

# Triple Scabbling Hammer

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## Operation and Maintenance Manual



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## DECLARATION OF CONFORMITY

We,

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

Declare that under our sole responsibility for supply/manufacture of the product

Name of product \_\_\_\_\_

Model, Serial Number \_\_\_\_\_

Year of production \_\_\_\_\_

to which this document relates is in conformity with the provisions of the following Directive(s), Normative Documents and their relevant Standards:

- |                            |   |
|----------------------------|---|
| <b>2006/42/EC</b>          | <b>MACHINERY DIRECTIVE</b>  |
| <b>2006/95/EC</b>          | <b>LOW VOLTAGE DIRECTIVE</b><br><b>(Applicable only to products using electric power)</b> |
| <b>EN ISO 11148-4:2012</b> | <b>HAND HELD NON-ELECTRIC</b><br><b>(Non-Rotary Percussive Tools)</b>                     |

Date and place of issue,  
24<sup>th</sup> June 2016  
Leamington Spa, England.

Rob Chapman,  
Managing Director.



Registered Office: Trelawny SPT Ltd, Trelawny House, 13 Highdown Road, Sydenham Industrial Estate, Leamington Spa, Warwickshire, CV31 1XT, United Kingdom



DOCUMENT No. Q:57/7

CZ	<p>Prohlášení o přizpůsobení          My, společnost Trelawny SPT Limited          podajemy daňové přiznání, že výrobek a dodávka výrobku          název výrobku          Model, výrobní číslo          Rok výroby          Pro které se prokáz týkající, je přizpůsobení s zásobou od následující příkazové a jejich pohotovosti:          98/37/EC Příkaz soustrojí          73/23/EC Příkaz nízkého napětí (upotřebitelné jedině do výrobku použití elektrické energie)</p>	LT	<p>ATITIKTIES DEKLARACIJA          Mes, Trelawny SPT Limited          Prisiimdami visa 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 Įrangos direktyva          73/23/EC Žemos įtampos direktyva (taikoma tik elektriniams įrengimams)</p>
DE	<p>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:          98/37/EC Maschinenriedirektive          73/23/EC Niederspannungsrichtlinie (nur zutreffend auf Produkte, die Strom benutzen)</p>	MT	<p>DIKJARAZZJONI TA KONFORMITA          Ahna, Trelawny SPT Limited          Niddikjaraw li ahna responsabbli kompletament għal provista / manifattura tal-prodott hawn imsemmi:          Isem il-Prodott          Mudell, Serial number          Sena ta' 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-elettriku)</p>
DK	<p>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 det er i overensstemmelse med bestemmelser af følgende direktiver, normative dokumenter og deres relevante standard:          98/37/EC Machinery directive          73/23/EC Low voltage directive</p>	NL	<p>EENVORMIGHEIDSVERKLARING          Wij, Trelawny SPT Limited          Verklaaren dat wij de volledige verantwoordelijkheid dragen voor het leveren/fabriceren van het volgende product.          Naam van het product          Type, Serienummer          Productiejaar          En verklaaren 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)</p>
EE	<p>TOOTE VASTAVUSE DEKLARATSIOON          Meie, Trelawny SPT Limited          Deklareerime, et vastutame järgmise varustuse/toote müügi eest          Toote nimetus          Mudel, Seeria number          Aasta toodangu          Antud dokument tõendab toote vastavust järgmistele direktiivide/le, normatiivaktidele ja nendega samaväärsetele standarditele:          98/37/EC MASINA DIREKTIIVID          73/23/EC MADALPINGE DIREKTIIVID (Kohandatakse vaid toodetele, mis kasutavad elektrivoolu)</p>	PL	<p>Deklaracja Zgodności          My, Firma Trelawny SPT Limited,          oświadczamy w naszej odpowiedzialności, że produkcja i dostawa urządzenia          Nazwa produktu          Model, numer seryjny          Rok produkcji          do którego ten dokument należy, jest zgodne z klauzulami następujących zarządzeń i ich istotnych standardów:          98/37/EC Zarządzenie mechaniczne          73/23/EC Zarządzenie niskiego napięcia elektrycznego (Zastosowanie tylko przy urządzeniach elektrycznych)</p>
ES	<p>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:          98/37/EC Directorio de Maquinaria          73/23/EC Directorio de Bajo Voltaje (Aplicable solamente a productos que funcionen con electricidad)</p>	PT	<p>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:          98/37/EC DIRECTIVA DE MÁQUINAS          73/23/EC DIRECTIVA DE BAIXA VOLTAGEM (Aplicável apenas a produtos que utilizam energia elétrica)</p>
FI	<p>ILMOITUSVAHVISTUS          Me, Trelawny SPT Limited          Vahvistamme tuotteiden toimittamisesta/valmistamisesta          Tuotenimi          Malli, sarjanumero          Valmistusvuosi          Tallä todistuksella vahvistamme säädökset seuraviin ohje/ohjesiin, Yleisiin papereihin ja niihin liittyvät vaatimukset:          98/37/EC KONEISTON OHJEET          73/23/EC PIENJÄNNITTE OHJEET (tarvitaan ainoastaan tuotteille jotka käyttävät sähkövoimaa)</p>	RU	<p>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:          98/37/EC ДИРЕКТИВА ПО МЕХАНИЗМАМ          73/23/EC ДИРЕКТИВА ПО НИЗКОВОЛЬТНОМУ ОБОРУДОВАНИЮ (распространяется только на изделия с электропитанием)</p>
FR	<p>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 normatifs 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)</p>	SE	<p>FÖRSÄKRAN OM ÖVERENSSTÄMMELSE          VI, TRELAWNY SPT LIMITED          FÖRKÄRAR 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          98/37/EC MASKINDIREKTIV          73/23/EC LÅGSTRÖMSDIREKTIV (TILLÄMPLIG PÅ ELEKTRISK DRIVNA PRODUKTER )</p>
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HU	<p>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:          98/37/EC GÉPÉSZETI IRÁNYELVEK          73/23/EC KISFESZÜLTÉSŰ IRÁNYELVEK (Csak az elektromos meghajtású gépeknél)</p>	TR	<p>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 aşıđıyđaki yönetmeliklerin, norm belgelerinin ve ilgili standartlarının kopyalarını uygun olduđunu beyan eder:          98/37/EC MAKÝNALAR YONETMELÝĐÝ          73/23/EC DÜPÜK GERÝLYM YONETMELÝĐÝ (Yalnız elektriğe çalıřan ürünlerde geçerlidir)</p>
IT	<p>DICHIARAZIONE DI CONFORMITÀ          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:          98/37/EC DIRETTIVA SULLE APPARECCHIATURE          73/23/EC DIRETTIVA SUL BASSO VOLTAGGIO (applicabile esclusivamente per i prodotti che utilizzano energia elettrica)</p>		

# INFORMATION

## General Information

Before operating Trelawny Triple Scabbling Hammer, this manual must be read and 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 Scabblers 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 tool, failure to inspect the tool for damage or other faults that may influence its operation prior to starting work, or failure to follow the safety regulations listed or applicable to the job site.

The Triple Scabbling tool is fitted with either bush or cruciform cutter heads and is primarily designed for concrete reduction and the removal of laitance from concrete, It can also be used for the removal of heavy rust and scale.

**Note:** Bush Hammer style headed pistons are best suited to concrete reduction and for laitance removal; these reduce the damage caused to the aggregate using the cruciform cutter head, ensuring that a strong bond is created with the next layer.

Cruciform headed pistons are best suited for the removal of heavy rust and scale and also in the reduction of concrete where a smoother finish is required; this type of piston will reduce the aggregate as well as the concrete surface.

## Air Supply

The compressed air must be free from water and dirt. The installation of a filter/regulator/lubricator air preparation set (with moisture trap) adjacent to the tool is strongly recommended.

Always clear the air hose before connection to the tool. Ensure that no moisture (condensation) is present in the air hose.

Ensure that a minimum 10mm (3/8") bore air hose is used and that all couplings are secure, leak free and in good condition.

Limit the length of air hose to 10M (33ft). Where extra length is necessary, for each additional 15M (50ft) of air hose used, the pressure drop is approximately 0.16bar (3psi).

**Correct operating pressure is 6.2bar (90 psi).**

Do not let the operating pressure fall below 5.5bar (80p.s.i.) or rise above 6.9bar (100 psi) absolute maximum.

The compressor must be able to supply a minimum of 14.2lps (30cfm), (Free air, not displaced as quoted by some compressor manufactures).

In particularly cold weather it is recommended that a proprietary anti-freeze lubricating oil is used.

## Safety

Always, read instructions first before use.

**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.

**Do** be aware that this tool is not electrically insulated.

**Do** keep hands and clothing away from moving parts.

**Do** ensure that this tool is lubricated daily.

**Do** be aware that the tool can create dust and flying debris.

**Do** be aware of others working around you.

**Do** store this tool in a secure and dry environment.

**Always observe safe-working practices at all times.**

**Do not** allow the tool to run unattended.

**Do not** use this tool in potentially explosive environments.

**Do not** drag this tool by the air hose.

**Do not** use the Scaler as a lever.

**Do not** use petrol (gasoline), thinners or any other high flash point solvent to clean the tool.

**Do not** modify this tool in any way, as this will invalidate the warranty and could lead to serious injury.

## 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 and dry.

Employers should consider setting up a programme of health surveillance to establish a benchmark for each operator and to detect any early symptoms of vibration injury.

We are not aware of any PPE that provides protection against vibration injury by attenuating vibration emissions.

**See 'Specifications' section for vibration emission data.**

Further advice is available from our Technical Department.

## Recommended 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

## Cleaning

At intervals of no more than 40 hours or 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.

# MAINTENANCE

## Starting work

Prior to operating the tool check: -

That all fittings are secure, free from leaks and air hoses are in good condition.

That the air pressure is correct for this tool 6.2 bar (90p.s.i.). Put a few drops of recommended lubricant into the air inlet of the tool.

To operate the tool, which is dependant on the type of lever fitted, for those fitted with a safety lever, first push thumb button forwards and then for both styles of lever, pull the lever towards the handle grip to start the tool, then apply the cutter heads to the surface being prepared.

## To switch off, simply release the throttle lever.

Care must be taken to avoid damaging or tripping over the air hose. Maintain contact with the work surface with sufficient pressure only to keep the tool from bouncing off. Excessive pressure can prevent the tool from working to its full capacity. Handled correctly the Scaler will work quickly and efficiently.

**Excessive operator pressure will not improve the tool efficiency but will cause premature tool failure and operator fatigue.**

Never allow the tool to run continuously whilst not in contact with the surface being prepared.

## Maintenance

Maintenance must only be carried out by a competent person.

**Disconnect the tool from the air supply before carrying out any of the following operations.**

Clean all debris from the exterior of the tool.

### Piston removal

Hold the Pistons (avoid clamping on the ground surfaces) in a soft fibre jaw vice, with the Backhandle uppermost and the main Handle away from you.

Remove the four Allen headed screws securing the overhead handle or weight.

Remove the three O'Rings (18) and Cylinder Nylon Pads (17) from top of the cylinders.

(Discard the O'Rings and replace with new).

Remove tool from the vice. From the bottom of the body, push up on the cutter head end of the Piston (16).

Inspect all parts for wear, particularly the Cylinder Sleeve (15) bores.

Check the Pistons ground diameters, and tungsten carbide tips for wear.

Check the ground surfaces on both the Cylinder Sleeves and Pistons for wear, and for score marks caused by grit or other foreign bodies.

Replace any worn components or any showing signs of scoring as necessary.

**Note:** For most applications, the expected life of the tungsten carbide cutters is approximately 100hrs.

### Valve body servicing

Clamp the assembly firmly in a soft face jawed vice, using the flats provided on the Valve Body (6), with the Throttle Lever (7) upper most.

Using a 3mm diameter pin punch, remove the Throttle Lever Roll Pin (8), and then remove the Throttle Lever (7).

Rotate the tool 180 degrees in the vice to access the valve.

Using a screwdriver, unscrew the Valve Cap (1), check the Valve Cap's O'Ring (2), remove the Spring (3), remove the Valve Stem (4) and the Valve seat O'Ring (5). Check the Valve Stem and O'Ring for wear.

### Assembly

Before any assembly takes place, ensure all parts are clean and are coated in a thin film of recommended air tool lubricant.

It is strongly recommended that the Nylon pad O'Rings (18) and any other worn parts be replaced before assembly.

### Valve Body assembly

Clamp the assembly firmly in a soft face jawed vice, using the flats provided on the Valve Body (6), insert new Valve Seat O'Ring (5) into Valve Body, followed by the Valve Stem (4), Spring (3), then the Valve Cap (1) complete with its O'Ring (2), and tighten the Valve Cap with a screwdriver.

Rotate assembly 180 degrees in vice. Using a 3mm diameter pin punch locate and align the Throttle Lever (7) in position, then drive in the Throttle Lever Roll Pin (8) into the Pin location.

### Piston and Sleeve assembly

Press or lightly tap the new sleeves into place using a soft faced hammer and a suitable drift or use an old piston reversed.

Lubricate the piston (16) and Cylinder Sleeve (15) bores, then insert the Piston into the bore.

Hold the Pistons (avoid clamping on the ground surfaces) in a soft fibre jaw vice, with the Backhandle (19) uppermost and the main handle (3) away from you.

Fit the cylinder Nylon Pads (17) on top of the pistons cylinder bore with its stepped section uppermost, then fit **new** O'Rings (18) on top of the cylinder Nylon Pads.

Screw down the Backhandle (19) evenly, use a medium strength thread locking adhesive on the first few threads of each of the 4 x M8 cap head screws (20) such as Loctite 243, tighten using a 6mm Allen key.

## Disposal

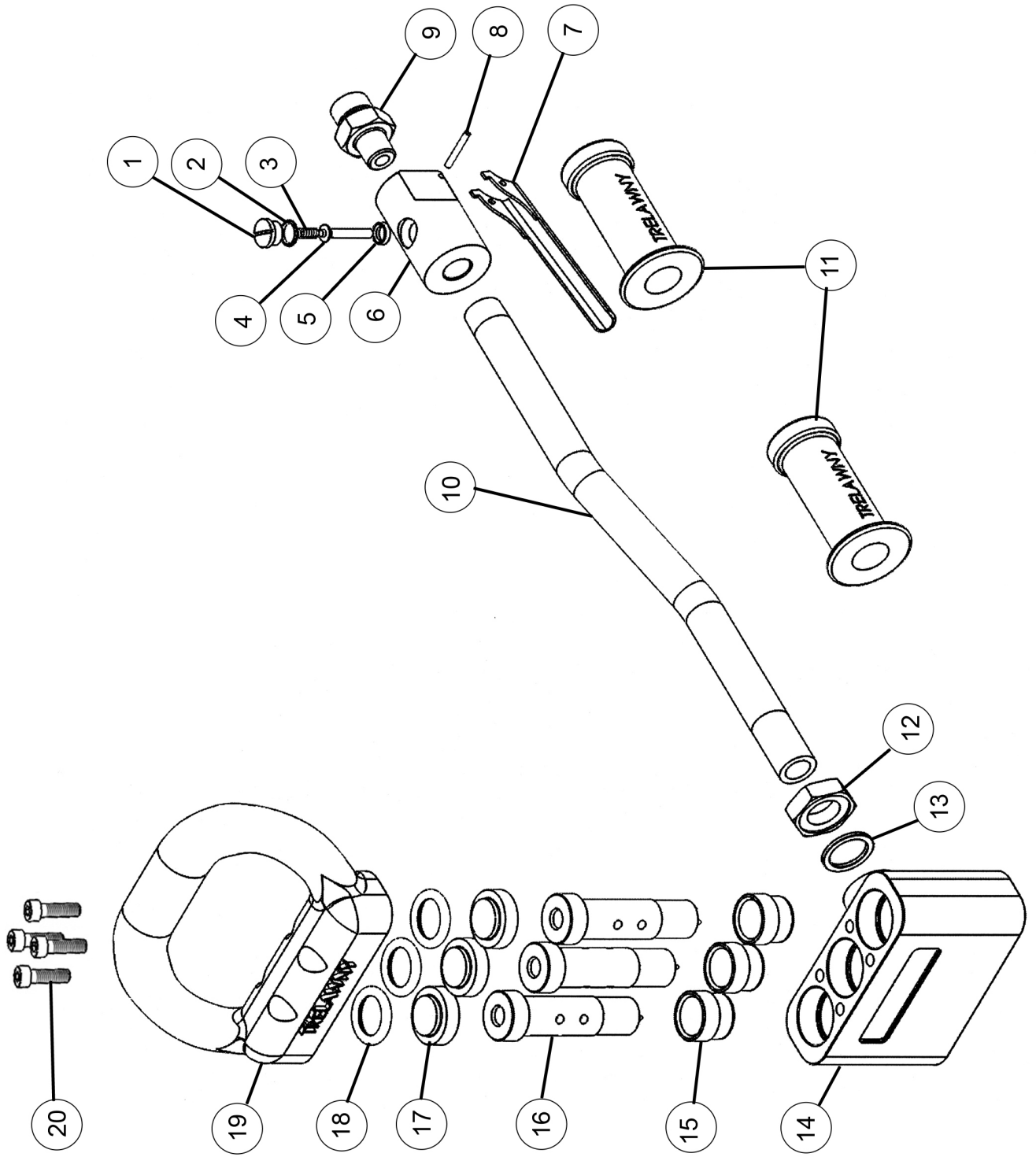
When the tool and its accessories are taken out of service for disposal, it is recommended that: -

They are rendered unusable to prevent improper re-use.

They are dismantled into component form, segregated according to material composition and disposed of using waste recycling processes specified by local regulations.

# EXPLODED DIAGRAM

## EXPLODED DIAGRAM



# PARTS LIST

Item	Part Number	Description
1	615.3021	Valve Cap
2	809.0139	O'Ring - Valve Cap
3	712.3022	Valve Spring
4	618.3022	Valve Stem
5	809.0139	Square O'Ring - Valve Seat
6	423.5321	*Valve Body Assembly (includes items 1-8)
7	716.3000	Throttle Lever
	716.1000	*Throttle Lever Safety
8	813.0108	Roll Pin
9	711.5301	Airline Adapter
10	624.5301	Tube Handle
11	717.3060	Rubber Grip (2 x required)
12	625.5301	Locknut
13	810.9000	Sealing Washer
14	411.6220	Standard Body (Includes item 15)
15	613.5370	Sleeve (3 x required)
16	612.6010	Piston One Piece - TCT Bush Hammer (Fitted as standard) (3 x required)
	612.6000	*Piston One Piece - TCT Cruciform (3 x required)
17	615.6005	Nylon pad (3 x required)
18	809.6229	Cylinder O'Ring (3 x required)
19	611.6040	Backhandle
20	806.0830	M8 x 30 cap head Screw (4 x required)
		*Items not shown on exploded diagram
	719.1000	*3/8" Bore Hose (10 metre)
	719.3000	*3/8" Bore Hose (30 metre)

TROUBLE SHOOTING		
Poor performance or lack of power	Low air pressure.	Ensure that the air pressure is correct at 90psi, max 100psi.
	If tool has been left for some time without use, the oil may dry out slightly causing a sticky residue.	Strip tool down and re-oil.
	Tool worn out, can you feel side ways movement between the piston and cylinder bore.	Replace the piston and cylinder, along with a new bush seal.
Tool continues to run with trigger released	Valve seal may have become dislodged through the tool being disconnected with the trigger in the open position.	Ensure that the trigger has not been taped or wired in the open position. Do not use quick release couplings to switch tool off.

# TECHNICAL SPECIFICATIONS

Piston Diameter	27.5mm (1.08")
Piston Length	87.4mm (3.44")
Piston Stroke	39.8mm (1.57)
Blows Per Minute	2800
Air Consumption	7.5 lps (16cfm)
Air Pressure	6.2 bar (90 psi)
Length	460mm (18.0")
Height	220mm (8.6")
Weight	4.8 kg (10.4 lbs)
Noise Level	$L_{pA}$ dB (A)
	$L_{wA}$ dB (A)
	98.5
<b>TRIPLE SCABBLER BACK HANDLE</b>	
Vibration Level Bush Piston (Trigger Hand) Primary	15.53 m/s <sup>2</sup> (K= 4.14m/s <sup>2</sup> )
Secondary	48.49 m/s <sup>2</sup> (K= 5.43m/s <sup>2</sup> )
Vibration Level Cruciform Piston (Trigger Hand) Primary	13.31 m/s <sup>2</sup> (K= 2.37m/s <sup>2</sup> )
Secondary	46.55 m/s <sup>2</sup> (K= 7.38m/s <sup>2</sup> )

Declared vibration emission value are in accordance with BS EN ISO 28927 and BS EN ISO 20643  
(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.

### Risk of Hand Arm Injury

Because of various factors, the range of vibration emission during intended use of the back handle tool is expected to be between 48.5m/s<sup>2</sup> - 67.9m/s<sup>2</sup>.  
Because of various factors, the range of vibration emission during intended use of the vibration reduced tool is expected to be between 20.07m/s<sup>2</sup> - 28.1m/s<sup>2</sup>.

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

Noise level measured in accordance with: EN ISO 15744: 1999  
Vibration measured in accordance with: EN ISO 28927 and EN ISO 20643

### Machinery Directive Information

This machine has been designed and produced in accordance with the following directives: 2006/42/EC Machinery Directive and applicable harmonised standard: EN ISO 1 1148-4:2010

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 spares.

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









Trelawny SPT Ltd  
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