TRELAWNY™
SURFACE PREPARATION TECHNOLOGY

SCAN HERE FOR TCG500 INTRODUCTION

TCG500 FLOOR GRINDER

INCLUDES MODELS: PREMIUM, SE AND VARIABLE SPEED

OPERATION AND MAINTENANCE MANUAL

TCG500V Now included

CONTENTS

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 NO. 2021/3/01

CE

1. Product: Floor Preparation Machine
   Series reference: TCG(electric, air & petrol)
   Models: TCG250 & TCG500

2. Manufacturer / Authorised Representative
   Name: Trelawny SPT Ltd.
   Address: 13 Highdown road, Sydenham Ind. Est, Leamington Spa. Warwickshire. United Kingdom CV31 1XT.

3. This declaration is issued under the sole responsibility of the manufacturer.

4. Object of the declaration:
   Product: Floor preparation machine.
   Specification: Electrical 110v, 240v, 440v / Pneumatic / Petrol

5. The object of the declaration described above is in conformity with the relevant Union harmonised legislation (and their amendments):

2006/42/EC	The Machinery Directive
2011/65/EU	The Restriction of Hazardous Substances Directive
2006/95/EC	Low Voltage Directive

6. References to the relevant designated standards used or references to the other technical specifications in relation to which conformity is declared.
   Reference: EN ISO 12100 / 2010 EN ISO 20643:2008+A1:2012 EN ISO 4871:2009

   EN 60204-1:2018

7. Approved Body: N/A
   Description:
   Reference:

8. Technical documentation for the machinery is available from:

   Trelawny SPT Ltd.
   13 Highdown road, Sydenham Ind. Est, Leamington Spa. Warwickshire. United Kingdom CV31 1XT.

Signed for and on behalf of:	Trelawny SPT Ltd.
Place of issue:	Leamington Spa
Date of issue:	1st January 2024
Name:	Mr Adam Dickinson
Function:	Managing Director
Signature:	

DECLARATION OF CONFORMITY NO. 2021/3/01

UK CA

1. Product: Floor Preparation Machine
   Series reference: Series reference: TCG(electric, air & petrol)
   Models: TCG250 & TCG500

2. Manufacturer / Authorised Representative
   Name: Trelawny SPT Ltd.
   Address: 13 Highdown road, Sydenham Ind. Est, Leamington Spa. Warwickshire. United Kingdom CV31 1XT.

3. This declaration is issued under the sole responsibility of the manufacturer.

4. Object of the declaration:
   Product: Floor preparation machine.
   Specification: Electrical 110v, 240v, 440v / Pneumatic / Petrol

5. The object of the declaration described above is in conformity with the relevant Union harmonised legislation (and their amendments):

2008 No. 1597	The Supply of Machinery (Safety) Regulations 2008
2012 No. 3032	The Restriction of the use of certain hazardous substances in Electrical and Electronic Equipment Regulations 2012
2016 No. 1101	The Electrical Equipment (Safety) Regulations 2016

6. References to the relevant designated standards used or references to the other technical specifications in relation to which conformity is declared.
   Reference: BS EN ISO 12100 / 2010 BS EN ISO 20643:2008+A1:2012 BS EN ISO 4871:2009

   BS EN 60204-1:2018

7. Approved Body: N/A
   Description:
   Reference:

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Signature:	

TRELAWNY™
SURFACE PREPARATION TECHNOLOGY

DECLARATION OF CONFORMITY

CZ

Prohlášenl o přizpüsobení
My, společnost Trelawny SPT Limited
podajemy daňové přiznání. že výrobek a dodávka výrobku
název výrobku
Model, výrobni čislo
Rok výroby
Pro které se průkaz týkajici, je přizpüsobeni s zásoby od následujici přikazov a jejich pohotovostni:
98/37/EC Přikaz soustroji
73/23/EC Přikaz nizkého napéti (upotřebitelne jediné do výrobku použiti elektnckej energie)

DE

Ubereinstimmungserklarung
Wir, Trelawny SPT Limited
erklaren, dass unter unserer alleinigen Verantwortung fur die Lieferung und Herstellung des Produktes
Name des Produktes
Model, Seriennummer
Jahr der Herstellung
auf welches sich dieses Dokument bezieht. stimmt mit den Vorgaben der folgenden Direktive, normativen Dokumente und deren jeweiligen Masstabe ein:
98/71/EC Maschinerledirektive
73/23/EC Niederspannungsdirektive (nur zutreffend auf Produkte, die Strom benutzen)

DK

Erklæring om overensstemmelse
Vi, Trelawny SPT Limited
Erklærer hermed at under vores ene forhandling ansvar for vores forhandling/produktion af produktet
Produkt navn
Model, serie nummer
Produktionsár
For hvilket delle dokument referer, at deler i overensstemmelse med bestemmelser af følgende direktiver, normative dokumenter og deres relevante standart:
98/37/EC Machinery directive
73/23/EC Low voltage directive

EE

TOOTE VASTAVUSE DEKLARATSIOON
Meie, Trelawny SPT Limited
Deklareerime, et vastutame jägmise varustuse/toote müügi eest
Toote nimetus
Mudel, Seeria number
Aasta toodangu
Antud dokument töendab toote vastavust järgmistele direktiivi(de)le, normatiivaktidele ja nendega samaväärsetele standarditele:
98/37/EC MASINA DIREKTIIVID
73/23/EC MADALPINGE DIREKTIIVID (Kohandatakse vaid toodetele, mis kasutavad elektrivoolu

ES

Declaración de Conformidad
Nosotros, Trelawny SPT Limited
Declaramos que bajo nuestra completa responsabilidad de la fabricación/suministro del producto
Nombre del Producto
Modelo, No de Serie
Año de producción
A quién este documento se refiere, está de acuerdo con lo relacionado en la Directriz, Normativa Documentada y sus relevantes standards:
98/37/EC Directorio de Maquinaria
73/23/EC Directorio de Bajo Voltaje (Aplicable solamente a productos que funcionen con electricidad)

FI

ILMOITUSVAHVISTUS
Me. Trelawny SPT Limited
Vahvistamme tuotteiden toimittamisesta/valmistamisesta
Tuotenimi
Malli, sarjanumero
Valmisttusvuosi
Tällä todistuksella vahvistamme säädökset seuraviin ohje/ohjesiin, Yleisiin papereihin ja niihin liittyvät vaatimukset:
98/37/EC KONEISTON OHJEET
73/23/EC PIENJÄNNITE OHJEET (tarvitaan ainoastaan tuotteille jotka käyttävät sähkovoimaa)

FR

DÉCLARATION DE CONFORMITÉ
Nous, soussignés Trelawny SPT Limited
déclarons que le produit sous-nommé
Nom du produit
Modèle et Numéro de Serié
Année de production
et pour lequelnous prenons entière responsabilité pour sa fourniture et manufacture, est conforme aux clauses des directives suivantes documents norminatifs et normes qui s'y appliquent:
98/37/EC DIRECTIVE POUR LA MACHINERIE
73/23/EC DIRECTIVE POUR BAS VOLTAGE (n'est applicable qu'aux produits utilisant l'énergie électrique)

GR

ΔΗΛΩΣΗ ΠΙΣΤΟΤΗΤΑΣ
Η εταιρεια Trelawny Spt Limited
Δηλωνει ότι έχει τη μονδικη ευθυνη ως κατασκευαστρια / προμηθευτρια του παρακατω προιοντος περιγραφη προιοντος
μοντελο, αριθμος σειρας
έτος παραγωγής
και στο οποιο αναφερεται αυτη η δηλωση, ειναι συμβατο με τις προδιαγαφες που οριζονται στις ακολουθες Κοινοτικες Οδηγιες Ελεγκτικες Διαταξεις κι αλλες σχετικες προδιαγραφες
98/37/EC ΟΔΗΓΙΑ ΠΕΡΙ ΜΗΧΑΝΗΜΑΤΩΝ
73/23/EC ΟΔΗΓΙΑ ΠΕΡΙ ΧΑΜΗΛΗΣ ΤΑΣΗΣ (αφορα μονον προιοντα που λειτουργουν με ηλεκτρικο ρευμα)

HU

MEGFELELŐSÉGI NYILATKOZAT
Mi. A "Trelawny SPT Limited" cég
Felelösségünk tudatában kijelentjük, hogy mint a termék szállitója/gyartója
Termék neve
Tipus, Sorozatszáma
Gyártási év
amelyre jelen dokumentum vonatkozik, megfelel az alábbi Irányelv(ek), Irányadó Dokumentumok elöirásainak, és az azokat meghatározó szabvanyoknak:
98/37/EC GÉPÉSZETI IRÁNYELVEK
73/23/EC KISFESZÜLTSÉGÜ IRÁNYELVEK (Csak az elektromos meghajtású gepeknél)

IT

DICHIARAZIONE DI CONFORMITA
La Società Trelawny SPT Limited
Dichiara, sotto la propria responsabilità, che la fornitura / produzione del prodotto
Nome prodotto
Modello, codice
Anno di produzione
a cui si riferisce tale documento è conforme aile seguenti Direttive, ai documenti della Normativa ed ai relativi standard:
98/37/EC DIRETTIVA SULLE APPARECCHIATURE
73/23/EC DIRETTIVA SUL BASSO VOLTAGGIO (applicabile esclusivamente peri prodotti che utilizzano energia elettrica)

LT

ATITIKTIES DEKLARACIJA'
Mes, Trelawny SPT Limite
Prisiimdami visą atsakomybę deklaruojame, 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 Įtrangos direktyva
73/23/EC Zemos įtampos direktyva (taikoma tik elektriniams įrengimams)

MT

DIKJARAZZJONI TA KONFORMITA
Aħna, Trelawny SPT Limited
Niddikjaraw li aħna responsabbli kompletament għal provista / manifattura tal-prodott hawn 1msemmi:
Isem il-Prodott
Mudell, Serial number
Sena la 'produzzjoni
Dan id-dokument magħmul għal prodott imsemmi hawn fuq, li huwa skond il-provizjonijiet imsemmija fid-dokumenti tal-klassi tax-xogħol:
98/37/EC Machinery Directive
73/23/EC Low Voltage Directive (tapplika biss għal prodotti li jaħdmu bl-eletrkiu)

NL

EENVORMIGHEIDSVERKLARING
Wij. Trelawny SPT Limited
Verklaren dat wij de volledige verantwoordelijkheid dragen voor het leveren/fabriceren van het volgende product:
Naam van het product
Type, Serienummer
Productiejaar
En verklaren dat het product waarnaar dit document verwijst eenvormig is met de voorzieningen van de volgende Richtlijn(en), Normatieve Documenten en hun relevante Standaarden:
98/37/CE MACHINERICHTLIJN
73/23/CE LAAGSPANNINGSRICHTLIJN (uitsluitend van toepassing bij producten die elektrische stroom gebruiken)

PL

Deklaracja Zgodnosci
My, Firma Trelawny SPT Limited.
oświadczamy w naszej odpowiedzialności, ze produkcja i dostawa urzctdzenia
Nazwa produkta
Model, numer seryjny
Rok produkcji
do którego ten dokument należy, jest zgodne z klauzulami nastąpujacych zarządzen i ich istotnych standartów:
98/37/EC Zarządzenie mechaniczne
73/23/EC Zarządzenie niskiego napięcia elektrycznego (Zastosowanie tylko przy urządzeniach elektrycznoych)

PT

DECLARAÇÃO DE CONFORMIDADE CE
A empresa TRELAWNY SPT LIMITED
Declara, sob sua inteira responsabilidade, que o fornecimento/fabrico do seguinte produto:
Designaçáo do produto
Modelo, Número de Série
Ano de produçáo
a que esta declaraçáo se refere. está em conformidade com o preceituado nas Directivas e Normas Comunitárias abaixo indicadas:
98/37/EC DIRECTIVA DE MÁQUINAS
73/23/EC DIRECTIVA DE BAIXA VOLTAGEM (Aplicável apenas a produtos que utilzi am energia eléctrica)

RU

СВИдЕТЕПЬСТВО О СООТВЕТСТВИИ
Мы, Trelawny SPT Limited
Заявляем, что несем полную ответственость за поставку/производство нижеуказанной
продукцим
Наименоване изделия
Модель, серийный номер
Год выпуска
на котоеую выдано настящее Свидетельство, и которая соответствует положениям слдующей(их) директив(ы), нормативным документам и относящимся к ним стандартам:
98/37/EC ДИРЕКТИВА ПО МЕХАНИЗМАМ
73/23/EC ДИРЕКТИВА ПО НИЗКОВОЛЬТНОМУ ОЪОРУДОВАНИЮ (распространяется только на изделия с электропитанием)

SE

FÖRSÄKRAN OM ÖVERENSSTÄMMELSE
VI, TRELAWNY SPT LIMITED
FÖRKLARAR ATT VI MED ENSAMT ANSVAR ANSKAFFAT / TILLVERKAT PRODUKTEN PRODUKTNAMN
MODELL och SERIE NUMMER
Tillverkningsár
TILL VILKEN DETTA DOKUMENT HÄNVISAR ÄR I ÖVERENSSTÄMMELSE MED FÖLJANDE DIREKTIV, NORMATIVA DOKUMENT OCH DERAS RELEVANTA STANDARDER
98/37/EC MASKINDIREKTIV
73/23/EC LÄGSTRÖMSDIREKTIV (TILLÄMPLIG PÄ ELEKTRISK DRIVNA PRODUKTER)

SI

IZJAVA O SKLADNOSTI
Trelawny SPT Limited
pod polno odgovornostjo izjavljamo, da so spodaj navedeni proizvodi, ki jih dobavljamolproizvajamo:
Ime proizvoda
Model. serijska številka
Leto proizvodnje
na katere se ta dokument nanaša. proizvedeni v skladu z določili naslednjih direktiv, normativnih dokumentov in njihovih relevantnih standardov:
98/37/EC DIREKTIVA O STROJIH
73/23/EC DIREKTIVA O STROJIH Z NIZKO VOLTAŽO (nanaša se samo na proizvode na električni pogon)

TR

UYGUNLUK BEYANI
Trelawny SPT Limited
AÞaöýdaki, üretim ve tedarikinden tek baÞýna sorumlu olduöu ürünün
Ürün ady
Modeli/Seri no
Üretim yili
bu belgenin ilgili olduöu apaöýdaki yönetmeliklerin, norm belgelerinin ve ilgili standartlarýnýn koÞullarýna uygun olduöunu beyan eder:
98/37/EC MAKÝNALAR YÖNETMELÝDÝ
73/23/EC DÜÞÜK GERÝLÝM YÖNETMELÝDÝ (Yalnýýz elektrikle çalyÞan ürünlerde geçerlidir)

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.

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.

MAIN PARTS DIAGRAM

The following image of a typical electrical version TCG500, the front and rear image and operation are suitable to all 110V, 230V 440v variants. The TCG500 comprises of a fabricated steel chassis to which all other components are mounted The power unit drives the heavy-duty twin grinding discs via a pulley and belt enclosed within the belt cover (1). The handlebar (2) is damped from vibration to protect the operator. For electric models power is connected via a chassis mounted socket and supplied commando (IEC number) plug (3). Deadman's button (available on specific models) (4) and switch (5) must be held to allow the motor (6) to start. The machine is started via the starter box (7).

All models now include the improved vacuum extraction rear lower nozzle (8). A rotating 'lifting mechanism' is built into the petrol machine variant for the purposes of taking the grinding heads out of contact with the working surface to start, or store the machine. The front shroud can be adjusted to contain the dust created during operation (9). The chassis features an integrated counterweight to ensure the machine remains controllable while in operation. The machine has designated lifting points for safe operation (10).

TCG500 ELECTRIC VARIANT STANDARD STARTER BOX REAR

TCG500 ELECTRIC VARIANT STANDARD STARTER BOX FRONT

TCG500V VARIABLE SPEED INVERTER ELECTRIC REAR

TCG500V VARIABLE SPEED INVERTER ELECTRIC FRONT

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 prior or during use 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. Suitable PPE must be worn at all times including those working around the work area even if they are not involved in the process of grinding.

This machine and all its variants, is primarily designed for the smoothing of concrete, marble and terrazzo surfaces. It can be used both indoors and out although it is recommended that the use of petrol powered variants are exclusively used outdoors due to the risk of exhaust gas build up in enclosed spaces.

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 thereafter: 380 rpm to 900rpm TCG500V		
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 Motors Variable Speed	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	
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	EN ISO 28927:2012 & EN ISO 20643:2005		
Noise LwA SWL	97.9dB (A)		
Vibration (AEQ) at the Handle Bar (Electric Models)	a=1.6 m/s2 (K= 0.88m/s^2)		
(Petrol Models)	a=2.09 m/s2 (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.

MODEL VARIANT TABLE

Model Ref	Variant	Description	Features	Description
Premium	110v, 230v, 440v.	TCG500 Twin Disc Grinder	Isolation Switch Start	Primary on / off and restart
			Dead-mans Button Start	Safety Feature, release to stop the machine, press to restart.
			Improved Vacuum Outlet	Wider collection area around rear perimeter of the machine. Detachable.
			Brush "skirt" Perimeter	Improved Dust containment
			Fixed Speed Operation	One speed operation all tasks
			Suitable for grinding discs or QR blocks	Easy changeover by experience operator.
Premium	Petrol	TCG500 Twin Disc Grinder	Petrol Motor	Inc Oil and request fuel. Ignition and throttle included.
			Improved Vacuum Outlet	Wider collection area around rear perimeter of the machine. Detachable.
			Lifting mechanism	Rotating front handle to lift the machine from the floor surface at start up.
			Brush "skirt" Perimeter	Improved Dust containment
			Suitable for grinding discs or QR blocks	Easy changeover by experience operator.
SE Model	110v, 230v, 440v.	TCG500 Twin Disc Grinder	Isolation Switch Start	Primary on / off and restart
			Improved Vacuum Outlet	Wider collection area around rear perimeter of the machine. Detachable.
			Brush "skirt" Perimeter	Improved Dust containment
			Suitable for grinding discs or QR blocks	Easy changeover by experience operator.
Variable	440v	TCG500V Variable Speed Twin Disc Grinder	Isolation Switch Start	Primary on / off and restart
			Potentiometer speed variation dial	Changes the speed of the motor & grinding discs for improved polishing or grinding
			Improved Vacuum Outlet	Wider collection area around rear perimeter of the machine. Detachable.
			Brush "skirt" Perimeter	Improved Dust containment
			Suitable for grinding discs or QR blocks	Easy changeover by experience operator.

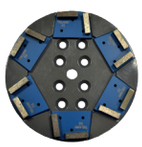
MEDIA TYPES AND APPLICATIONS

FLOOR GRINDER ACCESSORIES & APPLICATION GUIDE

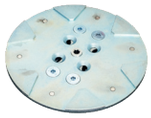
The Trelawny TCG500V floor grinder is designed to cover a wide range of applications by simply changing the accessory on the bottom of the machine. The following application chart identifies which accessory to use for your current application.

								
	PCDs	16 Grit Soft Bond Diamond	30 Grit Soft Bond Diamond	30 Grit Medium Bond Diamond	30 Grit Hard Bond Diamond	70 Grit Diamond	120 Grit Diamond	Resin Polishing Pads
Very fine grinding of concrete floors	-	-	-	-	-	-	✓	-
Fine grinding of concrete floors	-	-	-	-	-	✓	-	-
Medium grinding of concrete floors	-	-	✓	✓	✓	-	-	-
Coarse grinding of concrete floors	-	✓	-	-	-	-	-	-
Prepare for application of vinyl or tiled floors	-	-	✓	-	-	-	-	-
Remove Polyurethanes	✓	✓	✓	-	-	-	-	-
Remove Epoxies	✓	✓	✓	-	-	-	-	-
Remove adhesive, bitumen, carpet backing	✓	✓	-	-	-	-	-	-
Remove ice & oil build up	✓	-	-	-	-	-	-	-
Grind Asphalt	-	-	-	-	✓	-	-	-
Polish Concrete	-	-	-	-	-	-	-	✓
Comments	Ideal for the removal of soft sticky materials and build ups. Can also be used for removing very hard and thick coatings if 16/30 grit diamonds are not productive.	Coarse diamond suitable for grinding off coatings. Will also produce coarser profile for application of thicker coatings.	Best for most normal grinding applications, levelling and preparation for new coatings. Normally first step in polishing process if no heavy remedial work is required. Soft bond – for hard concrete. Medium bond – For medium hard concrete - Hard bond – for soft/green/rain damaged concrete. For very rough concrete use hard bond single segment first.			Leaves a smooth fine surface suitable as a finished floor or before application of thin coatings. Removes scratches as second stage of polishing process.	Removes scratches from 60 grit diamonds and leaves a very fine finish, used before resin bond polishing pads.	Used to produce final polished floor, available in range of grits as part of multi-step polishing process.

SELECT YOUR SOLUTION



KEY CONSUMABLES & ACCESSORIES

Image	Part Number	Description
	350.5620B	Diamond Disc 20 Segment. Others Available
	350.5660	6 Segment Quick Release Plate For use with Trelawny QR Diamond tooling

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.

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 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.

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. To avoid voltage drop the cable must be a minimum core wire size of 2.5mm² but preferably 4.0mm² cross-section. The maximum length of cable can then be 15 metres and 30 meters respectively. 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 440v Motors
Take particular care when using 230v or 440v 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 440v 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 4mm (5 core for 440V) cross-section area. Maximum length of cable 50 meters.

Variable Speed TCG500V
This machine includes an Inverter, it is designed with the specific parameters of operation intended for daily use of this machine. If the unit become unresponsive, hot or ceases to function seek advice and guidance on the correct procedure for investigation. Noting that unsanctioned repair will void warranty. The cabinet is for the protection of the essential electronics, dust protected and will resist water ingress. However inspect the cabinet regularly to ensure all is operational.

It is advised to start the machine at a slow speed with the grinding surfaces lifted off the floor. The machine can be started in contact with the floor, however the resulting grind left on the floor at startup may not be required.

CAUTION! Only undertake pre-start checks with the machine unplugged. Any signs of wear or damage DO NOT Start the machine. Contact your authorised dealer immediately.

STARTING

Machines fitted with electric motors or Variable Speed Systems

Procedure as stated in Pre-Start Check.

Turn red/yellow isolator knob to the "ON" position. The machine is now energised. To start the machine, depress Hold to Run button and keep depressed. As soon as the button is released, the machine will stop.

For variable speed machines, turn the potentiometer to its slowest speed, turn red/yellow isolator knob to the "ON" position. The machine is now energised and will be spinning at the speed setting. Allow the machine to settle at the speed selected, checking for any signs of malfunction before increasing the speed. The machine speed can be increased either in contact with the floor or whilst slightly lifted, (by tilting backwards). To stop lift the machine heads from the floor and turn off the isolator. You do not need to engage with the invertor at any time during normal operation.

CAUTION: Tilting the machine backwards exposes the rotating components of the mechanism, beware of debris being flung from the underside of the machine or any item fouling the mechanism. Beware when dropping the machine head back to the floor that the rotating parts are not fouled by obstructions on the floor.

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 lifting mechanism, tilt the machine slightly to lift the grinding head(s) from the floor surface, wind the front "jack stand" to lower the front foot, then start the petrol motor. (see next Paragraph). Stabilise the engine running to idle before lowering the machine back towards its normal working position to commence operation.

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. Always ensure the dust collection equipment is in good working order, free from blockages and that the filters are clean ahead of ensuring the receptacle is also empty. Or if suitable for the area being worked, a mist of water can be used onto the floor by use of a hose, in the vicinity of operation to capture the dust, noting that a slurry is so formed that will require clean up. Excessive use of water is not recommended.

Be advised that the machine may exhaust dust on start up if not so cleaned at the end of the last operation. Particularly if the machine is tilted from the floor, which will prevent the dust skirts from operating to the maximum. PPE must be worn at all times during operation and by those working in close proximity to the work area.

On variable speed electric motors, turn the machine to the slowest setting before engaging the isolator on/ off. Once the machine has stabilised in speed commence operation. The speed can be changed at any time during operation.

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 button. Then on both engine and electric motor versions release the Hold to Run button to stop the machine (if equipped), 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, ideally raise the grinding heads from the floor surface to prevent any built up heat deforming the rubber coupling if it is left under load whilst hot and stationary. The petrol machine can be stored whilst on its front 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! on petrol motor machines close the engine fuel tap after use.

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.

Access to the media is by tilting the machine backwards until the handle is in contact with the floor. For balance, place a weight on the handle to ensure it remains in contact with the floor whilst the underside of the machine is exposed at the front.

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 into the position as described to gain access to the grinding media.

Using a 10mm Allen key I the center most screw. Secure the disc from rotating by applying slight rotational pressure.

Simultaneously unscrew each of the four M8 bolts securing the diamond plate to the adapter plate. Repeat with the other three bolts. Repeat and replace with the fresh diamond media and replace the three bolts. The pressure on the center bolt will prevent the disc from spinning.

Repeat the action in reverse with the new diamond plate added.

Reposition the front dust skirt and re-tighten the 10mm wing bolts and 8mm hexagon headed bolt. Check the disc is firmly applied before completing the same on the second disc.

Fitting Diamond Segments or Polishing Segments
The segments are located due to the wedge shape of the segment, apply a gentle tap to the outer edge towards the center of the disc to release the segment. The segment will drop away from the mounting plate. Repeat for each segment. Conduct the process in reverse with new segments. Ensure all are secure before commencing work.

Some polishing segments have a mounting disc which is applied in the same way as the grinding segments. The polishing pad then being secured to the mounting disc via Velcro.

Changing between Diamond Disc to Adapter plate and Diamond Segments.
Using a 10mm Allen key I the center most screw.
Secure the diamond disc from rotating by applying slight rotational pressure.

Simultaneously unscrew each of the four M8 bolts securing the diamond plate to the adapter plate. Repeat with the other three bolts. Repeat and replace with the segment adapter plate. The pressure on the center bolt will prevent the disc from spinning whilst tightening also.

Reposition the front dust skirt and re-tighten the 10mm wing bolts and 8mm hexagon headed bolt. Check the disc is firmly applied before completing the same on the second disc.

IMPORTANT! tilting the machine backwards for access to the consumable must be done with caution the machine is heavy and is not suitably weighted may cause injury to the operator accessing beneath the machine.

TRELAWNY™
SURFACE PREPARATION TECHNOLOGY

CHECKING CHART

		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			
Electrical Motors	Visual Inspection	X					
	Clean Air Passages		X				
	Operational Check (No Load)	X		X			
Variable electronics	Visual Inspection	X					
	Filter Check			X			

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 or bouncing	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.		

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.

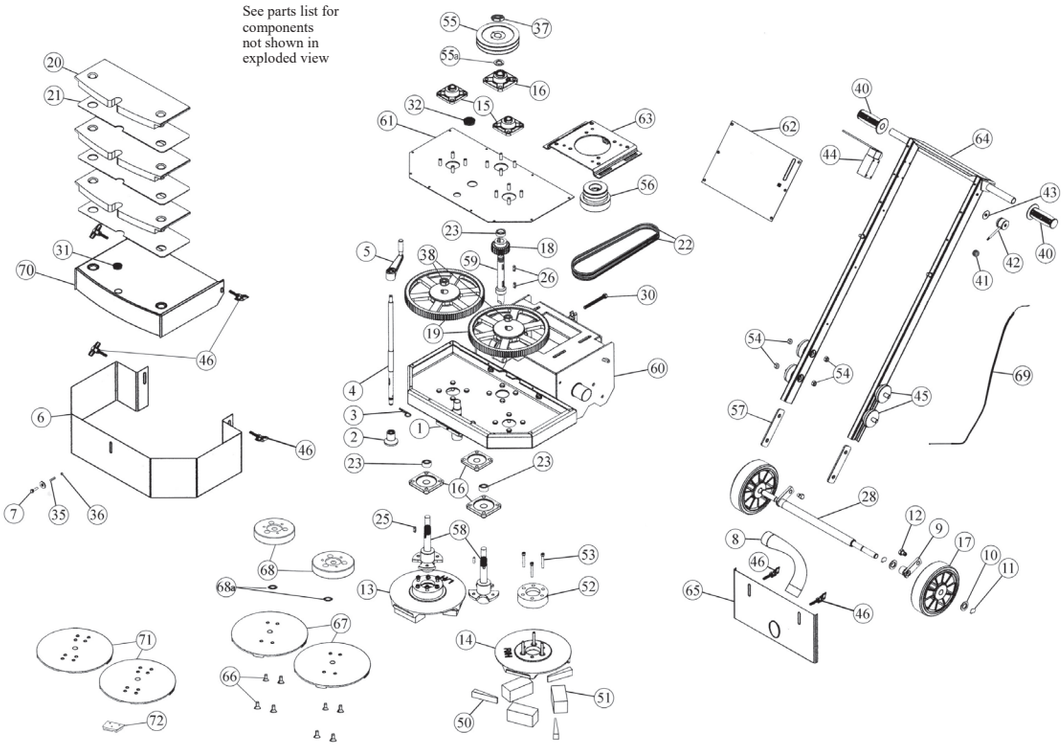
The unit is now fitted with suitable lifting points for slinged lift. Please refer to the annotated image on Page 6 for locations on the machine. Only use suitable lifting equipment as described or undertake a full risk assessment before proceeding.

EXPORT CHECKING

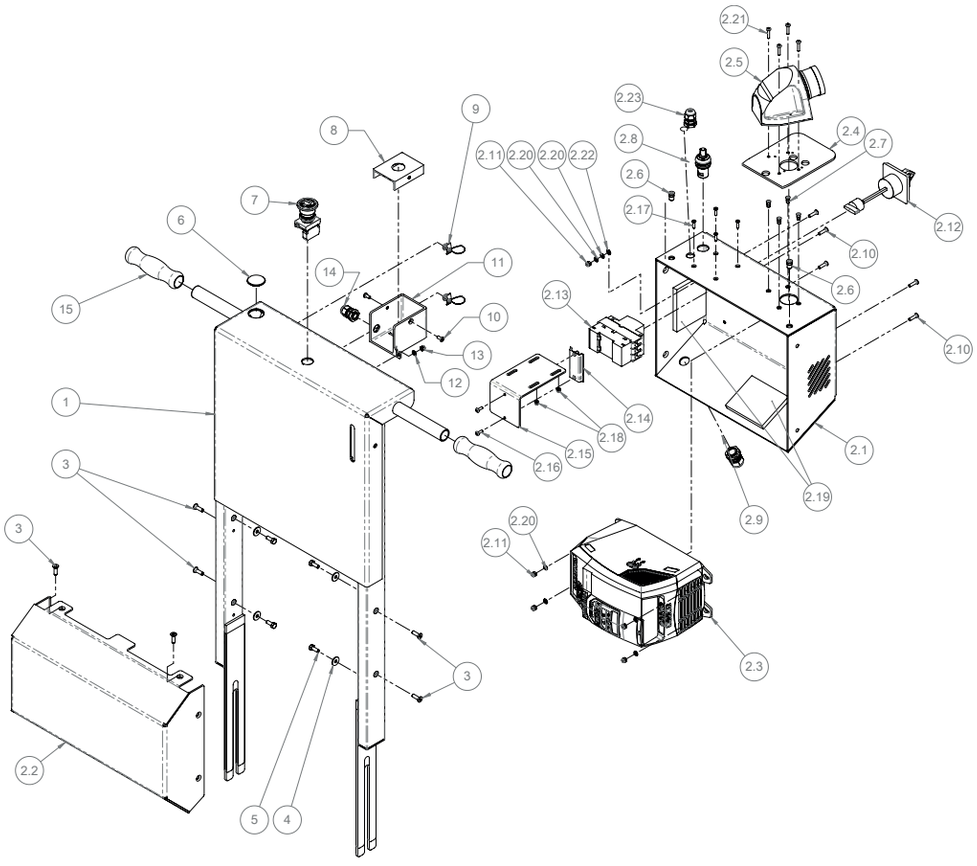
Remove the transport packaging and dispose of it in an environmentally responsible way, recycle where possible. Check the machine for completeness and any visual signs of damage, incurred during transit. Report any issues immediately to your supervisor, who should inform Trelawny straight away. Secure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

EXPLODED DIAGRAMS



VARIABLE MACHINE HANDLE ARRANGEMENT



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.)

PARTS LIST: VARIABLE MACHINE HANDLE

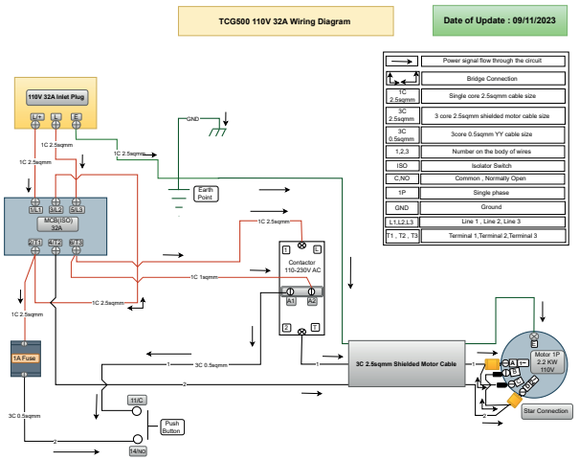
Item NO.	PART NO.	DESCRIPTION	Item NO.	PART NO.	DESCRIPTION
1	993.0038	TCG500VS Handle Metalwork Assembly - Black	2.19	875.1328	PU Foam Sheet, Open Cell, 100mm x 80mm x 10mm
2.1	993.1048	TCG500 Variable Speed Handle Enclosure Rear Panel	2.20	320.9310	M5 Plain Washer
2.2	993.1047	TCG500 Variable Speed Handle Enclosure Front Panel	2.21	872.0425	Pan Head Pozi Machine Screw, M4 x 20mm
2.3	875.1314	IP20 5.5kW 400V AC Inverter Drive - Tec TEC-3-340140-3F42	2.22	811.1005	M5 Serrated Lock Washer
2.4	991.1007	Power Inlet Mounting Plate	2.23	861.4004	Cable Gland, M16 - 669-4667
2.5	861.4036	Wall Socket 415V - CXN165P415AIWP	3	875.1133	M6 x 20 CSK Socket Head Screw
2.6	875.1315	M6 x 15.5mm CSK Head Serrated Open End Rivet Nut, Steel - FNORCM6SS/1	4	812.2060	M6 Mudguard Washer
2.7	875.1316	M4 x 12.5mm CSK Head Serrated Open End Rivet Nut, Steel - FNORCM4SS	5	831.0616	M6 x 16mm Hex head Machine Screw
2.8	875.1317	Potentiometer, Front Mount, M22, 10kOhm - 232233 M22S-R10K	6	875.1329	Push Button Blanking Plate - Bond In
2.9	861.4018	Cable Gland - M20	7	875.1281	Emergency Stop Pushbutton 1NC Contacts - EMAS CP200EE
2.10	320.01SC	M5 x 20mm Countersunk Screws	8	993.1056	TCG500VS Em. Stop Handle Shroud Upper
2.11	320.9305	M5 Nyloc Nut	9	815.0020	Cable Tie Push in Lock
2.12	861.2020	Start Switch - 3RV2926-0C	10	854.0512	CSK Pozi Machine Screw, M5 x 12mm
2.13	861.4026	Motor Circuit Breaker - 3RV2011-1GA10	11	993.1057	TCG500VS Em. Stop Handle Shroud Lower
2.14	875.1321	DIN (065mm) Rail Assembly	12	320.9310	M5 Plain Washer
2.15	993.1050	TCG500 Variable Speed Handle Enclosure DIN Rail Plate	13	320.9305	M5 Nyloc Nut
2.16	872.0412	Pan Head Pozi Machine Screw, M4 x 12mm	14	861.4004	Cable Gland, M16 - 669-4667
2.17	853.0416	M4 x 16 CSK Socket Head Screw	15	822.2000	Rubber Grip
2.18	875.1215	M4 Nyloc Hex Nut			

The Variable machine contains upgraded belts and Pulleys in addition to a non listed motor SKU.

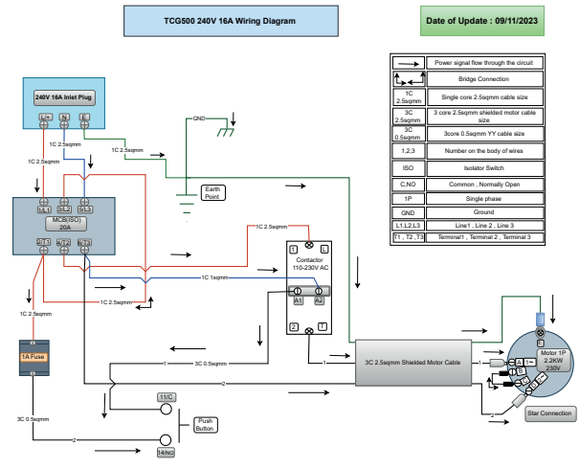
Contact Trelawny for details on demand.

WIRING DIAGRAMS

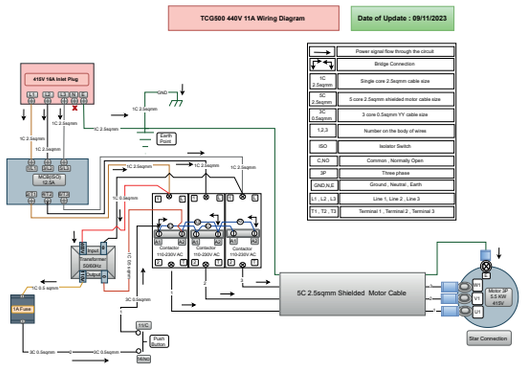
110V DIAGRAM



230V DIAGRAM

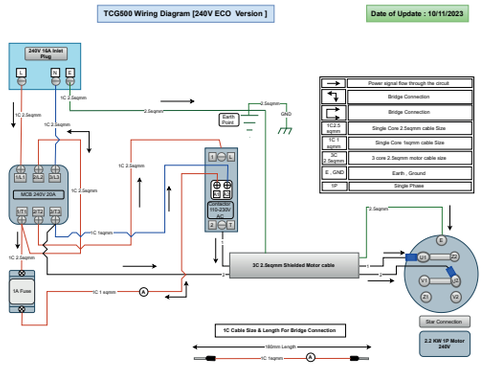


440V DIAGRAM

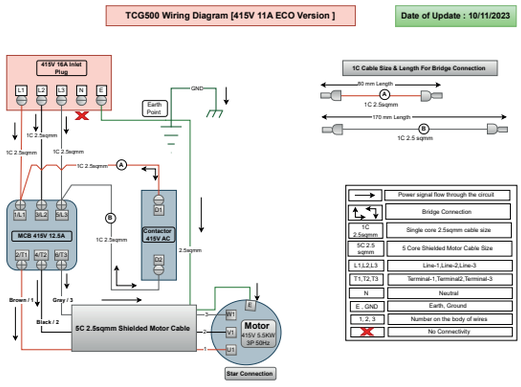


WIRING DIAGRAMS

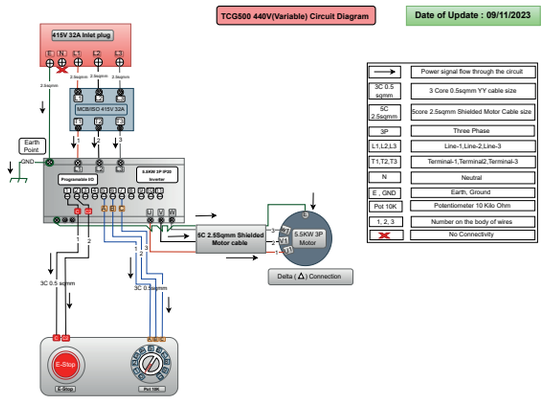
230V SE DIAGRAM



440V SE DIAGRAM



440V VARIABLE DIAGRAM



NOTES

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