

TCG 500 FLOOR GRINDER

OPERATION AND MAINTENANCE MANUAL



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INTRODUCTION

Your new Trelawny SPT power tool will more than satisfy your expectations. It has been manufactured under stringent Trelawny SPT Quality Standards to meet superior performance criteria. You will find your new tool easy and safe to operate, and, with proper care, it will give you many years of dependable service.



WARNING

Carefully read through these original instructions before using your new TRELAWNY power tool. Take special care to read the warnings. Your TRELAWNY power tool has many features that will make your job faster and easier. Safety, performance, and dependability have been given top priority in the development of this tool, making it easy to maintain and operate.



ENVIRONMENTAL PROTECTION

The machine, accessories and packaging should be sorted for environmentally friendly recycling. The plastic components are labelled for categorised recycling.



DISPOSAL

Waste products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

DECLARATION OF CONFORMITY

<p>CZ Prohlášení o přizpůsobení My, společnost Trelawny SPT Limited podávame daňové priznání. Že výrobek a dodávka výrobku název výrobku Model, výrobní číslo Rok výroby Pro které se průkaz týkající, je přizpůsobení s zásobou od následující příkazov a jejich pohotovosti: 98/37/EC Příkaz soustrojí 73/23/EC Příkaz nízkého napětí (upotřebitelné jediné do výrobku použití elektrické energie)</p>	<p>LT ATITIKTIES DEKLARACIJA Mes, Trelawny SPT Limite Prisišdami visiš atsakomybę deklaruojuame, kad tiekiamas / gaminamas produktas Produkto pavadinimas Modelis, serijos numeris Pagaminimo Kuriam taikoma ši deklaracija, atitinka šių direktyvų, norminių aktų ir su jais susijusių standartų reikalavimus: 98/37/EC Įrangos direktyva 73/23/EC Žemos įtampos direktyva (taikoma tik elektriniams įrenginiams)</p>
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FOREWORD

Thank you for your purchase of the TRELAWNY Professional use TCG500 Floor Grinder.

This manual contains the necessary maintenance information for you to ensure proper operation and care for this machine.

See also the manual that is supplied by the engine manufacturer.

MAIN PARTS DIAGRAM

The following image of a typical electrical version TCG500, the image and operation are suitable to all 110V, 230V 415V variants.

The TCG500 comprises of a fabricated steel chassis to which all other components are mounted. Several different power units are available including electric, petrol and pneumatic options.

The power unit drives the heavy-duty cutter drum via a pulley and belt enclosed within the belt guard.

The handlebar can be adjusted to suit the operator. For electric models power is connected via a chassis mounted socket and supplied commando (IEC number) plug.

Deadman's handle and switch must be held to allow the machine to start. The machine is started via the starter switch box. A spring-loaded 'jacking stand' is built into the machine for the purposes of taking the head out of contact with the working surface to start, or store the machine.

A separate industrial dust collector should be connected to the vacuum port.

The chassis features an integrated counterweight to ensure the machine remains controllable while in operation.

It is essential for you to read through these manuals thoroughly.

In the unlikely event that you experience problems with your TCG500, please do not hesitate to contact your local Trelawny dealer or agent. We always welcome feedback and comments from our valued customers.



GENERAL INFORMATION

Before operating, performing maintenance or repairing the TCG500 Floor Grinder this manual must be read and fully understood by the operator, if in any doubt, ask your supervisor before using this equipment. Local safety regulations must be followed at all times.

Failure to follow these instructions could result in damage to the TCG500 and/or personal injury. Trelawny SPT Limited disclaims all responsibility for damage to persons or objects arising as a consequence of incorrect handling of the machine, failure to inspect the machine for damage or other faults that may influence the operation prior to starting work, or failure to follow the safety regulations listed or applicable to the job site.

This machine is primarily designed for the smoothing of concrete, marble and terrazzo surfaces. It can be used both indoors and out.

Electric models are recommended for indoor use because of the toxic exhaust gases that are produced by petrol engines.



WARNING! Before operating, performing maintenance or repairing the TCG500 this manual must be read and understood. If in any doubt, ask your supervisor before using this equipment.

TECHNICAL SPECIFICATIONS

Height	914 mm	36"
Width	660 mm	26"
Length	1220 mm	48"
Cutting width	590 mm	0.040 inch
Average depth of cut (dependent on concrete)	1 mm	230v 110v
Disc rpm approximately	Approximately 360 rpm	
Working distance from wall	48 mm	2.0"
Additional weight blocks	17.5 kg each	38.5 lbs each
Light Duty Power units		
Electric Motors-Dual voltage	3.0HP 230/110v 50/60hz	2.2 kw (15.5amp / 20.0amp)
	7.5HP 400v 50/60hz	5.5kw (10.8amp)
Electric Motor Weight	114kg	251lbs
Honda engine		
	5.5 hp	4.1 kilowatt
Approximate Fuel Consumption (230PSH)	1.6 litres per hour	0.35 gall per hour
Weight	114kg	251lbs
Heavy Duty Power unit		
	11 hp Honda	6.4 kilowatt
Approximate Fuel Consumption (250PSH)	3.5 litres per hour	0.77 gall per hour
Weight (including two weights)	179kg	395lbs
No weights are normally fitted on electric versions, apart from 400v 5.5kw 7.5hp machine which can have a maximum of one 17.5kg weight fitted. Maximum of two weights on 5.5hp Honda engine versions, (optional extra). Maximum of three weights on 11hp Honda engine versions (two supplied).		
Electric Motors		
Noise LwA SWL	93.5dB (A)	
Declared Noise emissions in accordance with EN ISO 15744: 2008		
Honda 5.5HP Engine		
Noise LwA SWL	EN ISO 28927:2012 & EN ISO 20643:2005 97.9dB (A)	
Honda 11HP Engine		
Noise LwA SWL	94.2dB (A)	
Vibration (AEO) at the Handle Bar (Electric Models)		
(Petrol Models)	a=1.6 m/s ² (K= 0.88m/s ²) a=2.09 m/s ² (K= 0.33m/s ²)	
Noise level measured in accordance with	EN ISO 15744: 2008	
Vibration measured in accordance with	BS EN ISO 5349-1: 2001 BS EN ISO 5349-2: 2002	

Machinery Directive Information

This tool has been designed and produced in accordance with the following directives:
2006/42/EC Machinery Directive

If your company has any problem with our products or would like to discuss the possibility of an improvement being made to them, then please do not hesitate to contact us. Your comments are both important and appreciated.

SAFETY

Wear safety boots, face mask, shatterproof glasses, helmet, gloves and any other personal protective equipment required for the working conditions. Avoid loose clothing; this may become trapped in moving parts and cause serious injury. To avoid nuisance dust, connect an industrial vacuum cleaner (minimum 3000watts or equivalent) to the 50mm (2") vacuum port situated at the rear of the machine.

Ensure that the workplace is well ventilated. Avoid operating engine-powered machines in an enclosed area, since engine exhaust gases are poisonous.

Be very careful with hot components. The exhaust and other parts of the engine are hot during operation and can remain hot for some time after shutdown.

Do not refuel the engine while the engine is hot or running, there is a very real danger from explosion – always refuel when the engine is cold, and in the open air. During transportation fasten fuel cap tightly and close fuel tap.

Do not operate electric versions in wet conditions. Caution this machine is heavy. It weighs between (92kg/202lbs) and (144kg /317 lbs) dependent on power unit. Do not lift this machine manually.



WARNING! Always observe safe-working practices at all times.

ORGANISATIONAL MEASURES

This operating manual must always be at hand at the place of use of the machine and must be accessible to the person operating the machine. It is recommended that only persons that have received appropriate training or read this manual should operate equipment.

In addition to this operating manual, all other generally applicable legal and other mandatory regulations relevant to accident prevention and environmental protection must be observed. Such obligations may also comprise the handling of hazardous materials, provisioning and/or wearing of personal protective equipment, or road traffic regulations. This operating manual must be supplemented by instructions covering the duties involved in supervising and notifying special organizational features, such as job organization, work flows or the persons entrusted with the work. Persons entrusted with work on the machine must have read the operating manual prior to taking up work. This applies especially to persons working only occasionally on the machine, e.g. during set-up or maintenance activities.

Check - at least from time to time - whether the personnel is carrying out the work in compliance with the operating manual and paying attention to risks and safety-relevant factors. For reasons of safety, long hair must be tied back or otherwise secured, garments must be close-fitting and no jewellery - including rings - may be worn.

Severe injury may result from being caught by moving parts of the machine. Personal protective equipment must be used wherever required by the identified by the work risk assessment or by law (e.g. safety glasses, ear protectors, safety boots, suitable safety clothing). Observe the regulations for prevention of accidents. Observe all safety precautions and warnings attached to the machine and always keep them in good and perfectly legible condition.

The personal protection equipment should consist of the following parts:

- 1) Hard hat with ear muff
- 2) Visor or safety glasses
- 3) Dust mask
- 4) Protective gloves
- 5) Safety clothes
- 6) Safety boots

In the event of safety-relevant modifications or changes in the behaviour of the machine, stop the machine immediately and report the malfunction to the competent authority/ person. Do not remove or make inoperative any safety devices the machine is equipped with.

Never make any modifications, additions or conversions which might affect safety. This also applies to the installation and adjustment of safety devices as well as to welding and cutting work on supporting structures.

Damaged or worn parts of the product must be replaced immediately. Use genuine Golz spare parts only. All spare parts and tools must comply with the technical requirements specified by the manufacturer/distributor. Adhere to the legally prescribed preventive maintenance and inspection intervals or those specified in this operating manual.

All maintenance and repair activities must be performed by qualified personnel using suitable tools and other suitable workshop equipment. Observe the fire alarm and fire fighting measures. The personnel must be made familiar with the location and handling of fire extinguishers.



Wear Safety Glasses



Wear Hard Hat



Wear Safety Boots



Wear Protective Gloves



Wear Safety Clothes



Wear Dust Protection



Wear Ear Protection



Read Ops Manual

RISK OF HAND-ARM VIBRATION INJURY

These tools may cause Hand-arm Vibration Syndrome injury if their use is not adequately managed. We advise you to carry out a risk assessment and to implement measures such as; limiting exposure time [i.e. actual trigger time, not total time at work], job rotation, ensuring the tools are used correctly, ensuring the tools are maintained according to our recommendations, and ensuring that the operators wear personal protective equipment [PPE] particularly gloves and clothing to keep them warm. Employers should consider setting up a programme of health surveillance to establish a benchmark for each operator and to detect any early symptoms of vibration injury.

We are not aware of any PPE that provides protection against vibration injury by attenuating vibration emissions. See 'Specifications' section for vibration emission data. Further advice is available from our Technical Department.

We strongly advise you to visit the Health & Safety Executive website <http://www.hse.gov.uk/vibration>
This site provides excellent advice and information on HAV and currently, includes a Hand-arm Vibration Exposure Calculator that is easy to use to work out the daily vibration exposure for each of your operators.

MEDIA TYPES AND APPLICATIONS

Trelawny Grinders are supplied with either a single grinding disc incorporating 20 "segments" or the versatile grinding "quick change" grinding blocks. Use of either from coarse through to Hard will effectively address all hard or soft concrete floor types. For more information contact your Trelawny agent or Trelawny direct.

Grinding blocks

All can be used wet or dry.

Coarse grinding blocks

These are fitted as standard on machines fitted with the grinding block option. These are designed for the rapid removal of material. They produce a surface finish suitable for directly laying floor coverings or for two part epoxy paint coatings and for the first grind of terrazzo floor surfaces.

Medium grinding blocks

These are less aggressive than the coarse blocks, they should provide a surface finish suitable for painting or used as the next stage to the coarse grinding blocks, when achieving a polished surface on terrazzo tiles or other marble type surfaces.

Fine grinding blocks

These are the least aggressive of all the grinding media. These are generally only used for final finishing to provide a surface suitable for final polishing.

In addition, scarifying blocks and wire brushes are available which can be fitted in place of the grinding blocks.

Diamond disc machine

The machine is fitted with a 20 segment diamond disc for medium concrete as standard (see below for specification). There are also 10 segment discs for very aggressive grinding and 16 segment discs for aggressive grinding available. The 20 segment disc are the most economical and least aggressive. All discs can be used wet or dry.

Grinding disc 20 segment (blue)

(soft bonded diamond)

Premium disc.

For medium to hard material, granite, cured concrete or terrazzo.

Grinding disc 20 segment (black)

(medium bonded diamond)

Premium disc.

For medium or general abrasive materials - medium strength concrete or adhesives.

Grinding disc 20 segment (red)

(hard bonded diamond)

Premium disc.

For softer or abrasive materials - green (less than 48hrs old) or medium strength concrete, or adhesives.ves.

PRE-START CHECK

ALL VERSIONS

Check all bolts and screws for tightness. Ensure that all fittings are secure. Check the drive belts for correct tightness. There should normally be approximately 13mm (1/2") of free play when the belt is depressed in the middle position between the two pulleys. To check and set the belt tension, refer to the Belt installation & Adjustment section.

The TCG500 is supplied with a specially commissioned electric motors and starter switch assembly. Each unit is fully tested and the overload relays have been calibrated and set according to the manufacturer's specifications.

In the event of malfunction on a new machine, the owner should first check that the power supply on site is suitable and adequate.

All cables should be fully uncoiled and never left wrapped around cable reels or tied in loops. The starter box is fitted with a safety feature to protect the motor and relays from damage. Should an overload condition occur which triggers the thermal overload within the starter, rotate the isolator switch to the "OFF" position.

Note that the circuitry may have to cool down for a period before the overload switch can reset itself upon depressing the stop button.

The starter boxes are preset and under no circumstances should they be tampered with, stripped down or adjusted, otherwise it will invalidate the warranty.

110v Motor

The motor requires the minimum of a 32amp, 110v power supply. Always use the shortest possible length of extension cable. The 110v machine requires the use of 4mm² extension cable up to a maximum of 20 metres, as it draws a significant operating current. The use of 2.5mm² for 110v machines is not recommended and can cause operating problems, particularly in conjunction with poor supplies, where excessive voltage drops will be encountered and damage to the machine may occur. Use a centre tap transformer with a continuous rated output of at least 3.0KVA. In practice this means that a 5.0KVA transformer must be used. Manufacturers have different methods of rating their equipment. All transformers and cables should be fitted with 32amp plugs and sockets. The 230v supply to the 110v transformers ideally should be rated to at least 20amp if supply problems are to be avoided.

230v and 415v Motors

Take particular care when using 230v or 415v machines, ensure that the electrical supply is earthed and that breakers and fuses are correct for the loading. The 230v motor requires the minimum of a 13amp, 220v power supply. The 415v motor requires the minimum of a 10amp, 380v power supply. Always use the shortest possible length of extension cable. To avoid voltage drop the cable must have a minimum core wire size of 2.5mm² cross-section area. Maximum length of cable 50 meters.



CAUTION! Beware of poisonous fumes coming from engine versions. Start and operate only in well-ventilated areas.

STARTING

Machines fitted with electric motors

Inspect the supply cable; Check that no damage has been caused to the outer casing and that there are no exposed or loose wires. Obtain the assistance of an electrician if a fault is found. Do not use the machine until it has been rectified. Check that the cable is not running across sharp or jagged edges and that it is not in contact with any liquid.

It is recommended that the 'jacking stand' is employed to start the machine. To engage the stand, tilt the machine to lift the grinding head(s) and, whilst tilted, depress the foot pedal (at the rear of the machine, between the wheels), keeping it depressed whilst lowering the machine back towards its normal working position. This action will result in the front of the machine appearing slightly raised. To disengage the stand ready for use, tilt the machine rearwards slightly and the stand will be heard to retract. The grinding head(s) will now be engaged with the working surface.

Turn red isolator knob to the "ON" position. The machine is now energised. To start the machine, depress button ("Deadman's handle") and keep depressed. As soon as the button is released, the machine will stop.



IMPORTANT! 415v 3 phase versions only: Ensure the supply cable is of a 5 core construction and that all contacts within the plug and socket are wired in accordance with regulations. The control electronics require the neutral circuit to be functional. If 4 core cable is used, where no functioning neutral is present, the machine will not start or run.



ENGINE VERSIONS CAUTION
Beware of **POISONOUS FUMES**. Start and operate only in well-ventilated areas.



BE CAREFUL WITH HOT COMPONENTS! The exhaust and other engine parts are hot during and for some time after operation. Do not touch them.

STARTING

Machines fitted with petrol engines

Check that there is sufficient fuel in the fuel tank. (See manufacturer's hand book for type.) Check that the engine oil level is correct. (See pre-start check.) Ensure that the machine is started on a level surface. Open the engine fuel tap. For cold engine starting, the 5.5hp engines have an automatic choke, apply full throttle to operate. Set the start switch to the "on" position on Honda supplied engines.

To engage the stand, tilt the machine to lift the grinding head(s) and, whilst tilted, depress the foot pedal (at the rear of the machine, between the wheels), keeping it depressed whilst lowering the machine back towards its normal working position. This action will result in the front of the machine appearing slightly raised. To disengage the stand ready for use, tilt the machine rearwards slightly and the stand will be heard to retract. The grinding head(s) will now be engaged with the working surface.

Check that the machine has been raised on its stand. Pull the 'hold to run' lever against the handle bar. Pull the recoil starter cord handle. After the engine starts, move the throttle lever towards the idle/tick-over position until the engine runs smoothly.

After a minute or two reduce to a quarter open throttle setting and warm up the engine for a further 2-3 minutes before setting to tick over. The warm up procedure is particularly important during cold weather.



IMPORTANT! Do not pull the recoil starter cord to the end of its travel as it may cause damage to the engine or injury to the operator. When the engine starts, recoil the cord slowly. Do not allow the cord to snap back to its start position.

MACHINE OPERATION AND DUST SUPPRESSION

(Please refer to manual handling recommendations when lifting.) Connect a suitable commercial vacuum which has been designed for the collection of concrete dust and possibly toxic paint particles, or for use in the pharmaceutical or food industries. Trelawny can supply special HEPA filtered vacuums which are suitable for these applications. Or if suitable for the area being worked, connect a water hose to the supplied connection at the rear of the machine.

On engine-powered machines, once the engine has reached operating temperature and you are ready to start work, set the throttle lever to the full throttle position, pull back on the handle bars to retract the machines stand and slowly lower the disc to the surface. The machine may oscillate slightly during use, which is normal. Move the machine slowly backwards and forwards, slightly swinging the grinding head right and left; this will ensure that a uniform finish is achieved.

Complete a small area noting the performance; on engine versions reduce the throttle to tick over and release the 'hold to run' lever. Then on both engine and electric motor versions release the 'hold to run' lever to stop the machine, inspect the finish produced. If necessary change the grade of grinding blocks or diamond discs and recheck performance and surface finish.



EMERGENCY SHUTDOWN: Release the "hold to run lever" on the handle bar and/or switch off the ignition switch on Honda engine versions.

SHUT DOWN

On electric-powered machines, simply release the "deadman's handle" button. On engine-powered machines, move the engine's throttle lever to the slow speed position. (This avoids the engine becoming washed internally by neat fuel if switched off from high engine revolutions.) Release the 'hold to run' lever and on Honda engines, switch off the engine's start switch.

On both electric and engine-powered machines, use the stand (operation of which is described on page 10, Starting) to raise the disc off the ground to prevent any built up heat deforming the rubber coupling if it is left under load whilst hot and stationary. The machine can be stored whilst on its stand.

After the engine or motor has completely cooled, clean off any concrete dust from external components and remove any heavy build up of concrete dust from inside the front dust skirt, (see start of "Grinding Block Replacement" section for safe method of gaining access to inside of front dust skirt). Take care when using hoses or pressure washers and clean within the dust skirt area only.

Do not to allow water to be directed at or splashed onto the engine, electric motor or any electrical components. Once clean and dry, cover the machine to protect it and store the grinder in a dry place.



IMPORTANT! Close the engine fuel tap

MACHINE STORAGE

Long period storage: over 3 months

Clean outside of machine, inspect the grinding blocks for wear; replace any worn parts as required.

Remove any build up of material from inside of grinding disc area following step in start of "Grinding Block Replacement" Section. Cover the machine to protect it. Store the machine in a dry place. Be sure to check security of wooden wedges after any lay up period.

OPERATING RANGE

This machine is specifically produced for use on concrete and steel floors. Do not modify, add components to or retrofit the unit in a way which could affect its safety and do not use non-official accessories. This is not allowed. A full range of genuine parts are available to purchase. Do not use machine in water.

MAINTENANCE

Belt Installation & Adjustment

Removal

If fitted, remove all of the weights from the front of the machine.

Take care when removing the weights they weigh approximately 18kg each.

(Please refer to manual handling recommendations when lifting.)

Remove the top cover by unscrewing the two 10mm wing bolts either side of the chassis.

Loosen the engine/motor mounting plate bolts to allow the engine to move along the chassis engine/motor mounting bolt slots. Slide both the V-belts off the gearbox drive pulley and then remove them from the engine/motor pulley.

Installation

Slide both the new belts onto the engine/motor pulley first, locating them in the grooves. Then slide the lower belt over the gearbox drive pulley and into the lower groove on the pulley, followed by the upper belt into the upper groove. Adjust the

engine/motor position using the adjusting bolt and then tighten the engine/motor mounting plate bolts, ensure the belt tension is correct. **(Do not over tighten.)**

Tighten all engine bolts, refit the top cover and tighten the wing bolts and replace the weights as required.

Lubrication

Remove the blanking plug (31), covering the inspection hole on top of the gearbox. Using an implement, apply a liberal amount of a copper based high melting point grease to the teeth on the visible large gears.

Using a grease gun, apply a high melting point bearing grease to the grease nipples situated on the six bearing housings on the gearbox. Lubricate once every three months.



IMPORTANT! Normal slack should be approximately 13mm (1/2") when the belts are depressed in the middle position between the engine pulley and driveshaft pulley.

MAINTENANCE

Grinding Block Replacement

Switch off the engine powered versions and allow the engine to cool completely, disconnect electric motor powered versions from its power supply.

Place the machine on a flat and level surface.

Remove all weights, if fitted, from the front of the machine.

Raise the front skirt by loosening the two 10mm guard retaining wing bolts on either side of the machine and also the 8mm hexagon headed bolt at the front of the machine, slide the guard up to the top of the slots and tighten the bolts temporarily.

Tilt the machine backwards to rest on its handle bar.

On 11 hp engine powered machines, place one of the supplied weights onto the two locating pins on the arms of the handle.

On electric and 5.5hp powered machines, place a heavy object (10kg sand bag, etc.) across the upper part of the handle bar or rope down for additional security.

Take note how the grinding blocks and wedges have been assembled, using a suitable wooden drift, knock out the grinding block, not the wooden wedge.

Dispose of the used grinding blocks according to local legislation.

Fit each new grinding block squarely into the grinding plate location corner at the outer flat face of the grinding disc.

Secure with a new wooden wedge, between the block and the inner face of the grinding block, knock the wedge into position using a suitable drift.

Note:

Do not use a mix of old and new grinding blocks, this will cause rapid wear of the new blocks and could cause the machine to become uncontrollable, unstable and dangerous in use.

Re-adjust the lower guard and tighten the fixing bolt and wing bolts.

Fitting Diamond Discs

Switch off engine powered versions and allow the engine to cool completely, disconnect electric motor powered versions from its power supply.

Place the machine on a flat and level surface.

Remove all weights from the front of the machine if fitted.

Tilt the machine backwards to rest on its handle bar.

On engine powered machines, place one of the weights, if fitted, locating the holes in the weight with the two pins on the arms of the handle.

On electric powered machines, place a heavy object (10kg sand bag, etc.) across the upper part of the handle bar or rope down for additional security.

Raise the grinding block guard by loosening the two 10mm guard retaining wing bolts on either side of the machine and also the 8mm bolt at the front of the machine, slide the guard up to the top of the slots and tighten the bolts temporarily.

Remove any build up of material from around the grinding discs retaining nuts and bolts.

Remove all the lock nuts situated at the bottom the grinding discs from the corresponding M10 cap head bolts.

Unscrew all of the M10 bolt from above the grinding disc drive shaft hubs until the grinding disc is released, support the grinding disc as you do so, there is no need to remove the bolts from the flexible coupling.

Store the grinding head assemblies for future use, and check as per 3-month machine storage when refitting.

Offer the Diamond Disc adapter up to the flexible coupling with the recess in the centre of the hub towards the coupling.

Screw in one of the M10 bolts, in to a hole in the Diamond Disc adapter and secure with a Nyloc Nut.

Repeat with the other two bolts.

Fully tighten all the bolts holding the cap head bolt stationary using a suitable Allen key, screw the M10 Nyloc nut onto the bolt and tighten to torque of 55nm (40lbs/ft) against the Diamond Disc adapter.

Repeat with second grinding assembly.

Using a 10mm Allen Key in the centre spigot secure the Diamond Discs to the adapters using the M12 countersunk socket head screws.

Reposition the front dust skirt and retighten the 10mm wing bolts and 8mm hexagon headed bolt.



IMPORTANT! Ensure that the axle is swung into the forward "transport/grinding position."

CHECKING CHART

Based on normal & safe operating procedures and hours

		Before Operation	After Operation	Monthly	Every 3 Months	Every Year	If Damaged/Worn
Complete Machine	Check	X					
	Clean		X				
Pulleys & Belt	Check (Damage & Tension)	X	X				
	Tension			X			
	Replace					X	X
Vacuum Ports & Accesories	Check	X					
	Clean		X				
	Replace					X	X
Dust Seals	Check	X					
	Clean		X				
	Replace				X		X
Grinding Tools & Accesories	Check	X					
	Clean		X				
	Replace						X
Bearings & Seals	Check	X	X				
	Replace					X	X
Height Adjusting Rod & Connections	Check	X					
	Lubricate			X			
	Replace						X
Honda Engine	Check Fuel Level	X					
	Check Oil Level	X					
	Operational Check (No Load)	X					
	Review Manufacturer's Manual			X			
Pneumatic Engine	Check Lubricant Oil Level	X					
	Operational Check (No Load)	X					
	Review Manufacturer's Manual			X			
Electrical Motors	Visual Inspection	X					
	Clean Air Passages		X				
	Operational Check (No Load)	X		X			

TRANSPORT

Use only suitable means of transport and lifting gear of sufficient capacity when loading or transporting the machine. Appoint an experienced instructor for the lifting operation. Always observe the instructions given in the operating manual when lifting the machine.

Use only suitable transport vehicles with sufficient load capacity. Secure the load carefully. Use suitable fastening points for securing. Before loading the machine or parts of it, secure the machine against inadvertent movement. Attach a suitable warning sign. Even in case of a minor change of location, the machine engine must be stopped.

Before using the machine again, make sure that such protection material or devices are properly removed. Parts which had to be removed for transportation of the machine must be refitted and secured carefully before the machine is used again. Before setting the machine in motion always check that all accessories are safely stowed.

The recommissioning procedure must be strictly in accordance with the operating instruction. Observe the instructions given in the operating instruction when reassembling and operating the machine.

The unit is now fitted with suitable lifting points for slinged lift. Please refer to the annotated image on Page 6 for locations on the machine. Only use suitable lifting equipment as described or undertake a full risk assessment before proceeding.

EXPORT CHECKING

Remove the transport packaging and dispose of it in an environmentally responsible way, recycle where possible. Check the machine for completeness and any visual signs of damage, incurred during transit. Report any issues immediately to your supervisor, who should inform Trelawny straight away. Secure the machine against accidental start-up and rolling away.

The machine is supplied with engine oil but without fuel. See our terms and conditions of sale on our website for more information.

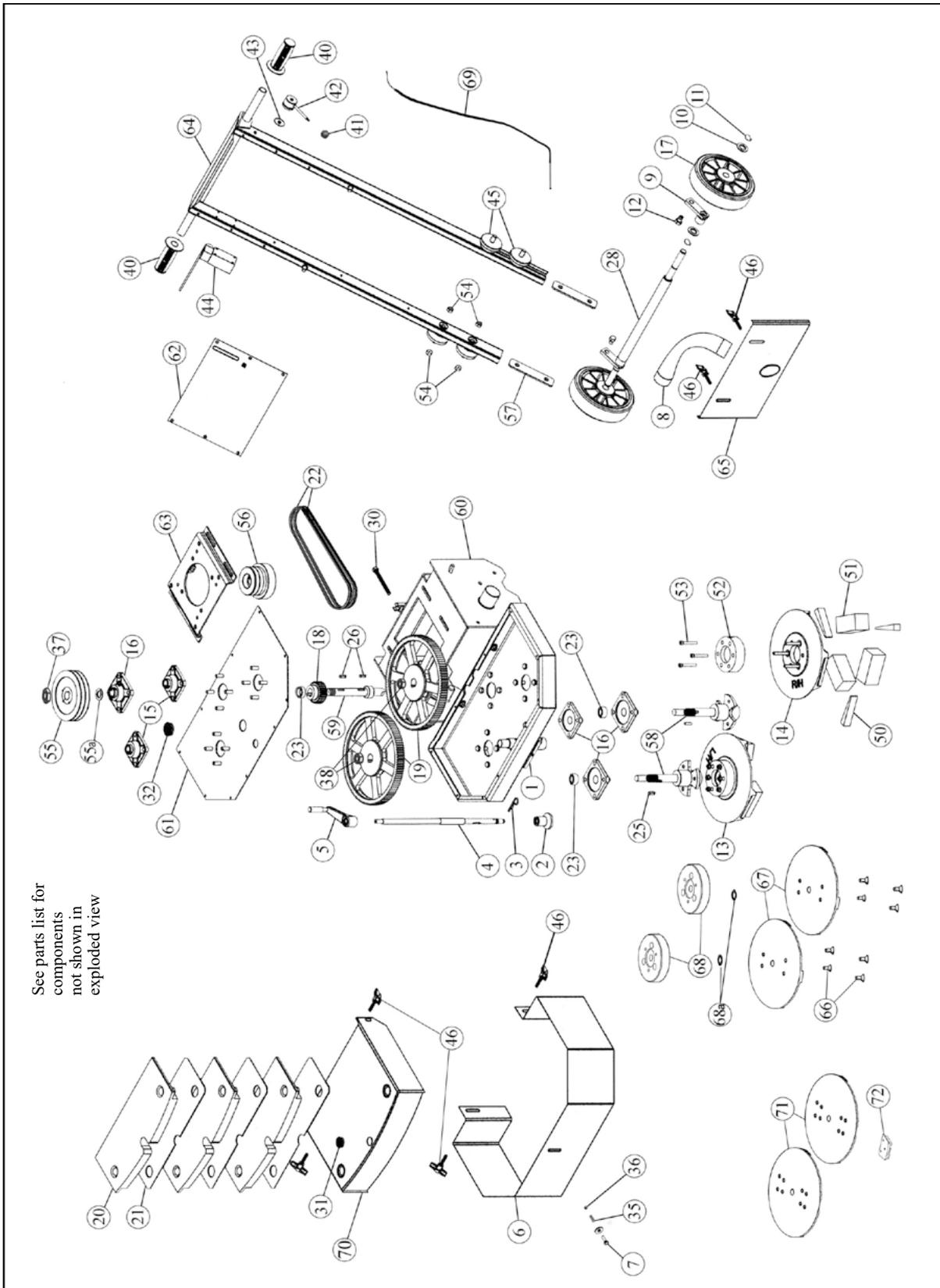
TROUBLESHOOTING

Trouble Shooting	Cause	Action
Engine stops suddenly or does not run correctly	No fuel in the fuel tank.	Refuel fuel tank. (see safety section)
	Spark plug faulty.	Replace spark plug.
	Fuel blockage.	Check fuel line and strainer.
	Air filter partially blocked.	Replace air cleaner element.
	Low oil level. (Engine cut off switch is fitted)	Rectify leaks and replenish oil.
Motor stops suddenly or does not run correctly	Loose wiring, incorrect voltage or blown fuse	Check connections and power supply or replace fuse.
Engine/motor runs but the grinding heads do not move.	Drive belts slack or failed.	Replace belt or adjust tension
	Centrifugal clutch faulty on engine versions.	Replace clutch assembly
	No grinding blocks fitted.	Check grinding discs for any damage, replace if necessary. Fit new grinding blocks
Grinder is slow or erratic	Loose or a failed drive belts.	Adjust drive belt, or replace.
	Surface too rough.	Use Trelawny TFP200/250 Surface Planer to produce a smoother surface or to remove bulk of material prior to grinding. Change grinding blocks to a coarser grade.
Engine will not start	No fuel in the fuel tank	Refuel fuel tank, see safety precautions.
	Low oil level	Rectify oil leaks and replenish oil.
	Water in fuel	Drain fuel tank, float chamber, and refuel.
	Incorrect fuel in tank, i.e. diesel in petrol tank	Clean out fuel tank, all fuel lines and carburettor float chamber. Refuel with correct fuel.
	Spark plug faulty	Replace spark plug.
Motor will not start	Power supply is not switched on, blown fuse, voltage incorrect, loose wiring, or faulty motor.	Confirm that the power supply is switched on. Rectify loose wiring, replace blown fuse or replace motor.
Use above information in conjunction with the Honda Operation and Maintenance Manual.		
If problem has not been cured by any of the above actions, contact your local Trelawny SPT dealership for assistance.		

All rights reserved. Any unauthorised use or copying of the contents or part thereof is prohibited.
This applies to trademarks, model denominations, part numbers and drawings.
Use only genuine Trelawny spares. E & O E

The use of non-Trelawny spare parts invalidates the warranty.

EXPLODED DIAGRAM



PARTS LIST

Item NO.	PART NO.	DESCRIPTION	Item NO.	PART NO.	DESCRIPTION
1	350.7520A	Lift Plate (Petrol Engine only)	45	491.0200	Anti-Vibration Mounting Kit (including nyloc nuts & washers)
	350.9170	Blanking Plate (Electric Motor only)	46	857.1010	Wing Screws M10 x 22
2	350.7530	Lift Foot (Petrol Engine only)	52	350.9146	Flexible Coupling
3	813.1060	R-Clip (Petrol Engine only)	53	806.1060	M10 x 60 Caphead Bolts
4	350.7540	Lift Shaft (Petrol Engine only)	54	834.0500	1/2" UNF Nyloc Nut
5	350.7550	Lift Handle (Petrol Engine only)	55	350.9127	Driven Pulley (Requires 350.9127A also)
6	350.9105	Front Dust Skirt		350.9127A	Driven Pulley Bush
7	831.1030	M8 x 30 Hexagon Bolt	55a	350.9139A	Slotted Spacer
8	719.3250	Vacuum Hose	56	350.9126	Clutch (Petrol engines)
9	350.9111	Axle Mounting Bracket		350.9124	Pulley Taperloc (Electric Motors only)
10	812.1001	M20 Plain Washer		350.9124A	Bush Taperloc 24mm (Electric Motors only)
11	814.1020	20mm External Circlip	57	350.9165	Handle Clamping Plate
12	350.9113	Axle Mounting Nut	58	350.9119	Driven Shaft (Large Gear)
15	350.9115	20mm Bearing	59	350.9118	Drive Shaft (Small Gear)
16	350.9116	25mm Bearing	60	350.2010	Chassis & Gearbox Assembly
17	350.9121	Wheel	61	350.9102L	Top Plate
18	350.9128	Drive Gear 25 Teeth (Steel)	62	993.0004	Electric Starter Box Mounting Plate
19	350.9129A	Driven Gear 114 Teeth (Cast Iron)	63	350.9100M	Engine/Motor Mounting Plate 5.5HP, 110V & 230V
21	350.9136	Rubber Pad (Petrol Engine only)		350.9100N	Engine Mounting Plate (11HP Engine Only)
22	350.9137	Drive Belt 5.5hp Engine & all electric motors		350.9100P	Engine/Motor Mounting Plate 400V Only
	350.9138	Drive Belt 11hp only	64	993.0001	Handle Assembly
23	350.9139	Drive Shafts & Input Shaft Spacer	65	350.9109	Vacuum Take-off
25	350.9150	Driven Shaft Key	66	350.9141	M12 x 25 Countersunk Socket Screw
26	320.9131	Drive Shaft Key	67	350.5610R	Diamond Disc (10 segment concrete)
28	350.9110	Axle Shaft		350.5610RA	Diamond Disc (10 segment asphalt)
30	350.9155	Engine Adjuster Bolt		350.5620R	Diamond Disc (20 segment concrete)
31	841.4070	30mm Top Cover Blanking Plug		350.5620RA	Diamond Disc (20 segment asphalt)
32	841.4080	Inspection hole & vacuum takeoff blanking Plug		350.5610B	Diamond Disc (10 segment universal)
35	712.3022	Return Spring (Petrol Engine only)		350.5620B	Diamond Disc (20 segment universal) - fitted as standard
36	816.3250	6mm Ball Bearing (Petrol Engine only)		350.9142	Diamond Disc Adapter Kit
37	824.0024	Thin Nut M24 x 2.0 (Drive Shaft - Small Gear)	68	350.9143	Diamond Disc Adapter (includes 68a)
38	824.2400	Nyloc Nut M24 2.0 (Driven Shaft - Large Gear)	68a	809.3005	O'Ring x 2
40	822.2000	Rubber Grip	69	350.9175	Throttle Cable complete (Petrol Only)
41	350.9186	Knob (Petrol Engine only)	70	350.9130	Top Cover
42	350.9180	Throttle Lever (Petrol Engine only)	71	350.5660	Six Segment Quick Release Plate (2 x required)
43	350.9182	Friction Washer (Petrol Engine only)	72	See Page 22	Quick Fit Tooling (12 x required - half the amount can be fitted for an aggressive production rate, but a higher wear rate.)

110v control system	part no: 861.2005
230v control system	part no: 861.2007
415v control system	part no: 861.2009
Button assy	Part no: 861.2018

These are not user-serviceable parts. In the event of failure, new assemblies will be need to be obtained from Trelawny.

5.5HP N1 Shaft Engine spares after 2014 (Not shown)

ITEM NO.	PART NO.	DESCRIPTION
N/A	345.9500	Honda 5.5hp Petrol Engine (N1 Double woodruff keyway)
N/A	350.9126A	Clutch Assembly
N/A	350.9190	Clutch Retaining Washer
N/A	345.9150	Woodruff Key
N/A	812.1030	M3 Washer (Throttle Cable Retaining)

11Hp Engine spares (Not Shown)

ITEM NO.	PART NO.	DESCRIPTION
N/A	350.9520	Honda 11 hp Petrol Engine GXV 340 K1
N/A	350.9178	Throttle Cable Spring Mounting Bracket
N/A	350.7010	Cable Return Spring
N/A	350.6015	1/4" x 58mm Key
N/A	832.1050	Split Pin Throttle Cable Retaining
N/A	812.1030	M3 Washer (Throttle Cable Retaining)
N/A	350.6003	Engine Pulley Bolt 11hp Honda
N/A	350.6004	Engine Pulley Bolt Spacer 11hp Honda

110/220v Duel voltage Electric Motor spares (Not Shown)

ITEM NO.	PART NO.	DESCRIPTION
N/A	350.9570	110/220v Electric Motor
N/A	861.2003	110v Starter Box Assembly
N/A	861.2005	220v Starter Box Assembly
N/A	350.9123	Drive Pulley Retaining Washer
N/A	350.6011	Electric Motor Pulley Spacer

415v 3ph Electric Motor (Not Shown)

ITEM NO.	PART NO.	DESCRIPTION
N/A	350.9575	415v 50/60hz 5.5kw 7hp flange motor
N/A	861.2009	415V Starter Box Assembly
N/A	350.6012	Electric Motor Pulley Spacer

Lafert Motor Components (see exploded view page 15)

ITEM NO.	PART NO.	DESCRIPTION
14	841.2650	Icar or Ducati start capacitor (Black)
14	841.2660	Facon or Ducati run capacitor (White)
5	841.2670	SE01 Electronic starter switch
24	841.2680	Fan
22	841.2690	Fan Cover
9/11	841.2694	Terminal box and lid

Others not show in exploded view

ITEM NO.	PART NO.	DESCRIPTION
N/A	831.4120	Eye Bolt

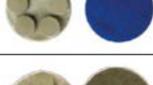
MEDIA TYPES - METAL BOND TOOLS

IMAGE	PART NO.	DESCRIPTION
	365.5495L	PCD Removal Diamond Anti-clockwise For removal of coatings, adhesives & toppings
	365.5495R	PCD Removal Diamond Clockwise For removal of coatings, adhesives & toppings
	365.5500	16 Grit Single (Quick Release) Soft Bond For very course grinding and thin coating removal
	365.5500/2	16 Grit Double (Quick Release) Soft Bond For very course grinding and thin coating removal
	365.5501	30 Grit Single (Quick Release) Soft Bond For Hard Concrete
	365.5502	30 Grit Single (Quick Release) Medium Bond For Medium Hardness concrete
	365.5503	30 Grit Single (Quick Release) Hard Bond For Soft Concrete or for very rough concrete
	365.5501/2	30 Grit Double (Quick Release) Soft Bond For Hard Concrete
	365.5502/2	30 Grit Double (Quick Release) Medium Bond For Medium Hardness concrete
	365.5503/2	30 Grit Double (Quick Release) Hard Bond For Soft Concrete or for very rough concrete
	365.5504/2	70 Grit Double (Quick Release) Medium Bond For Light Grinding and Scratch Removal
	365.5506/2	120 Grit Double (Quick Release) Medium Bond For Light Grinding and Scratch Removal

Guidance Notes

1. Only use parts with equal levels of wear. Mixing new and old blocks will cause floor damage and or rapid wear on the new blocks.
2. If the result of the grinding causes uneven floor wear or rapid block wear check the hardness / coarseness of the blocks v's target floor surface.
3. Keep the machine moving at all times during operation for the best results.

MEDIA TYPES - RESIN BOND TOOLS

IMAGE	PART NO.	DESCRIPTION
	365.5605	50 Grit Hybrid
	365.5610	100 Grit Hybrid
	365.5620	200 Grit Hybrid
	365.5602A	200 Grit Resin Bond
	365.5604A	400 Grit Resin Bond
	365.5608A	800 Grit Resin Bond
	365.5618A	1500 Grit Resin Bond
	365.5635A	3000 Grit Resin Bond
	350.5666	Polishing Adapter Plate Used to attach the "Polishing Tools" to the quick release plate

Guidance Notes

1. Only use parts with equal levels of wear. Mixing new and old blocks will cause floor damage and or rapid wear on the new blocks.
2. If the result of the grinding causes uneven floor wear or rapid block wear check the hardness / coarseness of the blocks v's target floor surface.
3. Keep the machine moving at all times during operation for the best results.

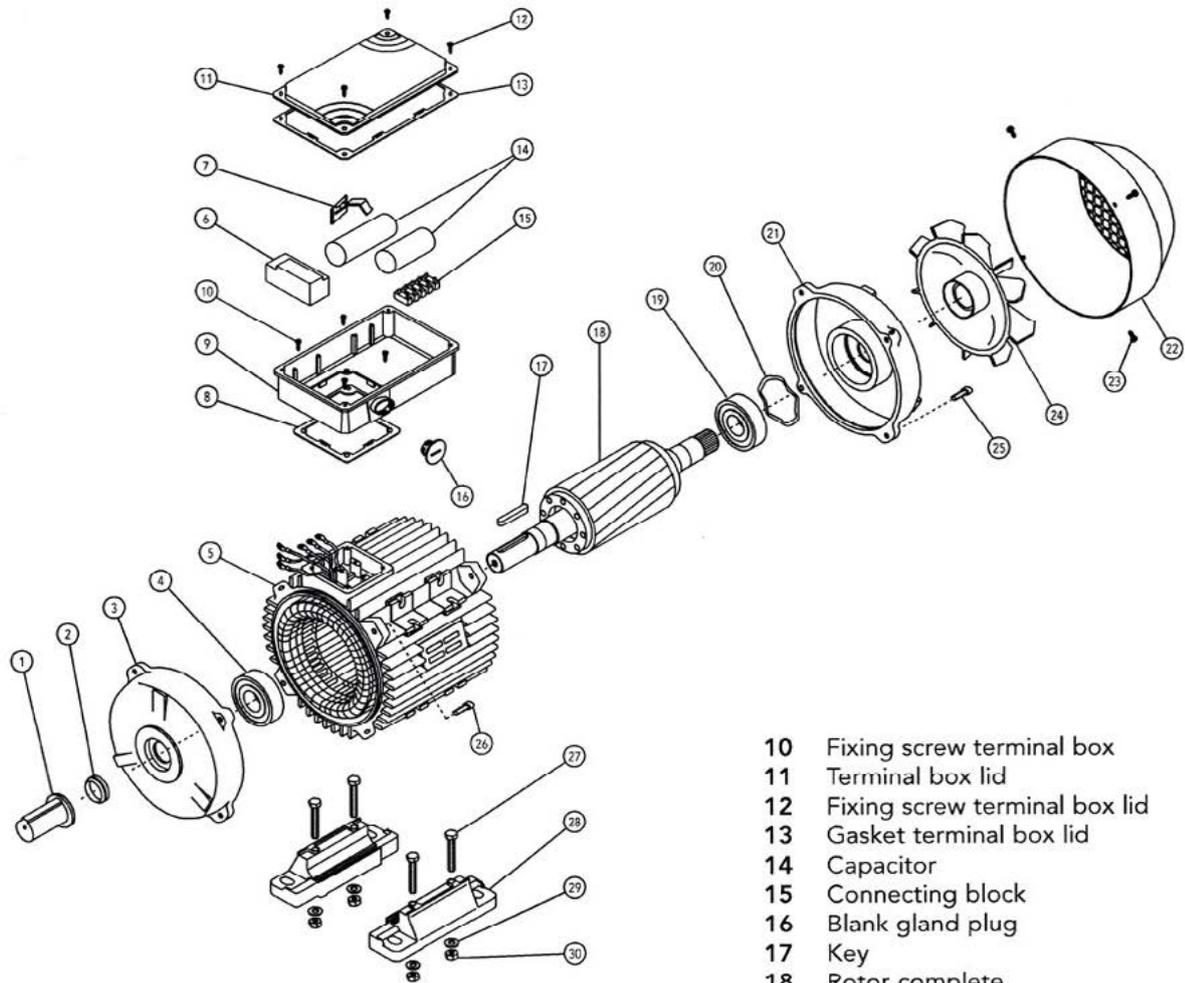
110v & 230v Motors

Only the most commonly used motor components are carried in stock at Trelawny SPT Ltd.

These items are listed under the Lafert Motor heading in the parts list on the page 12.

Note:

Endsheild Drive End Flange not shown in item 3.
Items 27,28,29 & 30 are not used on the Grinder.

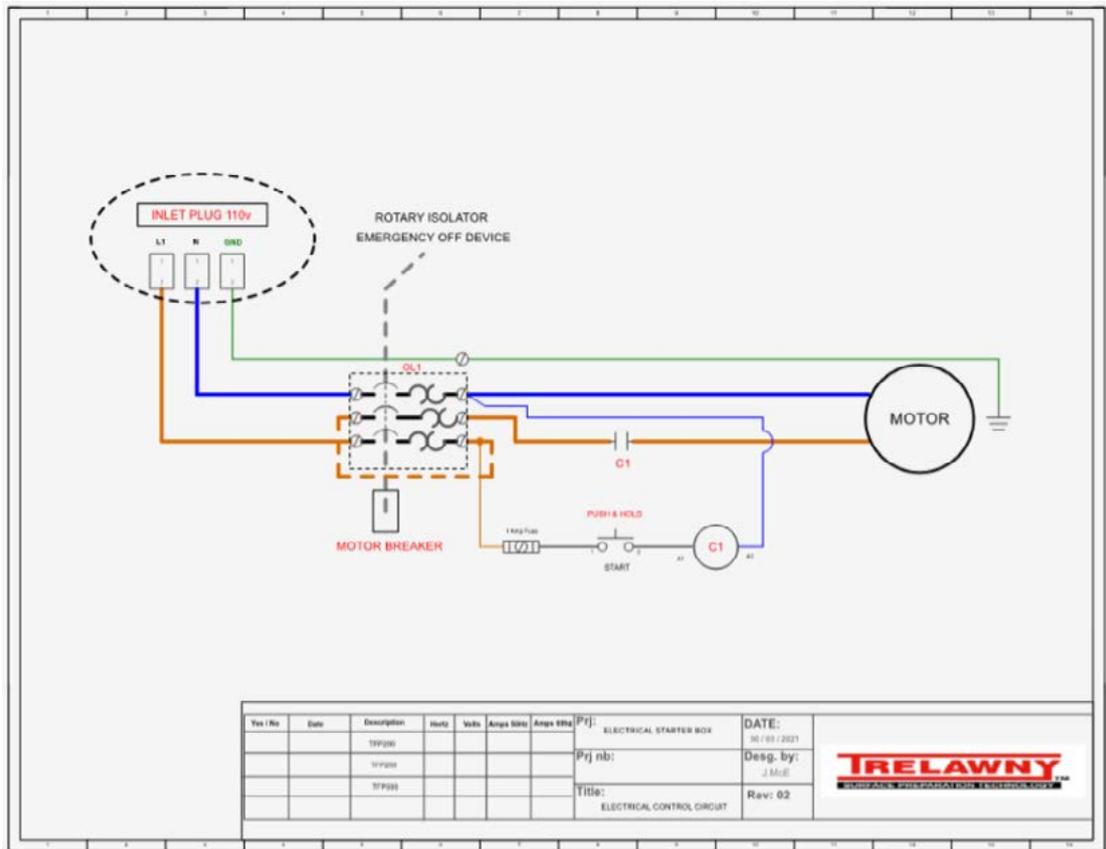
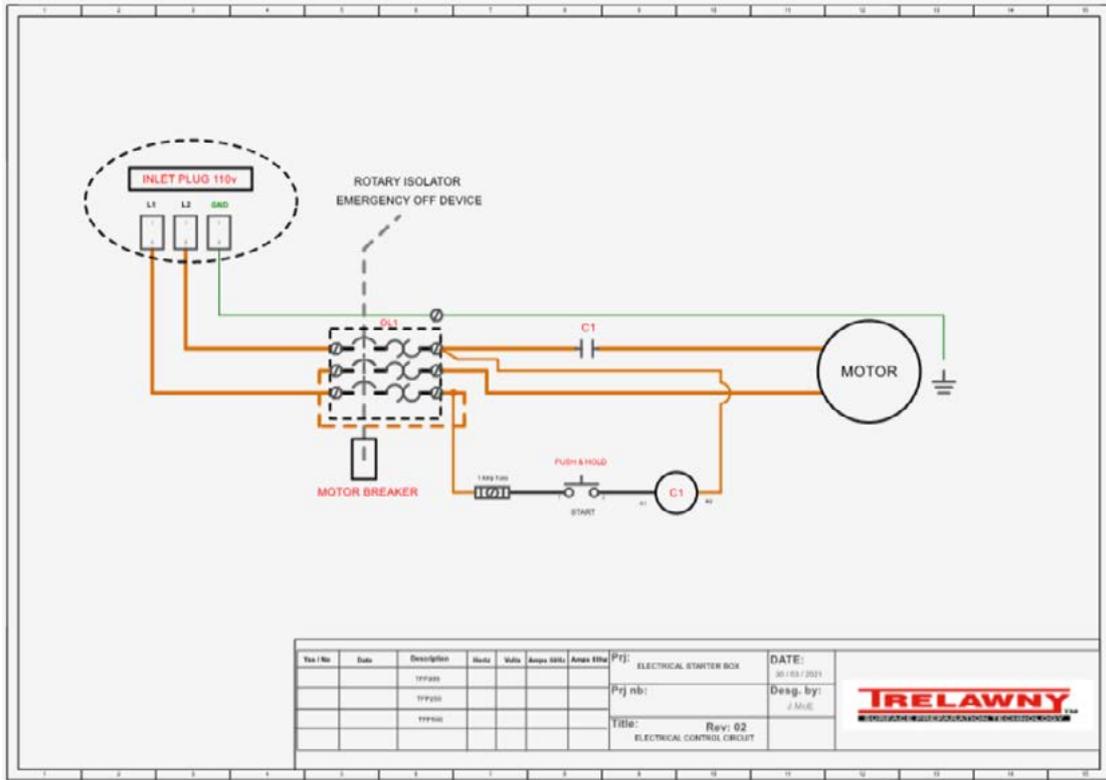


PART DESCRIPTION

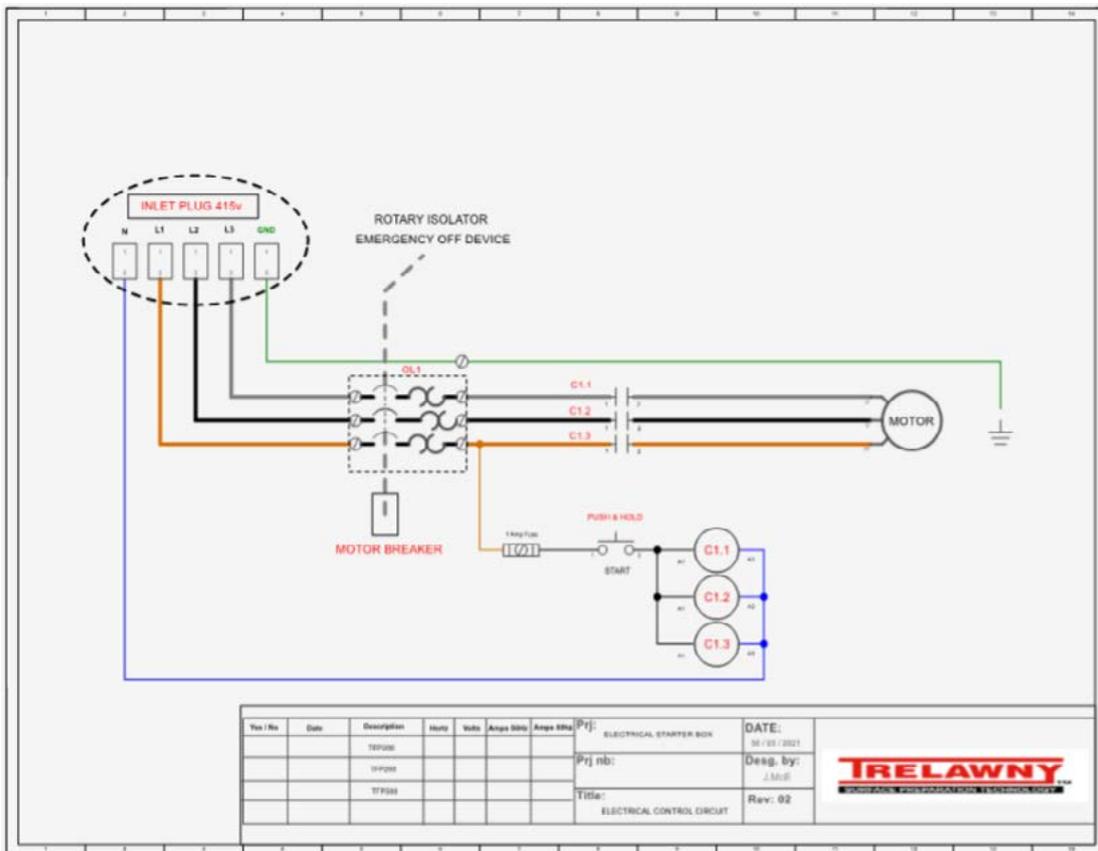
- 1 Shaft protection
- 2 Dust seal drive end
- 3 Endshield drive end
- 4 Bearing drive end
- 5 Stator frame
- 6 Starter
- 7 Fixing device capacitor
- 8 Gasket terminal box
- 9 Terminal box

- 10 Fixing screw terminal box
- 11 Terminal box lid
- 12 Fixing screw terminal box lid
- 13 Gasket terminal box lid
- 14 Capacitor
- 15 Connecting block
- 16 Blank gland plug
- 17 Key
- 18 Rotor complete
- 19 Bearing non-drive end
- 20 Pre-load washer
- 21 Endshield non-drive end
- 22 Fan cover
- 23 Fixing screw fan cover
- 24 Fan
- 25 Fixing bolt endshield non-drive end
- 26 Fixing bolt endshield drive end
- 27 Fixing bolt motor feet
- 28 Motor feet
- 29 Fixing washer motor feet
- 30 Fixing nut motor feet

WIRING DIAGRAMS



WIRING DIAGRAMS



DEALER STAMP:



NEED TO CONTACT US?

Trelawny SPT Limited

Trelawny House, 13 Highdown Road, Sydenham Industrial Estate,
Leamington Spa, Warwickshire, CV31 1XT, United Kingdom

Telephone: +44 (0)1926 883781 Fax: +44 (0)1926 450352

Email: sales@trelawny.co.uk

Website: www.trelawny.co.uk

Manual Part Number:
735.5276

