TRELAWNY™
SURFACE PREPARATION TECHNOLOGY

SF11EX DECK HAMMER

OPERATIONS AND MAINTENANCE MANUAL

CONTENTS

INTRODUCTION

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

WARNING

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

ENVIRONMENTAL PROTECTION

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

DISPOSAL

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

DECLARATION OF CONFORMITY

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TRELAWNY™
SURFACE PREPARATION TECHNOLOGY

www.trelawny.co.uk
Email: sales@trelawny.co.uk

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: Deck Hammer
Model: SF11Ex

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

2006/42/EC	MACHINERY DIRECTIVE
EN ISO 11148-4:2010	HAND HELD NON-ELECTRIC (Non-Rotary Percussive Tools)
EN ISO 4414:2010	General rules and safety requirements
EN ISO 4414	SAFE PNEUMATIC EQUIPMENT OF MACHINERY

Conformity with the following relevant legislation:

2014/34/EU ATEX DIRECTIVE

Based on following harmonised standards:

EN 60079-0:2018

EN ISO 80079-36:2016

EN ISO 80079-37

Ex

II 2 G Ex h IIC T4 Gb

II 2 D Ex h IIIC T135˚C Db

Year and place of issue,
2020
Leamington Spa, England

CE UKCA

Adam Dickinson,
Managing Director

DECLARATION OF CONFORMITY

CZ

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

DE

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

DK

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

EE

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

ES

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

FI

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

FR

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

GR

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

HU

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

IT

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

LT

ATITIKTIES DEKLARACIJA'
Mes, Trelawny SPT Limite
Prisiimdami visą atsakomybę deklaruojame, kad tiekiamas / gaminamas produktas
Produkto pavadinimas
Modelis, serijos numeris
Pagaminimo
Kuriam taikoma ši deklaracija, atitinka šių direktyvų, norminių aktų ir su jais susijusių. standartų reikalavimus:
98/37/EC Įtrangos direktyva
73/23/EC Zemos įtampos direktyva (taikoma tik elektriniams įrengimams)

MT

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

NL

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

PL

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

PT

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

RU

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

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
98/37/EC MASKINDIREKTIV
73/23/EC LÄGSTRÖMSDIREKTIV (TILLÄMPLIG PÄ ELEKTRISK DRIVNA PRODUKTER)

SI

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

TR

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

DECLARATION OF CONFORMITY

Appendix 1 - Hazardous Area Certification

The SF11Ex Deck Hammer certified compliant to the ATEX Directive (2014/34/EU) for safe use within a hazardous area and has been assessed so by Element Materials Technology.

This product conforms to the Standards:

EN 60079-0:2018

EN ISO 80079-36:2016

EN ISO 80079-37

And is attributed with the product certification codes:

II 2 G Ex h IIC T4 Gb

II 2 D Ex h IIIC T135˚C Db

With ATEX Certificate Number: EMT19ATEX0021X

Special Conditions of Safe Use

1. Air compressors used in conjunction with the Scaling Hammers shall incorporate means to prevent the ingress of dust or other foreign material into the air supply i.e a filter on the compressor intake.

2. For air compressors used in conjunction with the Scaling Hammers, only lubricants that are resistant to carbonisation shall be used.

3. The external painted surfaces of the equipment are not to be exposed to charging mechanisms stronger than manual rubbing.

4. Air supply hoses used in conjunction with the equipment must be manufactured from anti-static material with a surface resistance no greater than 10˚Ω.

5. Equipment is to be lubricated before as detailed in the Operations & Maintenance Manual.

6. Any lubricating oil used must have an auto ignition temperature of > 185˚c.

7. The equipment must not be stored in an explosive acetylene atmosphere (to prevent the formation of acetylides on the copper heads).

Equipment must only be installed & maintained by suitably qualified and competent personnel in accordance with the instructions provided and the terms of the applicable product services.

FOREWORD

Thank you for your purchase of the SF11Ex Deck Hammer. This manual contains the necessary maintenance information for you to ensure proper operation and care for this machine. It is essential for you to read through
this manual thoroughly. In the unlikely event that you experience problems with your SF11Ex Deck Hammer, please do not hesitate to contact your local Trelawny dealer or agent. We always welcome feedback and comments from our valued customers.

GENERAL INFORMATION

Before operating the SF11Ex Deck Hammer, 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 Deck Hammer 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 prior to starting work for damage or other faults that may influence the operation or safe working of the tool, or failure to follow the safety regulations listed or applicable to the job site.
The tool is primarily designed for the removal of heavy rust, paint and scale from ships decks or heavy steel surfaces.
This tool must not be used in a fixture..
Operators should be familiar with the data given in the specification section.

Please keep these instructions in a safe and accessible place.

WARNING! Before operating, performing maintenance or repairing the SF11Ex this manual must be read and understood. If in any doubt, ask your supervisor before using this equipment. Failure to follow these instructions could result in damage to the Deck Hammer and/or personal injury.

SAFETY

Do:
- Be aware that this tool is not electrically insulated.
- Be aware that the tool can create dust and flying debris.
- Keep hands and clothing away from moving parts.
- Be aware of others working around you.
- Ensure that this tool is lubricated daily.
- Store this tool in a secure and dry environment.
- 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.
- Use with a Trelawny specified ATEX HEPA Vacuum.
- Always observe safe-working practices at all times.

Do not:
- Allow the tool to run unattended.
- Do not allow the tool to run continuously whilst not in contact with the surface being prepared.
- Modify this tool in any way, this will invalidate the warranty and could also lead to serious injury.
- Do not drag this tool by the air hose.
- Do not use petrol (gasoline), thinners or any other high flash point solvent to clean the tool.

Please note: Unrestrained hoses can whip if they become detached. Ensure that the work place is well ventilated.

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

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 early symptoms of vibration injury.

We are not aware of any PPE that provides protection against vibration injury by attenuating vibration emissions. See 'Technical 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 it includes a Hand-arm Vibration Exposure Calculator that is easy to use to work out the daily vibration exposure for each of your operators.

AIR SUPPLY

The compressed air must be free from water or contamination. Always clear the air hose before connection to the tool. Ensure that no moisture (condensation) is present.

Ensure that a minimum 19mm (3/4") anti-static bore airline is used and that all couplings are tight and secure. If possible try to limit the length of airline to 33 ft. (10 metres) (Air consumption is shown under Technical Specifications at the end of these instructions).

Where extra length airline is necessary, each additional 50 ft. (15 metres) of airline used, will drop the pressure at the tool by approximately 3psi.

Correct operating pressure for this tool is 6.2 bar (90psi) 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 47 lps (100cfm) In particularly cold weather it is recommended that a proprietary anti-freeze lubricating oil is used.

STARTING WORK

Prior to operating the tool check that all fittings are secure, free from leaks and that air hoses are in good condition. That all parts of the tool are fully screwed together and secure, if in any doubt ask your supervisor before using this equipment.

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

Recommended Lubriants

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

SHELL	S22 or R10
CATROL	Hyspin ZZ32

Always use clean oil from a sealed container and ensure ignition temperature is above 185degC˚.

Remove the lifting pin from the bottom of the handle to release the handle, refit in to the block-lifting bracket to prevent its loss. Never run the tool with the handle fastened to the main body. The most efficient scaling action is to move the tool back and forth until the desired finish has been achieved. Never run the tool continuously in the same place as this will severely mark the surface and may cause cutter head damage.

To operate the tool simply turn the ball valve so that he lever is in line with the handle. If the tool is new, optimum performance will be achieved after 15mins "running in" of the brush seals (29). Complete a small area noting the performance; stop the machine, inspect the finish produced. To switch off, simply return the ball valve lever to 90˚ to the handle whilst continuing to move the tool back and forth.

Handled correctly the SF11Ex Deck Hammer will work quickly and efficiently. Gloves and personal protective equipment must be worn when using this tool. The tool will ride irregularities of up to 5mm (1/4"). Anything greater will risk cutterhead damage. Care must be taken to avoid damaging or tripping over the air hose. Once the task is completed, return handle to the upright position and insert the handle-locking pin (11) for transportation.

VERY IMPORTANT
Only Trelawny Beryllium Copper Heads must be used in this tool. DO NOT substitute with any other head.

MAINTENANCE

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

Dismantling
Clean all debris from the exterior of the tool.

Head Removal – Taper Fit Pistons
Lay the machine down on its side. Unscrew and remove screwed cap (25). Remove spring cap (27) and spring (26). From the bottom of the unit push on the cutter head and remove the piston assembly. Repeat for all other cylinders. Place the head removal washer between the cutter head and the cylinder, place cylinder assembly on a flat solid surface with the cutter head upper most, insert the removal pin into the cutter head hole so that it rests on the end of the piston. Wearing safety glasses, deliver a sharp blow to the head of the pin with a medium sized hammer and the cutter head will be released from the piston.

Piston and Cylinder removal
Unscrew and remove screwed cap (25). Remove spring cap (27) and spring (26) from the bottom of the scaling head push up and remove the piston (30) cylinder (28) and brush seal (29) as an assembly. Repeat for all other cylinders.

Wheel removal
Lay tool on side. Close the split pin (24) and remove the pin, remove washer (20) and slide the wheel (23) from the axle.

Handle Assembly from Sub-Frame
Remove locking pin (11) to free handle. Lay tool down with hoses uppermost. Unscrew the connector on the hose (7) from the adaptor nearest to the scaling head. Select two 15/16" A/F spanners to fit bolt (16) and nut (15). Unscrew and remove both nut (15) and washer (17), withdraw bolt (16) and washer (17).

Sub-Frame from Scaling Head
Repeat the above, then select a 3/4" A/F spanner and unlock nut (19) unscrew nut and remove both nut and washer (20). Repeat for other side.

Ball Valve from mounting
Unscrew hose fittings from ball valve (6) unscrew 4 nuts (5) and remove u-bolts (3) and mounting brackets (4).

Lifting plate from Handle Assembly
Select a 13mm A/F spanner to suit nut (8) and a 6mm A/F Allen Key to suit cap head screw (9) and unlock screw (9). Remove washer (8a) and repeat for other screw.

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

VERY IMPORTANT
Only a competent person, in a suitably equipped workshop, must carry out maintenance.

ASSEMBLY

Ensure all parts are clean and that all internal parts have a film of air tool oil, unless specified otherwise. Avoid lubricating oil contaminating the threads of the body, and the screw cap. These will require securing with a thread-locking adhesive. Replace any parts that show signs of wear. If the tool has been fully serviced it is recommended to change anti-vibration pads (18) and (21).

Taper Fit Head Pistons
Ensure that all traces of oil/grease are removed from the new cutter head taper and piston taper using a suitable oil free solvent. Fit the piston into the cylinder as shown in the service layout. Fit a new brush seal into the cylinder recess. Select a cutter head and place on to the taper of the piston. Place the assembly on to a solid flat surface, and with the cutter head uppermost, deliver a sharp blow with a soft faced hammer to seat the cutter head onto the piston taper. (The use of a hard faced hammer will damage the cutter head).

Assembly of Scaling Head
Removal all traces of oil from screwed cap and cylinder block threads. Select a cutter head/piston/cylinder/brush seal assembly and apply a few drops of air tool oil to the top of the piston and fit into the body, repeat with the other assemblies.

Fit spring (26) into a screwed cap (25) and fit spring cap (27) into screwed cap, as shown in the service layout. Apply a small bead of Loctite 243 (Threadloc) or its equivalent to the first two threads of the spring cap and screw down by hand, fully tighten the screwed cap using a suitable spanner, to a torque of 81.5 Nm (60 lb/ ft).

Sub-frame to Scaling Head
Align mounting holes on sub-frame (22) with anti-vibration pad (21) studs and fit as shown in service layout. Fit washer (20) and locknut (19) to both studs and fasten both nuts down to a torque of 40lb ft.

Wheel to Sub-frame
Slide wheel (23) onto sub-frame axle, fit washer (20) and insert a new split pin (24) into the hole. Separate legs on split pin and bend round with pliers or otherwise. Repeat on the other wheel.

Handle to Sub-frame

Fit washer (17) to bolt (16) and align all holes though chassis and anti-vibration mountings (18) guide the bolt through until it appears at the other end. Fit washer (17) to threaded end of bolt and fit nut (15). To ensure that the sub-frame does not twist or buckle through over tightening of the nyloc nut (15), tighten so that not more than 3/8" (10mm) of thread it protruding from the nyloc nut (15). Select a 13mm A/F spanner to suit (8) and a 6mm A/F Allen key to suit caphead screw (9). Slacken off both bolts (9) and nuts (8) align the lifting plate (10) to the lifting block (12) and insert the locking pin (11). Ensure that the pin hole is central and the locking pin can be removed and inserted easily, adjust as necessary.

Ball Valve Mounting

Fit one of the two u-bolts (3) around ball valve (6) and through bracket (4) so that the ball valve is in line with the handle tube. Guide the u-bolt (3) into holes in the mounting flange so that the ball valve is in line with the handle tube. Fit two nuts (5) finger tight to hold the unit in place. Repeat with the second u-bolt and bracket. Align the ball valve handle with the main handle (14). Select a 13mm A/F spanner and fasten evenly the four nuts (5) until the valve is secure.

Lifting Plate

Align holes in the lifting plate with the holes on that of the lifting plate flange, ensuring that the position of the lifting plate (10) is central to the main handle (14). Insert the bolt (9) and fit a washer (8a) and nut (8). Fit the handle-locking pin (11).
Select a 13mm A/F spanner to suit (8) and a 6mm A/F Allen key to suit caphead screw (9). Tighten both nut and bolts (8) & (9) ensuring that the pin hole is central and the locking pin can be removed and inserted easily.

MACHINE STORAGE

Short period storage: up to 3months.

Clean the outside of the machine and inspect the cutter heads for wear, replace any worn parts as required. Insert a liberal quantity of air tool oil through the air inlet and run briefly to ensure that internal components are coated with oil. Cover the machine to protect it: Store the machine in a dry place.

Long period storage: over 3months

Clean outside of machine, inspect the cutter heads for wear; replace any worn parts as required. Remove any build up of material from the cutter head area. Insert a liberal quantity of air tool oil through the air inlet and run briefly to ensure that internal components are coated with oil. Lubricate the exposed part of the piston and cylinder. (See recommended lubricants) Cover the machine to protect it: Store the machine in a dry place. After a further 3 months have elapsed, insert oil into the air inlet as previously described. When next used, continue as per "Starting work section".

DISPOSAL

Dismantle into component form, segregate according to material composition and dispose of using waste recycling processes specified by local regulations.

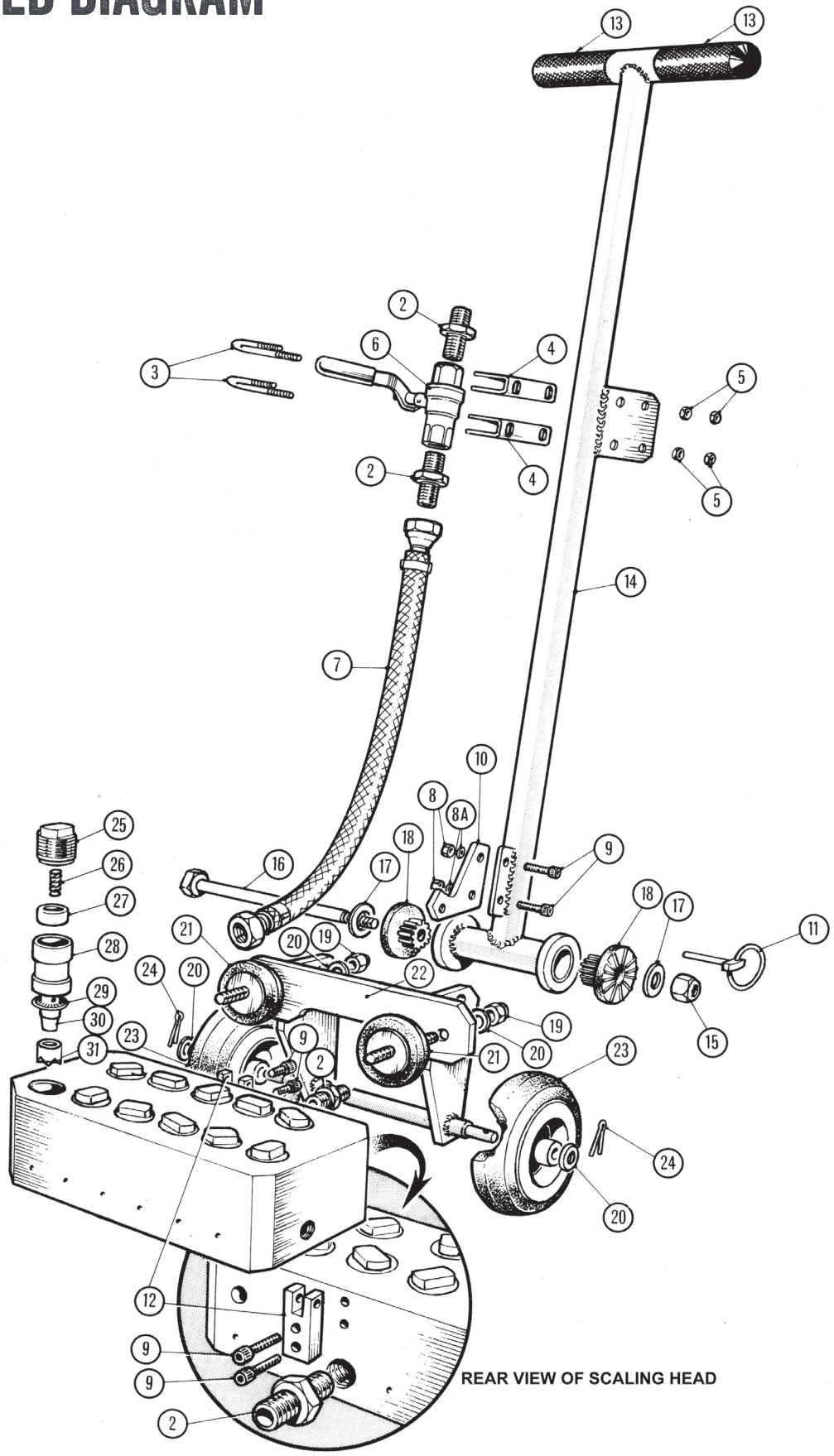
MACHINERY DIRECTIVE INFORMATION

This tool has been designed and produced in accordance with the following directives:
2006/42/EC Machinery Directive
and applicable harmonised standard: EN ISO 1 1148-4:2012
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.
The company 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.

Use only genuine Trelawny spares. The use of non-Trelawny spare parts invalidates the warranty and ATEX Certification.

VERY IMPORTANT
Only Trelawny Beryllium Copper Heads must be used in this tool. DO NOT substitute with any other head.

EXPLODED DIAGRAM



PARTS LIST

Item NO.	PART NO.	DESCRIPTION
2	826.5004	Adaptor 3/4" BSP
3-5	491.2100	U Bolt Assembly (set of 2)
6	828.1000	Ball Valve
7	719.0750	Armoured Hose Assembly with Couplings
8-12	491.3000	Lifting Bracket Assembly
11	490.2100	Locking Pin (set of 2)
13	490.0100	Handle Grip (set of 2)
14	422.0110	Handle including grips
15-17	491.2000	Handle Mounting Assembly
18	490.1000	Rubber Handle Mounting
19-21	491.0100	Rubber Cylinder Block Mtg Assembly (set of 2)
22	440.0130	Sub Frame
20	812.0500	Washer
23	833.1005	Anti Static Wheel
24	832.2000	Split Pin
25	615.5341	Screwed Cap
26	712.5301	Compression spring
27	615.5361	Spring Cap
28	613.5301	Cylinder
29	614.5301	Brush Seal
30	612.5301	Piston (Taper fit)
31	606.5303	Beryllium cutter head – (Taper fit) –spark resistant
	437.0100	Vacuum Shroud assembly
	731.0120	Polyurethane seal
	446.1540X	Service Kit (25,26,27,29,30,31)

TECHNICAL SPECIFICATION

Trouble Shooting	Cause	Action
Machine bounces in use	Air pressure too high.	Ensure that the air pressure is set at 90psi. (6.3bar). If the air pressure cannot be controlled, close off the SF11Ex on/off valve slightly until the machine runs smoothly.
Machine performance slow	Worn Cutter Heads	Replace Cutter Heads.
Machine drags on deck or floor	Insufficient air supply	Ensure that the compressor can supply at least 100cfm (free air) at 90psi. The SF11Ex Deck Hammer requires 70cfm
	Hose bore too small.	Ensure that the hose bore is 3/4" (19mm).
	Hose run too long.	Each 50 ft. (15 metres) of airline used, will drop the pressure by approximately 3 psi.
	Worn Pistons and/or cylinders.	Replace piston and cylinders.
If the problem has not been cured by any of the above actions, contact your local dealership or agent for assistance.		

Description	Metric	Imperial
Piston diameter	27mm	1.06"
Piston length	89mm	3.50"
Stroke	26.5mm	1.04"
Blows per minute	2300 x 11	
Air pressure - (3/4"BSP Air Inlet)	6.2 bar	90psi
Air consumption	33 lps	70cfm
Length (handle lowered)	1300mm	51.2"
Height (Handle raised)	1230mm	48.4"
Work head dimensions	285mm (11.2")L x 150mm (5.9")W x 180mm (7.1")D	
Cutting width	252mm	9.9"
Cutting width to edge	15mm	0.59"
Weight	37.2kg	82lbs
Noise level db(A) LpA	103.1	
LwA	113.1	
Vibration (AEQ) at the Handle Bar*	a=5.8 m/s2 (K= +40% -0%)	

Noise Levels: Noise level measured in accordance with: EN ISO 15744: 2008
Vibration Levels: Vibration measured in accordance with: EN ISO 28927-9:2012 and EN ISO 20643:2005. (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 from these tools may vary between -0% +40% (5.8 m/s2 -8.12 m/s2). The vibration is dependent on the task, the operators grip and feed force employed etc.

NOTE: The above vibration levels were obtained from tri-axial measurements to comply with the requirements of "The Control of Vibration at Work Regulations 2005*" and the revisions to the (8662) now EN ISO 28927-9:2012 and EN ISO 20643:2005 series of standards. These values are at least 1.4 times larger than the values obtained from single axis measurements. *Based on European Union Council Directive 2002/44/EC (Physical Agents (Vibration) Directive)).

Machinery Directive Information:

This tool has been designed and produced in accordance with the following directives:	2006/42/EC Machinery Directive
and applicable harmonised standard:	EN ISO 1 1148-4:2012 EN ISO 11148-4: 2010 Hand Held Non-Electric (Non-Rotary
Percussive Tools)	
This tool conforms with the following EC legislation:	ATEX DIRECTIVE 2014/34/EU
Based on the following harmonised standards:	EN60079-0:2018 EN ISO 80079-36:2016 EN ISO 80079-37
Notified Body:	Element Material Technology LTD
Certificate Number:	EMT19ATEX0021X

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.

The use of non-Trelawny spare parts will invalidate the ATEX certification and also the warranty.
Trelawny SPT Ltd
13 Highdown Road, Sydenham Industrial Estate, Leamington Spa, Warwickshire, CV31 1XT, United Kingdom
Telephone: +44 (0) 1926 883781 – Fax +44 (0) 1926 450352
Email: sales@trelawny.co.uk

NOTES

NOTES

VERY IMPORTANT
Only the Tool Assembly is ATEX certified and any packaging comes with the tool is not covered by the certification

DEALER STAMP:

NEED TO CONTACT US?

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Manual Part Number:
735.3604