



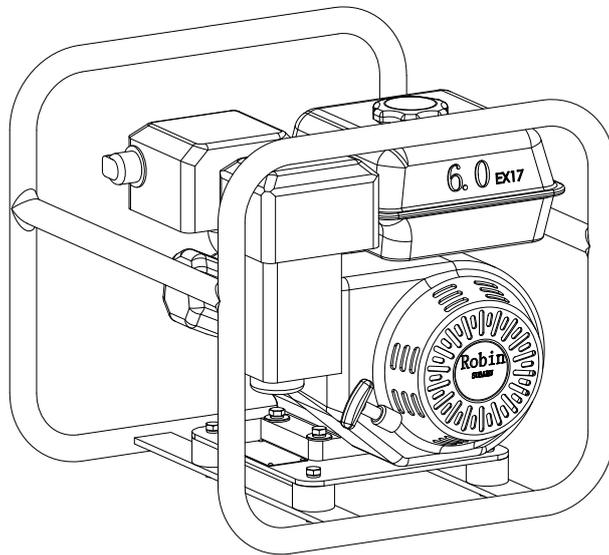
2012



TUV Rheinland Group



DRC



Operator's Manual

2

Spare Parts

11



Certified No:16569



015



005

Drive Unit

EC DECLARATION OF CONFORMITY / DECLARATION CE DE CONFORMITE / DECLARACIÓN DE CONFORMIDAD CE / DECLARAÇÃO CE DE CONFORMIDADE

GB/US

We, **Uni-corp Europe, 33 Avenue Pierre Brossolette, 94048 Créteil Cedex, France**, hereby certify that if the product described within this certificate is bought from an authorised Paclite dealer within the EEA, it conforms to the following directives: Machinery Directive 2006/42/EC, Electromagnetic Compatibility Directive 2004/108/EC (as amended by 92/31/EEC & 93/68 EEC). The physical agent (vibration) conforms with the directive 2002/44/EC. The low voltage directive 2006/95/EC, BS EN ISO 12100-1/2 Safety of machinery and associated harmonised standards, where applicable. Noise emissions conform to directive 2005/88/EC Annex VI), for machines under article 12 the notified body is **TÜV Rheinland Product Safety GmbH - Am Grauen Stein - D-51105 Köln, Germany**.

F

Nous soussignons, **Uni-corp Europe, 33 Avenue Pierre Brossolette, 94048 Créteil Cedex, France**, certifions que si le produit décrit dans ce certificat est acheté chez un distributeur de la marque déposée "Paclite" au sein de la EEA, celui-ci est conforme aux norms CEE ci-après: Norme de la machine 2006/42/CE, Norme compatible pour l'électromagnétisme 2004/108/CE (modifiée par 92/31/CEE et 93/68/CEE). Le nombre de vibrations est en accord avec la directive 2002/44/CE. Caractéristiques basse tension 2006/95/CEE, BS EN ISO 12100-1/2, Norme de sécurité des machines et des critères associés et configurés, si applicable. Les émissions de bruit sont conformes à la directive 2005/88/CE Annexe VI pour machines, article 12. L'objet mentionné est **TÜV Rheinland Product Safety GmbH - Am Grauen Stein - D-51105 Köln, Allemagne**.

E

La Sociedad, **Uni-corp Europe, 33 Avenue Pierre Brossolette, 94048 Créteil Cedex, France**, por el presente documento certifica que si el producto descrito en este certificado es comprado a un distribuidor autorizado de Paclite en la EEA, este es conforme a las siguientes directivas: 2006/42/CE de la CEE, Directiva 2004/108/CEE sobre Compatibilidad Electromagnética (según enmiendas 92/31/CEE y 93/68 CEE). El numero de vibraciones esta de acuerdo con la Directiva 2002/44/CE. Directiva sobre Bajo Voltaje 2006/95/CEE, BS EN ISO 12100-1/2 de Seguridad de Maquinaria y Niveles armonizados estándares asociados donde sean aplicables. Emisión de Ruidos conforme a la Directiva 2005/88/CE Anexo VI para máquinas bajo artículo 12 la mencionada unidad está **TÜV Rheinland Product Safety GmbH - Am Grauen Stein - D-51105 Köln, Germany**.

P

O signatário, **Uni-corp Europe, 33 Avenue Pierre Brossolette, 94048 Créteil Cedex, France**, pelo presente, declara que se o produto descrito neste certificado foi adquirido a um distribuidor autorizado do Paclite em qualquer país da EEA, está em conformidade com o estabelecido nas seguintes directivas comunitárias: 2006/42/CE, Directiva de Compatibilidade Electromagnética 2004/108/CEE (conforme corrigido pelas 92/31/EEC & 93/68 EEC). O numero de vibrações está de acordo com a directiva 2002/44/CE LB. A directiva de baixa voltagem 2006/95/CEE, BS EN ISO 12100-1/2 Segurança da maquinaria e às normas harmonizadas afins se aplicáveis. As emissões de ruído respeitam e estão dentro das directivas para máquinas 2005/88/CE Anexo VI, artigo 12, sendo o organismo notificado **TÜV Rheinland Product Safety GmbH - Am Grauen Stein - D-51105 Köln, Germany**.

PRODUCT TYPE.....	TYPE DE PRODUIT....	TIPO DE PRODUCTO..	TIPO DE PRODUCTO..
MODEL.....	MODELE.....	MODELO.....	MODELO.....
SERIAL No.....	Nº DE SERIE.....	Nº DE SERIE.....	Nº DE SÉRIE.....
DATE OF	DATE DE	FECHA DE	DATA DE
MANUFACTURE.....	FABRICATION.....	FABRICACIÓN.....	FABRIC.....
WEIGHT.....	POIDS.....	PESO.....	PESO.....



Signed by:

Signature:

Anita Tan

Quality Manager - On behalf of Uni-corp Europe

Directrice de Qualité - au nom de Uni-corp

Europe S.A.R.L.



Foreword

This manual has been written to help you operate your DRC Drive Unit safely. It is intended primarily for dealers and operators of DRC Drive Units. It is recommended that you keep this manual or a copy of it with the machine so that it is readily available for reference.

Before you operate or carry out any maintenance on this machine YOU MUST READ and UNDERSTAND this manual.

Should you have ANY QUESTIONS about the safe use or maintenance of this machine after reading this manual, ASK YOUR SUPERVISOR or CONTACT:

Uni-corp Europe on +33 (0) 1 4981 6955

Paclite reserves the right to change machine specification without prior notice or obligation.

Directions with regard notations

Text in this manual to which special attention must be paid are shown in the following way:



CAUTION

This CAUTION sign indicates a potential hazard, which if ignored, could result in injuries to the operator and/or those close by, as well as damaging the machine.



WARNING

This WARNING sign indicates a potential hazard, which if ignored could result in the DEATH of the operator and/or those close by.

Contents

Foreword.....	2
Safety Information	3-4
Machine Description	5
Operation	6
Pre-Start Checks	6-7
Start And Stop Procedure.....	7
Service and Maintenance	7-8
Trouble Shooting	9
Technical Data.....	9
Transportation and Storage.....	9
Warranty	10
Spare Parts.....	11-12

Safety Information

For your own personal protection and for the safety of those around you, please read and ensure you fully understand the following safety information. It is the responsibility of the operator to ensure that he/she fully understands how to operate this equipment safely. If you are unsure about the safe and correct use of the Drive Unit, consult your supervisor or Paclite Equipment.



CAUTION

Improper maintenance can be hazardous. Read and understand this section before you perform any maintenance, service or repairs.

General Safety

- The owner of this machine must observe, and also train the user of the machine to observe, the effective labour protection laws in the country of application.
- This machine is to be used for its intended application only.
- This machine must only be operated by well-trained personnel.
- Personal Protective Equipment (PPE) must be worn by the operator whenever the equipment is being used.
- Cordon off the work area and keep members of the public and unauthorised personnel at a safe distance.
- Make sure you know how to safely switch this machine OFF before you switch it ON in case you run into any difficulties.
- Always switch OFF the engine before servicing it.
- During use, the engine becomes very hot. Always allow the engine to cool down before touching it.
- Never leave the engine running and unattended.
- Never remove or tamper with any fitted guards; they are there for your own protection. If they are damaged or missing, DO NOT USE THE MACHINE until the guard has been replaced or repaired.
- Always switch OFF the engine before transporting it, moving it around site or servicing it.
- Do not operate the machine when you are ill, feeling tired or when under the influence of alcohol or drugs.
- This machine is designed to eliminate the possible risks arising from the use of it. However, risks DO reside, and these residual risks are not clearly recognisable and may cause personal injury or property damage, and possibly death. If such unpredictable and unrecognisable risks become apparent, the machine must be stopped immediately, and operator or his supervisor must take appropriate measure to eliminate such risks. It is sometimes necessary that the manufacturer must be informed of such an event for future counter measuring.



Fuel Safety



Fuel is flammable. It may cause injury and property damage. Shut down the engine, extinguish all open flames and do not smoke while filling the fuel tank. Always wipe up any spilled fuel.

- Before re-fuelling, switch off the engine and allow it to cool.
- When re-fuelling, use a proper funnel, and avoid spilling over the engine.
- When re-fuelling, DO NOT smoke or allow naked flames in the area.
- Spilt fuel must be made safe immediately by using sand. If fuel is spilt on your clothes, change them.
- Store fuel in an approved, purpose made container away from heat and sources of ignition.

Health & Safety

Fuel

Do not ingest fuel or inhale fuel vapors and avoid contact with your skin. Wash fuel splashes immediately. If you get fuel in your eyes, irrigate with copious amounts of water and seek medical attention as soon as possible.

Exhaust Fumes



The exhaust fumes produced by this machine are highly toxic and can kill! Make sure the work area is adequately ventilated.

PPE (Personal Protective Equipment)

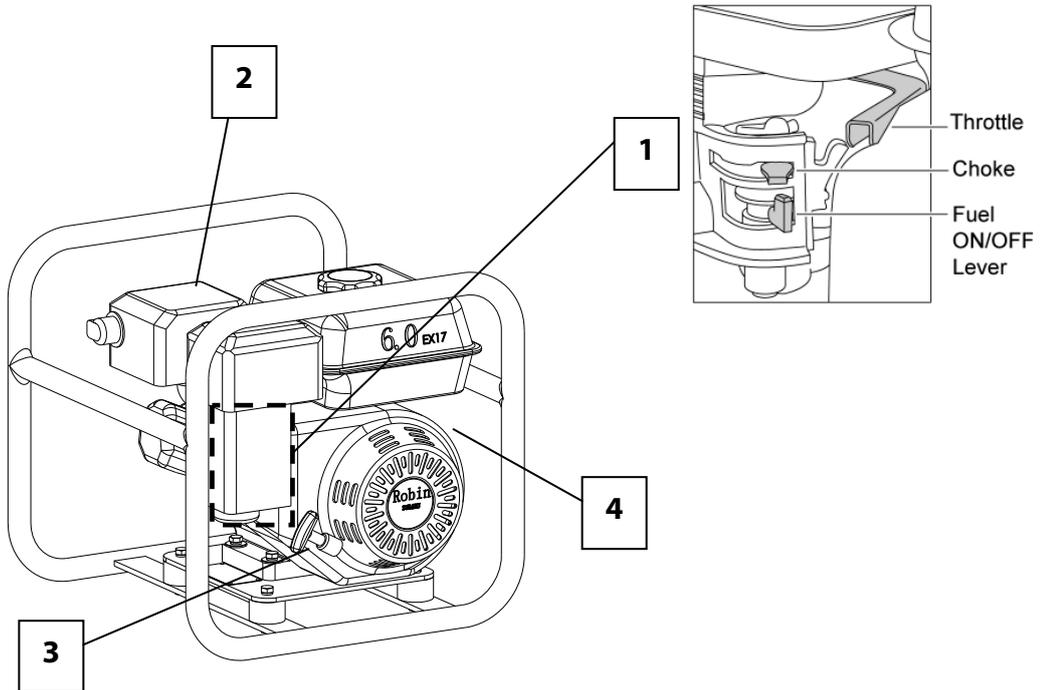
Suitable PPE must be worn when using this equipment i.e. safety goggles, gloves, ear defenders, dust mask and steel toe-capped footwear (with anti-slip soles for added protection). Wear clothing suitable for the work you are doing. Always protect skin from contact with concrete.

Environment

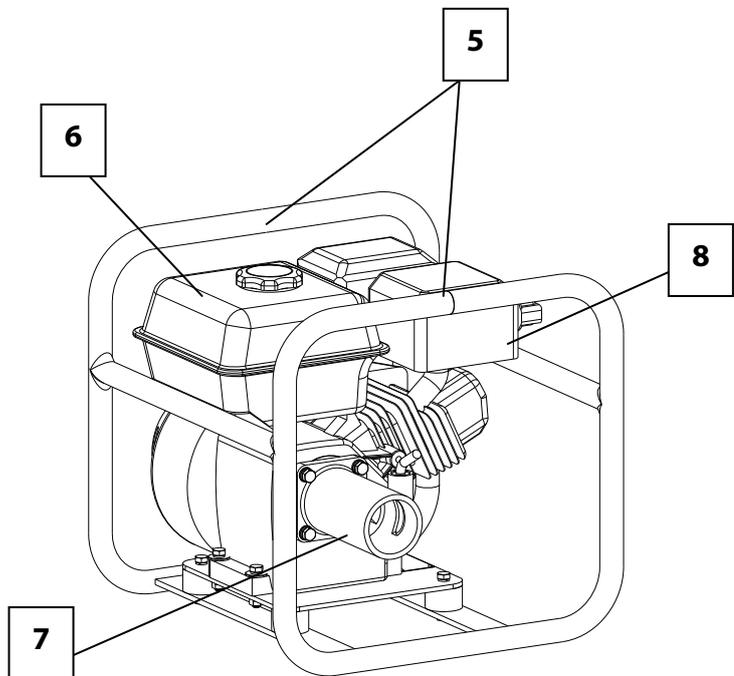


In order to protect the environment please recycle any discarded apparatus or accessories. Various parts are made from steel, aluminium and rubber. Take the discarded apparatus to the relevant recycling facilities

Machine Description



1. See diagram
2. Air filter housing
3. Recoil starter
4. Engine ON/OFF switch
5. Lifting points
6. Fuel tank (petrol)
7. Housing (coupling connection point)
8. Exhaust



N.B. Drawing based on Robin EX17 engine. For other engines please refer to the manufacturer's handbook.



Operation

Before connecting anything to the drive unit, the engine should first have the correct operating temperature. Start the engine and run idle for a few minutes and then switch off again. Refer to the Start/Stop Procedure.



CAUTION

Risk of serious hand injury due to rotating parts. Keep hands away from the unit's housing during the warm-up period.

Connection Procedure

After warming up the engine you are now ready to connect your unit to the flexible drive shaft. Before connecting the flexible shaft to the unit, you must lay the shaft out to its full length.

1. To assemble the flexible drive to the Drive unit, twist the spring-mounted lever on the flange 180° in a clockwise direction and insert the flexible drive end piece connector.
2. On releasing the lever the rod mechanism should locate in the groove of the end piece connector.
3. If the rod mechanism fails to locate, rotate the engine crank shaft with the rope start or handle while pushing the end piece in.



- Once all connections are securely in place you may now start the engine. Refer to the Start/Stop Procedure.
- The engine should now be running at idle speed. Always check the engine for any signs of unusual noise. If there are any abnormalities stop the machine immediately and refer to the section on trouble shooting.
- When you are ready to begin operation set the throttle to maximum.
- To stop the drive unit refer to the Start/Stop Procedure.

Pre-Start Checks

The following inspection must be performed before the start of each work session or after every four hours of use, whichever is first. Please consult the service section for detailed guidance. If any fault is discovered, the machine must not be used until the fault is rectified.

1. Thoroughly inspect the machine for signs of damage.
2. Check hoses, filler openings, drain plugs and any other areas for signs of leakage. Fix any leaks before operating.

3. Check the engine oil level and top up if required. Use proper engine oil with the proper viscosity (SAE 10W-30 is recommended).
4. Check the engine fuel level and top up as necessary. Use clean fuel. The use of contaminated fuel may damage the fuel system.
5. Check for oil and fuel leaks.

Start and Stop Procedure



Improper operation can be hazardous. Read and understand this section before you start the machine.

1. Open the fuel cock.
2. Turn the STOP SWITCH to the position 'I' (ON)
3. Set the speed control lever 1/3 of the way towards the high speed position.
4. Close the choke lever.
 - If the engine is cold or the ambient temperature is low, close the choke lever fully.
 - If the engine is warm or the ambient temperature is high, open the choke lever half way, or keep it fully open.
5. Pull the starter handle slowly until resistance is felt. This is the '*compression*' point. Return the handle to its original position and pull swiftly. Do not pull out the rope all the way. After starting the engine, allow the starter handle to return to its original position while still holding the handle.
6. After starting the engine, gradually open the choke by turning the choke lever and finally keep it fully opened. Do not fully open the choke lever immediately when the engine is cold or the ambient temperature is low, because the engine may stop.
7. To stop the engine, Set the speed control lever at the low speed position and allow the engine to run at low speed for 1 to 2 minutes before stopping.
8. Turn the STOP SWITCH counter-clockwise to the position '0' (OFF)
9. Close the fuel cock.
10. Pull the starter handle slowly and return the handle to its original position when resistance is felt. This operation is necessary to prevent outside moist air from intruding into the combustion chamber.

Service and Maintenance



Before carrying out any maintenance on this machine ensure the engine has been switched off. The engine should also be allowed to cool as parts of the engine become hot during use.



The Paclite Equipment Drive Units are designed to give many years of trouble free operation. It is, however, important that the simple regular maintenance listed in this section is carried out. It is recommended that an approved Paclite Equipment dealer carries out all major maintenance and repairs. Always use genuine Paclite Equipment replacement parts, the use of spurious parts may void your warranty.

Before any maintenance is carried out on the machine, switch off the engine. For petrol machines, disconnect the HT lead from the sparkplug. Always set the Drive Unit on level ground to ensure any fluid levels will be correctly read. Only use recommended oils (see chart below).

Running In Period

When the Drive Unit is first used from new, the engine oil must be changed after the initial running in period (see engine manual for full details)

Routine Maintenance		After first 4 hours	First month / 20 hours	3 months / 50 hours	6 months / 100 hours
Air Filter	Check Condition		•		•
	Clean / Replace			•	
Engine Oil	Check Level	•			
	Change		•		•
Spark Plug	Check / Clean				•

Oil/Fuel Type & Quantity—Spark Plug Type						
	Oil Type	Quantity (litres)	Fuel Type	Capacity (litres)	Spark plug Type	Electrode Gap
GX160	SAE 10W-30	0.6	Unleaded Petrol / Gasoline	2.5	NGK BR-6HS	0.6-0.7mm
EX17		1.1		3.6		
EY20		0.6		3.8		

Note: When servicing the engine please refer to the engine manual for instructions.

Trouble Shooting

Problems	Possible Causes	Countermeasures
Engine stops suddenly or does not run.	<ol style="list-style-type: none"> 1. No fuel 2. Engine switched off 3. Spark plug fouled 4. Engine cold 5. Engine flooded 	<ol style="list-style-type: none"> 1. Open fuel cap, fill fuel tank 2. Switch engine on 3. Clean & reset plug gap 4. Close choke 5. Open choke, fully open throttle & pull recoil starter until engine fires.
Engine will not start	Major fault	Contact Agent or Paclite Equipment

Technical Data

Model	EX17	EY20	GX160
Machine Width (mm)	370		
Machine Height (mm)	460		
Machine Length (mm)	420		
Engine Type	4-Stroke Gasoline/Petrol (unleaded)		
Max. Power Output - hp (kW)	6.0(4.2)	5.0(3.7)	5.5(4)
Max. Engine Speed (rpm)	3,600 - 4,000		3.600

Transportation and Storage

- When it is not used for long periods of time, store the drive unit in a clean, dry and protected environment.
- When transporting, ensure the drive unit is safe against damage occurring as a result of slipping, overturning and sudden impact. Always transport the engine in an upright position.
- Never transport the unit while the engine is running even if it is only for a short distance.
- If you do not use the engine for more than a month, discharge the fuel in order to prevent the build up of gum in the fuel system and carburetor parts (refer to engine manual for instructions).



Warranty

Your new Paclite DRC Drive Unit is warranted to the original purchaser for a period of one-year (12 months) from the original date of purchase.

The Paclite Equipment warranty covers defects in design, materials and workmanship.

The following are not covered under the Paclite Equipment warranty:

1. 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.
2. Alterations, additions or repairs carried out by persons other than Paclite Equipment or their recognised agents.
3. Transportation or shipment costs to and from Paclite Equipment or their recognised agents, for repair or assessment against a warranty claim, on any machine.
4. Materials and/or labour costs to renew, repair or replace components due to fair wear and tear.
5. The engine, air filter and the engine spark plug.

Paclite Equipment and/or their recognised agents, directors, employees or insurers will not be held liable for consequential or other damages, losses or expenses in connection with or by reason of or the inability to use the machine for any purpose.

Warranty Claims

All warranty claims should firstly be directed to Uni-corp Europe, either by telephone, by fax, by email, or in writing.

For warranty claims:

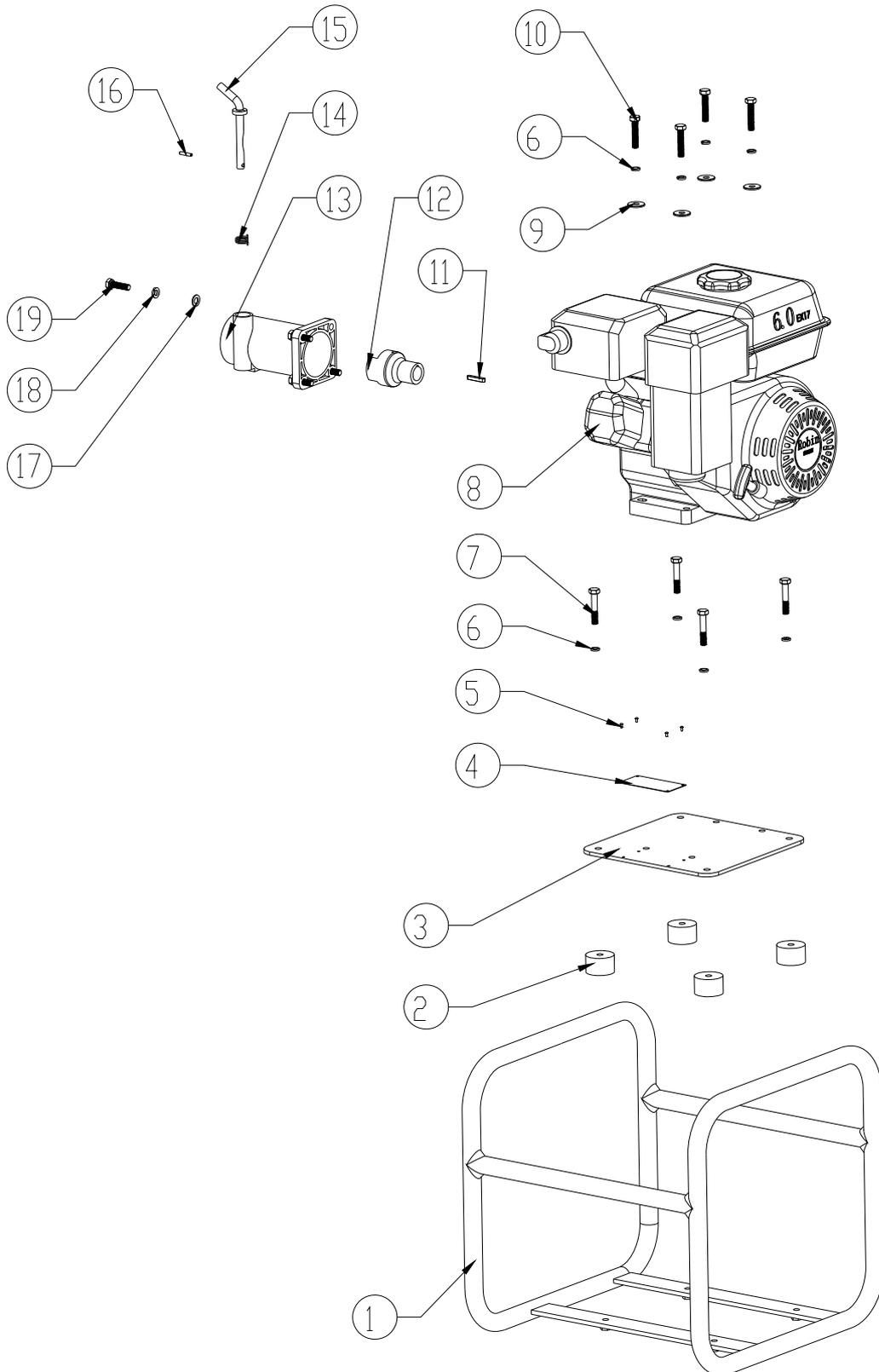
Uni-corp Europe S.A.R.L.,
Paclite Equipment,
33 Avenue Pierre Brossolette,
94048 Créteil Cedex,
FRANCE

Tel : +33 (0) 1 4981 6955

Fax: +33 (0) 1 4898 4088

Email: sales@paclite-equip.com

Spare Parts Drawing





Spare Parts List

No.	Part No.	Part Description
1	DRCEX17(DH)-EB-0300-A	ENGINE BASE
2	DRCEX17(DH)-EB20B-0103	RUBBER ABSORBER
3	DRCEX17(DH)-EB-0310-A	FIXING PLATE
4	DRCEX17(DH)-RAM80-0409	NAMEPLATE
5	DRCEX17(DH)-K.RVT-3.2x7.1	RIVET
6	DRCEX17(DH)-SPG.W8-DIN-1	SPRING WASHER
7	DRCEX17(DH)-FN.B-M8x45-8.8-DIN-1	BOLT
8	DRCEX17(DH)-W05-EX17	ENGINE
9	DRCEX17(DH)-WOD.W8-GB-1	WASHER
10	DRCEX17(DH)-FN.B-M8x40-8.8-DIN-1	BOLT
11	DRCEX17(DH)-Key.A-5x5x30	KEY
12	DRCEX17(DH)-VIBTCC-1102	ENGINE DRIVE SHAFT
13	DRCEX17(DH)-F05081P	PACLITE HOUSING
14	DRCEX17(DH)-F04837	SPRING
15	DRCEX17(DH)-F04835	TRIGGER
16	DRCEX17(DH)-SC.PIN-4x20	SPRING PIN
17	DRCEX17(DH)-FN.W8-DIN-1	WASHER
18	DRCEX17(DH)-HSPG.W8-DIN-1	SPRING WASHER, TANG ENDS
19	DRCEX17(DH)-FN.B-M8x30-8.8-DIN-1	BOLT

Notes



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2012
