

TCG500 FLOOR GRINDER

OPERATION & MAINTENANCE MANUAL



CONTENTS

INTRODUCTION	3	WIRING - 230v CONTROL BOX	27
GENERAL INFORMATION	3	WIRING - 400v CONTROL BOX	28
CE DECLARATION OF CONFORMITY	4	ELECTRIC MOTOR SPARE PARTS	29
UKCA DECLARATION OF CONFORMITY ...	5	PETROL ENGINE SPARE PARTS	29
DECLARATION OF CONFORMITY	6	MEDIA TYPES - GRINDING DISCS	30
HAND ARM VIBRATION	7	MEDIA TYPES - QR GRINDING TOOLS ...	30
WARRANTY	7	MEDIA TYPES - QR POLISHING TOOLS ..	31
GENERAL SAFETY	7	TECHNICAL SPECIFICATIONS	32
PRE START CHECKS (DAILY)	8	NOTES	33
ELECTRIC POWER SUPPLY	8	NOTES	34
STARTING WORK	9	NOTES	35
OPERATION	10	CONTACT US	36
SHUTDOWN	10		
MACHINE STORAGE	10		
SERVICING & MAINTENANCE	11		
MAINTENANCE SCHEDULE	12		
PPE & WARNING SYMBOLS	12		
TROUBLE SHOOTING	13		
EXPLODED VIEW - ELECTRIC MACHINES .	14		
PARTS LIST - ELECTRIC MACHINES	15		
EXPLODED VIEW - PETROL MACHINES ..	16		
PARTS LIST - PETROL MACHINES	17		
DRIVE COMPONENTS	18		
DRIVE COMPONENTS - 110v	18		
DRIVE COMPONENTS - 230v	19		
DRIVE COMPONENTS - 400v	19		
EXPLODED VIEW - 110v CONTROL BOX ..	20		
PARTS LIST - 110v CONTROL BOX	21		
EXPLODED VIEW - 230v CONTROL BOX ..	22		
PARTS LIST - 230v CONTROL BOX	23		
EXPLODED VIEW - 400v CONTROL BOX ..	24		
PARTS LIST - 400v CONTROL BOX	25		
WIRING - 110v CONTROL BOX	26		

INTRODUCTION

Thank you for choosing a product by Trelawny SPT Ltd, an innovative leading brand in the Surface Preparation sector.

This product has been manufactured under stringent quality standards to meet superior performance criteria. This manual contains the necessary maintenance information for you to ensure proper operation and care for this equipment.

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



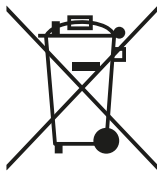
WARNING:

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



ENVIRONMENTAL PROTECTION:

The equipment, 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.

GENERAL INFORMATION

Before operating any TRELAWNY equipment, this manual must be read and understood by the operator, if in any doubt ask your supervisor before using this equipment. Failure to follow these instructions could result in damage to the equipment and/or personal injury.

Trelawny SPT Ltd disclaims all responsibility for damage to persons or objects arising as a consequence of incorrect handling of the equipment, failure to inspect the equipment

prior to starting work for damage or other faults that may influence the operation of safe working of the equipment, or failure to follow the safety regulations listed or applicable to the job site.

Operators should be familiar with the data given in the specification section. Please keep these instructions in a safe and accessible place.

CE DECLARATION OF CONFORMITY



EU Declaration of Conformity

We, **Trelawny SPT Ltd of 13 Highdown Road, Sydenham Industrial Estate, Leamington Spa, Warwickshire, CV31 1XT, GB** declare that the DoC is issued under our sole responsibility and belongs to the following product:

PART NUMBER

DESCRIPTION

SERIAL NUMBER

YEAR OF CONSTRUCTION



The object of the declaration described above is in conformity with the relevant **Union Harmonisation Legislation**:

- 2006/42/EC	Machinery Directive
- 2014/30/EU	EMC Directive
- 2014/35/EU	Low Voltage Directive
- 2011/65/EU	Restriction of Hazardous Substances Directive

The following harmonised standards and technical specifications have been applied:

- EN ISO 12100:2010	Safety of machinery
- EN 60204-1:2018	Safety of machinery. Electrical equipment of machines - General requirements
- EN ISO 4871:2009	Acoustics. Declaration and verification of noise emission values of machinery and equipment

Technical files are held by Indutrade Benelux BV, Anton Philipsweg 1, 1422 AL Uithoorn, Netherlands

Notified Body:

Not Applicable. Machinery is not listed under ANNEX IV of the Machinery Directive.

Place of Declaration:

Trelawny SPT Ltd, 13 Highdown Road, Sydenham Industrial Estate, Leamington Spa, Warwickshire, CV31 1XT, GB

Date of Declaration:

December 2024

Signed by:

Daniel Rowledge
Managing Director

UKCA DECLARATION OF CONFORMITY



UK CA

UKCA Declaration of Conformity

We, **Trelawny SPT Ltd of 13 Highdown Road, Sydenham Industrial Estate, Leamington Spa, Warwickshire, CV31 1XT, GB** declare that the DoC is issued under our sole responsibility and belongs to the following product:

PART NUMBER

DESCRIPTION

SERIAL NUMBER

YEAR OF CONSTRUCTION



The object of the declaration described above is in conformity with the relevant **Statutory Requirements**:

- | | |
|------------------------|--|
| - 2008 No. 1597 | Supply of Machinery (Safety) Regulations 2008 |
| - 2016 No. 1091 | Electromagnetic Compatibility Regulations 2016 |
| - 2016 No. 1101 | The Electrical Equipment (Safety) Regulations 2016 |
| - 2012 No. 3032 | The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 |

The following designated standards and technical specifications have been applied:

- | | |
|-------------------------------|---|
| - BS EN ISO 12100:2010 | Safety of machinery |
| - BS EN 60204-1:2018 | Safety of machinery. Electrical equipment of machines - General requirements |
| - BS EN ISO 4871:2009 | Acoustics. Declaration and verification of noise emission values of machinery and equipment |

Technical files are held by **Daniel Rowledge** at the Trelawny address stated above.

Approved Body:

Not Applicable. Machinery is not listed under ANNEX IV of the Supply of Machinery (Safety) Regulations 2008

Place of Declaration:

Trelawny SPT Ltd, 13 Highdown Road, Sydenham Industrial Estate, Leamington Spa, Warwickshire, CV31 1XT, GB

Date of Declaration:

December 2024

Signed by:



Daniel Rowledge
Managing Director

DECLARATION OF CONFORMITY

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 týká, je přizpůsobení s zásobou od následující příkazov a jejich pohotovosti: 2006/42/EC Příkaz soustrojí 2014/35/EC Příkaz nízkého napětí (upotřebitelné jediné do výrobku použít elektrické energie)	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: 2006/42/EC Įrangos direktyva 2014/35/EC Žemos įtampos direktyva (taikoma tik elektriniams įrengimams)
DE	Übereinstimmungserklärung Wir, Trelawny SPT Limited erklären, dass unter unserer alleinigen Verantwortung für 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: 2006/42/EC Maschinieriedirektive 2014/35/EC Niederspannungsrichtlinie (nur zutreffend auf Produkte, die Strom benutzen)	MT	DIKJARAZZJONI TA KONFORMITA Ahna, Trelawny SPT Limited Niddikjaraw li ahna responsabbli kompletament għal provista / manifattura tal-prodott hawn 1msemmi: Isem il-Prodott Muġelli, 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: 2006/42/EC Machinery Directive 2014/35/EC Low Voltage Directive (tapplika biss għal prodotti li jahdmu bl-elettriku)
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 Produktionsår For hvilket dette dokument referer, at de er i overensstemmelse med bestemmelser af følgende direktiver, normative dokumenter og deres relevante standard: 2006/42/EC Machinery directive 2014/35/EC Low voltage directive	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: 2006/42/EC MACHTINERIECHTLIJN 2014/35/EC LAAGSPANNINGSRICHTLIJN (uitsluitend van toepassing bij producten die elektrische stroom gebruiken)
EE	TOOTE VASTAVUSE DEKLARATSIOON Meie, Trelawny SPT Limited Deklareerime, et vastutame järgmise varustuse/toote müügi eest Toote nimetus Mudel, Seeria number Aasta tootangu Antud dokument tõendab toote vastavust järgmistele direktiividele, normatiivaktidele ja nendega samaväärsetele standarditele: 2006/42/EC MASINIA DIREKTIIVID 2014/35/EC MADALPINGE DIREKTIIVID (Kohandatakse vaid toodetele, mis kasutavad elektrivoolu)	PL	Deklaracja Zgodności My, Firma Trelawny SPT Limited. oświadczamy w naszej odpowiedzialności, że produkcja i dostawa urzctdzien Nazwa produktu Model, numer seryjny Rok produkcji do którego ten dokument należy, jest zgodne z klauzulami następujących zarządzeń i ich istotnych standardów: 2006/42/EC Zarządzenie mechaniczne 2014/35/EC Zarządzenie niskiego napięcia elektrycznego (Zastosowanie tylko przy urządzeniach elektrycznych)
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 quien este documento se refiere, está de acuerdo con lo relacionado en la Directriz, Normativa Documentada y sus relevantes standards: 2006/42/EC Directorio de Maquinaria 2014/35/EC Directorio de Bajo Voltaje (Aplicable solamente a productos que funcionen con electricidad)	PT	DECLARAÇÃO DE CONFORMIDADE CE A empresa TRELAWNY SPT LIMITED Declara, sob sua inteira responsabilidade, que o fornecimento/fabrico do seguinte produto: Designação do produto Modelo, Número de Série Ano de produção a que esta declaração se refere, está em conformidade com o preceituado nas Directivas e Normas Comunitárias abaixo indicadas: 2006/42/EC DIRECTIVA DE MÁQUINAS 2014/35/EC DIRECTIVA DE BAIXA VOLTAGEM (Aplicável apenas a produtos que utilizi am energia eléctrica)
FI	ILMOITUSVAHVISTUS Me, Trelawny SPT Limited Vahvistamme tuotteen toimittamisesta/valmistamisesta Tuotteen Malli, sarjanumero Valmistusvuosi Tällä todistuksella vahvistamme saadokset seuraavin ohje/ohjeisin, Yleisin papereihin ja niihin liittyvät vaatimukset: 2006/42/EC KONEISTON OHJEET 2014/35/EC PIENJÄNNITTE OHJEET (tarvitaan ainoastaan tuotteille jotka käyttävät sähkövoimaa)	RU	СВИДЕТЕЛЬСТВО О СООТВЕТСТВИИ Мы, Trelawny SPT Limited Завяляем, что несем полную ответственность за поставку/производство нижеуказанной продукции Наименование изделия Модель, серийный номер Год выпуска на которую выдано настоящее Свидетельство, и которая соответствует положениям следующей(их) директив(ы), нормативным документам и относящимся к ним стандартам: 2006/42/EC ДИРЕКТИВА ПО МЕХАНИЗМАМ 2014/35/EC ДИРЕКТИВА ПО НИЗКОВОЛЬТНОМУ ОБОРУДОВАНИЮ (распространяется только на изделия с электропитанием)
FR	DÉCLARATION DE CONFORMITÉ Nous, soussignés Trelawny SPT Limited déclarons que le produit sous-nommé Nom du produit Modèle et Numéro de Série Année de production et pour lequel nous prenons entière responsabilité pour sa fourniture et manufacture, est conforme aux clauses des directives suivantes documents nominatifs et normes qui s'y appliquent: 2006/42/EC DIRECTIVE POUR LA MACHINERIE 2014/35/EC DIRECTIVE POUR BAS VOLTAGE (n'est applicable qu'aux produits utilisant l'énergie électrique)	SE	FÖRSÄKRAN OM ÖVERENSSTÄMMELSE VI, TRELAWNY SPT LIMITED FÖRKLARAR ATT VI MED ENSAMT ANSVAR ANSKAFFAT / TILLVERKAT PRODUKTEN PRODUKTNAMN MODELL och SERIE NUMMER Tillverkningsår TILL VILKEN DETTA DOKUMENT HÄNVISAR ÄR I ÖVERENSSTÄMMELSE MED FÖLJANDE DIREKTIV, NORMATIVA DOKUMENT OCH DERAS RELEVANTA STANDARDER 2006/42/EC MASKINDIREKTIV 2014/35/EC LÅGSTRÖMSDIREKTIV (TILLÄMPLIG PÅ ELEKTRISK DRIVNA PRODUKTER)
GR	ΔΗΛΩΣΗ ΠΙΣΤΟΤΗΤΑΣ Η εταιρεία Trelawny Spt Limited Δηλώνει ότι έχει τη μονδική ευθύνη ως κατασκευαστρια / προμηθευτρια του παρακάτω προϊόντος περιγραφή προϊόντος μοντέλο, αριθμός σειράς έτος παραγωγής και στο οποίο αναφέρεται αυτή η δήλωση, είναι συμβατό με τις προδιαγραφές που ορίζονται στις ακόλουθες Κοινοτικές Οδηγίες Ελεγκτικές Διατάξεις κι άλλες σχετικές προδιαγραφές 2006/42/EC ΟΔΗΓΙΑ ΠΕΡΙ ΜΗΧΑΝΗΜΑΤΩΝ 2014/35/EC ΟΔΗΓΙΑ ΠΕΡΙ ΧΑΜΗΛΗΣ ΤΑΣΗΣ (αφορά μόνον προϊόντα που λειτουργούν με ηλεκτρικό ρεύμα)	SI	IZJAVA O SKLADNOSTI Trelawny SPT Limited pod polno odgovornostjo izjavljamo, da so spodaj navedeni proizvodi, ki jih dobavljamo/produciramo: 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: 2006/42/EC DIREKTIVA O STROJIH 2014/35/EC DIREKTIVA O STROJIH Z NIZKO VOLTAŽO (nanaša se samo na proizvode na električni pogon)
HU	MEGFELÉLŐSÉGI NYILATKOZAT Mi, A "Trelawny SPT Limited" cég Felelősségünk tudatában kijelentjük, hogy mint a termék szállítója/gyártója Termék neve Típus, Sorozatszám Gyártási év amelyre jelen dokumentum vonatkozik, megfelel az alábbi Irányelv(ek), Irányadó Dokumentumok előírásainak, és az azokat meghatározó szabványoknak: 2006/42/EC GÉPÉSZETI IRÁNYELVEK 2014/35/EC KISFESZÜLTÉSÉG IRÁNYELVEK (Csak az elektromos meghajtású gépeknél)	TR	UYGUNLUK BEYANI Trelawny SPT Limited Aşağıdaki, üretim ve tedarikinden tek başına sorumlu olduđu ürünün Ürün adı Model/Seri no Üretim yılı bu belgenin ilgili olduđu aşağıdaki yönetmeliklerin, norm belgelerinin ve ilgili standartları/nın koşullarına uygun olduđunu beyan eder: 2006/42/EC MAKÝNALAR YÖNETMELÝĐÝ 2014/35/EC DÜŞÜK GERÝLÝM YÖNETMELÝĐÝ (Yalnız elektrikale çalıyan ürünlerde geçerlidir)
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 alle seguenti Direttive, ai documenti della Normativa ed ai relativi standard: 2006/42/EC DIRETTIVA SULLE APPARECCHIATURE 2014/35/EC DIRETTIVA SUL BASSO VOLTAGGIO (applicabile esclusivamente per prodotti che utilizzano energia elettrica)		

HAND ARM VIBRATION

Trelawny Equipment 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 and dry.

Employers should consider setting up a programme of health surveillance to establish a benchmark for each operator and to detect 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.

WARRANTY

When you choose TRELAWNY, you're investing in a product engineered for strength, durability, and unwavering reliability. Our equipment is built to endure the toughest challenges, showcasing over 80 years of craftsmanship in Surface Preparation Technology. We take pride in being the industry benchmark, offering not just a tool but a lasting companion for tough jobs, backed by a 12-month warranty for peace of mind.

Register your TRELAWNY product within 30 days of purchase by scanning the QR code to activate your warranty and enjoy the full support from our team.

PLEASE RETAIN YOUR PROOF OF PURCHASE, AS IT WILL BE REQUIRED TO PROCESS ANY WARRANTY CLAIMS.

The following are not covered under the Trelawny warranty:

- Damage caused by abuse, misuse, dropping or other similar damage caused by or as a result of failure to follow assembly, operation or user maintenance instructions.
- Alterations, additions or repairs carried out by persons other than Trelawny or their recognised agents.

- Transportation costs to and from Trelawny or their recognised agents, for repair or assessment against a warranty claim, on any equipment.
- Materials and/or labour costs to renew, repair or replace components due to fair wear and tear.

In no case whatsoever shall the Customer be entitled to claim damages, in particular but not be limited, loss of profit and other direct or indirect or consequential damage. This exclusion of liability, however, does not apply to unlawful intent or gross negligence on our part, but does apply to unlawful intent or gross negligence of persons employed or appointed by us to perform any of his obligations.



All warranty claims should firstly be directed to Trelawny SPT Ltd. Please provide, part number, serial number and proof of purchase, either by telephone or E-mail.

Tel: +44 (0)1926 883781

Email : warranty@trelawny.com

GENERAL SAFETY

DO:

- Wear personal protective equipment including safety goggles, footwear, ear defenders and gloves. In some environments it will be necessary to wear facemasks or breathing apparatus.
- Be aware that this equipment can create dust and flying debris.
- Keep hands, feet and clothing away from moving parts.
- Follow the prestart checks detailed in this manual.
- Ensure that the workplace is well ventilated.
- Be aware of others working around you.
- Always follow safe-working practices.
- Inspect the equipment prior to using.
- Store this equipment in a secure and dry environment.

DO NOT:

- Modify this equipment in any way. This will invalidate the warranty and could lead to serious injury.
- Allow the equipment to run unattended.
- Use petrol (gasoline), thinners or any other high flash point solvent to clean the equipment.
- Disassemble or repair unless Trelawny trained.
- Permanently fix the operating lever or button in the on/run position.

PRE START CHECKS (DAILY)

ELECTRIC PRODUCTS

- Check that the power supply on site is suitable for the equipment.
- Ensure all extension cables are fully uncoiled and never left wrapped around cable reels or tied in loops.
- Check all cable connections are secure and not damaged.
- Read the 'Power supply' section for specific cable and power configurations.

PETROL PRODUCTS

- Check engine oil level. If the engine oil level is low, refill with the relevant motor oil.
- Check there is sufficient fuel in the fuel tank.
- Check the air cleaner elements are clean and in good condition. Clean or replace the elements if necessary.
- Read the engine manufacturers operating and maintenance manual for detailed servicing instructions.

GENERIC CHECKS

- Check all bolts and screws for tightness. Ensure all fittings are secure.
- Check the drive belt tension. There should 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 and Adjustment section.
- Check condition of the grinding disc and replace components as required.
- Ensure there is no excessive debris present on the machine.

ELECTRIC POWER SUPPLY

ALL ELECTRIC MODELS

The TCG500 is supplied with a specially commissioned electric motor and starter box assembly. Each unit is fully tested and have been calibrated and set according to the manufactures 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 from damage. The starter boxes are pre-set and under no circumstances should they be tampered with, stripped down or adjusted, otherwise it will invalidate the warranty. The starter control box must only be accessed by a fully trained person or electrically qualified engineer.

110v MODELS

Use a centre tap transformer with a continuous rated output of 5.0KVA. Do not add an extension lead to the transformer input. The motor requires the minimum of a 32amp, 110v power supply.

To avoid Voltage drop Trelawny recommends a maximum cable length of 20m with a core wire size of 4mm² cross sectional area. The use of 2.5mm 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.

230v MODELS

Take particular care when using 230v 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. Always use the shortest possible length of extension cable.

To avoid Voltage drop Trelawny recommends a maximum cable length of 40m with a core wire size of 4mm² cross sectional area.

400v MODELS

Take particular care when using 400v Machines, ensure that the electrical supply is earthed and that breakers and fuses are correct for the loading. The 400v motor requires the minimum of a 10amp, 380v power supply. Always use the shortest possible length of extension cable.

To avoid Voltage drop Trelawny recommends a maximum cable length of 40m with a core wire size of 4mm² cross sectional area.

TRELAWNY APPROVED EXTENSION CABLES

Part Code	Description
669.3121	20m 110v 32amp power cable with sockets
669.3122	20m 230v 16amp power cable with sockets
669.3124	20m 400v 16amp power cable with sockets

STARTING WORK

- Manually remove any nails, studs, pins, rebar etc. from the area before starting work. Attempting to grind with such items in place will damage the disc and/or machine.
- The Trelawny TCG500 can be fitted with a range of different grinding tool options for preparation of a range of substrates and surface preparation applications.
- Selecting the correct tooling for the application is critical to achieve the best performance an surface finish. Trelawny offers diamond tooling in two ranges:
- Replaceable 250mm diamond grinding discs are available in 3 bonds (soft, medium and hard) in 10,16 and 20 segment varieties.
- Quick release (QR) diamond tooling offers a wider range of application solutions. See pages 16 and 17 for further information.

ALL ELECTRIC MODELS

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.

- Plug the supply cable into the inlet plug and turn the isolator to the on position.
- Tilt machine backwards so the grinding discs are not in contact with the surface.
- Press and hold the run button and the motor will start. Release the button to stop the motor.
- Allow the motor to get up to speed, then lower the machine gently onto the surface.
- NOTE: If the isolator will not turn on, unplug the supply cable and turn the isolator on and off, this resets the overload in the motor breaker, then plug the supply cable back in to operate.

VOLTAGE INDICATOR (2025+ Models)

- A consistent and adequate power supply is critical for the reliable operation of electric tools and machinery. Insufficient voltage can lead to sub-par performance and potentially cause costly damage to motors and electrical components.
- All 110, 230v & 400v models produced from January 2025 (Serial Number T2500000+) are fitted with a digital voltmeter as standard.
- The indicator is activated when the isolator switch is turned to the 'on' position.
- **Always** check the supply voltage before powering the motor.
- If you identify a higher or lower than required voltage level, turn off the machine and check the power source.
- Long power cable runs can potentially cause voltage drop. Refer to the 'Electric power Supply' section for further information.

VOLTAGE TOLERANCES*

- Actual supply voltage can vary from region to region. Trelawny recommends the following voltage brackets for its equipment:

110v

99v minimum - 121v maximum

230v

207v minimum- 253v maximum

400v

357v minimum- 440v maximum

***NOTE:** These are Approximate voltage ranges, if the number displayed is substantially higher or lower than either end of the voltage range detailed above, then please check your power supply.

PETROL MODELS

- 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.
- Raise machine onto its stand and press the Hold to Run button. 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.

NOTE: 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.

OPERATION

GENERAL INFORMATION

- 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.
- 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.

STARTING THE MACHINE

- Ensure the Diamond disc or QR segments are fastened securely.
- Ensure the front brush shroud is in contact with the surface. This can be adjusted by loosening the 4 x Wing Screws (52) and setting accordingly.
- Connect a suitable commercial dust extractor.
- Follow the starting procedure detailed within the 'Starting work' section.

STOPPING THE MACHINE

- Tilt the machine to lift the grinding heads from the surface and, whilst tilted, release the 'Hold to Run' button to stop the machine.

MACHINE OPERATION

- Complete a small area observing the performance, if necessary change the grade of grinding tools and recheck performance and surface finish.
- Move the machine slowly backwards and forwards, slightly swinging the grinding head right and left; this will ensure that a uniform finish is achieved.
- Let the machine do the work. Do not lift the handle to apply additional pressure to the grinding head.
- DO NOT apply additional weight(s) to the grinding head.
- DO NOT leave the machine running and unattended at any time.
- PPE must be worn at all times.

SHUTDOWN

SHUT DOWN

- The Diamond disc or QR segments can become hot during operation. Allow adequate time for these to cool down before cleaning the machine.
- Use the 'jacking Stand' 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.
- Clean off any concrete dust from external components and remove any heavy build up of concrete dust from inside the front dust skirt.
- Take care when using hoses or pressure washers and clean within the dust skirt area only. Do not allow water to be directed at or splashed onto the motor or any electrical components. Once clean and dry, cover the machine to protect it and store the grinder in a dry place.

MACHINE STORAGE

Short period storage: up to 3 months

- Remove battery and store in a dry place.
- Clean outside of machine, inspect the moving parts for wear; replace any worn parts as required.
- Remove any build up of material from inside the mechanical area.
- Cover the machine to protect it: Store in a dry place.
- Check security of all fastenings after any lay up period. See also motor manufacturer's operation and maintenance instruction book.

Long period storage: over 3 months

- Remove battery and store in a dry place.
- Clean the outside of the machine, inspect for wear; replace any worn parts as required.
- Remove any build up of material from inside the mechanical area.
- Cover the machine to protect it: Store in a dry place.
- After any long lay up period be sure to check the security of all fastenings.

SERVICING & MAINTENANCE

SAFETY

- Only a competent person, in a suitably equipped workshop, must carry out maintenance.
- **ALWAYS** read and understand the operators manual before carrying out any maintenance.
- Before carrying out any maintenance switch off the motor and remove the battery.
- Use personal protective equipment when carrying out any maintenance or servicing.
- DO NOT use a Pressure Washer on the machine.

GENERAL MAINTENANCE

- After use, clean the machine to remove all build up of dust and surface residues.
- Check the drive elements for build up of deposits and any trapped debris etc. Check the underside for damage. Serious damage could result to the drive shaft, bearings and drive motor if the mechanism is obstructed.

BELT REMOVAL

- Remove the top cover by unscrewing the two 10mm wing bolts either side of the chassis.
- Loosen the engine/motor mounting plate bolts and slide the engine/motor forward.
- Slide the V belts off the drive pulley and then remove them from the engine/motor pulley.

BELT INSTALLATION

- Slide the new belts onto the engine/motor pulley first, locating the belt in the grooves. Then slide onto the drive pulleys.
- Slide the engine/motor backwards until the slack in the belt is taken up, gently nip the four bolts and ensure the slack in the belt is correct.
- If the tension needs adjusting move the motor mounting plate in the desired direction until the correct tension is achieved.
- Tighten all engine/motor mounting plate bolts fully, refit the top cover and tighten the 10mm wing nuts.

BRUSH SEAL REPLACEMENT

- The machine is fitted with a flexible brush seal which will need replacement from time to time to maintain the efficiency of the dust control system.
- Remove front dust skirt from the machine.
- Drill out rivets and to remove the brush simply grasp one end and pull, the brush will come off the guard.
- To fit the new brush, align one end of the brush with the end of the guard and use a suitable drift to knock the brush onto the metal guard, working along until it is securely fitted.
- Fit new rivets if required.

GRINDING TOOL REMOVAL - SAFETY

- Place the machine on a flat and level surface.
- Raise the front skirt by loosening the four 10mm guard retaining bolts on either side of the machine and slide the guard up to the top of the slots, tighten the bolts temporarily.
- Tilt the machine backwards to rest on its handle bar.
- Place a heavy object (10kg sand bag, etc.) across the upper part of the handle bar or tie down for additional security.

GRINDING DISC OR QUICK RELEASE PLATE REPLACEMENT

- Insert a 10mm Allen key into the grinding plates centre spigot.
- Firmly grip the 10mm Allen key to prevent the disc from rotating and remove the 4 x M12 countersunk screws from the disc with a 8mm Allen key. Ensure the disc is supported when removing the last two screws.
- Remove 10mm Allen key. The disc is then free to be removed from the drive plate.
- Offer the new disc or QR Plate up to the drive plate and align the holes using the central locking spigot.
- A sharp tap with a plastic faced hammer will help locate the plate over the O'ring and onto the spigot.
- Loosely fit the 4 x M12 countersunk screws.
- Insert the 10mm Allen key into the centre spigot & grip firmly.
- Tighten the 4 x M12 countersunk screws in a diagonal sequence to 40lb/ft.

QR TOOLING - FITMENT

- the QR tool holding plate features integrated magnets which help locate and secure the QR tools.
- Offer up each tool and firmly slide to locate the bevelled tool edges into each location on the tool holding plate. For added security while fitting give each tool a firm tap with a plastic faced hammer.
- In operation the centrifugal force of the grinding head will keep the QR tools securely in place.
- The QR tool plate can hold a maximum of 6 QR tools. A half set of 3 QR tools can be used to increase grinding pressure for specific applications.
- If using Resin polishing tools a maximum of 3 Velcro polishing tool adaptors (350.5666) can be fitted.

QR TOOLING - REMOVAL

- Firmly hold the QR tool and using a plastic faced hammer give the outside edge of the tool a sharp tap to release the tool from its bevelled retainer on the tool holding plate. Dispose of the used item according to local legislation.

MAINTENANCE SCHEDULE

MAINTENANCE	EACH USE	30 HRS	70 HRS
Examine the general condition of the machine	✓		
Check vacuum port for blockages	✓		
Clean external surfaces of the machine	✓		
Check all bolts and screws for tightness	✓		
Check condition and fitment of grinding media	✓		
Check drive belt tension	✓		
Check fuel level	✓		
Check oil level	✓		
Check Spark Plug		✓	
Clean air filter		✓	
Perform electrical inspection		✓	
Replace front and rear dust seals		✓	
Check belt for damage and re-tension		✓	
Replace engine oil			✓
Clean and grease bearings . Replace if necessary			✓
Replace belt			✓
Strip down and service machine			✓

PPE & WARNING SYMBOLS

SYMBOL / WARNING	DESCRIPTION	SYMBOL / WARNING	DESCRIPTION
	ALWAYS Read the manual		Wear protective face mask
	Wear protective glasses		DO NOT pressure wash the powerhead
	Wear ear defenders		Caution assisted lift only
	Wear protective shoes		Caution crush point
	Wear protective gloves		Caution pinch point

TROUBLE SHOOTING

FAULT	POSSIBLE 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 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 tools fitted.	Check grinding discs for any damage, replace if necessary. Fit new grinding tools
Grinder is slow or erratic	Loose or a failed drive belts.	Adjust drive belt, or replace.
	Surface too rough.	Use Trelawny TFP200/260 Surface Planer to produce a flatter surface or to remove bulk of material prior to grinding. Change grinding tools 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 or blown fuse. Incorrect voltage, 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 the problem has not been cured by any of the above actions, contact your local dealership or agent for assistance.		

This exploded view diagram illustrates the assembly of a mechanical device, likely a small-scale motor or pump. The components are numbered 1 through 77. The diagram shows the following main sections:

- Motor Assembly (Top Center):** Includes a motor unit (30), a mounting plate (4), and various fasteners (39, 59, 61, 73, 59, 60, 21, 61, 3, 14, 15, 13, 36).
- Structural Frame (Right):** Features a main frame (52), a support arm (50), and various mounting hardware (2, 35, 43, 1, 34, 28, 37, 68, 49, 47, 49, 72, 48).
- Base and Housing (Bottom):** Shows a base plate (42), a housing (20), and various mounting hardware (45, 61, 41, 59, 29, 33, 74, 70, 32, 60, 59, 26, 10, 61, 12, 40, 24, 23, 77, 6, 8, 7, 65, 66, 67, 71, 54, 31, 46, 59, 61).
- Internal Components (Center):** Includes a central shaft assembly (56, 57, 58, 44, 22, 17, 16, 11, 18) and various bearings and seals (60, 59, 9, 10, 61, 9, 63, 62, 64, 53, 42, 36, 19, 55, 57, 70, 32, 60, 59, 26, 10, 61, 12, 40, 24, 23, 77, 6, 8, 7, 65, 66, 67, 71, 54, 31, 46, 59, 61).

The diagram uses dashed lines to indicate the assembly path and alignment of the components.

PARTS LIST - ELECTRIC MACHINES

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	875.1494	Flanged Nyloc Nut	3	38	831.0860	Hex Head Bolt	1
2	320.9310	Plain Washer	3	39	831.1040	Hex Head Bolt	4
3	350.6011	E/Motor Pulley Spacer 2.2kw	1	40	831.4120	Eye Bol	2
3a	350.6012	E/Motor Pulley Spacer 5.5kw	1	41	841.4070	Blanking plug	4
4	993.1034	Mounting Plate - 110v & 230v	1	42	841.4080	Blanking plug	2
4a	993.1043	Mounting Plate - 400v	1	43	841.4060	Blanking plug	2
5	993.9009	Front Skirt c/w Brush Seal	1	44	848.0606	Grub Screw	2
6	350.9110	Axle Shaft	1	45	857.1020	Wing Knob	4
7	350.9111	Axle Mounting brkt	2	46	857.1020	Wing Knob	2
8	350.9113	Axle Mounting Nut	2	47	861.2018	Push Button Assembly	1
9	350.9115	Bearing Assembly 20mm	2	48	872.0416	Pan Head Screw	1
10	350.9116	Bearing Assembly 25mm	4	49	861.4018	Cable Gland - Black	1
11	350.9118	Drive Shaft (Small Gear)	1	50	861.2003	110V - 32A Electrical Starter	1
12	350.9119	Driven Shaft (Large Gear)	2	50a	861.2005	230V - 16A Electrical Starter	1
13	350.9123	Elec Pulley Retaining Washer	1	50b	861.2009	415V - 11A Electrical Starter	1
14	350.9124	Drive Pulley V-belt Taperlock	1	51	861.2024	Rubber Washer	3
15	350.9124A	Drive Pulley Bush	1	52	993.0010	One Piece Handle Black	1
16	350.9127	Driven Pulley	1	53	993.0023	Top Plate (Gear housing) Black	1
17	350.9127A	Driven Pulley Bush	1	54	993.9007	Vacuum Take Off Assembly	1
18	350.9128	Drive Gear	1	55	993.0006	Chassis & Gearbox	1
19	350.9129A	Driven Gear	2	56	320.9131	Key Drive Pulley	2
20	350.9130	Top Cover	1	57	350.9139	Driven Shaft Spacer	3
21	350.9137	Drive Belt	2	58	824.0024	Thin Nut	1
22	350.9139A	Top Gearbox Pulley Spacer	1	59	812.0710	Washer, Zinc Plated	41
23	350.9143	Diamond Plate Adaptor Assembly	2	60	824.1000	Nyloc Nut	50
24	350.9146	Flexible Drive Coupling	2	61	811.1010	Shakeproof Washer	7
25	350.9148	Key	1	62	831.0616	Hex Head Bolt	10
26	350.9150	Key	2	63	812.1060	Plain Washer	9
27	350.9155	Engine Adjuster Bolt	1	64	811.1006	Shakeproof Washer	1
28	350.9165	Handle Clamping Plate	2	65	350.9121	Wheel	2
29	350.9170	Blanking Plate	1	66	812.1001	Plain Washer	4
30	350.9570	Electric Motor 110v 50Hz	1	67	814.1020	Circlip	4
30a	350.9560	Electric Motor 230v 50/60Hz	1	68	834.0500	Nyloc Nut	8
30b	350.9575	Electric Motor 400v 50/60Hz	1	69	812.0500	Plain Washer	7
31	719.3250	Vacuum Hose	0.275	70	811.1008	Shakeproof Washer	2
32	806.1060	Cap Head Bolt	12	71	831.0825	Hex Head Bolt	2
33	812.1080	Plain Washer	5	72	811.1004	Shakeproof Washer	1
34	815.0020	Cable Tie (Push in lock)	3	73	831.1030	Hex Head Bolt	4
35	822.2000	Rubber Grip	2	74	824.0800	Nyloc Nut	4
36	824.2400	Nyloc Nut	2	75	811.0800	Spring Washer	2
37	830.2000	Mounting Pad	4	76	831.0820	Hex Head Bolt	1

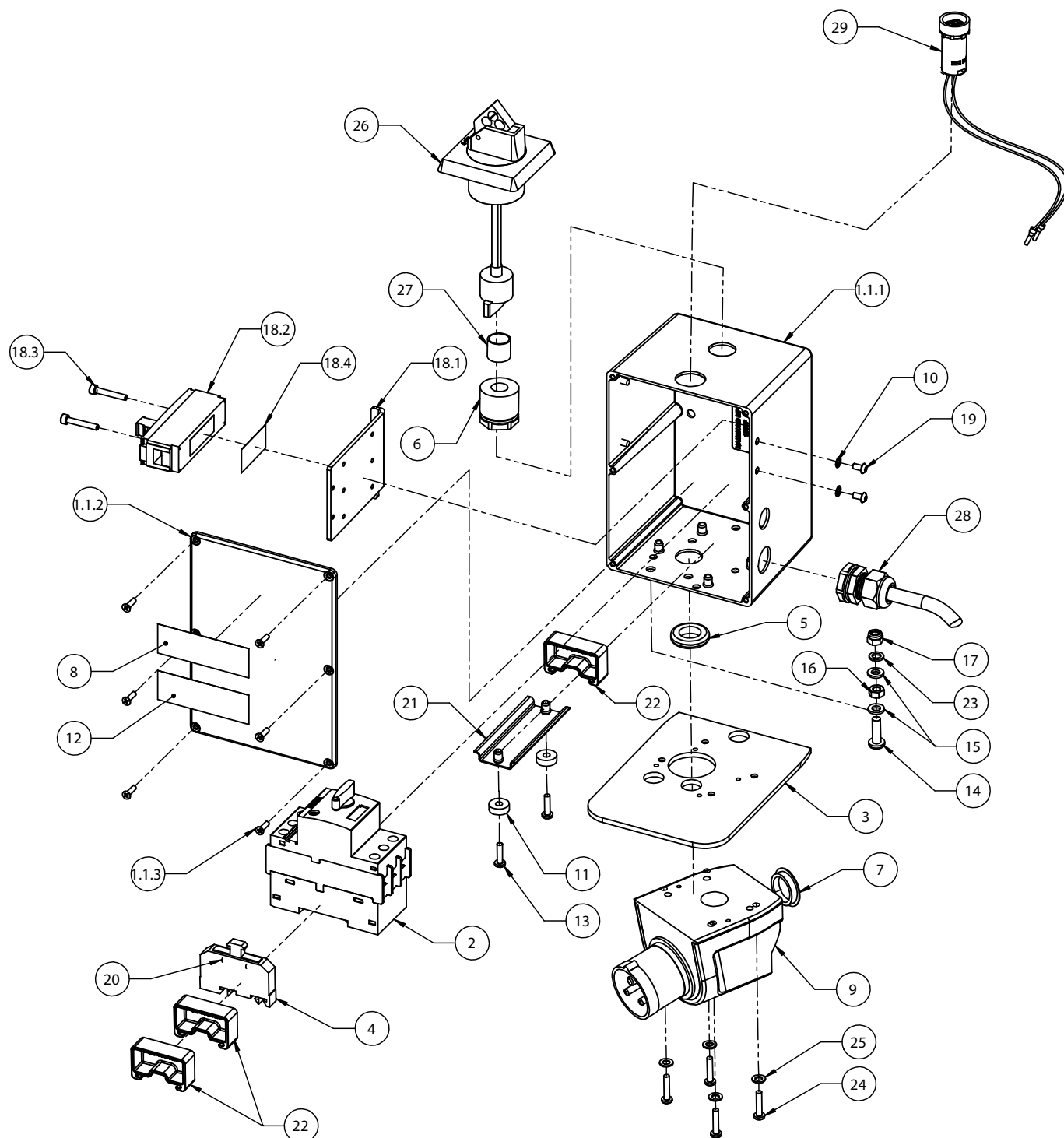
This exploded view diagram illustrates the assembly of a motorized vehicle chassis. The components are numbered 1 through 91. The diagram shows the following parts and their assembly relationships:

- Motor and Gear Assembly (Top):** Includes the motor (82), gear (78), and various mounting brackets and bolts (7, 24, 49, 40, 32, 48, 14, 6, 34, 16, 32, 23, 56, 40, 49, 86, 55).
- Chassis Frame (Center):** The main structural component (17) with mounting points for the motor, wheels, and suspension. It includes a battery tray (87) and various mounting brackets (28, 41, 47, 30, 64, 87).
- Wheels and Axles (Bottom):** Shows the wheels (64, 66, 68, 69) and axles (76, 77) with various bearings, bushings, and bolts (31, 15, 60, 66, 67, 71, 65, 61, 28, 41, 47, 30, 64, 87, 61, 43, 59, 45, 43, 31, 88, 89, 90, 91, 12, 26, 49, 40).
- Control and Safety Components (Right):** Includes the throttle lever (52), brake pedal (51), and various mounting brackets and bolts (11, 43, 45, 19, 29, 44, 36, 21, 58, 44, 17, 6, 34, 16, 32, 23, 56, 40, 49, 86, 55).
- Assembly Instructions:** The diagram includes several callouts (e.g., 45, 43, 31, 15, 60, 66, 67, 71, 65, 61, 28, 41, 47, 30, 64, 87, 61, 43, 59, 45, 43, 31, 88, 89, 90, 91, 12, 26, 49, 40) indicating the correct orientation and placement of the components.

PARTS LIST - PETROL MACHINES

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	993.9007	TCG500 Vacuum Take Off Assembly	1	48	811.1004	Shakeproof Washer	1
3	993.0023	Top Plate (Gear housing)	1	49	811.0800	Spring Washer	8
5	993.0010	TCG500 One Piece Handle	1	50	806.5610	Cap Head Bolt	2
6	861.2015	Push Button Assembly	1	51	806.3810	Cap Head Bolt	1
7	861.4018	Cable Gland	1	52	719.3250	Vacuum Hose	0.275
9	812.1040	Plain Washer	1	53	712.3022	Valve Spring	2
10	872.0416	Pan Head Screw	1	54	350.9190	Retaining Washer	1
11	857.1020	Wing Knob	2	55	350.9186	Knob	1
12	350.5620B	Grinding Disc 20 Segment	2	56	350.9182	Friction Washer	1
13	857.1020	Wing Knob	4	57	350.9165	Handle Clamping Plate	2
14	852.0408	Button Head Screw	1	58	350.9155	Engine Adjuster Bolt	1
15	848.0606	Grub Screw	2	59	350.9150	Key	2
16	841.4060	Blanking plug	3	60	350.9139A	Top Gearbox Pulley Spacer	1
17	841.4080	Blanking plug	2	61	350.9139	Driven Shaft Spacer	3
18	841.4070	Blanking plug	2	62	350.9137	Drive Belt	2
19	834.0500	Nyloc Nut	8	63	350.9130	Top Cover	1
20	832.1050	Split pi	1	64	350.9129A	Driven Gear	2
21	831.4120	Eye Bolt	2	65	350.9128	Drive Gear	1
22	831.1030	Hex Head Bolt	4	66	350.9127A	Driven Pulley Bush	1
23	831.0870	Hex Head Bolt	1	67	350.9127	Driven Pulley	1
24	831.0845	Hex Head Bolt	2	68	350.9126A	Clutch Assembly N1 Shaft	1
25	831.0825	Hex Head Bolt	2	69	350.9121	Wheel	2
26	831.0820	Hex Head Bolt	1	70	350.9119	Driven Shaft	2
27	831.0625	Hex Head Bolt	1	71	350.9118	Drive Shaft	1
28	831.0616	Hex Head Bolt	10	72	350.9116	Bearing Assembly 25mm	4
29	830.2000	Mounting Pad	4	73	350.9115	Bearing Assembly 20mm	2
30	824.2400	Nyloc Nut	2	74	350.9113	Axle Mounting Nut	2
31	824.1000	Nyloc Nut	46	75	350.9111	Axle Mounting brkt	2
32	824.0800	Nyloc Nut	7	76	350.9110	Axle Shaft	1
33	824.0024	Thin Nut	1	77	993.9009	TCG500 Front Skirt c/w Brush Seal	1
34	822.2000	Rubber Grip	2	78	993.1034	Mounting Plate	1
35	816.3250	Ball bearing	1	79	350.7550	Lift Handle	1
36	815.0020	Cable Tie (Push in lock)	4	80	350.7540	Lift Shaft	1
37	814.1020	Circlip	4	81	350.7530	Lift Foot	1
38	813.1060	R - Clip	1	82	345.9500	Honda 5.5hp GXV160 engine	1
39	812.2080	Mudguard Washer	1	83	345.9150	Woodruff Key	2
40	812.1080	Plain Washer	12	84	320.9131	Key Drive Pulley	2
41	812.1060	Plain Washer	10	85	350.7520A	Lift Plate	1
42	812.1001	Plain Washer,	4	86	350.9180	Throttle Lever	1
43	812.0710	Washer, Zinc Plated	34	87	993.0006	Chassis & Gearbox	1
44	812.0500	Plain Washer	7	88	350.9143	Diamond Plate Adaptor Assembly	2
45	811.1010	Shakeproof Washer	5	89	350.9146	Flexible Drive Coupling	2
46	811.1008	Shakeproof Washer	3	90	350.9141	Countersunk Screw	8
47	811.1006	Shakeproof Washer	1	91	806.1060	Cap Head Bolt	12

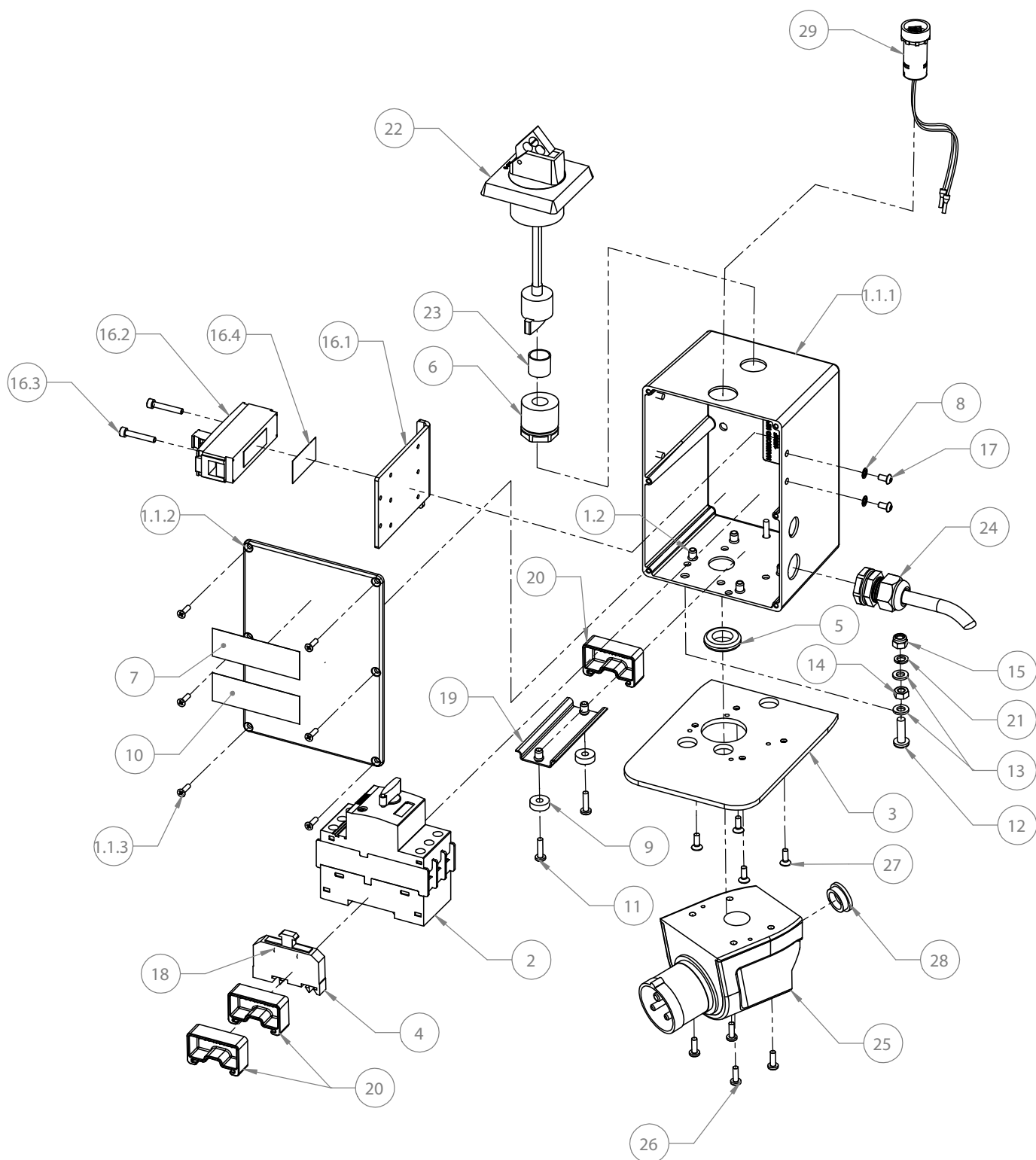
EXPLODED VIEW - 110v CONTROL BOX



PARTS LIST - 110v CONTROL BOX

ITEM NO.	PART NO.	DESCRIPTION	QUANTITY
1.1.1	991.0002	Electrical Control Enclosure Assembly	1
1.1.2	N/A	Electrical Control box Lid (Supplied with 991.0002)	1
1.1.3	N/A	Electrical Control Box Screws (Supplied with 991.0002)	6
1.2	825.5004	Rivet Nut	4
2	861.4022	Motor Circuit Breaker	1
3	991.1007	Power Inlet Mounting Plate	1
4	861.4003	Fuse Terminal Block	1
5	861.4005	Round Open Grommet	1
6	861.4006	Flexible Conduit Gland & Nut	1
7	841.4060	Blanking plug	1
8	728.0516	Warning Isolate Elsewhere Label	1
9	861.4032	Power Inlet Plug 110v	1
10	811.1004	Shakeproof Washer	2
11	861.4008	HDPE Spacer	2
12	728.0911	Danger 110V Label	1
13	872.0416	Pan Head Screw	2
14	872.3620	pan Head Screw, Brass	1
15	812.3060	Plain Washer, Brass	2
16	824.3600	Nut, Brass	1
17	824.0600	Nyloc Nut	1
18.1	991.1066	Relay Mounting Bracket	1
18.2	861.4010	Contactor	1
18.3	806.0425	Cap Head Bolt	2
18.4	861.4019	Starterbox Thermal Tape	4cm
19	852.0408	Button Head Screw	2
20	861.4011	1A Quick Blow Glass Fuse	1
21	991.0020	DIN Rail Assembly	1
22	991.1128	DIN Rail Spacer	3
23	811.0600	Spring Washer	1
24	872.0425	Pan Head Screw	4
25	320.9310	Plain Washer	4
26	861.2030	Isolator Switch Assembly	1
27	861.9250	Polypropylene Conduit	1
28	861.3117	110V Motor Cable Assembly	1
29	861.3511	Voltmeter Assembly	1
ITEMS NOT SHOWN			
N/A	861.3112	110V ICF Sub-Assembly (Includes: 2,4,18.1,18.2,18.3,18.4 & 20)	1
N/A	861.3120	110V Box Wire Kit	1
N/A	861.3118	110V Plug Wire Kit	1
N/A	861.2018	Push Button Assembly - TCG250 Electric	1

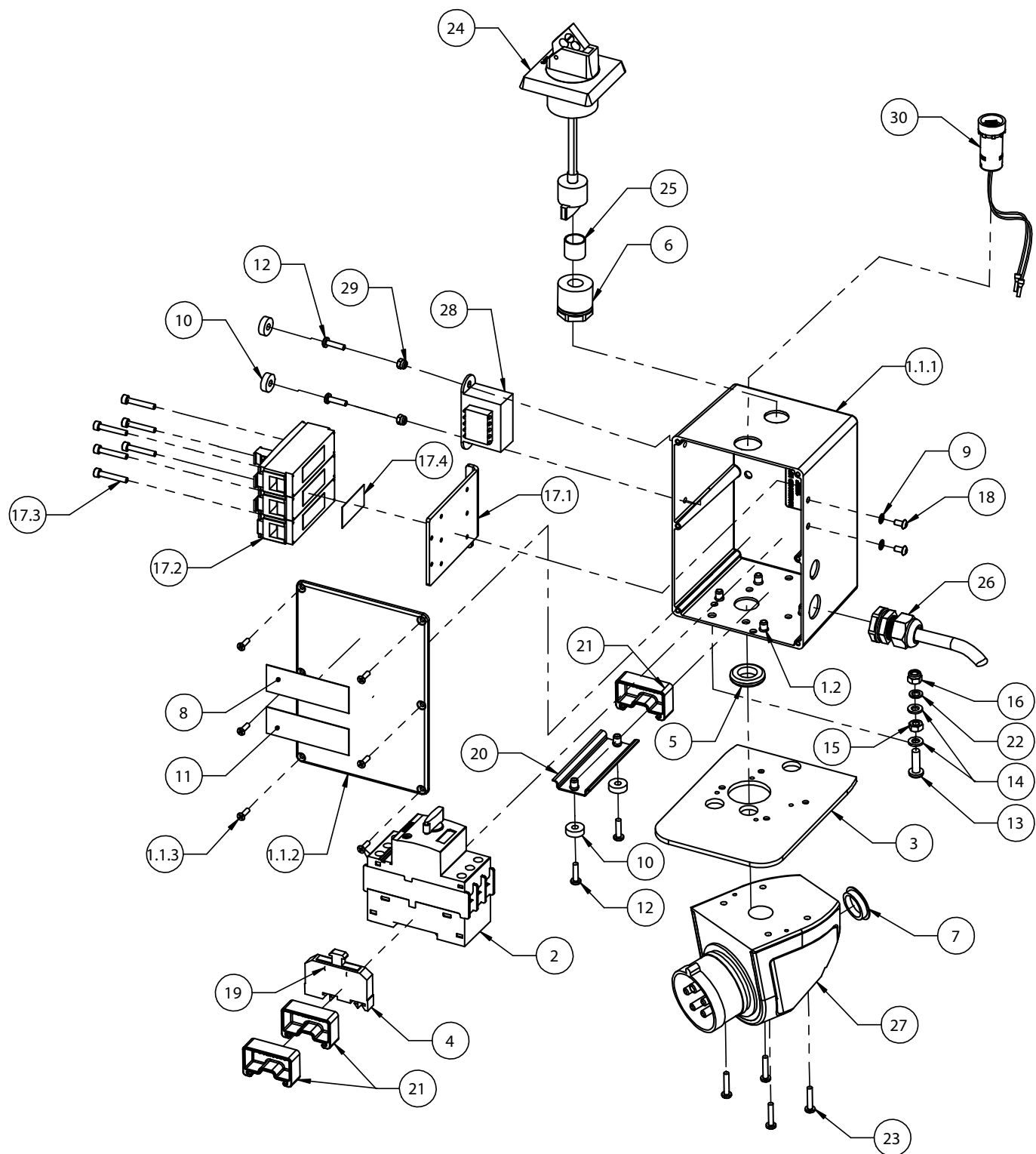
EXPLODED VIEW - 230v CONTROL BOX



PARTS LIST - 230v CONTROL BOX

ITEM NO.	PART NO.	DESCRIPTION	QUANTITY
1.1.1	991.0002	Electrical Control Enclosure Assembly	1
1.1.2	N/A	Electrical Control box Lid (Supplied with 991.0002)	1
1.1.3	N/A	Electrical Control Box Screws (Supplied with 991.0002)	6
1.2	825.5004	Rivet Nut	4
2	861.4024	Motor Circuit Breaker	1
3	991.1007	Power Inlet Mounting Plate	1
4	861.4003	Fuse Terminal Block	1
5	861.4005	Round Open Grommet	1
6	861.4006	Flexible Conduit Gland & Nut	1
7	728.0516	Warning Isolate Elsewhere Label	1
8	811.1004	Shakeproof Washer	2
9	861.4008	HDPE Spacer	2
10	728.0911	Danger 110V Label	1
11	872.0416	Pan Head Screw	2
12	872.3620	Pan Head Screw, Brass	1
13	812.3060	Plain Washer, Brass	2
14	824.3600	Nut, Brass	1
15	824.0600	Nyloc Nut	1
16.1	991.1066	Relay Mounting Bracket	1
16.2	861.4010	Contactor	1
16.3	806.0425	Cap Head Bolt	2
16.4	861.4019	Starterbox Thermal Tape	4cm
17	852.0408	Button Head Screw	2
18	861.4011	1A Quick Blow Glass Fuse	1
19	991.0020	DIN Rail Assembly	1
20	991.1128	DIN Rail Spacer	3
21	811.0600	Spring Washer	1
22	861.2030	Isolator Switch Assembly	1
23	861.9250	Polypropylene Conduit	1
24	861.3217	230V Motor Cable Assembly	1
25	861.4034	Power Inlet Plug 230v	1
26	872.0412	Pan Head Screw	4
27	853.0412	Countersunk Screw	4
28	841.4060	Blanking plug	1
29	861.3511	Voltmeter Assembly	1
ITEMS NOT SHOWN			
N/A	861.3212	230V ICF Sub-Assembly (Includes: 2,4,16.1,16.2,16.3,16.4 & 18)	1
N/A	861.3220	230V Box Wire Kit	1
N/A	861.3218	230V Plug Wire Kit	1
N/A	861.2018	Push Button Assembly - TCG250 Electric	1

EXPLODED VIEW - 400v CONTROL BOX



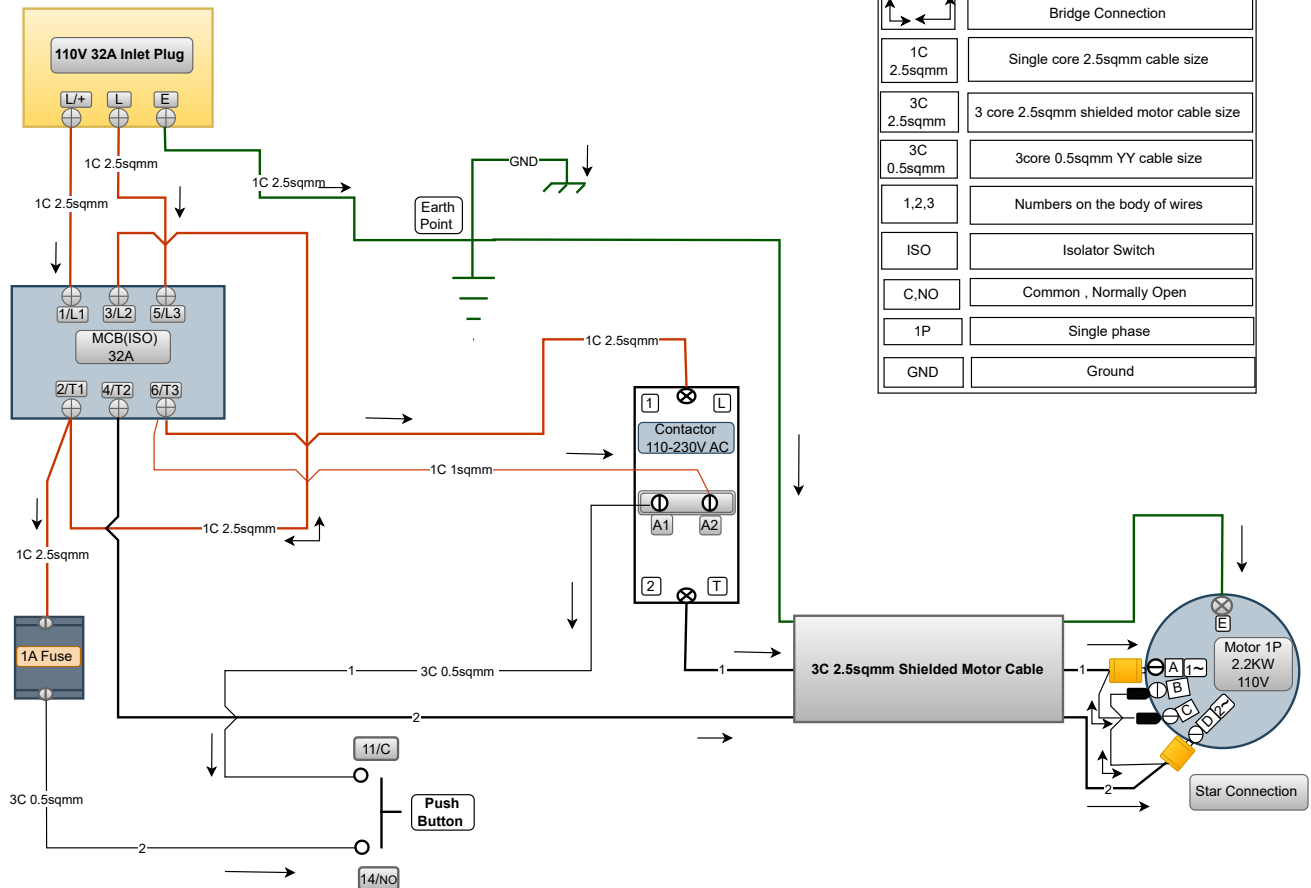
PARTS LIST - 400v CONTROL BOX

ITEM NO.	PART NO.	DESCRIPTION	QUANTITY
1.1.1	991.0002	Electrical Control Enclosure Assembly	1
1.1.2	N/A	Electrical Control box Lid (Supplied with 991.0002)	1
1.1.3	N/A	Electrical Control Box Screws (Supplied with 991.0002)	6
1.2	825.5004	Rivet Nut	4
2	861.4027	Motor Circuit Breaker	1
3	991.1007	Power Inlet Mounting Plate	1
4	861.4003	Fuse Terminal Block	1
5	861.4005	Round Open Grommet	1
6	861.4006	Flexible Conduit Gland & Nut	1
7	841.4060	Blanking plug	1
8	728.0516	Warning Isolate Elsewhere Label	1
9	811.1004	Shakeproof Washer	2
10	861.4008	HDPE Spacer	4
11	728.0941	Danger 415V Label	1
12	872.0416	Pan Head Screw	4
13	872.3620	Pan Head Screw, Brass	1
14	812.3060	Plain Washer, Brass	2
15	824.3600	Nut, Brass	1
16	824.0600	Nyloc Nut	1
17.1	991.1066	Relay Mounting Bracket	1
17.2	861.4010	Contactor	3
17.3	806.0425	Cap Head Bolt	6
17.4	861.4019	Starterbox Thermal Tape	12cm
18	852.0408	Button Head Screw	2
19	861.4011	1A Quick Blow Glass Fuse	1
20	991.0020	DIN Rail Assembly	1
21	991.1128	DIN Rail Spacer	3
22	811.0600	Spring Washer	1
23	872.0425	Pan Head Screw	4
24	861.2030	Isolator Switch Assembly	1
25	861.9250	Polypropylene Conduit	1
26	861.3417	415V Motor Cable Assembly	1
27	861.4036	Power Inlet Plug 415v	1
28	991.1140	Step Down Transformer	1
29	875.1215	Nyloc Nut	2
30	861.3511	Voltmeter Assembly	1
ITEMS NOT SHOWN			
N/A	861.3413	415V ICF Sub-Assembly (Includes: 2,17.1,17.2,17.3 & 17.4)	1
N/A	861.3420	415V Box Wire Kit	1
N/A	861.3418	415V Plug Wire Kit	1
N/A	861.2018	Push Button Assembly - TCG250 Electric	1

WIRING - 110v CONTROL BOX

TCG250 110V 32A Wiring Diagram

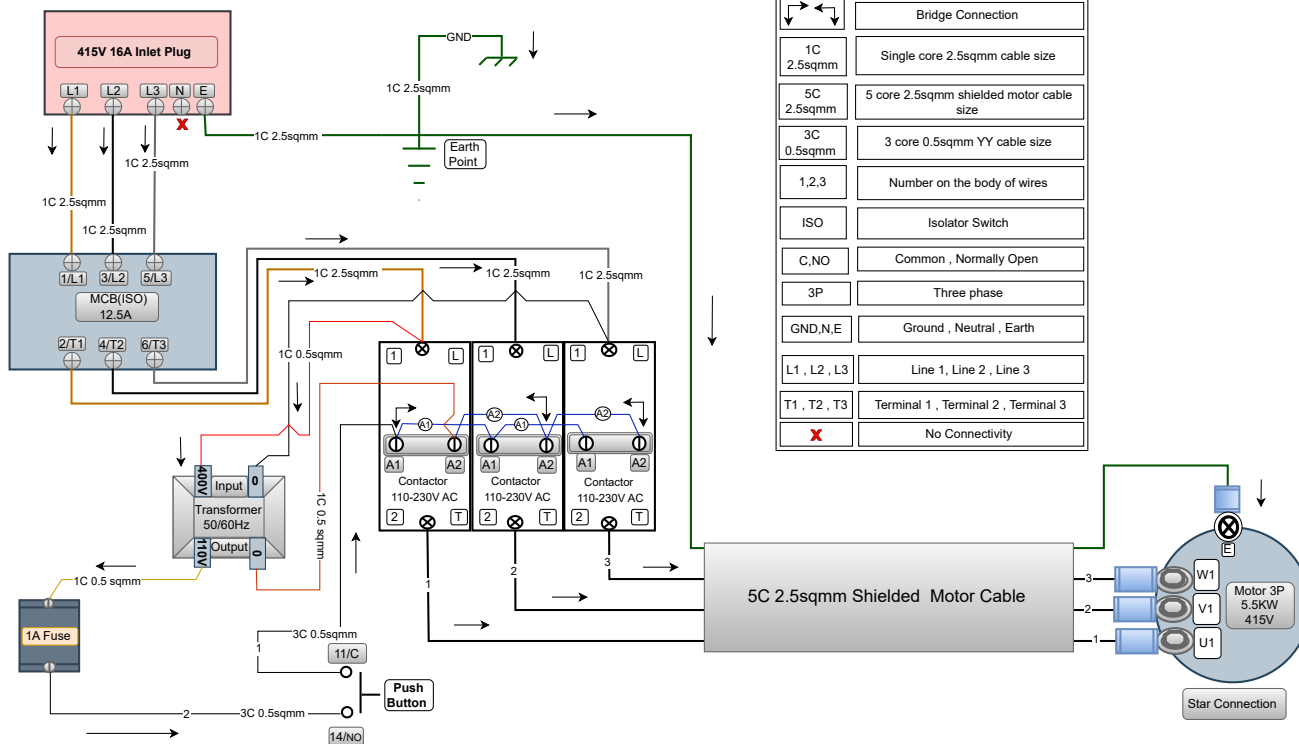
Date of Update : 15 /11/2023



WIRING - 400v CONTROL BOX

TCG250 415V 11A Wiring Diagram

Date of Update : 16/11/2023



ELECTRIC MOTOR SPARE PARTS

110v 50Hz ELECTRIC MOTOR (345.9550)

ITEM NO.	PART NO.	DESCRIPTION	QUANTITY
1	841.2650	Start Capacitor - Black	1
2	841.2666	Run Capacitor - White	1
3	841.2672	Electronic Motor Switch	1

230v 50/60Hz ELECTRIC MOTOR (350.9560)

ITEM NO.	PART NO.	DESCRIPTION	QUANTITY
1	841.2650	Start Capacitor - Black	1
2	841.2660	Run Capacitor - White	1
3	841.2670	Electronic Motor Switch	1

GENERAL SPARES

1	841.2694	Terminal Box & Lid	1
2	841.2685	Bearing - Drive End	1
3	841.2685	Bearing - Non-Drive End	1
4	841.2680	Fan	1
5	841.2690	Fan Cover	1

PETROL ENGINE SPARE PARTS

The TCG250 Petrol is supplied with a Honda GXV160 engine.

For the full range of spare parts and exploded diagrams please visit the following website:

www.honda-engines-eu.com/en/spare-parts

Alternatively scan this QR code to be directed straight to the website.

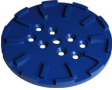
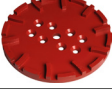
On the website you will need to input the 'Model Code' and 'Serial Number' from the engine. This can be found on the front of the engine near the oil filler cap

MODEL CODE (E.G. GCBCH)
SERIAL NUMBER (E.G. 1458708)

Contact your local Trelawny agent with the selected codes to order the spare parts.



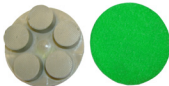
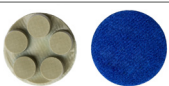
MEDIA TYPES - GRINDING DISCS

DETAIL	PART NUMBER	DESCRIPTION
	350.5610RA 350.5616RA 350.5620RA	10 Segment Soft Bond Grinding Disc 16 Segment Soft Bond Grinding Disc 20 Segment Soft Bond Grinding Disc
	350.5616B 350.5616B 350.5620B	10 Segment Medium Bond Grinding Disc 16 Segment Medium Bond Grinding Disc 20 Segment Medium Bond Grinding Disc
	350.5610R 350.5616R 350.5620R	10 Segment Hard Bond Grinding Disc 16 Segment Hard Bond Grinding Disc 20 Segment Hard Bond Grinding Disc

MEDIA TYPES - QR GRINDING TOOLS

DETAIL	PART NUMBER	DESCRIPTION
	350.5660	Quick Release Tool Plate
	365.5495R	PCD Removal Diamond Clockwise For removal of coatings, adhesives & Toppings
	365.5500	16 Grit Single Segment - Soft Bond For very course grinding & thin coating removal
	365.5500/2	16 Grit Double Segment - Soft Bond For very course grinding & thin coating removal
	365.5501	30 Grit Single Segment - Soft Bond For hard concrete
	365.5502	30 Grit Single Segment - Medium Bond For medium hardness concrete
	365.5503	30 Grit Single Segment - Hard Bond For soft concrete or very rough concrete
	365.5501/2	30 Grit Double Segment - Soft Bond For hard concrete
	365.5502/2	30 Grit Double Segment - Medium Bond For medium hardness concrete
	365.5503/2	30 Grit Double Segment - Hard Bond For soft concrete or very rough concrete
	365.5504/2	70 Grit Double Segment - Medium Bond For light grinding & scratch removal
	365.5506/2	120 Grit Double Segment - Medium Bond For light grinding & scratch removal

MEDIA TYPES - QR POLISHING TOOLS

DETAIL	PART NUMBER	DESCRIPTION
	350.5660	Quick Release Tool Plate
	350.5666	Polishing Pad Adaptor Plate Used to attached the 'Polishing Tools' to the quick release tool plate
	365.5605	50 Grit Hybrid
	365.5610	100 Grit Hybrid
	356.5620	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

TECHNICAL SPECIFICATIONS

DETAIL	TCG500 110v	TCG500 230v	TCG500 400v	TCG250 Petrol
Part Code	350.2402D 350.2402QR	350.2404D 350.2404QR	350.2406D 350.2406QR	350.2400AD 350.2400AQR
Power	3HP - 2.2kW	3HP - 2.2kW	7.4HP - 5.5kW	5.5HP - 4.1kW
Voltage	110v	230v	400v	-
Cycle	50Hz	50/60Hz	50/60Hz	-
Engine Type	-	-	-	Honda GXV160
Transformer Size	5 Kva	-	-	-
Plug Size	32 Amp	16 Amp	16 Amp	-
Cable Size	4 mm	4 mm	4 mm	-
Cable Length	20 m	20 m	20 m	-
Disc Speed	360 RPM	360 RPM	360 RPM	360 RPM
Grinding Width	590 mm	590 mm	590 mm	590 mm
Vacuum Take Off Dia.	50 mm	50 mm	50 mm	50 mm
Length	1220 mm	1220 mm	1220 mm	1220 mm
Width	660 mm	660 mm	660 mm	660 mm
Height	914 mm	914 mm	914 mm	914 mm
Weight	114 kg	114 kg	121 kg	150 kg
Noise L _{PA} SPL	79.2 dB (A)	79.2 dB (A)	79.2 dB (A)	83.6 dB (A)
Noise L _{WA} SWL	93.5 dB (A)	93.5 dB (A)	93.5 dB (A)	97.9 dB (A)
Vibration Level	1.6 m/s ²	1.6 m/s ²	1.6 m/s ²	2.09 m/s ²
Trelawny SPT Ltd operates a policy of continuous product development and refinement and therefore reserves the right to change technical specifications and product designs without giving prior notice.				

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.

Trelawny tools are thoroughly tested under specified conditions in accordance with applicable internationally recognised standards. When a tool is used on site the conditions may not be the same as those used in our tests.

Trelawny Surface Preparation Technology operates a policy of continuous product development and refinement and therefore reserves the right to change technical specifications and product designs without giving prior notice.

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**Use only genuine Trelawny consumables with this product.
The use of non-Trelawny spare parts invalidates the warranty.**

NOTES

THE PERFECT FINISH
STARTS WITH
TRELAWNY



DEALER STAMP:



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Manual Part Number:
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