

# Electric Airless Sprayer

| Model              | QP036                               | QP031                                  |  |
|--------------------|-------------------------------------|--|--|
| Motor Type         | 1800W Brushless Mode Model          | 1500W Brushless Mode Model             |  |
| Power input        | 1800W                               | 1500W                                  |  |
| Voltage            | See machine nameplate               |  |  |
| Max Tip Size       | 0.035 in.                           | 0.031 in.                              |  |
| Max Flow           | 5.3 I/min (1.4 gpm)                 | 3 I/min (1.4 gpm) 4.17 I/min (1.1 gpm) |  |
| Max Pressure       | 227 bar (3,300 psi)                 |  |  |
| Dimensions (LxWxH) | 670mmx580mmx810mm                   |  |  |
| Net Weight         | 61 kg (134.2 Lbs) 59 kg (129.8 Lbs) |  |  |

| Material Applications |  |  |
|-----------------------|--|--|
| Wood interior:        | Lacquer, Varnish, Stain, Sealer, Enamel,                       |  |
| Ceiling:              | High-build,  |  |
| Wood exterior:        | Exterior Stain, Vinyl, Acrylic, Latex,                         |  |
| Masonry:              | Alkyd, Vinyl, Latex, Elastomeric, Block filler, Hand textures, |  |
| Masority.             | Paint for skim coat.   |  |
| Structural steel:     | Heavy coating.   |  |



Selector button for bar or psi display



On / Off Switch

Fluid Pressure Control Knob

#### **GENERAL SAFETY RULES**

WARNING! Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and / or serious personal injury. The term "power tool" in all of the warnings listed below refers to your mains-operated (corded) power tool.

#### SAVE THESE INSTRUCTIONS.

#### Work area

- a) Keep your work area clean and well lit. Cluttered benches and dark areas invite accidents.
- b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquid, gases, or dust. Power tools create sparks which may ignite the dust or fumes.
- c) Keep bystanders, children, and visitors away while operating a power tool.

  Distractions can cause you to lose control.

#### **Electrical Safety**

a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce the risk of electric shock.

Grounded tools must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances.

Never remove the grounding prong or modify the plug in any way. Do not use any adaptor plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. If the tools should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.

- b) Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep the cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged or entangled cords increase the risk of electric shock.
- e) When operating a power tool outdoors, use an outdoor extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

#### Personal Safety

- a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
- b) Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) Avoid accidental starting. Ensure the switch is in the off position before plugging in. Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.
- d) Remove adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the tool may result in personal injury.
- e) Do not overreach. Keep a proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust-related hazards.

#### Power tool use and care

- a)Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- b)Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c)Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d)Store idle tools out of reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

#### f)Keep cutting tools sharp and clean.

Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g)Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from intended could result in a hazardous situation.

#### Service

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

If the supply cord of this power tool is damaged it must be replaced by a specially prepared cord available through the service organization.

Specific safety rules for Airless Sprayers
HANDLE THIS UNIT AS YOU WOULD A LOADED
WEAPON!

Extreme high pressure spray can cause extremely serious injury.

OBSERVE ALL WARNINGS!

#### SPECIFIC SAFETY RULES

WARNING: HIGH PRESSURE. Never leave pressurized system unattended. Always follow the Pressure Relief Procedure. Take precautions to avoid high pressure component rupture.

DANGER: INJECTION INJURY. Skin injection by high pressure paint is not a simple cut. It must be treated surgically immediately.

WARNING: FIRE AND EXPLOSION HAZARD. Take all precautions to avoid sources of sparks and ignition when spraying. Keep the machine at least 8 meters away from the spraying operation.

WEAR PROTECTIVE EQUIPMENT AT ALL TIMES.

Always use a respirator, eye protection and protective clothing.

Keep clear of moving parts when starting or operating the sprayer. Do not put your fingers into any openings to avoid amputation by moving parts or burns on hot parts. When starting the motor, maintain a safe distance from moving parts of the equipment.

Before adjusting or servicing any mechanical part of the sprayer, follow the PRESSURE RELIEF PROCEDURE

## EXPLOSION RISK FROM HALOGENATED HYDROCARBON SOLVENTS

Never use halogenated hydrocarbon solvents in this machine.

Contact with aluminum parts may cause an explosion.

Some of the most common of these solvents are: Carbontetrachloride, Chlorobenzene, Dichloroethane, Dichloroethyl Ether, Ethylbromide, Ethylchloride, &

#### PREVENT STATIC SPARKING FIRE/EXPLOSIONS

Tethrachloethane.

Vapors created when spraying can be ignited by sparks.

To reduce the risk of fire, always locate the sprayer at least 20 feet (6 m.) away from spray area. Do not plug in or unplug any electrical cords in the spray area. Doing so can cause sparks which can ignite any vapors still in the air. Follow the coating & solvent manufacturers safety warnings and precautions.

## MEDICAL ALERT - Airless Spray Injection Injuries

If any fluid appears to penetrate your skin,
GET EMERGENCY MEDICAL CARE AT ONCE.
DO NOT TREAT AS AN ORDINARY CUT.

High pressure fluids from spray or leaks are powerful enough to easily penetrate the skin and cause extremely serious injection injury, leading to the possible need for amountation.

- NEVER point the spray gun at anyone or any part of the body.
- NEVER put your hand or fingers over the spray tip. Do not use a rag or any other materials over your fingers. Paint

- will penetrate through these materials & into the hand.
- NEVER try to stop or deflect leaks with your hand or body.
- ALWAYS have the tip guard in place when spraying.
- ALWAYS lock the gun trigger when you stop spraying.
- ALWAYS remove tip from the gun to clean it.
- NEVER try to "blow back" paint, this is not an air powered sprayer.
- ALWAYS follow the PRESSURE RELIEF PROCEDURE before cleaning or removing the spray tip or servicing any system equipment.
- Be sure the equipment safety devices are operating properly before each use.
- Tighten all of the fluid connections before each use.
- NEVER alter equipment in any manner.
- **NEVER** smoke while in spraying area.
- **NEVER** spray highly flammable materials.
- NEVER use ground children.
- NEVER allow another person to use sprayer unless he is thoroughly instructed on its safe use and given this operator's manual to read
- ALWAYS wear a spray mask, gloves and protective eye wear while spraying.
- ALWAYS ensure fire extinguishing equipment is readily available and properly maintained.

## NEVER LEAVE SPRAYER UNATTENDED WITH PRESSURE IN THE SYSTEM. FOLLOW PRESSURE RELIEF PROCEDURES

#### ALWAYS INSPECT SPRAYING AREA

- Keep the spraying area free from obstructions.
- Make sure the spraying area has good ventilation to safely remove vapors and mists.
- NEVER keep flammable material in spraying area.
- NEVER spray in vicinity of open flame or other sources of ignition.
- The spraying area must be at least 20 ft. away from spray unit.

#### **SPRAY GUN SAFETY**

- ALWAYS set gun safety lock in the "LOCKED" position when not in use & before servicing or cleaning.
- NEVER remove or modify any part of the gun.
- ALWAYS REMOVE THE SPRAY TIP when cleaning. Flush unit at the LOWEST POSSIBLE PRESSURE
- ALWAYS check operation of all gun safety devices before each use.
- Be very careful when removing the spray tip or hose from the gun. A plugged line will contain fluid under pressure. If the tip or line is plugged, follow the pressure relief procedure

#### TIP GUARD

 ALWAYS have the tip guard in place on the spray gun while spraying. The tip guard alerts you to the injection hazard and helps prevent accidentally placing your fingers or any part of your body close to the spray tip.

#### **SPRAY TIP SAFETY**

- Use extreme caution when cleaning or changing spray tips. If the spray tip clogs while spraying, engage the gun safety latch immediately. ALWAYS follow the PRESSURE RELIEF PROCEDURE and then remove the spray tip to clean it
- NEVER wipe off build up around the spray tip.

#### TOXIC FLUID HAZARD

- ALWAYS remove tip guard & tip to clean AFTER pump is turned off and the pressure is relieved by following the PRESSURE RELIEF PROCEDURE.
- Hazardous fluid or toxic fumes can cause serious injury or death if splashed in eyes or on skin, inhaled or swallowed.
   Know the hazards of the fluid you are using. Store & dispose of hazardous fluid according to manufacturer, local, state & national guidelines.
- ALWAYS wear protective eyewear, gloves, clothing and respirator as recommended by fluid manufacturer.

#### HOSES

 Tighten all of the fluid connections securely before each use. High pressure fluid can dislodge a loose coupling or

- allow high pressure spray to be emitted from the coupling and result in an injection injury or serious bodily injury.
- Only use hoses with a spring guard. The spring guard helps protect the hose from kinks or other damage which could result in hose rupture and cause an injection injury. Do not allow kinking or crushing of hoses or allow it to vibrate against rough, sharp or hot surfaces.
- Use only conductive fluid hoses for airless applications. Be sure the gun is grounded through the hose connections. Use only high pressure airless hoses with static wire which are approved for 3000 psi.
- NEVER use a damaged hose, which
  can result in hose failure or rupture and
  cause an injection injury or other serious
  bodily injury or property damage.
  Before each use, check entire hose
  for cuts, leaks, abrasions, bulging of
  the cover, or damage or movement
  of couplings. If any of these conditions
  exist, replace the hose immediately.
- NEVER use tape or any device to try to mend the hose as it cannot contain the high pressure fluid. NEVER ATTEMPT TO RECOUPLE THE HOSE. A high pressure hose is not possible to recouple.

#### GROUNDING

 Ground the sprayer & other components in the system to reduce the risk of static sparking, fire or explosion which can result in serious bodily injury and property damage. For

- detailed instructions on how to ground, check your local electrical code.
- ALWAYS ensure switch is in OFF position before plugging unit in.

#### Always Ground All of These Components:

- 1. Sprayer: plug the power supply cord, or extension cord, each equipped with an undamaged three-prong plug, into a properly grounded outlet. DO NOT USE AN ADAPTER. Use only a 3 wire extension cord that has a grounding plug, and a receptacle that will accept the grounding plug on the product. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. If in doubt, use the next heavier gauge.
- 2. Fluid hose: use only grounded hoses.
- Spray gun or dispensing valve: grounding is obtained through connection to a properly grounded fluid hose and pump.
- 4. All solvent pails must be conductive metal material and properly grounded. Do not place on a non conductive insulating surface unless a ground wire is added to a true earth such as a metal water pipe.

**ALWAYS** ensure fire extinguishing equipment is readily available and properly maintained

#### FLUSHING SAFETY

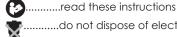
## WHEN SPRAYING & CLEANING WITH FLAMMABLE PAINTS AND THINNERS

- When spraying with flammable liquids, the unit must be located a minimum of 25 feet away from the spraying area in a well ventilated area. Ventilation must be sufficient enough to prevent the accumulation of vapors.
- To eliminate electrostatic discharge, ground the spray unit, paint bucket & spraying object. See GROUNDING. Use only high pressure airless hoses approved for 3000 psi which is conductive.
- Remove the spray tip before flushing.
   Hold the metal part of the gun firmly to the side of a metal pail & use the lowest possible fluid pressure during flushing.
- Never use high pressure in the cleaning process. USE MINIMUM PRESSURE.
- Do not smoke in spraying/cleaning area.

#### Symbols used in this manual

V.....volts
A....amperes
Hz...hertz
W....watt

~....alternating curren



......do not dispose of electric tools, accessories and packaging together with household waste material

 NEVER use cleaning solvents with flash points below 140 degrees F. Some of these are: acetone, benzene, ether, gasoline, naptha. Consult your supplier to be sure.

#### **ASSEMBLY**

Tools needed: Two adjustable wrenches-not included.

1. Attach the hose to the pump and tighten with a wrench.



**2.** Attach the hose to the gun and tighten with two wrenches.

#### **ELECTRICAL CONNECTION**

The network voltage must conform to the voltage indicated on the tool name plate. Under no circumstances should the tool be used when the power supply cable is damaged. A damaged cable must be replaced immediately by an authorized Customer Service Center. Do not try to repair the damaged cable yourself. The use of damaged power cables can lead to an electric shock.

#### **Grounding Instructions**

This product must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

# WARNING - Improper installation of the grounding plug can result in a risk of electric shock.

If repair or replacement of the cord or plug is necessary, do not connect the green grounding wire to either flat blade terminal. The wire with insulation having a green outer surface with or without yellow stripes is the grounding wire and must be connected to the grounding pin. Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided. If the plug will not fit the outlet, have the proper outlet installed by a qualified electrician.

**IMPORTANT:** use only a 3-wire extension cord that has a 3-blade grounding plug and a 3-slot receptacle that will accept the plug on the product. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. an undersized cord will

cause a drop in line voltage resulting in loss of power and overheating. a 12 gauge cord is recommended. If an extension cord is to be used outdoors, it must be marked with the suffix W-A after the cord type designation. For example, a designation of SJTW-A would indicate that the cord would be appropriate for outdoor use.

#### OPERATION

Before beginning always check and tighten all fittings securely.

WARNING: A loose connection could burst loose under pressure causing a hazardous condition. Ensure that all connections are tight. This includes both ends of the hose, the gun filter, the tip guard, the pump filter, and the suction tube aland nut

WARNING: Always ensure that the gun safety latch is in the locked position.

The gun safety latch should always be set. The only time the trigger should be unlocked is when the gun is actually being triggered.



Leave the tip out of the gun when priming, flushing and cleaning.

Lubricate the packings: Fill the packing nut/ wet cup with about 2-3 drops of throat seal oil.



#### Prepare at least three buckets

The first bucket will hold the material to be sprayed.

The second bucket will hold flushing fluid, which will be either mineral spirits (for oilbased materials), lacquer thinner (for lacquers), water (for water based materials), or soapy water (for converting from oilbased or lacquer to water-based materials). The third bucket will be the waste bucket.

#### **Flushing**

#### When to flush the pump

- When the pump is filled with storage fluid, as when you are operating your new airless sprayer for the first time, or taking out of storage. Flush with mineral spirits. (If you plan to use water-based material see part 2 below.)
- 2. When changing between oil-based and water-based materials. First flush with mineral spirits, followed by a soapy water flush, followed by a clear water flush.

- When changing between water-based and oil-based materials. First flush with clear water, then flush with mineral spirits.
- When changing colors. Flush with a compatible solvent, such as water or mineral spirits as needed.
- When cleaning up. See the section on CLEANUP later in this manual.
- Storage. Leave the pump filled with a 50/50 mixture of mineral spirits and motor oil.

CAUTION: Never leave water in the pump for more than about a day. Flush with mineral spirits.

#### How to Flush

- 1. Place the suction tube/suction hose in a flushing bucket filled with clean flushing fluid: either mineral spirits (for oil-based materials), lacquer thinner (for lacquers), water (for water-based materials), or soapy water (for converting from oil-based to water-based materials). (For hopper equipped models: simply pour some flushing fluid into the hopper).
- Separate the drain tube from the suction tube (if they are clipped together) and place it in an empty waste bucket.
- 3. Open the priming valve.
- **4.** Ensure that the unit is turned off and the pressure control knob is at the minimum (anticlockwise) setting. Plug the unit in.

- **5.** Turn the unit on.
- 6. Turn the pressure control knob clockwise to increase the pressure just enough to let the pump run.
- 7. Allow the pump to run and watch the fluid discharging from the drain tube. Allow the fluid to discharge until completely clean flushing fluid is coming out. The hose and gun also need to be flushed when changing colors or when switching between different types of materials/paints:

(If the hose and gun do not need flushing, proceed to step 11.)

8. With the tip and tip guard removed from the gun, point the gun into the waste bucket and hold the trigger open.

WARNING: Risk of static sparking, fire or explosion Hold the metal part of the gun firmly to the side of a metal pail. All solvent pails must be conductive metal material and properly grounded. Do not place on a non conductive insulating surface unless a ground wire is added to a true earth such as a metal water pipe.

- **9.** Close the priming valve.
- 10. Allow the pump to run and watch the fluid discharging from the gun. Allow the fluid to discharge until completely clean flushing fluid is coming out.

WARNING: Do not release the gun trigger during this process. If you release the trigger, pressure will build in the line and when you re-squeeze the trigger there will be a

#### splashback hazard.

11. Then turn the unit off and turn the pressure control knob anticlockwise back to the minimum setting. Then unplug the unit.

The pump is now clean and ready to be primed with material.

#### Priming

This is a high pressure pump and all air and unwanted fluids must be bled out of the pump and lines before spraying can begin. Ensure that the tip and tip guard are removed from the gun and the trigger is locked.

#### To prime

- 1. Place the suction tube in the material bucket. (For models equipped with a hopper, pour material into the hopper).
- **2.** Place the drain tube in a waste bucket and open the priming valve.
- Ensure that the pressure control knob is in the minimum position and the unit is switched off. Plug the unit in and turn it on
- 4. Slowly turn the pressure control knob clockwise to increase the pressure just enough to let the pump run.
- 5. Allow the pump to run and watch the fluid discharging from the drain tube. Allow the fluid to discharge until pure material is coming out.
- 6. Point the gun into the waste bucket,

- unlock the trigger and hold the trigger open. Then close the priming valve.
- 7. Keep the trigger held open and allow the pump to run and watch the fluid discharging from the gun. Allow the fluid to discharge until pure material is coming out. Turn the machine off.
- 8. To further bleed out any air, point the gun into the material bucket or hopper and hold the trigger open. Turn the machine on and allow clean material to recirculate. Watch the material to make sure there are no air bubbles.
- Now turn off the unit and lock the trigger

The drain tube may now be rejoined to the suction tube in the material bucket. (If you are using a hopper, place the drain tube in the hopper).

The unit is now primed and ready to install the tip and tip guard.

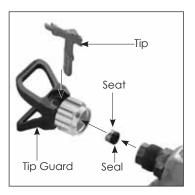
#### SPRAY TIP ASSEMBLY (reversible type tips)

WARNING: If the unit is pressurized, follow the PRESSURE RELIEF PROCEDURE before performing any adjustment with the tip.

Please see the section below **"Spray Tip Selection"** to choose the right tip for your application.

- 1. Double check to be sure the gun safety latch is locked before assembling tip and tip guard to the gun.
- 2. If it is not installed, ensure the seal is

- snapped in place on the seat and insert the seat into the tip guard. Make sure that it is aligned to the circular opening in the tip guard.
- **3.** Thread the tip guard onto the gun finger tight only.
- 4. Insert the tip into the tip guard and ensure that it is fully home. Rotate the tip all the way to the forward position. (the arrow on the tip handle will point forward). The tip can be rotated 180 degrees for clearing clogs.
- Turn the tip guard assembly to the desired orientation and tighten the lock nut firmly by hand only.



WARNING: Never attempt to spray with the tip in any position in-between either fully forward or fully reversed. It could cause a high pressure hazard.

You are now ready to spray.

#### PRESSURE RELIEF PROCEDURE.

Whenever you stop spraying, even for a short break, follow the "Pressure Relief Procedure".

IMPORTANT! To avoid possible serious body injury, always follow this procedure whenever the sprayer is shut off, when checking it, when installing, changing or cleaning tips, when adding material and whenever you stop spraying for any reason. Never leave the unit unattended while in a pressurized condition.

- Engage the gun safety latch. (See page 14)
- 2. Turn the unit off. (See page 3~5)
- 3. Disengage the gun safety latch and trigger the gun to relieve residual fluid pressure. Hold metal part of the gun in contact with a grounded metal bucket. Re-engage safety latch.



4. Slowly turn the Priming Valve to the open (priming) position to relieve any residual fluid pressure. Then close priming valve. (See page 2)



WARNING: If the SPRAY TIP OR HOSE IS CLOGGED, Expect material splashing into the bucket while opening the Priming Valve. So open the valve very slowly and take precautions.

#### SPRAYING -ALL MODELS

Check the quality of the spray pattern on a piece of scrap material, such as cardboard. Turn the Pressure Control Knob Clockwise to increase pressure and counterclockwise to decrease pressure.

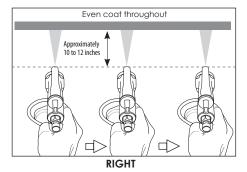
Start with a low spray pressure and slowly increase the pressure until a good spray pattern is achieved.

If the pressure is too low, the pattern will have "tails", which is a pattern with heavy, uneven edges. Keep testing and increasing pressure until a smooth, regular pattern is achieved. If the pressure is at maximum and the pattern is still not ideal, either go to a smaller orifice tip or thin the material.

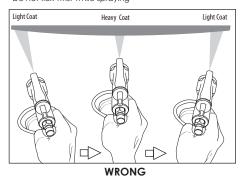
Do not raise the pressure any higher than is necessary. Operating the sprayer at a higher than necessary pressure wastes material, causes early tip wear, and shortens sprayer life. Excessive pressure can also result in bounce-back of the material and a rough finish.

#### **ALL MODELS**

While spraying, consistently hold the gun perpendicular, about 25-30cm (10-12 inches) away from the surface. Do not swing the gun. Do not tilt the gun.



Do not flex wrist while spravina



Trigger the gun before moving and release the trigger after each stroke. Overlap each previous stroke by half. Do this by aiming the tip to the edge of the previous stroke.

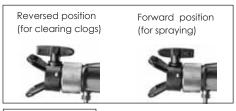
Work in sections within your reach. When painting corners, point the gun parallel to the corner. Cut in edges and corners first.

Then paint flat areas.

Do not allow the material to run out. Remember to follow the PRESSURE RELIEF PROCEDURE before refilling material. If the material does run out, the pump will suck in air. This air must be bled out before continuing. Follow the instructions for "Priming" above.

## TO REMOVE CLOGS FROM SPRAY TIP (reversible tips)

- Lock gun safety latch and follow the PRESSURE RELIEF PROCEDURE.
- 2. Turn Tip handle 180 degrees.
- **3.** Disengage trigger lock & trigger gun into pail.
- **4.** If the Tip handle appears locked loosen the retaining nut. The handle will now turn easily.
- **5.** Engage gun safety latch & return tip to the spray position.





Never attempt to spray with the tip in any position other than fully forward or fully reversed.

#### **CLOGGED FLAT TIP**

If you are using a flat tip and the spray tip becomes clogged, relieve pressure from hose by following the "PRESSURE RELIEF PROCEDURE." Secure gun with the safety latch, take off guard, take out the tip, soak in appropriate solvent & clean with a soft brush. (Do not use a needle or sharp pointed instrument to clean the tip. The tungsten carbide is brittle and can chip.)

#### SPRAY TIP SELECTION

Spray tip selection is based on paint viscosity, paint type, and job needs. There are two variables to identify the tip: orifice size and fan pattern width. The main variable is tip orifice size. Generally, use a smaller orifice tip For light viscosities (thin materials, like varnish), and use a larger orifice tip for heavier viscosities (thicker materials, like latex paints). Spray tip orifice size is based on how many gallons of paint per minute can be sprayed through the tip. Do not use a tip larger than the maximum pump flow rate or capacity the sprayer can accommodate. Pump flow rate is measured in gallons per minute (GPM) and liters per minute (LPM).

The other variable is the fan pattern width. Two tips having the same orifice tip size, but different fan widths will deliver the same amount of paint over a different area (wider or narrower strip). A spray tip with a narrow fan width makes it easy to spray in tight places. (Thickness of the material coat per stroke is determined by spray tip fan width,

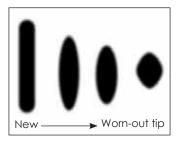
rate of the spray gun movement, and distance to surface.)

The numbers on the tip identify its orifice size and fan width. The first number on the tip identifies the fan width radius in inches. The last two numbers identify the orifice size in thousandths of an inch. So, for example, a 517 tip would have a 10 inch fan width (5 inch radius) and a 0.017 inch orifice size.

#### SPRAY TIP REPLACEMENT

During use, especially with latex paint, grit and impurities in the paint under high pressure will cause the orifice to grow larger from wear and for the fan pattern width to degrade.

It is easy to determine the state of wear of the tip by observing the fan pattern. As the tip wears, the fan width will become narrower. A new tip will have a pattern shaped like a narrow long rounded-corner rectangle. As it wears it will turn into an oval shape. When it is completely worn out it sprays a circle. When the fan width decreases to about 2/3 of its original size, it is considered worn out.



Note: To minimize tip wear, it is best to

always strain paint before use with a paint strainer bag and regularly clean all filters and strainers.

Replace tips before they become excessively worn. Worn tips waste paint, cause overspray, make cutting-in difficult, and decrease sprayer performance.

If the tip is the maximum rated size for your sprayer, when it wears, it will exceed the flow rate capacity of the machine. If when using the maximum capacity tip size the pump cannot keep up, then you know that the tip is worn beyond capacity.

#### **CLEANUP**

At the end of the day, the material in the line should be recovered and the machine thoroughly cleaned. This will avoid material drying in the pump or hose.

CAUTION: Under no circumstances allow material to dry in the pump. If material dries in the pump and hose, the pump will need to be completely disassembled and rebuilt and the hose will need to be discarded and replaced.

- Relieve pressure in the system according to the Pressure Relief Procedure.
- Remove the tip and tip guard and soak in the appropriate solvent for the material being used.
- Rinse off the suction tube and place in a bucket of the appropriate flushing solvent fluid. Usually this will be water (for

- water-based materials), mineral spirits (for oil-based materials) or lacquer thinner (for lacquers). Special flushing fluids may be required for component materials or epoxies, etc.
- 4. To reclaim the material in the pump, place the drain tube in the original material bucket. With the priming valve still in the open position, turn the machine on and turn the pressure control knob clockwise just enough to run the pump. watch the material discharging from the drain tube until the material begins to thin. This indicates that the flushing fluid is beginning to pump out. Now transfer the drain tube to the waste bucket and continue to flush until clear flushing fluid flows out.

For Hopper equipped models: Place the drain tube in the original material bucket and open the priming valve. Now run the machine at low pressure to pump all of the material out of the hopper and into the original material bucket. Once the hopper is empty, shut the machine off. Wipe the hopper with a rag and fill it with a sufficient quantity of the appropriate flushing solvent fluid.

- **5.** Shut off the machine and back off the pressure control knob to minimum. Close the priming valve.
- 6. To reclaim the material in the line, with the tip and guard removed, point the gun into the material bucket and hold the trigger open.
- Place the waste bucket right next to the material bucket
- **8.** Ensure that the pressure knob is in the

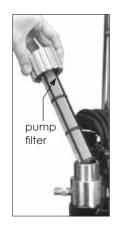
- minimum position and turn the unit on.
- 9. With the trigger held open, slowly turn the pressure knob clockwise to increase the pressure just enough to let the pump run.
- 10. Allow the pump to run and watch the material discharging from the gun. Allow the material to discharge until the material begins to thin. This indicates that the flushing fluid is coming up the hose...
- 11. Without releasing the trigger, quickly transfer the gun from the material bucket to the waste bucket next to it.

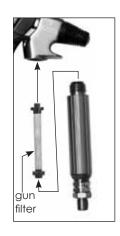
WARNING: Do not release the gun trigger during this process. If you release the trigger, pressure will build in the line and when you re-squeeze the trigger there will be a splashback hazard.

- 12. Keep the trigger held open and allow the pump to run and watch the fluid discharging from the gun. Allow the fluid to discharge until all traces of material are gone and pure flushing fluid is coming out.
- 13. Without releasing the trigger, transfer the gun to the flushing bucket and allow the flushing fluid to recirculate for 2-3 minutes to make sure that all traces of the material are cleaned out.
- 14. Turn off the machine and unplug. Open the priming valve to relieve residual pressure.
- 15. Remove the suction tube out of the flushing fluid. (If you are using a hopper, continue flushing until the hopper is

#### empty.)

- 16. Clean the inlet strainer or hopper strainer. Remove and clean it with a soft brush in the appropriate solvent and replace.
- 17. Clean the pump filter. Using the supplied wrench, remove the pump filter and clean it with a soft brush in the appropriate solvent. Then replace and tighten.





- 18. Clean the gun, tip, and gun filter. unclip the hand guard and rotate it out of the way. Then, using a wrench (not supplied) loosen the nut on the bottom of the handle and remove the handle to remove the gun filter. Clean the tip and filter with a soft brush in the appropriate solvent. Apply a small amount of light oil such as WD-40 to the inside of the spray gun housing. Place the filter in the spray gun and reassemble the unit by tightening the nut with the wrench.
- **19.** Clean the exterior of the sprayer with a rag soaked in the appropriate solvent.

**20.** If flushing was with water, flush again with mineral spirits to prevent corrosion inside the pump.

CAUTION: Never leave water in the pump for any length of time. Water will corrode the pump.

#### LONG TERM STORAGE

For long- term storage, fill the pump with a storage solution made of a 50/50 mix of motor oil and mineral spirits.

#### To fill the pump:

- Place the both the suction tube and drain tube in a small quantity of storage solution. (For hopper equipped models pour a small quantity of storage solution into the hopper.)
- With the priming valve in the open position, turn the machine on and turn the pressure control knob just enough for the pump to run.
- 3. Watch the drain tube and as soon as the storage solution appears in the tube, shut the machine off and close the priming valve. This will trap the storage solution inside the pump to protect it.

#### MAINTENANCE

#### HOURLY MAINTENANCE

We recommend after every hour of spraying, stop, follow the Pressure Relief Procedure and perform the following:

- Add about 2 drops of throat Seal Oil to lubricate the packings.
- Clean the pump filter.
- · Clean the gun filter.
- Clean the tip.
- Clean the inlet strainer or hopper strainer. As needed.

CAUTION: Never lay the pump on its back.

Material could flow backward and damage
the electronics or motor.

#### DAILY MAINTENANCE

- Keep the displacement pump packing nut lubricated with throat seal oil at all times. Add about five drops of oil to the top of the pump at the beginning of each day. Then two drops for every hour of spraying. The throat seal oil helps protect the piston, rod and packings.
- 2. Inspect the packing nut daily. If either of the following conditions exists the packing nut should be tightened:
  - **a.** Seepage of material past the packing is found.
  - b. While the system is pressurized during the intervals when the motor is not running, the piston doesn't hold its position. Rather, it tends to slip upward.

To tighten the packing nut: First loosen the hand knob 90 to lower the fence 99. (For brushless models loosen the butterfly bolt 35 and to raise the fence 33). Now reach the pin wrench end of the dual purpose wrench through the opening

and tighten the packing nut. Replace fence.

CAUTION: The packing nut should be tightened just enough to stop leakage only, but not any tighter. Overtightening will damage the packings and reduce packing life.

## Clean the intake check ball and seat.To clean:

- a. Using the supplied dual purpose wrench, loosen the gland nut to remove the suction tube (or hopper).
- **b.** Remove the check ball and ball guide and clean all related parts.
- **c.** Replace in the reverse of assembly and tighten.

#### PUMP PACKINGS

The packings are a wearing part. If the pump can no longer maintain pressure, has diffculty priming and paint seeps into the throat of the pump, and tightening the packing nut no longer helps, then the packings will require replacement. This is best entrusted to a qualified repair technician. To remove the pump and replace the packings, follow the instructions below:

#### PUMP REMOVAL

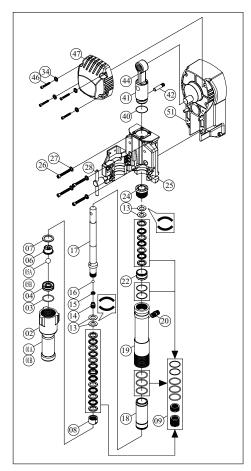
 Use the special spline wrench to loosen the gland nut (2) and remove the

- pickup tube (3) from the bottom of the pump. At the same time remove the inlet ball seat disc (5), o-ring (6), check ball (7) and ball guide (8)
- 2. Lay the machine on its back and remove the heat sink electronics unit (67). This will allow access to unplug the pressure sensor (12) from the electronics unit.
- Disconnect the junction (42) and three screws (40) on the pump filter bracket and remove the pump filter.
- 4. Turn the pump until the piston is at its lowest point. This will allow the retaining ring (33) to be removed. This in turn will allow you to push out the pump wrist pin (35).
- **5.** Remove the four bolts (9) to take off the pump unit.
- 6. Replacement is the reverse of removal. Grease the exposed portion of the piston and wrist pin when assembling.

#### PACKINGS REPLACEMENT:

- 1. Loosen screws (46), remove the gear cover (47).
- **2.** Loosen T-wrench clamp (28) and open the cover of Pump Carrier Clamp.
- Loosen screws (26), remove the Pump Carrier Clamp (25).
- **4.** Release Retaining Ring (40), remove the Pump Wrist Pin (42).
- **5.** Separate the Pump Housing (19) from the Drive piston (41).
- **6.** Release the gland nut (2) from the Pump Housing (19).

- 7. Loosen the Packing nut (24) from Pump Housing(19).
- **8.** Pull the Displacement Piston (17) out from Pump Housing (19).
- Remove the Packing set seat (22), release Intake disc seat (08) and remove and discard all old packings.
- Soak the new leather packings in W30 oil for at least one hour before assembling.
- 11. Replace the packings, glands, o-rings and check balls with the new parts form the rebuild kit. Strictly follow the exact order and orientation.

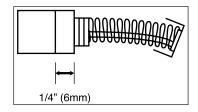


#### MOTOR MAINTENANCE

**LUBRICATION** – The gear case grease may be changed every 200 hours of operation. This is best entrusted to a qualified repair technician.

## THE CARBON BRUSHES (Only motors with carbon brush system)

The carbon brushes are a normal wearing part and must be replaced when they reach their wear limit. When the brushes are worn to a length of 1/4", they should be replaced as a set.



#### TO CHANGE THE BRUSHES

- 1. Unplug the machine.
- Remove the brush cap with a slothead screwdriver
- 3. Remove the brush.
- 4. Install new brushes in reverse order and replace covers



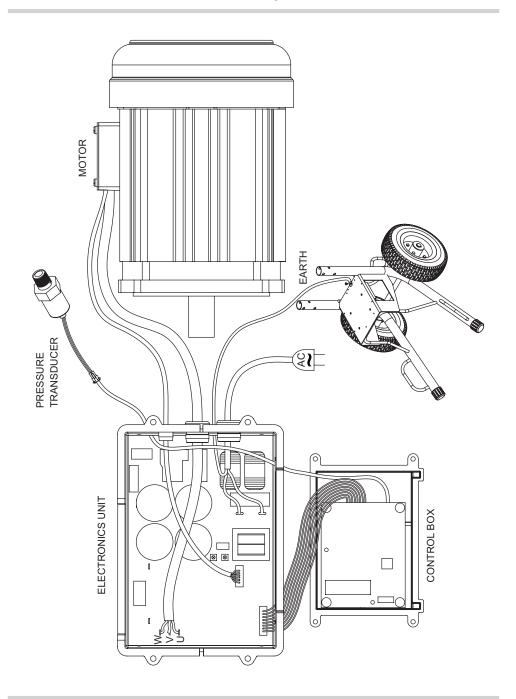
### **Troubleshooting**

| Problem: Motor will not run                 |  |
|---|--|
| Check                                       | Solution   |
| Electrical supply- must match voltage       | Use correct outlet                                   |
| on machine nameplate                        |  |
| Extension cord-check continuity             | Replace extension                                    |
| Power supply cable-check continuity         | Replace cable  |
| Carbon brushes                              | Replace brushes                                      |
| Bad switch                                  | Replace switch                                       |
| Motor damage                                | Replace or repair motor                              |
| Problem: Pump loses prime or will not prime | e  |
| Check                                       | Solution   |
| Low paint                                   | Refill   |
| Clogged inlet strainer                      | Clean  |
| Loose suction pipe                          | Tighten connection                                   |
| Intake ball not seating                     | Clean or replace                                     |
| Problem: Motor cannot turn pump             |  |
| Check                                       | Solution   |
| Paint hardened in pump                      | Replace packings and clean all pump and filter parts |
| Paint frozen in pump  Thaw pump             |  |
| Problem: Pressure problems                  |  |
| Check                                       | Solution   |
| Clogged tip or filter                       | Relieve pressure and clean                           |
| Problem: Motor cannot maintain pressure     |  |
| Check                                       | Solution   |
| Oversized tip                               | Use correct tip for spayer                           |
| Tip worn to become oversize                 | Relieve pressure and replace tip                     |
| Problem:Low output                          |  |
| Check                                       | Solution   |
| Worn tip                                    | Relieve pressure and replace tip                     |
| Worn packings                               | Replace packings                                     |
| Filter clogged                              | Relieve pressure and Clean filter                    |
| Priming valve leaking                       | Relieve pressure and repair valve                    |
| Suction pipe leaking or kinked.             | Correct kink, or tighten as needed                   |
| Low voltage                                 | correct problem, use shorter extension cord.         |
| Pump runs on when trigger is released       | Service pump or tighten packing nut                  |
| Problem: Motor runs intermittently          |  |
| Check                                       | Solution   |
| Pressure set too high for the tip size      | Adjust to the correct pressure                       |
| Problem: Motor hot and overloaded           | ·  |
| Check                                       | Solution   |
| Packings too tight                          | Properly adjust packing nut                          |

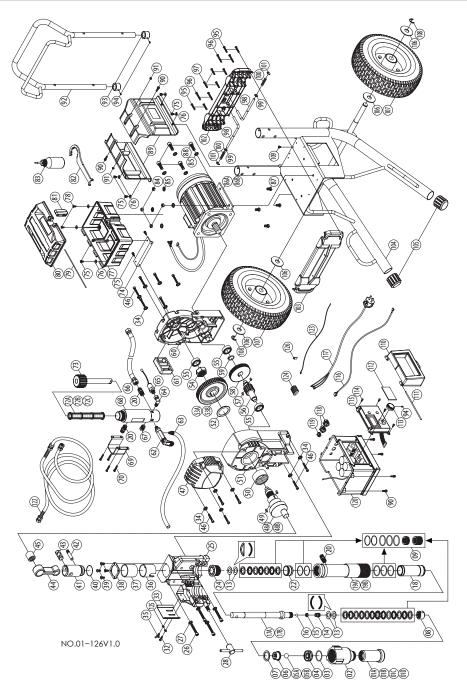
#### LCD screen error codes:

| Check |                               | Solution                             |  |  |
|-------|-------------------------------|--------------------------------------|--|--|
| E05   | disconnected                  | Check if Pressure transducer and LCD |  |  |
| E03   |                               | display are disconnected             |  |  |
| E06   | material shortage             | Fill material again                  |  |  |
| F07   | Overload (must be replaced by | Check Motor or Pressure transducer   |  |  |
|       | the service organization.)    | Check Were of Tressere Hansaccer     |  |  |
| E09   | Maximum pressure exceeded     | Check Pressure transducer            |  |  |

#### **WIRING**



#### **EXPLODED VIEW (QP031,QP036)**



## PARTS LIST (QP031,QP036)

| Item Q-Tech Part No. Description          |             | Q'TY  |  |  |
|---|-------------|-------|--|--|
|   | QP031       | QP036 |  |  |
| 1A QP031-1A SUCTION TUBE 4-160L           | 1           | -     |  |  |
| 1B QP036-1A SUCTION TUBE 4-105L           | -           | 1     |  |  |
| 1C QP031-1B SUCTION TUBE 10-160L          | 1           | -     |  |  |
| 1D QP036-1B SUCTION TUBE 10-105L          | -           | 1     |  |  |
| 2 QP036-02 GLAND NUT                      | 1           | 1     |  |  |
| 3 QP036-03 O-RING Ø39.3xØ45.1x2.8         | 1           | 1     |  |  |
| 4 QP036-04 INTAKE DISC                    | 1           | 1     |  |  |
| 5A QP036-5A CHECK BALL 7/8"(Ø22.22)       | 1           | 1     |  |  |
| 5B QP036-5B CHECK BALL 3/4"               | -           | 1     |  |  |
| 6 QP036-06 BALL GUIDE                     | 1           | 1     |  |  |
| 7 QP036-07 SPACER Ø33 x Ø44.5 x 3         | 1           | 1     |  |  |
| 8 QP036-08 INTAKE DISC SEAT Ø34 x 21      | 1           | 1     |  |  |
| 9 QP036-09 PISTON V-PACKING               | 1           | 1     |  |  |
| 10 N/A                                    | -           | -     |  |  |
| 11 N/A                                    | -           | -     |  |  |
| 12 N/A                                    | -           | -     |  |  |
| 13 QP036-13 DISC SPRING Ø25 x Ø34.7 x 1   | SUS 4       | 4     |  |  |
| 14 QP036-14 BALL SEAT FASTENER SUS 303    | 1           | 1     |  |  |
| 15 QP036-15 BALL SEAT-SMALL Ø7 x Ø15 x 5  | 5 1         | 1     |  |  |
| 16 QP036-16 CHECK BALL 3/8" SUS 440C (Q   |             | 1     |  |  |
| 17A QP031-17 DISPLACEMENT PISTON SUS 42   |             | -     |  |  |
| 17B QP036-17 DISPLACEMENT PISTON SUS 42   | 20-295.3L - | 1     |  |  |
| 18 QP036-18 PACKING SET HOLDER            | 1           | 1     |  |  |
| 19A QP031-19 PUMP HOUSING 187.5L          | 1           | -     |  |  |
| 19B QP036-19 PUMP HOUSING 242.5L          | -           | 1     |  |  |
| 20 QP036-20 OUTPUT NIPPLE PT 3/8" x 3/8"- | 19PF 3      | 3     |  |  |
| 21 N/A                                    | -           | -     |  |  |
| 22 QP036-22 PACKING SET SEAT Ø41.5 x 25   | 5 1         | 1     |  |  |
| 23 N/A                                    | -           | -     |  |  |
| 24 QP036-24 PACKING NUT Ø47 x 38          | 1           | 1     |  |  |
| 25 QP036-25 PUMP CARRIER CLAMP            | 1           | 1     |  |  |
| 26 QP036-26 SOCKET CAP BOLT M8 x 50       | 4           | 4     |  |  |
| 27 QP036-27 SPRING WASHER M8              | 4           | 4     |  |  |
| 28 QP036-28 T-HANDLE BOLT                 | 1           | 1     |  |  |
| 29 N/A                                    | _           | -     |  |  |
| 30 N/A                                    | -           | -     |  |  |
| 31 N/A                                    | -           | -     |  |  |
| 32 QP036-32 SCREW M6 x 10                 | 1           | 1     |  |  |
| 33 QP036-33 FENCE                         | 1           | 1     |  |  |
| 34 QP036-34 SPRING WASHER M6              | 12          | 12    |  |  |
| 35 QP036-35 BUTTERFLY BOLT M6 x 10        | 1           | 1     |  |  |
| 36 QP036-36 GUIDE CYLINDER Ø48 x Ø54 :    |             | 1     |  |  |
| 37 QP036-37 GUIDE CYLINDER Ø48 x Ø54 :    |             | 1     |  |  |
| 38. QP036-38 GUIDE CYLINDER PLATE Ø49 >   |             | 1     |  |  |

| Item     | Q-Tech Part No. | Description                               | Q'TY  |       |
|----------|-----------------|---|-------|-------|
| петп     | Q-Tech ran No.  | Description                               | QP031 | QP036 |
| 39       | QP036-39        | SCREW M5 x 15                             | 4     | 4     |
| 40       | QP036-40        | retaining ring Ø1.5 x Ø44 x Ø47           | 1     | 1     |
| 41       | QP036-41        | DRIVE PISTON                              | 1     | 1     |
| 42       | QP036-42        | PUMP WRIST PIN Ø12 x 52                   | 1     | 1     |
| 43       | QP036-43        | DRIVE WRIST PIN Ø20 x 42                  | 1     | 1     |
| 44       | QP036-44        | CONNECTING ROD                            | 1     | 1     |
| 45       | QP036-45        | NEEDLE BEARING TA 2530                    | 1     | 1     |
| 46       | QP036-46        | SOCKET CAP SCREW M6 x 35                  | 12    | 12    |
| 47       | QP036-47        | GEAR CAP                                  | 1     | 1     |
| 48A      | QP031-48        | SPINDLE 15.5                              | 1     | -     |
| 48B      | QP036-48        | SPINDLE 18                                | -     | 1     |
| 49       | QP036-49        | PARALLEL KEY 5 x 15                       | 2     | 2     |
| 50       | QP036-50        | NEEDLE BEARING TA 5530                    | 1     | 1     |
| 51       | QP036-51        | GEAR CASE                                 | 1     | 1     |
| 52       | QP036-52        | BUSHING Ø46 x Ø63 x 2                     | 1     | 1     |
| 53A      | QP031-53        | OUTPUT GEAR M2.5 x 56T                    | 1     | -     |
| 53B      | QP036-53        | OUTPUT GEAR M2.5 x 56T                    | -     | 1     |
| 54       | QP036-54        | NUT M30 x P2.0                            | 1     | 1     |
| 55       | QP036-55        | BALL BEARING 6203 zz                      | 3     | 3     |
| 56       | QP036-56        | GEAR PINION M2.5 x 14T                    | 1     | 1     |
| 57       | QP036-57        | PARALLEL KEY 5 x 12                       | 2     | 2     |
| 58       | QP036-58        | INPUT GEAR M1.5 x 59T                     | 1     | 1     |
| 59       | QP036-59        | EXTERNAL CIRCLIP S-25                     | 1     | 1     |
| 60       | QP036-60        | GEAR PLATE                                | 1     | 1     |
| 61       | QP036-61        | INLET STRAINER                            | 1     | 1     |
| 62       | QP036-62        | PRIMING VALVE                             | 1     | 1     |
| 63       | QP036-63        | DRAIN TUBE PT1/8" x 0.5M                  | 1     | 1     |
| 64       | QP036-64        | ELBOW UNION FITTING                       | 1     | 1     |
| 65       | QP036-65        | PRESSURE TRANSDUCER                       | 1     | 1     |
| 66       | QP036-66        | HIGH PRESSURE HOSE 75CM 5000PSI 3/8"-19PF | 1     | 1     |
| 67       | QP036-67        | FITTING PT 3/8"                           | 1     | 1     |
| 68       | QP036-68        | FILTER HOUSING                            | 1     | 1     |
| 69       | QP036-69        | BRACKET                                   | 1     | 1     |
| 70       | QP036-70        | SCREW M5 x 35                             | 4     | 4     |
| 71       | QP036-71        | N/A                                       | _     |       |
| 72A      | QF0571030       | PUMP FILTER 30                            | 1     | 1     |
| 72B      | QF0571060       | PUMP FILTER 60                            | 1     | 1     |
| 72C      | QF0571100       | PUMP FILTER 100                           | 1     | 1     |
| 73       | QP036-73        | FILTER CAP                                | i     | 1     |
| 74       | QP036-74        | SCREW                                     | 1     | 1     |
| 75       | QP036-75        | SCREW M5 x 12                             | 8     | 8     |
|          | QP036-76        | FLAT WASHER Ø5 x Ø10 x 1                  | 8     | 8     |
| 76<br>77 | QP036-77        | TOOL BOX                                  | 1     | 1     |
| 78       | QP036-78        | SCREW M5 x 16                             | 2     | 2     |
| 79       | QP036-79        | PIN Ø3 x 230                              | 1     | 1     |
| 80       | QP036-80        | TOOL BOX LID                              | 1     | 1     |
| 81       | QP036-81        | TOOL BOX LOCK                             | 1     | 1     |

| ltem | Q-Tech Part No.  | Description  | Q     | Q'TY  |  |
|------|------------------|--|-------|-------|--|
|      | Q 100111 G11110. | ·  | QP031 | QP036 |  |
| 82   | QP036-82         | DUAL PURPOSE WRENCH                                  | 1     | 1     |  |
| 83   | Q400-005         | LUBRICATING OIL TANK 100 cc                          | 1     | 1     |  |
| 84   | QP036-84         | NUT M10  | 4     | 4     |  |
| 85   | QP036-85         | SPRING WASHER M10                                    | 8     | 8     |  |
| 86A  | QP031-86         | MOTOR UNIT 2HP                                       | 1     | -     |  |
| 86B  | QP036-86         | MOTOR UNIT 2.5HP                                     | -     | 1     |  |
| 87   | QP036-87         | SCREW M10 x 20                                       | 4     | 4     |  |
| 88   | QP036-88         | SCREW M10 x 25                                       | 4     | 4     |  |
| 89   | QP036-89         | MOTOR CAP  | 2     | 2     |  |
| 90   | QP036-90         | SCREW M5 x 20  | 6     | 6     |  |
| 91   | QP036-91         | NUT M5 x 8mm   | 2     | 2     |  |
| 92   | QP036-92         | HANDLE   | 1     | 1     |  |
| 93   | QP036-93         | SPACER Ø22.3 x Ø30 x 18                              | 2     | 2     |  |
| 94   | QP036-94         | SET SCREW M4 x 4                                     | 3     | 3     |  |
| 95   | QP036-95         | SCREW M5 x 25  | 4     | 4     |  |
| 96   | QP036-96         | SCREW M5 x 40  | 4     | 4     |  |
| 97   | QP036-97         | SCREW M5 x 30  | 4     | 4     |  |
| 98   | QP036-98         | RELEASE LEVER Ø8 x 132.9 x 60                        | 2     | 2     |  |
| 99   | QP036-99         | FLAT WASHER Ø8 x Ø16 x 1.5                           | 2     | 2     |  |
| 100  | QP036-100        | SPRING Ø1.0 x Ø8.5 x Ø10.5 x 9T x 35L                | 2     | 2     |  |
| 101  | QP036-101        | E-CLIP E-7   | 2     | 2     |  |
| 102  | QP036-102        | CROSSPIECE-REAR                                      | 1     | 1     |  |
| 103  | QP036-103        | CROSSPIECE-FRONT                                     | 1     | 1     |  |
| 104  | QP036-104        | FRAME  | 1     | 1     |  |
| 105  | QP036-105        | END CAP  | 2     | 2     |  |
| 106  | QP036-106        | FLAT WASHER Ø20.1 x Ø52 x 2                          | 4     | 4     |  |
| 107  | QP036-107        | WHEEL  | 2     | 2     |  |
| 108  | QP036-108        | E-CLIP E-19  | 2     | 2     |  |
| 109  | QP036-109        | SCREW M5 x 6   | 1     | 1     |  |
| 110  | QP036-110        | CONTROL BOX CAP                                      | 1     | 1     |  |
| 111  | QP036-111        | PIN Ø4 x 175   | 1     | 1     |  |
| 112  | QP036-112        | WINDOW 76 x 42 x 3                                   | 1     | 1     |  |
| 113  | QP036-113        | ADJUSTOR WHEEL                                       | 1     | 1     |  |
| 114  | QP036-114        | SCREW M4 x 10  | 4     | 4     |  |
| 115  | QP036-115        | CONTROL BOX  | 1     | 1     |  |
| 116  | QP036-116        | WIRE LEAD  | 1     | 1     |  |
| 117  | QP036-117        | POWER SUPPLY CORD H07RNF VDE 1.5 x 3C x 7M           | 1     | 1     |  |
| 118  | QP036-118        | CABLE GLAND SB8R-3                                   | 2     | 2     |  |
| 119  | QP036-119        | CABLE GLAND SB5M-1                                   | 1     | 1     |  |
| 120  | QP036-119        | ELECTRONICS UNIT                                     | 1     | 1     |  |
| 121  | QP036-121        | N/A  | _     | -     |  |
|      |                  |  |       |       |  |
| 122A | 63815FFTD        | HIGH PRESSURE HOSE 15.5M 5000PSI + 1.5M 3300PSI      | 1     | 1     |  |
| 122B | 61401EPTD        | 1/4" x 1MTR WHIP HOSE  EARTH LEAD Ø3 x 210mm 10mm+5R | 1     | 1     |  |
| 123  | QP036-123        |  | 1     | 1     |  |
| 124  | QP036-124        | FIVE WAY CONNECTOR                                   | 1     | 1     |  |
| 125  | QP036-125        | FLAT WASHER Ø6.5 x Ø13 x 1                           | 2     | 2     |  |
| 126  | QP036-126        | EARTHING MARKING                                     | 1     | 1     |  |

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