terms and conditions. Any additional terms, conditions and/or prices are rejected by Seller.

These terms and conditions may be modified, cancelled or rescinded only by a written agreement of both parties executed by their duly authorized agents.

USE ONLY GENUINE EDCO PARTS & ACCESSORIES
For your own safety, the safety of others and the life of your machine.



**SURFACE PREPARATION, RESTORATION, PROFESSIONAL
SAWING EQUIPMENT & HAND HELD TOOLS**

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Patents Pending & Issued



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