

MHS5 FLOOR SCABBLER

OPERATION & MAINTENANCE MANUAL



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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.



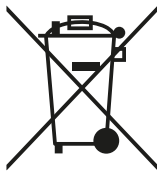
WARNING:

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.

EU DECLARATION OF CONFORMITY



EU Declaration of Conformity

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

The following harmonised standards and technical specifications have been applied:

- EN ISO 11148-4:2012 Hand-held non-electric power tools — Safety requirements
Part 4: Non-rotary percussive power tools

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

The following designated standards and technical specifications have been applied:

- **BS EN ISO 11148-4:2012** Hand-held non-electric power tools — Safety requirements
Part 4: Non-rotary percussive power tools

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 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

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 zásoby od následující příkazov a jejich pohotovosti: 2006/42/EC Příkaz soustrojí 2014/35/EC Příkaz nízkého napětí (upotřebitelné jediné do výrobku použiti 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 MACHINERIECHTLIJN 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 MASINA 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 Tutentimi 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 Заявляем, 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 ОБЪОДУОВАНИЮ (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 σύμφατο 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/izvajamo: 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 KISFESZÜLTÉSÉGÜ 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 elektrik ile 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)		

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.

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 nearly 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

PRE START CHECKS (DAILY)

- The compressed air must be free from water and dirt. Always clear the air hose before connecting to the tool.
- Ensure that no moisture (condensation) is present in the air hose.
- Ensure a minimum of 19mm (3/4") bore air hose is used and all couplings are secure, leak free and in good condition.
- Limit the length of air hose to 30M. Where extra length is necessary, for each additional 15M of air hose used, the pressure drop is approximately 0.21 bar (3psi).
- For safe and efficient operation, the correct operating pressure is 6.2bar (90 psi).
- Do not let the operating pressure fall below 5.5bar (80psi) or rise above 6.9bar (100 psi).
- In particularly cold weather it is recommended that a proprietary anti-freeze lubricating oil is used.

OPERATION

Prior to operating the tool check:

That all parts of the tool are fully screwed/fitted together and secure, if you are in any doubt ask your supervisor before using this equipment.

That the air pressure is correct for this tool 6.2 bar (90 p.s.i.).

That a liberal amount of lubricant has been put into the air inlet of the tool. (See suggested lubricants)

Safe use of this tool requires a solid stance and secure foothold; the operator must adopt a firm and stable position at all times.

Adjust the handle bar to a comfortable working height for the operator by slackening off the 4 x M8 caphead bolts on the handle bar caps, and the single M8 caphead bolt on the handle bar side quadrant. Note that the handle bar will be slightly lower when the tool is in use. Adjust and re-tighten all bolts.

To operate the tool pull the lever on the handle bar and immediately start to move the tool back and forth. Keeping the lever depressed, continue until the desired finish is achieved. Never run the tool continuously in the same place, as the cutter heads will dig into the surface.

To switch off, simply release the lever on the handle whilst continuing to move the tool back and forth. Complete a small area noting the performance; stop the machine, inspect the finish produced. Handled correctly the MHS 5 Multi-headed Scabblers will work quickly and efficiently.

The tool will ride irregularities of up to 13mm (1/2"). Anything greater will risk cutter head damage.

Care must be taken to avoid damaging or tripping over the air hose.

SUGGESTED LUBRICANTS

Oil the tool daily before use. Put a few drops of one of the following zinc free air tool lubricants through the air inlet:

SHELL S22 or R10, CASTROL Hyspin ZZ32

It is recommended that an inline lubricator be installed in the air hose adjacent to the tool.

Cleaning

If operation becomes unproductive and the piston shows signs of sticking, dismantle and clean with a highly refined paraffin.

Immediately after cleaning, thoroughly oil the tool with one of the recommended lubricants.

MACHINE STORAGE

Short period storage: up to 3 months

Clean outside of the equipment and inspect the consumable items for wear, replace any worn parts as required. Insert a liberal quantity of air tool through the air inlet and run briefly to ensure that the internal components are coated with oil. Cover and store the equipment in a dry location.

Long period storage: over 3 months

Follow instructions set out in 'short period storage'. Additionally lubricate any exposed moving parts with one of the suggested lubricants. Repeat this process every 3 months.

SERVICING & MAINTENANCE

SERVICING

Only a competent person, in a suitably equipped workshop, must carry out maintenance. Disconnect the tool from the air supply before carrying out any of the following operations.

DISMANTLING

After ensuring that the air supply is turned off, remove the tool from the airline. Thoroughly clean the outside of the tool prior to dismantling.

Scabbler Head Removal

Remove the eyebolt (4) from the block (36). Take extreme care against trapping your fingers when lifting or turning the tool over. Using the handle, pull the tool over until it rests on the handle bars and the cylinder block top face; remove the supplied punch (33) from the left hand side handle bar by removing the "blanking cap" part of the punch with a small screw driver. Using a medium hammer and the supplied punch knock out the spiral roll pin (48) from each cutterhead (47). Remove the cutterhead from the piston, in some extreme cases it may be necessary to warm the cutterhead to ease removal from the piston, especially if they have been in situ for some time.

Exhaust Chamber & Vacuum shroud removal

Remove the plastic caps protecting the caphead bolts, unscrew the 5 x bolts using a short extension and 8mm Allen key socket. Remove the vacuum shroud (32) and the exhaust chamber (30) and clean out any dust that may have accumulated inside the chamber. It is wise to replace the cylinder dust seals (28) which are situated in recesses in the exhaust chamber and the rear vacuum shroud seal (26) at this point.

Piston and Cylinder removal

Start with unscrewing the two outer of the front three cylinders (45) using a 54mm or 1 1/4" Whitworth spanner, followed by one of the back row and then the centre front. The cylinders are retained using a thread locking adhesive and may require a sharp blow on the spanner to break the bond. Once the cylinders have been removed from the block (36), remove the piston (46) from its cylinder. Remove the wiper seal (49) from its recess using a small screw driver.

Inspect both the piston and cylinder for any sign of wear or grooving paying particular attention to the small bore of the cylinder. Replace the piston, pushing it to the bottom of the cylinder bore, if there is excessive play between the piston and cylinder, the cylinder and possibly the piston will require replacing.

Valve Body Removal/Servicing

Remove the valve body (37) from the handle (41) if required. Disconnect the air hose (29) from the valve body and unscrew the valve body from the T-connector (14). If removed, secure the valve body assembly in a vice, holding on the main body. Using a 30mm spanner unscrew the valve cap from the valve body, remove the spring and retrieve the valve stem with its O'Rings and. Using a 6mm punch, drive out the throttle lever pivot pin and withdraw the throttle lever.

ASSEMBLY

Assembly is generally the reverse of dismantling. Before assembling, ensure all parts are clean and all internal parts have a film of air tool oil. Replace any parts that show signs of wear. If the tool is being fully serviced it is recommended to change the 8 x vibro-mount vibration reducing bushes (9), the 8 x Isolastic bushes (8) and the 5 x Cylinder seals (28). It is also good practice to replace the M10 nyloc nuts during assembly.

Piston and Cylinder Assembly.

Fit new wiper seals (49) into the cylinders (45). Insert a piston (46) into each cylinder, ensure that the piston moves freely and does not stick or is tight at any point in the bore. Fit the scabbler head (47) until it butts up against the front face of the piston (46). Align the holes in the piston (46) with the Scabbler head (47). The shank of a new 12.5mm drill bit or 7/16" Allen Key is a good fit for this purpose or use a suitable piece of dowelling. Support the scabbler head on a stable surface. Holding the spiral pin (48) with a pair of pliers to avoid hitting the fingers. Using a medium size hammer, drive in the spiral pin until central in the scabbler head (47). Ensure that the threads of the cylinder and body are clean and free of oil; apply a bead of Loctite 243 or similar to the first few threads of the cylinder.

Put a liberal amount of recommended lubricating oil on top of each piston.

The sequence of replacing the cylinders are:-

Starting with the central front cylinder. Screw in the cylinder by hand and complete the procedure on each cylinder assembly one at a time, tighten to a recommended torque of 135Nm (100 lbs/ft) using a suitable crowfoot wrench on the spanner flats. Followed by the back cylinders, and finally the two outer front cylinders.

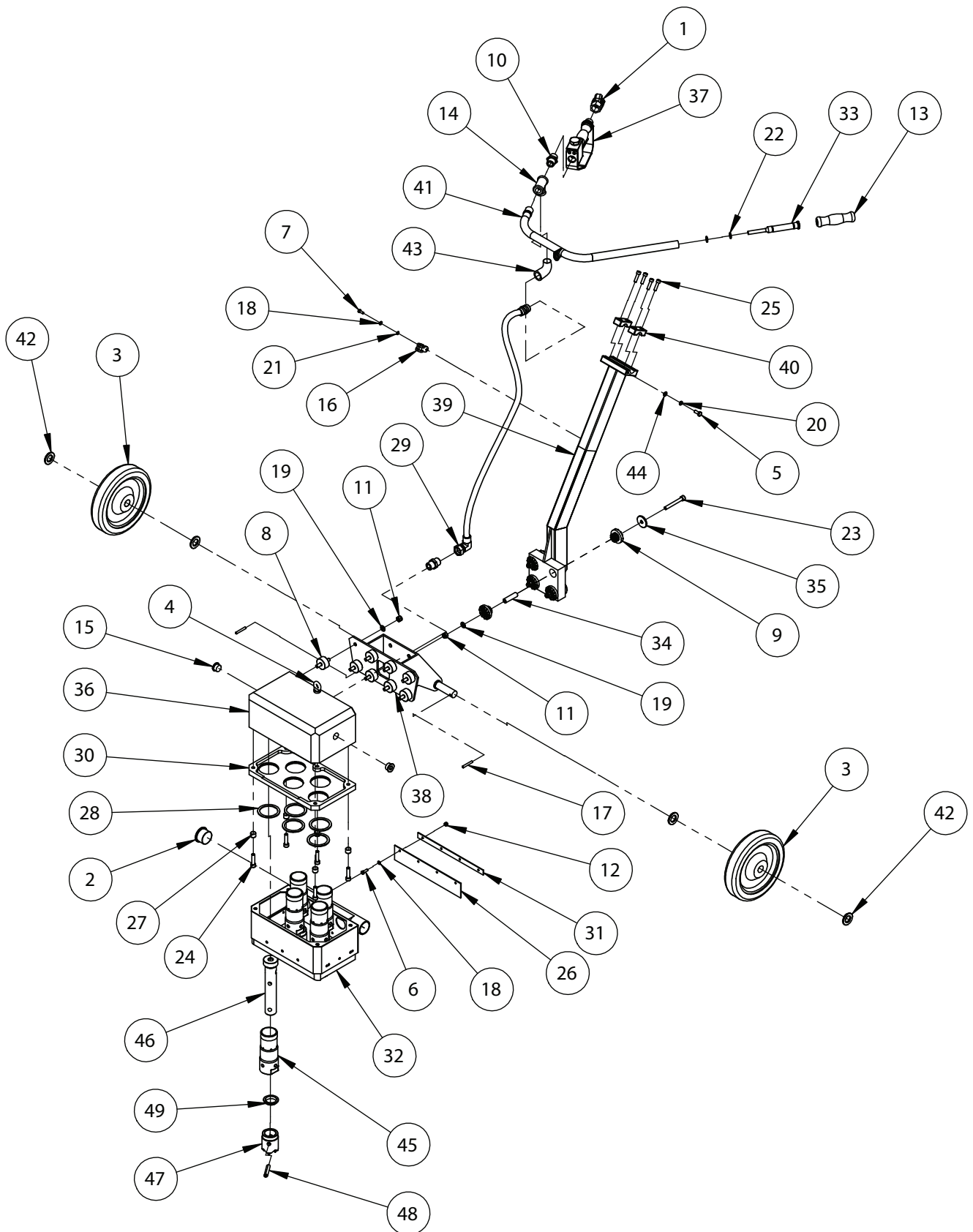
Assembly of Exhaust Chamber/Vacuum Shroud

Place the block (36) on to its top face. Check that the cylinder seals (28) have been fitted into the recesses in the exhaust chamber and that all the cutterhead retaining pins (48) are central, otherwise the exhaust chamber seals could become damaged. Apply a small amount of grease around the outside of all the cylinders to help the seals (28) slide over. Lower the exhaust chamber (30) into position with the exhaust chambers cavity nearest the block. Apply a bead of Loctite 243 or similar to the first few threads. Insert the 5 x 10mm caphead bolts through the vacuum shroud and/or exhaust chamber and into cylinder block (36), with a 8mm Allen socket. Tighten to 80 Nm (60lb/ft.)

Valve Body Assembly

Apply general-purpose bearing grease to the valve stem. Insert valve stem with its O'Rings into the valve guide hole in the valve body, followed by the spring. Screw in the valve cap by hand and using a 30mm spanner fully tighten. Using a 6mm punch align the hole in the valve body with the holes in the throttle lever. Using a small hammer fit the throttle lever pin.

EXPLODED VIEW - MHS5



PARTS LIST - MHS5

ITEM NO.	PART NO.	DESCRIPTION	QUANTITY
1	843.0765	Claw coupling 3/4"BSP female	1
2	841.4080	Blanking plug (Vac Takeoff)	1
3	833.5050	Wheel MHS5 250mm x 60	2
4	831.4120	M12 Eye Bolt (0.4T) Dia 22 Col	1
5	831.0820	M8 x 20mm Hex Head Bolt	1
6	831.0620	M6 x 20mm Hex Head Bolt	4
7	831.0616	M6 x 16mm Hex Head Bolt	1
8	830.5050	Isolastic Bush	8
9	830.1000	Mounting Pad Axle	8
10	826.5004	Adaptor 3/4 BSP x 3/4" BSPT	2
11	824.1000	M10 Nyloc Nut	12
12	824.0600	M6 Nyloc Nut	4
13	822.2000	Rubber Grip	1
14	819.2380	Connector T-Piece 3/4"BSP	1
15	818.0750	Blanking Plug 3/4"BSP	2
16	815.5050	P-Clip MHS5	1
17	813.0645	Roll Pin - 1/4"x1 3/4" long	2
18	812.1060	M6 Plain Washer	5
19	812.0710	M10 Washer, Zinc Plated	12
20	811.0800	M8 Spring Washer	1
21	811.0600	M6 Spring Washer	1
22	809.6165	O'Ring 14.5x3mm (MHS5)	2
23	806.1080	M10 x 80mm Cap Head Bolt	4
24	806.1040	M10 x 40mm Cap Head Bolt	5
25	806.0830	M8 x 30mm Cap Head Bolt	4
26	731.5059	Vacuum Seal Rear Seal MHS5	1
27	726.5057	M10 PVC Protector Cap	5
28	726.5050	Exhaust Chamber Seal MHS5	5
29	719.5050	Armoured Hose Assembly MHS5	1
30	654.5050	Exhaust Chamber MHS5 (Red)	1
31	652.5059	Rear Seal Retainer	1
32	652.5050	Vacuum Shroud MHS5	1
33	633.5050	Pin punch	1
34	620.5050	Vibration Mounting Insert	4
35	617.5050	Washer Vibration Mounting	4
36	611.5050	Cylinder Block MHS5	1
37	512.9100	Air Handle Kit	1
38	440.5050	Sub-Frame Assembly MHS5	1
39	422.5070	MHS5 Handle one piece	1
40	422.5065	Handle Bar Clamp	2
41	422.5060	Handle Bar MHS5	1
42	320.4141	Cutter Spacer, 4mm Thick	4
43	342.HY13	Adaptor 90 Bend M/F Hydraflex	1
44	812.1080	M8 Plain Washer	1
45	613.5001	Cylinder L.R.Scabbler	5
46	612.5005	Piston LR Scabbler-pin fit	5
47	426.5359	Scabbler Head TCT 5xpt pin fit	5
48	813.1050	Roll Pin 1/2"x 2.25" Spirol MD	5
49	829.5001	Wiper Seal 2.00"x1.50"	5
ITEMS NOT SHOWN			
N/A	446.6200	MHS5 Service Kit	1
N/A	843.0752	15m x 3/4" Air hose with Couplings	1
N/A	859.1580	3/4" BSP Inline Oiler	1

TECHNICAL SPECIFICATIONS

DETAIL	MODEL	MODEL
Part Code	159.5050	159.5075
Description	MHS5 Floor Scabblers c/w 5pt Heads	MHS5 Floor Scabblers c/w 9pt Heads
Blows per minute	1300 x 5	1300 x 5
Air consumption	38.0 l/s (80.0 cfm)	38.0 l/s (80.0 cfm)
Air hose bore	19mm (0.75")	19mm (0.75")
Length	1100mm	1100mm
Width	720mm	720mm
Height	970mm	970mm
Weight	114kg	114kg
Cutting width	290mm	290mm
Depth of cut (Average) *	3.0mm	3.0mm
Removal rate *	30m ² per hour	30m ² per hour
Noise L _{PA} SPL	94.7 dB (A)	94.7 dB (A)
Vibration (AEQ) (Primary)	16.5m/s (K= +40% -0%)	16.5m/s (K= +40% -0%)
Vibration (AEQ) (Secondary)	23.1m/s (K= +40% -0%)	23.1m/s (K= +40% -0%)
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.		
*These values are guidelines only. Test concrete surface was one year old and the finish produced suitable for keying additional layers. The aggregate was exposed but not severely damaged or disturbed.		

Noise Levels measured in accordance with:
BS EN ISO 15744:2008

Vibration levels measured in accordance with:
BS EN ISO 20643:2008+A1:2012

(k) Equals the factor of uncertainty, which allows for variations in measurement and production. Vibration Data figures are tri-axial, which gives the total vibration emission. Because of various factors, the range of vibration emission during intended use can vary.

The vibration is dependent on the task, the operators grip, and feed force employed etc.

This equipment has been designed and produced in accordance with the following directive:
2006/42/EC Machinery Directive
and applicable harmonised standard; EN ISO 11148-4:2012

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.**

TROUBLE SHOOTING

FAULT	POSSIBLE CAUSE	ACTION
Machine bounces in use	Air pressure too high	Ensure that the air pressure is set at 90psi. (6.2bar).
Machine performance slow	Worn cutter heads	Replace Cutter Heads (Cutter Head life is approximately 100hrs use)
Machine drags on floor	Insufficient air supply	Ensure that the compressor can supply at least 120cfm (free air) at 90psi in order to avoid air supply problems.
	Hose bore too small	Ensure that the hose bore is 3/4" (19mm).
	Hose run too long	Each 50 ft. (15 mtrs) of airline used, will drop the pressure by approximately 3 psi.
	Worn pistons and/or cylinders	Replace pistons and cylinders
If the problem has not been cured by any of the above actions, contact your local dealership or agent for assistance.		

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THE PERFECT FINISH
STARTS WITH
TRELAWNY



DEALER STAMP:



CONTACT US

Trelawny SPT Limited

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

Telephone: +44 (0)1926 883781

Email: sales@trelawny.com

Website: www.trelawny.com

Manual Part Number:
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ISO 9001

