



SMALL MACHINE **BIG POWER**

MotorScrubber Force Instruction Manual

THANK YOU FOR PURCHASING MOTORSCRUBBER FORCE

Until now scrubber dryers have only cleaned 85% of your floor. Here at MotorScrubber we like to clean 100% of the floor. Thank you for choosing MotorScrubber Force, this machine will deep clean all your hardest to reach areas, around the toilet, under benches and tables, under production lines - Anywhere.



**WHERE CAN YOUR
SCRUBBING
MACHINE CLEAN IN
A TRANSPORT
TERMINAL?**

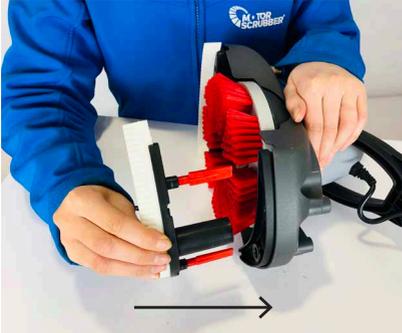
-  Scrubber Dryer 85%
-  With MotorScrubber 100%

MotorScrubber
F • RCE

You have now created the ultimate cleaning machine - Enjoy!

QUICK START

1. Install squeegees; Slide squeegee into the suction housing. Turn the red tabs so they are facing towards you to lock



2. Push suction tube onto the rear squeegee tube until it stops



3. Attach the brush; Hold the hub stable with one hand and twist brush until it locks



4. Lift machine out of lower mount



5. Slide backwards to release upper mount



6. Lower Force onto the floor
7. Lift flip clip and adjust handle length so you are stood with your back straight



8. Plug suction fitting into tank



9. Switch on suction motor
10. Press blue switch to release fluid (minimal solution needed)
11. Press red switch to activate the brush

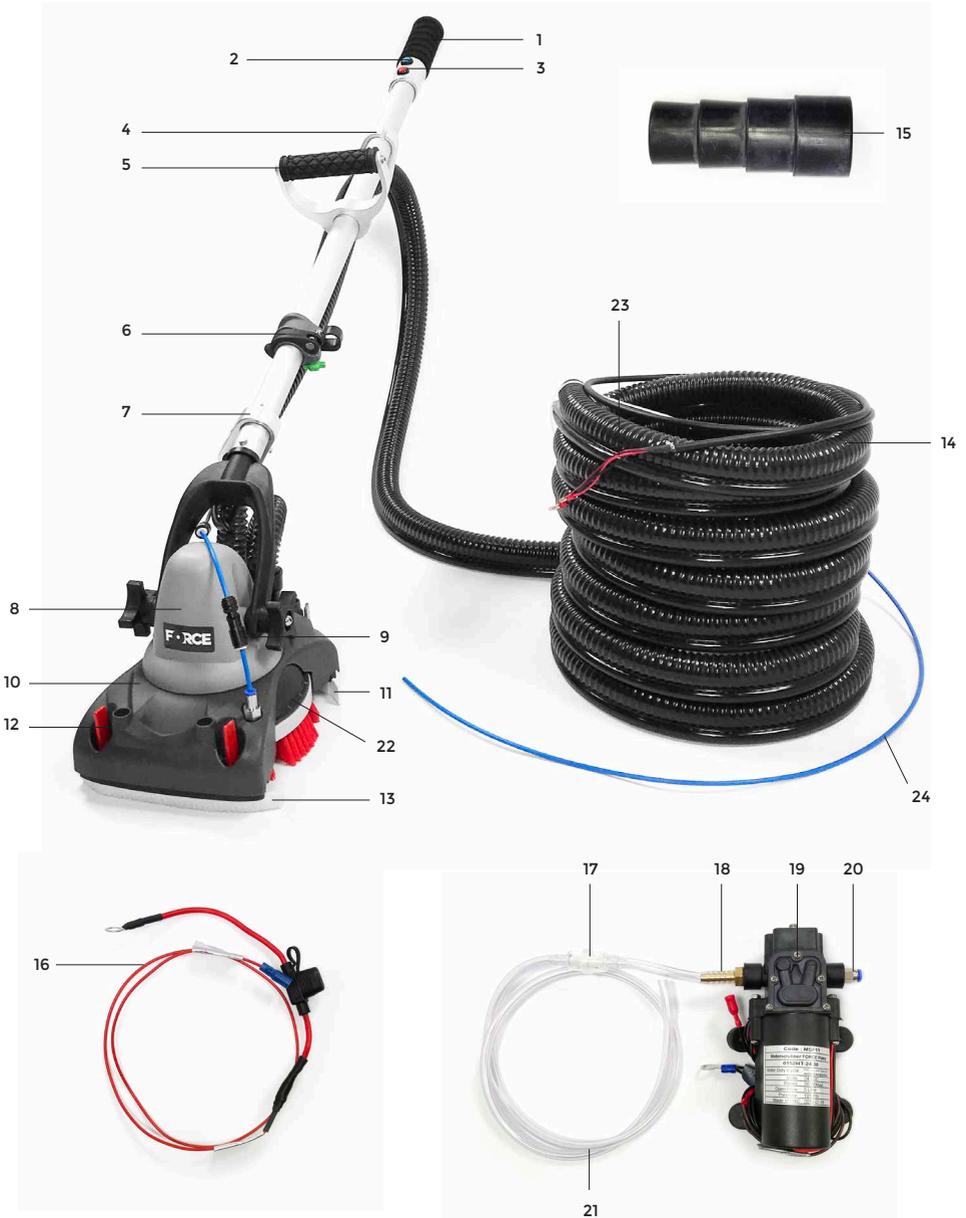


12. Moving slowly in straight forward and backward motions allow Force to deep clean your difficult areas
13. Apply more fluid on demand
14. Stop spraying fluid 20 seconds before finishing the area to allow the suction to fully dry the floor
15. Lift and re-mount Force into its brackets and wind the hose
16. Refit scrubber dryer suction hose to continue using the large machine

MAINTENANCE

- Always ensure Force is stored on its brackets and not stood on the brush or squeegees.
- If the machine has been stood on the brush or squeegees for prolonged periods of time and has distorted the brush or squeegees you can soak them in boiling water for 1 minute to reset their shape.
- Clean brush and squeegees after use
- Replace the squeegees when worn and the floor is not drying properly
- Replace the brush when worn or drying is effected with bristle length

FORCE KIT OVERVIEW



VACUUM FITTING SIZES

SECTION	OD	ID
1	41 - 38mm	N/A
2	44.5 - 41mm	36 - 32mm
3	48 - 46mm	38 - 40mm
4	52 - 50mm	44 - 42mm

1. Soft Rubber Handle
2. Pump Switch
3. On / off switch
4. Upper Hose Support
5. Control Handle
6. Flip Clip
7. Lower Hose Support
8. Motor head
9. Check Valve
10. Suction Housing
11. Rear Squeegee
12. Squeegee Release Clip
13. Front Squeegee
14. 8m Hose
15. Universal Suction Hose Fitting
16. Fused Battery Connector
17. Water Filter
18. Pump Inlet Barb
19. 24v Pump with Terminated Cables
20. Pump Outlet Push Fit
21. 6mm ID Water Pipe
22. Hub
23. Force Cable
24. Water pipe

PRE-FITTING CHECKS



- Measure the internal diameter of the water pipe which exits the water tank.



- Measure the internal diameter of the vacuum tank inlet.
- _____
- Does the machine have an “On / Off” switch for the vacuum motor or is the vacuum controlled by the PCB? Check Page 15.

FITTING FORCE

Firstly please have an open mind with MotorScrubber Force, we can design and supply bespoke brackets to make Force fit pretty much any model of 40 Litre machine and upwards.

The first 2 steps are important, ensuring you have a fully assembled MotorScrubber Force will allow you to correctly judge where it can be fitted to your cleaning machine.

- Fit the squeegees into the suction housing and also fit the brush onto the MotorScrubber. See Quick Start Section.



- Place the machine on top centrally down the middle and check it fits without impairing any controls.

For walk behind machines we recommend fitting on top centrally down the middle, alternatively try mounting on the side. For ride-ons we recommend mounting vertically on the back or side

- Have someone hold the brackets in place and lock the machine in to check it fits properly and mark out, in pencil, the bracket position so you can drill the tank later.

Before drilling the tank carefully check the other steps to ensure compatibility with the machine.

CHECK SUCTION HOSE CONNECTION

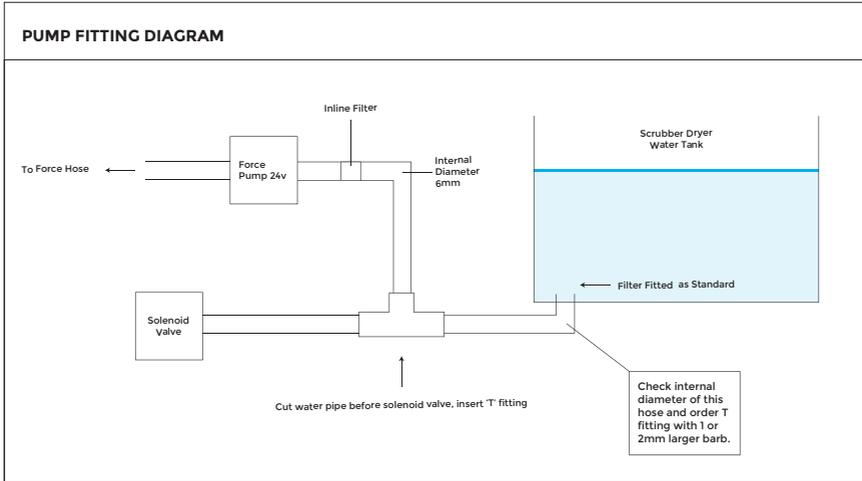


- The majority of machines have a suction tank inlet conveniently at the back, high up near the controls. MotorScrubber Force universal adaptor will fit the majority of machines with female or male connections. You can cut down the fitting at each

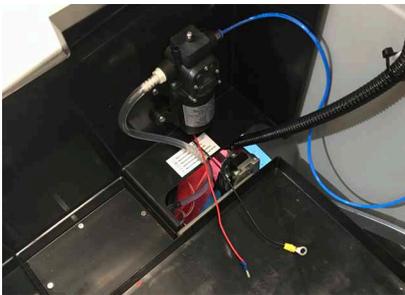


interval to fit various tanks.
If the suction tank inlet is not easily accessible you can fit the Force hose onto the squeegee hose as shown.

WATER TANK CONNECTION & PUMP



Check the water pipe underneath the machine, find a straight run with space around it and also before it goes into the solenoid valve. Cut the pipe and insert T fitting. Look for space inside the battery compartment or underneath the chassis to fit the pump and run the water pipe to the T fitting.



The pump needs fitting into the plastic battery compartment or steel chassis - **don't screw into the tank**. If there is no room in the battery compartment, try

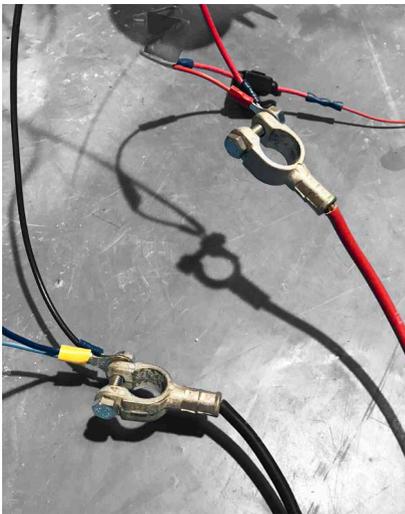
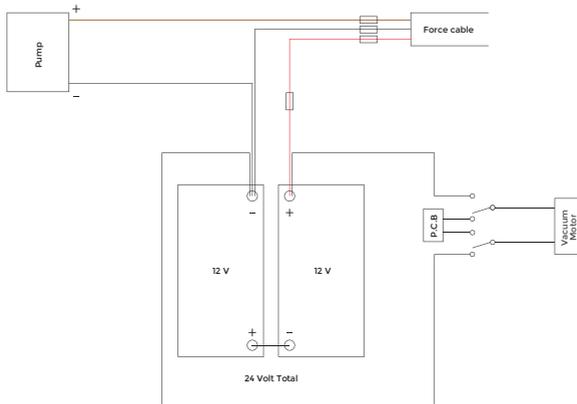
underneath the machine. Ensure pump cables and water pipe are securely fitted and will not be damaged over time. Lift the brush deck up and down and check the pedal and brush deck is not moving near any cables or the water pipe. Also check squeegee bracket movement is not going to affect the water pipe or cables.



Find the cable and water pipe entry point into the battery compartment. Rear casing or handle assemblies often have entry points you can also drill through switch plates, as shown, for access.

CONNECTING POWER CABLES

FORCE KIT WIRING DIAGRAM WITH VACUUM SWITCH

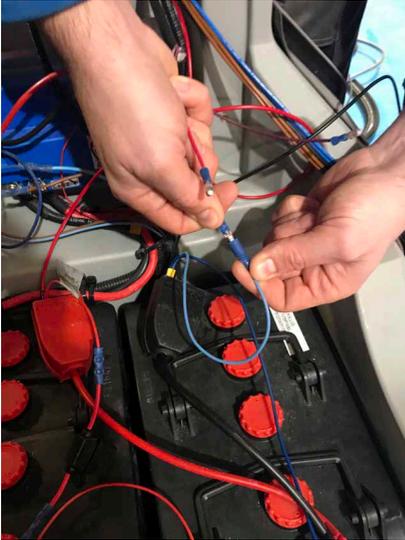


- **First check Force is off.** Connect battery power cable to the live 24

volt connection (see wiring diagram). Connect the pump neutral to negative 24 volt battery terminal. As shown left.

- Connect Force cable live to battery positive bullet connector.





- Connect Force cable neutral to pump neutral bullet connector.



- Connect Force pump switched live to

the pump live bullet connector. Once the machine is connected the brush and pump switch on MotorScrubber Force will operate.

- Check for leaks. Fill the water tank of the machine and check for leaks underneath near the new T fitting. Operate the pump and check pump fittings for leaks.



- Check water tap is set to full on the machine.

HOW TO TERMINATE THE HOSE TO THE CORRECT LENGTH

- Mount the machine brackets and hose wind horns.



- Upper handle bracket fitting; Most models of machine require a specific plate which needs fitting to the upper handle bracket (MSF3). Check our technical database which plate fits your model, we can also fabricate special plates for you.
- Fit machine in place.



- Start winding the hose to the desired length and so it is tight and looks neat.



- Clamp the hose in to place on the upper machine mount.



- Separate the suction hose and cable/water pipe hose.



- Make a clean cut in the outer hose sheaf just after the hose clamp.



- Cut suction hose to desired length and fit universal fitting so this can easily be fitted into the suction tank. We recommend CT1 adhesive for glueing the hose connector to hose).



- Insert the cable/water pipe into the machine so it goes into the battery compartment.

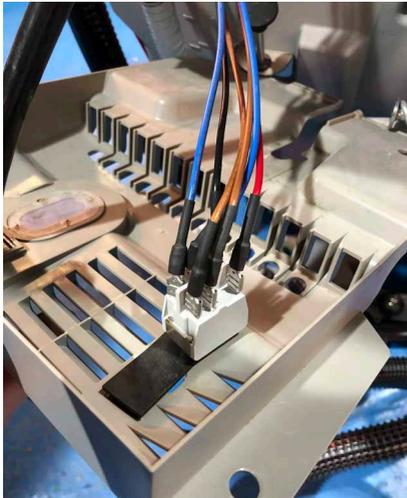
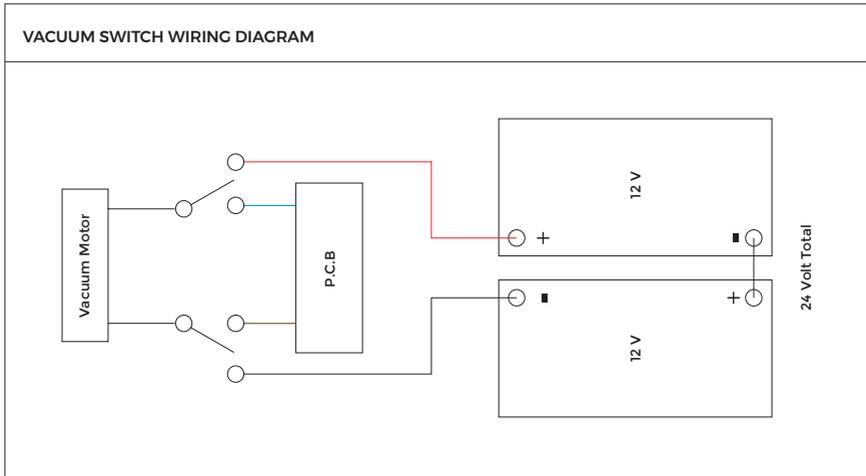
IS THE SUCTION MOTOR SWITCH NEEDED?

- If your scrubber dryer has an on / off

switch skip this step. Or if your suction stays permanently on when the rear squeegee is lowered. If your suction motor is operated by a PCB and auto turns off when the machine is not used then you need to fit the vacuum bypass switch.

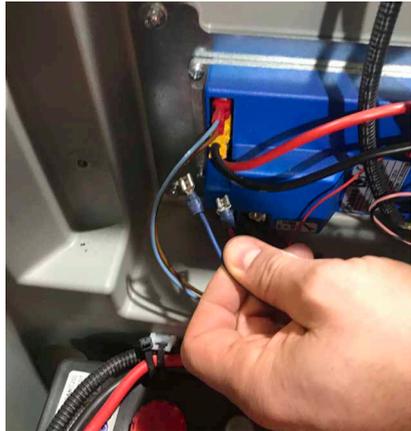
- Connect to the vacuum motor and PCB first, connect the battery last.

FITTING THE VACUUM SWITCH



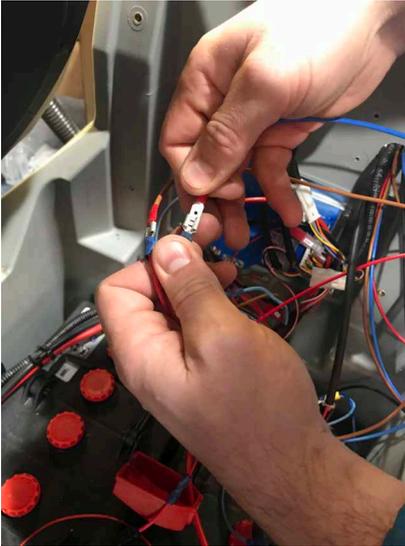
1. Find suitable location for switch which doesn't impede other controls, remove the panel and check there is space behind.
2. Drill the control panel with 12mm drill.

3. Fit the switch from behind and secure in place with lock nut.
4. Locate PCB control board which the vacuum motor connects to.



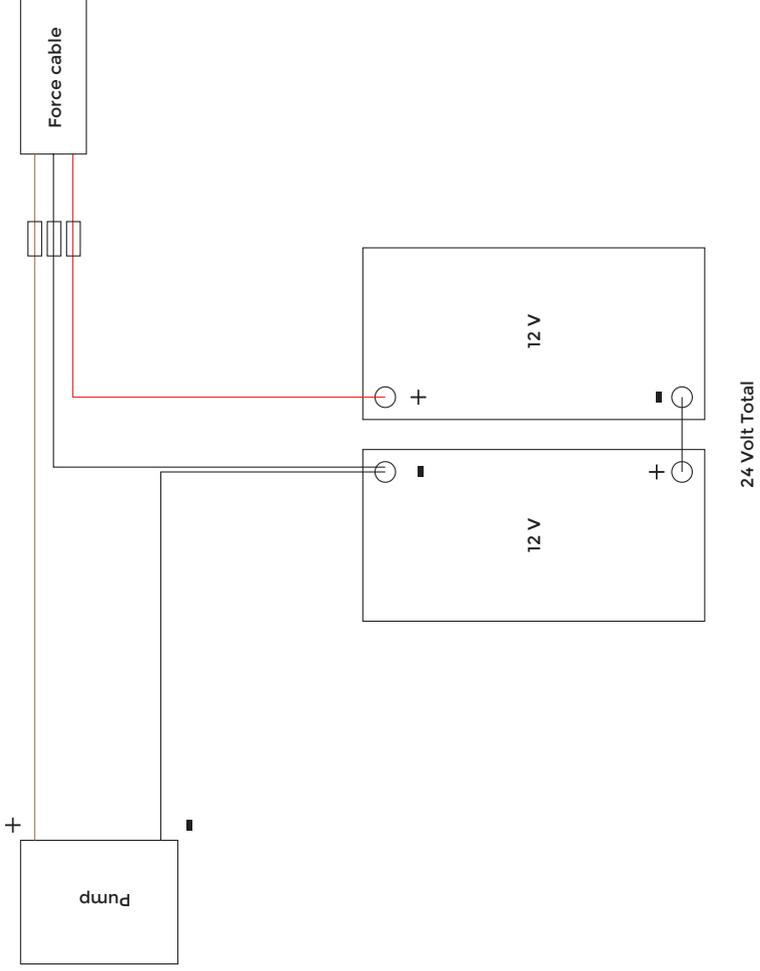
5. Pull off the vacuum motor Live and Neutral cable from the PCB and connect these to the Force vacuum

switch cables labelled 5. Vacuum live and 6 Vacuum neutral. Ensure the cable connection is fully insulated.

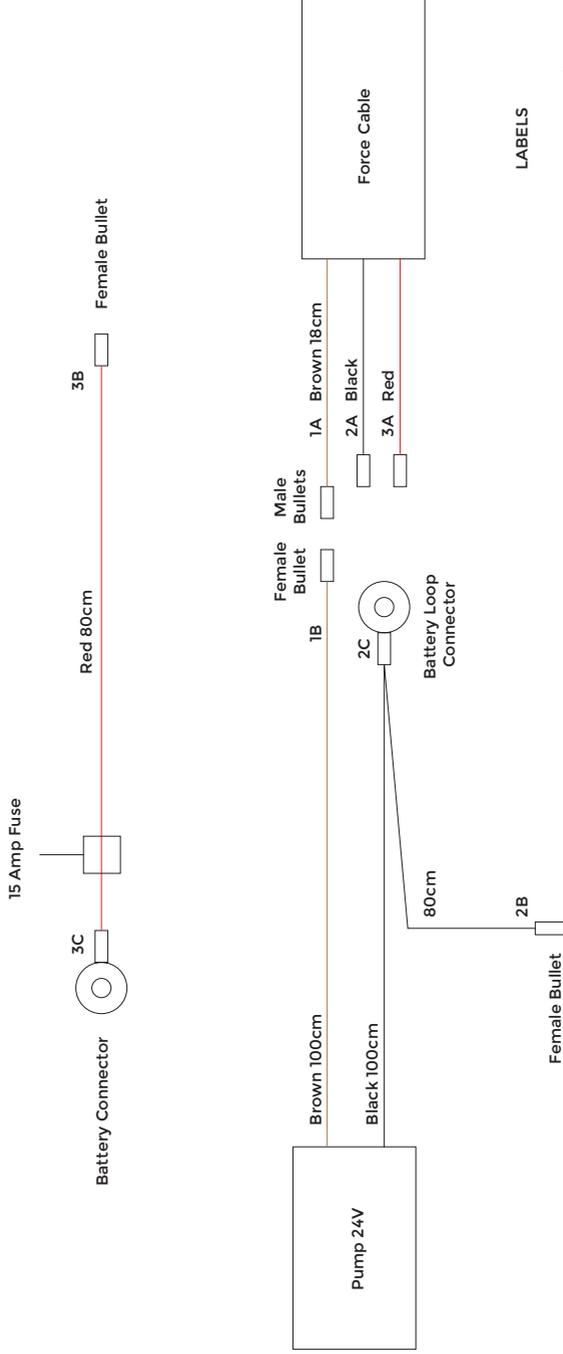


6. Now take the cables from the Force vacuum switch labelled 8. PCB Live and 7. PCB Neutral and connect these to the PCB in place of the vacuum motor cables.
7. Now take the cables from the Force vacuum switch labelled 3D.battery cable + and 2D: battery cable – and connect these to the Live and neutral 24 Volt connection on the batteries.
8. You can now disconnect the vacuum motor independently from the PCB and connect it direct to the 24V batteries, there is no danger caused to the PCB by performing this task.

FORCE KIT WIRING DIAGRAM



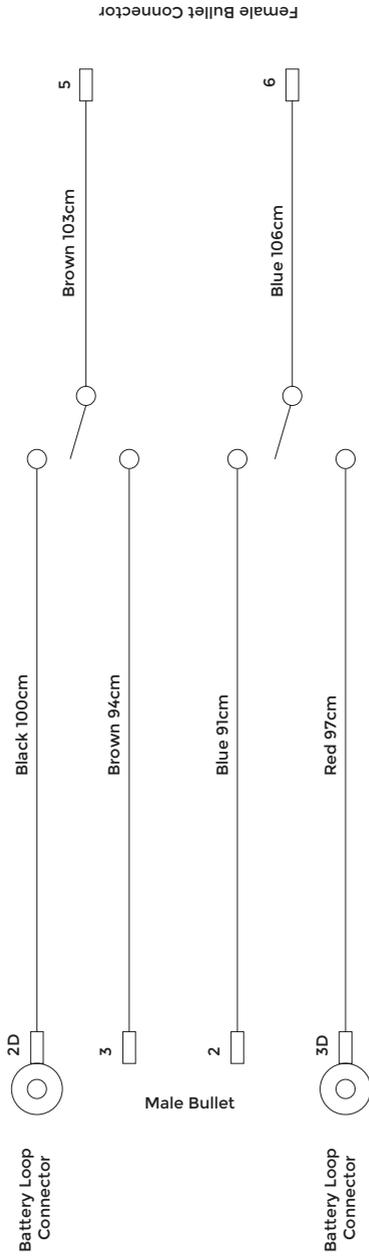
LABELS AND FITTINGS REQUIRED



LABELS

- 1A - Pump Live Force +
- 1B - Pump Live +
- 2A - Battery Negative Force -
- 2B - Battery Negative -
- 3A - Battery Positive Force +
- 3B - Battery Positive +
- 3C - Connect to Battery + Terminal
- 2C - Connect to Battery - Terminal

VACUUM SWITCH LABELS + CONNECTORS



LABELS

- 3D - Battery Cable +
- 7 - PCB Neutral
- 8 - PCB Live
- 2D - Battery Cable -
- 5 - Vacuum Live
- 6 - Vacuum Neutral

**NOW YOU
HAVE CREATED
THE ULTIMATE
CLEANING
MACHINE**





天朝和申站
TIANCHAO & SHEN STATION

Register your warranty at:
motorscrubberclean.com/warranty



YOUR WARRANTY

LIMITED ONE-YEAR WARRANTY MOTORSCRUBBER 24-VOLT DC TOOL

We at Motorscrubber UK work hard to build the highest quality cleaning tool, we strive for perfection! As the market leader in compact scrubbing machines we select the highest grade components and continuously develop our machines based on the valuable feedback from our customers. Our aim is to build the worlds most powerful compact cleaning tool which you can use all day every day without failure. We want you to be 100% satisfied with your Motorscrubber, in the rare event a fault should occur we are here to help and ensure your machine is back up and running as soon as possible. So that we can cover your warranty fully please follow the below terms.

Every MotorScrubber is thoroughly inspected and tested before leaving the factory. It is warranted to be free from defects in workmanship and materials for the period of one year from the date of original purchase. Should any problem covered by this warranty develop during the one-year period please contact your installer for repair.

Your supplier will inspect the item and liaise with us directly. If inspection shows the problem was caused by a defect in workmanship or materials, your supplier will repair (or at our joint option, replace) the unit without charge, return freight prepaid.

PLEASE DON'T VOID YOUR WARRANTY BY:

1. Making alterations to the product.
2. Repairing or attempting to make repairs by anyone other than an authorised MotorScrubber agent.
3. Mistreating, misusing or improperly maintaining or operating the product.

*Terms and conditions may vary depending on your Country, please contact your local supplier for exact terms.

