SF1 & SF3 HAND SCALERS

OPERATION & MAINTENANCE MANUAL



CONTENTS

INTRODUCTION 3
GENERAL INFORMATION 3
EU DECLARATION OF CONFORMITY 4
UKCA DECLARATION OF CONFORMITY 5
DECLARATION OF CONFORMITY 6
SAFETY 7
HAND ARM VIBRATION 7
WARRANTY 7
PRE START CHECKS (DAILY) 8
OPERATION 8
SUGGESTED LUBRICANTS 8
MACHINE STORAGE 8
SERVICING & MAINTENANCE 9
EXPLODED VIEW - SF1 10
PARTS LIST - SF1 11
EXPLODED VIEW - SF1 VL 12
PARTS LIST - SF1 VL 13
EXPLODED VIEW - SF3 14
PARTS LIST - SF3 15
TECHNICAL SPECIFICATIONS 16
TROUBLE SHOOTING 17
NOTES 17
NOTES 18
NOTES 19
CONTACT US 20

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.



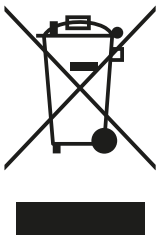
WARNING:

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

TRELAWNY

CE

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

TRELAWNY

UK CA

UKCA 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 **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

Prohlášenl o přizpüsobení
My, společnost Trelawny SPT Limited
podajemy daňové přiznání. že výrobek a dodávka výrobku
název výrobku
Model, výrobni číslo
Rok výroby
Pro které se prükaz týkajici, je přizpüsobeni s zásoby od následujici přikazov a jejich pohotovostni:
2006/42/EC Přikaz soustroji
2014/35/EC Přikaz nizkého napéti (upotřebitelne jedině 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:
2006/42/EC Maschinenriedirektive
2014/35/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:
2006/42/EC Machinery directive
2014/35/EC Low voltage directive

EE

TOOTE VASTAVUSE DEKLARATSIOON
Meie, Trelawny SPT Limited
Deklareerime, et vastutame jägmise varustuse/toote müügi eest
Toote nimetus
Mudel, Seeria number
Aasta toodangu
Antud dokument töendab toote vastavust järgmistele direktiivi(de)le, normatiivaktidele ja nendega samaväärsetele standarditele:
2006/42/EC MASINA DIREKTIIVID
2014/35/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:
2006/42/EC Directorio de Maquinaria
2014/35/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:
2006/42/EC KONEISTON OHJEET
2014/35/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
Modéle 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:
2006/42/EC DIRECTIVE POUR LA MACHINERIE
2014/35/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
2006/42/EC ΟΔΗΓΙΑ ΠΕΡΙ ΜΗΧΑΝΗΜΑΤΩΝ
2014/35/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:
2006/42/EC GÉPÉSZETI IRÁNYELVEK
2014/35/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:
2006/42/EC DIRETTIVA SULLE APPARECCHIATURE
2014/35/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:
2006/42/EC ĮIrangos direktyva
2014/35/EC Zemos įtampos direktyva (taikoma tik elektriniams įrengimams)

MT

DIKJARAZZJONI TA KONFORMITA
Aħna, Trelawny SPT Limited
Niddikjaraw li aħna responsabbli kompletament għal provista / manifattura tal-prodott hawn 1msemmi:
Isem Il-Prodott
Mudell, Serial number
Sena ta '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 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:
2006/42/EC MACHINERICHTLIJN
2014/35/EC 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:
2006/42/EC Zarządzenie mechaniczne
2014/35/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:
Designaçao do produto
Modelo, Nümero de Sérle
Ano de produçao
a que esta declaraçáo 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 utilzi am energia eléctrica)

RU

СВИДЕТЕЛЬСТВО О СООТВЕТСТВИИ
Мы, Trelawny SPT Limited
Заявляем, что несем полную ответственость за поставку/производство нижеуказанной
продукцим
Наименоване 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:
2006/42/EC ДИРЕКТИВА ПО МЕХАНИЗМАМ
2014/35/EC ДИРЕКТИВА ПО НИЗКОВОЛЬТНОМУ ОЪОРУДОВАНИЮ (распространяется только на изделия с злектропитанием)

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 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:
2006/42/EC DIREKTIVA O STROJIH
2014/35/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
Modei/Seri no
Üretim yili
bu belgenin ilgili olduöu apaöýdaki yönetmeliklerin, norm belgelerinin ve ilgili standartlarýnýn koÞullarýna uygun olduöunu beyan eder:
2006/42/EC MAKÝNALAR YÖNETMELÝDÝ
2014/35/EC DÜÞÜK GERÝLÝM YÖNETMELÝDÝ (Yalnýýz elektrikle çalyÞan ürünlerde geçerlidir)

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.

REGISTER

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 air hose 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 0.21bar (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)

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.

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.

Please be aware: that this tool will reduce in power or stop working if the end cap has become unscrewed.

To switch off, simply release the throttle lever.

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.

Cutter Head removal
Lay the scaling hammer on a solid surface with the cutter head facing uppermost. Place the head removal washer between the cutter head and the body; insert the removal pin, into cutter head hole. Wearing safety glasses and using a medium size hammer give a sharp blow to the head of the pin, which will release the cutter head from the piston. Inspect all components for wear, replace as necessary

Valve Body servicing
Clamp the handle assembly firmly in a soft face jawed vice (valve body end) with the throttle lever uppermost. Using a 3mm diameter pin punch, remove the throttle lever roll pin, and then remove the throttle lever. Rotate the tool 180 degrees in the vice to access the valve. Unscrew the valve cap using a screwdriver, check the valve cap O'Ring, remove the spring, push out the valve stem and remove the O'Ring. Check the valve and O'Ring for wear.

ASSEMBLY
Before any assembly takes place, ensure all parts are clean and have a film of air tool oil lubrication unless otherwise stated. Avoid lubricating oil or grease contaminating the threads of the end cap, the threads within the bore of the bodies and the tapers on piston and cutter heads. The end caps will require securing with a thread-locking adhesive. It is good practice to renew all O'Rings and the brush seals. Replace any parts showing signs of wear; pay particular attention to the small bore of the cylinder.

Cutter Head Assembly
Remove all traces of oil and dirt etc, from the taper diameter on the piston and cutter head by cleaning with suitable oil free solvent. Fit the piston into the cylinder as shown in the service layout. Place the assembly onto a solid surface; fit a new brush-seal over the piston and into the recess of the cylinder. Select one of the cleaned new cutter head and place on to the taper of the piston. Using a soft-faced hammer deliver a sharp blow to the cutter head.

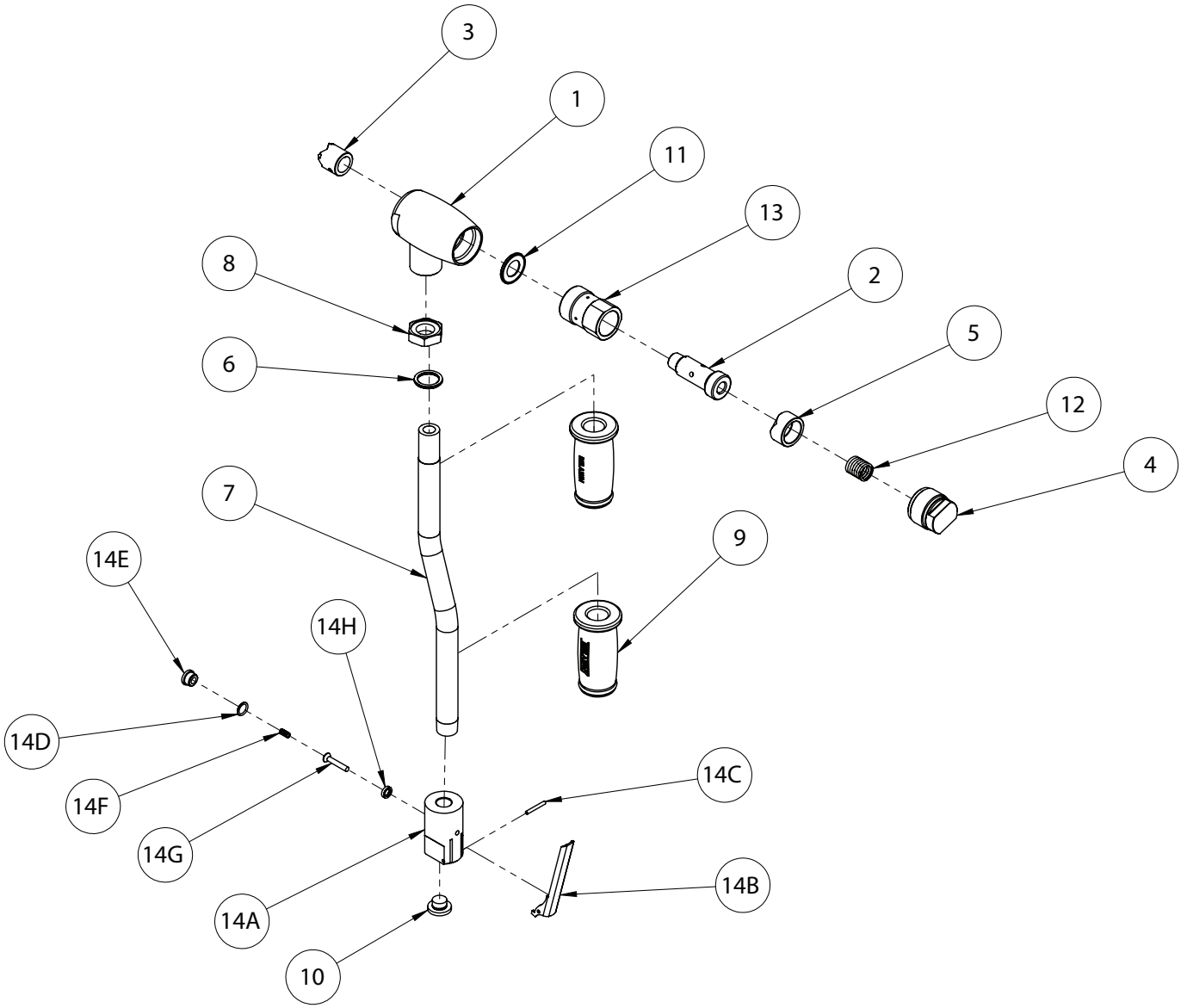
Note: If you are re-fitting a used cutter head to the piston it is essential that the internal diameter of the cutter head is re-surfaced using a medium grade of emery cloth - this will ensure a good fit between cutter head and piston.
Do not use adhesive of any description on the taper.

If the taper has expanded to much on the old cutter heads, they may not stay on the piston, replacements will be required.

Valve Body Assembly
Clamp the handle assembly firmly in a soft faced vice (valve body end), insert new valve stem O'Ring nto valve body, followed by the valve ste, spring, then the valve cap complete with its O'Ring, 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 in position, then drive in the throttle lever roll pin into the pin location.

Final Assembly
Assemble the end cap, fit spring into the end cap and fit spring cap into the end cap as shown in the service layout. Insert piston into the body and apply a few drops of air tool lubricant to the top of the piston(s). Hold the handle in a soft faced vice ensuring the screw cap threads are uppermost. Remove all traces of oil from the screwed cap threads and threads of the body. Apply Loctite 243 sealant to the first 3 threads of the end cap. Screw end cap assembly into the body until finger tight and using a suitable spanner torque down to 55N.m. (40 lbs.ft).

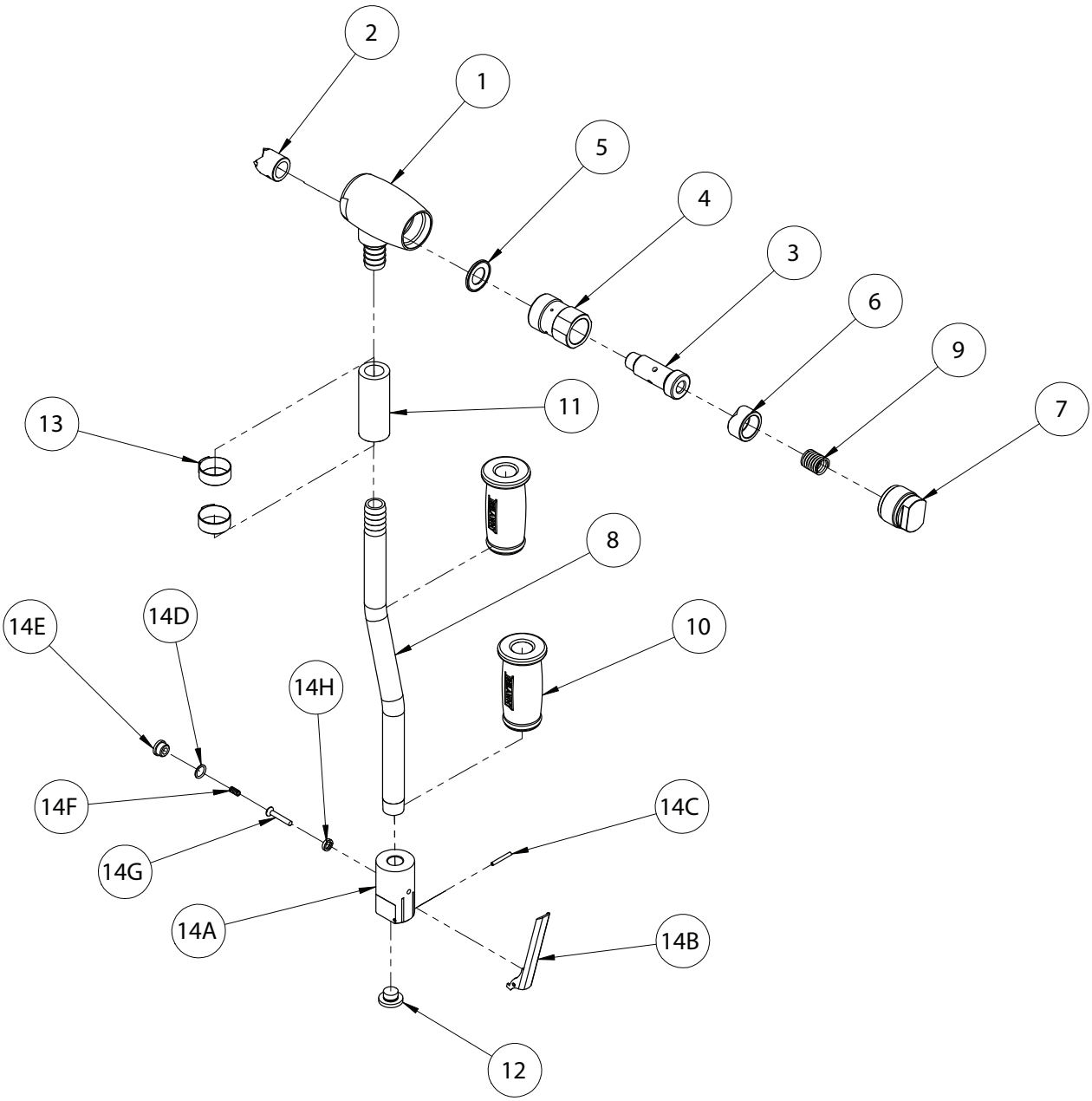
EXPLODED VIEW - SF1



PARTS LIST - SF1

ITEM NO.	PART NO.	DESCRIPTION	QUANTITY
1	411.5101	Single Scaler Body	1
2	612.5301	Piston	1
3	426.5351	Cruciform Cutter Head	1
4	615.5341	Screw Cap	1
5	615.5361	Spring Cap	1
6	810.9001	Sealing Washer	1
7	624.5301	Handle	1
8	625.5301	Locknut	1
9	717.3060	Grip	2
10	818.0375	3/8" BSP Plug	1
11	614.5301	Brush Seal	1
12	712.5301	Spring	1
13	613.5301	Cylinder	1
14A	423.5321	Valve Body Assembly (Includes 14A-14H)	1
14B	716.3000	Throttle lever	1
14C	813.0108	Spring Pin	1
14D	809.0139	O' Ring	1
14E	615.3021	Valve Cap	1
14F	712.3022	Valve Spring	1
14G	618.3022	Valve Stem	1
14H	809.0089	O' Ring	1
ITEMS NOT SHOWN			
N/A	446.1520	SF1 Service Kit - Cruciform head Inc: 2,3,4,5,11,12,14B,14C,14D,14F,14G,14H, Extractor Plate & Pin	1
N/A	633.5301	Scaler Head Extractor Plate	1
N/A	827.0428	Extractor Pin	1
N/A	426.5352	Bush Hammer Head	1
N/A	606.5303	Beryllium Copper Head	1
N/A	859.1555	1/2" Inline Oiler	1
N/A	815.5550	Safety Whip Check	1
N/A	458.1555	Whip Hose & Oiler Assembly	1

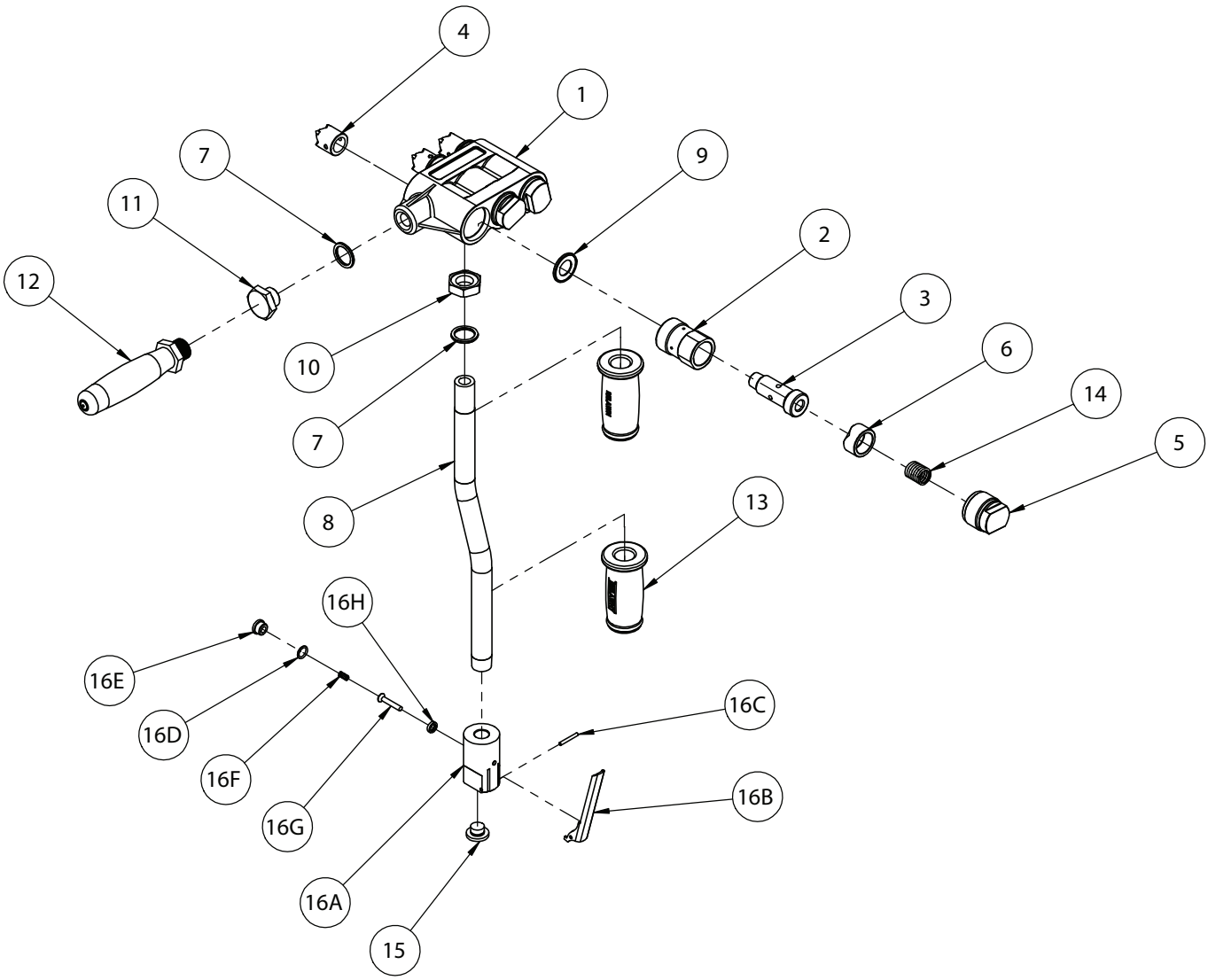
EXPLODED VIEW - SF1 VL



PARTS LIST - SF1 VL

ITEM NO.	PART NO.	DESCRIPTION	QUANTITY
1	411.5121	Single Scaler Body - Low Vib	1
2	426.5351	Cruciform Cutter Head	1
3	612.5301	Piston	1
4	613.5301	Cylinder	1
5	614.5301	Brush Seal	1
6	615.5361	Spring Cap	1
7	615.5341	Screw Cap	1
8	624.5350	Handle - Low Vib	1
9	712.5301	Spring	1
10	717.3060	Grip	2
11	719.1380	Flexible Connector	1
12	818.0375	3/8" BSP Plug	1
13	821.2000	Hose Clamp	2
14A	423.5321	Valve Body Assembly (Includes 14A-14H)	1
14B	716.3000	Throttle lever	1
14C	813.0108	Spring Pin	1
14D	809.0139	O' Ring	1
14E	615.3021	Valve Cap	1
14F	712.3022	Valve Spring	1
14G	618.3022	Valve Stem	1
14H	809.0089	O' Ring	1
ITEMS NOT SHOWN			
N/A	446.1520	SF1 Service Kit - Cruciform head Inc: 2,3,5,6,7,9,14B,14C,14D,14F,14G,14H, Extractor Plate & Pin	1
N/A	633.5301	Scaler Head Extractor Plate	1
N/A	827.0428	Extractor Pin	1
N/A	426.5352	Bush Hammer Head	1
N/A	606.5303	Beryllium Copper Head	1
N/A	859.1555	1/2" Inline Oiler	1
N/A	815.5550	Safety Whip Check	1
N/A	458.1555	Whip Hose & Oiler Assembly	1

EXPLODED VIEW - SF3



PARTS LIST - SF3

ITEM NO.	PART NO.	DESCRIPTION	QUANTITY
1	611.5301	Triple Scaler Body	1
2	613.5301	Cylinder	3
3	612.5301	Piston	3
4	426.5351	Cruciform Cutter Head	3
5	615.5341	Screw Cap	3
6	615.5361	Spring Cap	3
7	810.9001	Sealing Washer	2
8	624.5301	Handle	1
9	614.5301	Brush Seal	3
10	625.5301	Locknut	1
11	634.5301	Blanking Plug	1
12	422.5315	Side Handle	1
13	717.3060	Grip	2
14	712.5301	Spring	3
15	818.0375	3/8" BSP Plug	1
16A	423.5321	Valve Body Assembly (Includes 16A-16H)	1
16B	716.3000	Throttle lever	1
16C	813.0108	Spring Pin	1
16D	809.0139	O' Ring	1
16E	615.3021	Valve Cap	1
16F	712.3022	Valve Spring	1
16G	618.3022	Valve Stem	1
16H	809.0089	O' Ring	1
ITEMS NOT SHOWN			
N/A	446.1530	SF3 Service Kit - Cruciform heads Inc: 3,4,5,6,9,14,16B,16C,16D,16F,16G,16H, Extractor Plate & Pin	1
N/A	633.5301	Scaler Head Extractor Plate	1
N/A	827.0428	Extractor Pin	1
N/A	426.5352	Bush Hammer Head	1
N/A	606.5303	Beryllium Copper Head	1
N/A	859.1555	1/2" Inline Oiler	1
N/A	815.5550	Safety Whip Check	1
N/A	458.1555	Whip Hose & Oiler Assembly	1

TECHNICAL SPECIFICATIONS

DETAIL	SF1	SF1 VL	SF3
Part Code	151.5100 151.5105	196.5095 196.5090	153.5300 153.5305
Description	SF1 Single Scaler	SF1 VL Single Scaler	SF3 Triple Scaler
Piston Diameter	27mm	27mm	27mm
Piston Length	68.6mm	68.6mm	68.6mm
Piston Stroke	26mm	26mm	26mm
Blows Per Minute	3,000	3,000	3 x 3,000
Air Consumption	3.3l/s (7.0 cfm)	3.3l/s (7.0 cfm)	5.2l/s (11.0 cfm)
Air Pressure	6.2 bar (90 psi)	6.2 bar (90 psi)	6.2 bar (90 psi)
Air Inlet *	3/8" NPT	3/8" NPT	3/8" NPT
Length	465mm	515mm	450mm
Width	55mm	55mm	155mm
Height	90mm	90mm	115mm
Weight	2.5kg	2.5kg	3.7kg
Sound Pressure Level (LpA)	88.1	92.5	92.7
Sound Power Level (LwA)	101.1	106.3	105.7
Vibration Level m/s² Primary	6.8 (k)	3.7 (k)	13.4 (k)
Vibration Level m/s² Secondary	31.4 (k)	9.9 (k)	12.0 (k)
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.			
* 3/8" NPT x 1/2"BSP Adaptor included			

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

Vibration levels measured in accordance with:
BS EN ISO 28927-9:2009 and 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.

All rights reserved. Any unauthorised use or copying of the contents or part thereof is prohibited. This applies to trademarks, model denominations, part numbers and drawings.

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

TROUBLE SHOOTING

FAULT	POSSIBLE CAUSE	ACTION
Poor performance or lack of power	Low air pressure	Ensure that the air pressure is correct at 90psi.
	If tool has been unused for some time the oil may dry out slightly causing a sticky residue.	Strip tool down and re-oil.
	Can you feel side ways movement between the piston and cylinder bore.	Replace the piston and cylinder, along with a new brush 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.
Cutterhead will not stay on the piston	Too high an air pressure being used.	Ensure that the air pressure is correct at 90psi.
	Traces of oil remained on the tapered surfaces when replacing cutter head.	Ensure that the cutterhead and pistons tapers are completely free of oil, use a good degreasing agent and clean prior to assembly.
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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DEALER STAMP:

CONTACT US

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Manual Part Number:
735.5300 01

CERTIFIED
ISO 9001