AXMINSTER PROFESSIONAL

AP154CEH Code 107622
AP176CEH Code 107623
AP357CEH Code 107624

Original Instructions

AP154CEH, AP176CEH & AP357CEH

Cyclone Extractors

Code 107622
AP154CEH

Code 107624
AP357CEH

Code 107623
AP176CEH

AXMINSTER THREE YEAR GUARANTEE

AT: 01/02/2022
BOOK VERSION: 8

INDEX OF CONTENTS

EU DECLARATION OF CONFORMITY

Cert No: 88150T, 88200T, 88300T

Axminster Tool Centre Ltd
Axminster Devon
EX13 5PH UK
axminstertools.com

declares that the machinery described:-

Type	**Cyclone Extractor**
Models	**AP154CEH, AP175CEH, AP357CEH**

Signed 

Andrew Parkhouse
Operations Director Date: **09/11/2018**

EU Declaration of Conformity

This machine complies with the following directives:

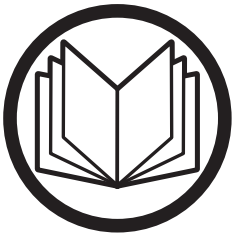
2006/42/EC
2014/42/EU
EN ISO 12100:2010
EN ISO 4414: 2010

EN 60204-1:2006+A1:2009+AC:2010

and conforms to the machinery example for which the
EC Type-Examination Certificate No 3X181109.FTQD79
has been issued by **FUSSO TOOL CORP.**
at: No. 679, Sec. 4, Changping Rd., Daya Dist., Taichung City 428, Taiwan (R.O.C.)

and complies with the relevant essential health and safety requirements.

The symbols below advise the correct safety procedures when using this machine.



Fully read manual and safety instructions before use

Ear protection should be worn

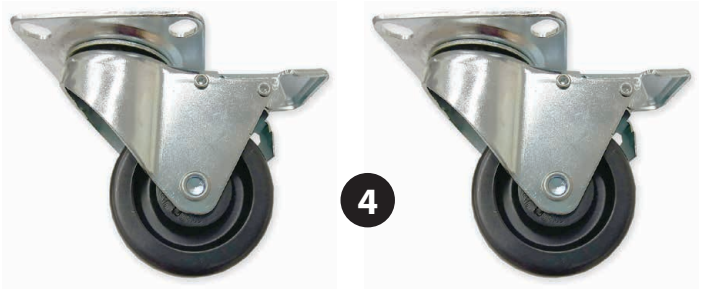
Eye protection should be worn

Dust mask should be worn

HAZARD

Quantity	Item	Model Number
		107622/107623/107624
1	Cyclone Extractor	
1	Instruction Manual	

1	5mm Hex Key	1
1	10-12mm Spanner	2
4	Waste Bin Swivel Castor Wheels	3
4	Brake Pedal Castor Wheels	4
1	Waste Bin	5
1	Inlet Adaptor	6
16	Large Bolts	7
1	Inlet Adaptor Small Screw	8



Please read the Instruction Manual prior to using your new machine. As well as the operating procedures for your new machine, there are numerous hints and tips to help you to use the machine safely and to maintain its efficiency and prolong its life. There is also a detailed description of the parts of your Cyclone Extractor, which will enable you to become familiar with terminology we will use in this manual. Keep this Instruction Manual readily accessible for any others who may also be required to use the machine.

GENERAL INSTRUCTION FOR 230V MACHINES

Good Working Practices/Safety

The following suggestions will enable you to observe good working practices, keep yourself and fellow workers safe and maintain your tools and equipment in good working order.

WARNING!! KEEP TOOLS AND EQUIPMENT OUT OF THE REACH OF YOUNG CHILDREN

Mains Powered Tools and Machines

Primary Precautions

These machines are supplied with a moulded 16 Amp plug and 3 core power cable. Before using the machine, inspect the cable and the plug to make sure that neither are damaged. If any damage is visible, have the damaged item inspected/repaired by a suitably qualified person. If it is necessary to replace the plug, it is preferable to use an 'unbreakable' type that will most resist damage. Only use a 16 Amp plug, and make sure the cable clamp is tightened securely. Fuse as required. If extension leads are to be used, carry out the same safety checks on them, and ensure that they are correctly rated to safely supply the current that is required for your machine. Remember, most machines or tools have handles or holding positions, the power cable is not one of them.

Workplace/Environment

The machine is not designed for use outside. Keep the machine clean; it will enable you to more easily see any damage that may have occurred. Clean the machine with a damp soapy cloth if needs be, do not use any solvents or cleaners, as these may cause damage to any plastic parts or to the electrical components.
It is good practice to leave the machine unplugged until work is about to commence, also make sure to unplug the machine when it is not in use, or unattended. To avoid inadvertent 'start up', if your machine is not fitted

KEEP THE WORK AREA AS UNCLUTTERED AS IS PRACTICAL, THIS INCLUDES PERSONNEL AS WELL AS MATERIAL.
UNDER NO CIRCUMSTANCES SHOULD CHILDREN BE ALLOWED IN WORK AREAS.

with a NVR system, ensure the switch is always returned to the OFF position. Once you are ready to commence work, remove any tools, objects or items that could inadvertently get 'sucked up' by the machine and place safely out of the way. Re-connect the machine, ensuring the power cable is not 'snagged' or routed where it could be tripped over as you move about the workshop; it is not too close to an unguarded heat source, or is laid over or around a sharp edge. If the work you are carrying out is liable to generate flying grit, dust or chips, wear the appropriate safety clothing, goggles, gloves, masks etc. If the work operation appears to be excessively noisy, wear ear-defenders. If you wear your hair in a long style, wearing a cap, safety helmet, hairnet, even a sweatband, will minimise the possibility of your hair being caught up in the rotating parts of the machine, likewise, consideration should be given to the removal of rings and wristwatches if these are liable to be a 'snag' hazard. Consideration should also be given to non-slip footwear, etc.

Do not use this machine if you are tired, your attention is wandering or you are being subjected to distraction.

Do not use this machine within the designated safety areas of flammable liquid stores or in areas where there may be volatile gases. There are very expensive, very specialised machines for working in these areas. Above all, **OBSERVE....** make sure you know what is happening around you, and **USE YOUR COMMON SENSE.**

SPECIFIC SAFETY FOR DUST EXTRACTORS

Do not use this machine as a vacuum cleaner, try to keep the waste medium to wood by products.

Do not uplift workshop floor debris (stones, nails, screws, paper etc., etc). Be aware that wood dust is an explosive medium.

Do not allow any 'naked light' source to occur anywhere near the machine. This includes cigarettes, matches, etc, and do not place the machine near any unprotected light bulbs, that could possibly get broken.

The suction force is generated by a high speed fan unit. This has the potential to amputate fingers, grab loose clothing (ties etc.,) and 'bat' large chips etc, at high speeds. Keep all guarding in place, and if access to the fan becomes necessary (due to blockage etc.,) disconnect the machine from the mains supply and ensure the fan has come to a complete stop before putting your hands anywhere near to it.

If you are not using 'clear' extraction hose, periodically remove the hose to check that the inlet to the machine is not getting restricted. (The safety guard grill of the inlet duct can be particularly irksome in this way, as long strand shavings etc., can wrap around the grill fret.)

Keep the particle filter clean. The machine relies on its ability to 'blow' air through the filter, to generate good suction. If the particle filter starts to clog, this reduces the air flow and hence the machine becomes less efficient.

The particle filter can be cleaned, by removing the rear filter cover **(20)** and using a vacuum cleaner, clean the inside of the filter as illustrated on page 17.

Be aware that in dry air periods or areas, the movement of the air through the machine can generate static electric fields. These are not normally a problem as the machine is bonded together via its construction and the whole is earthed back through the electrical supply; problems can occur with isolated items, such as stands or hosing that are insulated from the ground (standing on rubber feet?, suspended in the air etc).

If possible, try to connect everything together electrically, to eliminate static shocks.

(Use the integral metal coil in flexible plastic hosing to connect units together).

Try to route the power cable and the hosing away from busy walkways.

Do not allow the inlet to become 'dead ended', or block or restrict the outlet, this puts undue strain on the motor and can lead to overheating.

SPECIFICATION

Code	107622	107623	107624
Model	AP154CEH 1.5HP	AP176CEH 2HP	AP357CEH 3HP
Rating	Professional	Professional	Professional
Power	1.1 kW 1Phase	1.5 kW 1Phase	2.2 kW 1Phase
Supply Circuit	16 Amps (Type C Breaker)	16 Amps (Type C Breaker)	16 Amps (Type C Breaker)
Air Flow	1,600 m³/hr @ 150 mm	1,715 m³/hr @ 178 mm	3,700 m³/hr @ 200 mm
Sound Pressure Level [Uncertainty K]	76 dB(A)	76 dB(A)	77 dB(A)
Static Pressure	2,440 Pa	2,490 Pa	2,735 Pa
Filter Performance	99.97% >0.3 micron	99.97% >0.3 micron	99.97% >0.3 micron
Filter Surface Area	2.5 m²	2.5 m²	4.35 m²
Container Volume	110 litre	168 litre	198 litre
Inlet	1 x 150 mm or 2 x 100 mm	1 x 178 mm or 3 x 100 mm	1 x 200 mm or 3 x 100 mm
Overall L x W x H	1,120 x 700 x 1,780mm	1,120 x 700 x 2,080mm	1,370 x 790 x 2,030mm
Weight	117kg	127kg	155kg

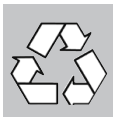
ASSEMBLY INSTRUCTIONS

Please read through the section entitled Parts identification and Description, this will enable you to more readily identify those parts of the cyclone extractor.

Please note: some of this assembly procedure is best accomplished by two persons. Although the tasks are not impossible, some of the items are heavy and awkward, and a mishandling error could cause injury. Please think about what you are doing, your capabilities and your personal safety. We have added the 'two person symbol' to any operation that we recommend should be a two person task.

Unpack all the boxes and check all the components listed in the "What's Included" section. If any parts or components are missing, please contact our Customer Services Department using the procedures and telephone numbers listed in our catalogue.

Please note: on occasions the packing list is not strictly adhered to. Please check all the boxes, packets etc. to make sure that all the parts have been accounted for.



PLEASE RECYCLE ANY UNWANTED PACKAGING RESPONSIBLY!

These extractors come almost completely assembled with the exception of the mobility castors, waste bin suction hose, switch and inlet adaptor.

Once you had dismantled the crate, remove the waste bin. Now place some short lengths of 50 x 100mm timber upright on the floor and with help manhandle the extractor onto the timbers.

Inside the waste bin there should be a pack containing the two sets of castors, 4 with brake pedals, 4 smaller swivel castors.

The braked castors use 4 x M* bolts each, these fit under the base frame at each corner. Fit one to each corner and tighten the bolts securely (Figures 01 and 02).

Figure 01

Figure 02

Now fit the castors to the underside of the waste bin and tighten securely (Figures 03 and 04).

Figure 03

Figure 04

Carefully remove the machine from the timbers onto it's castors.

Fit the vacuum hose to the outlet near the bottom of the waste bin. Tighten the clip securely. (Figure 05)

Figure 05

Figure 06

Remove the remaining items from the waste bin. The waste bin fits into a recess in the base plate, so with the large handle lowered, place the bin against the two rubber stoppers (Figure 06), and raise the handle (Figure 07).

Figure 07

Unpack the switch, there should be a small pack containing two small machine screws with nuts, and the remote control fob.

The switch is mounted with the two machine screws here (Figure 08),

Figure 08

Figure 09

Remove the lid from the switch, (Figure 09)

Leave it loose (or get an assistant to hold it), taking care not to disturb any wiring, fit one machine screw down the now open hole (Figure 10),

Figure 10

Figure 11

Fit the screw through the hole in the frame and secure using a nut on the back (Figure 11).

Repeat for the lower side (Figure 12),

Figure 12

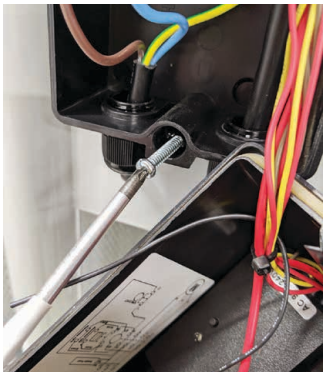


Figure 13

Refit the lid, carefully checking that no wires become pinched or trapped (Figure 13).

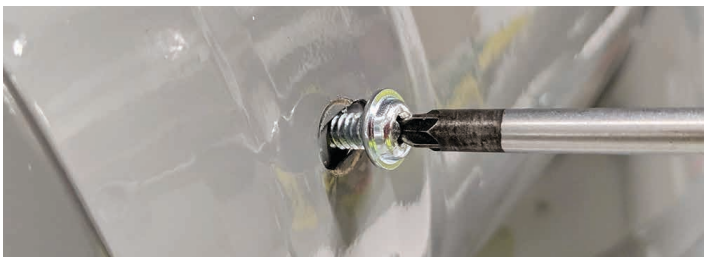
The remote control fob has a sliding cover that protects the buttons, slide back to expose the red and green stop and start buttons. When using, please make sure that the main switch box "STOP" button has been released, twist clockwise to make sure.

Now fit the inlet adaptor with the single self tapping screw as shown (Figures 14, 15 & 16).

Figure 14

Figure 15

Figure 16



The manometer gauge is your machine performance indicator, it is a visual indicator that the machine, and your system is functioning. If the needle is in this region then enough air flow is reaching the machine to enable it to function correctly.

Figure 17

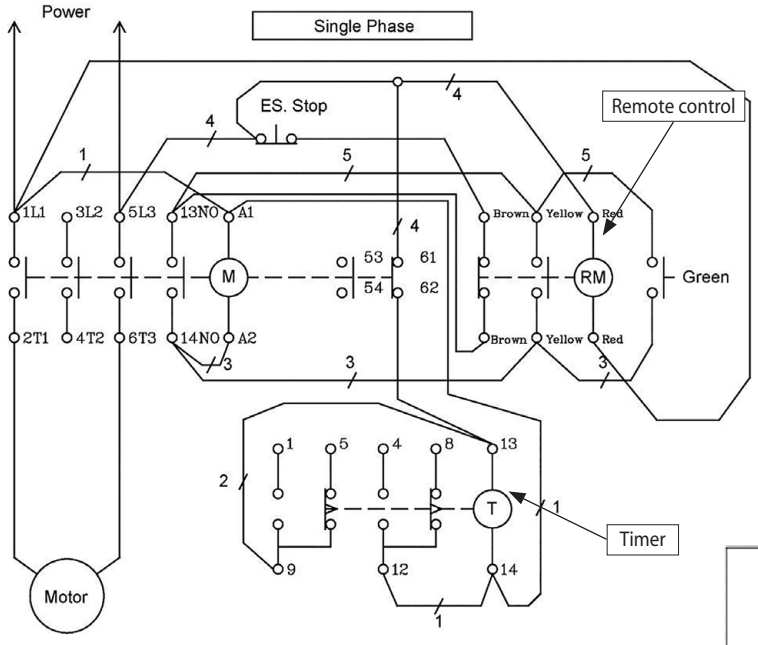
You must operate the filter cleaning lever (AP154/AP176 CEH) very regularly to maintain the filter performance. The AP357CEH is fitted with electric filter cleaning which operates when the machine is switched off.

The filter has a very long life, and barring damage, even when partially clogged can be cleaned from the inside with an "M" Class vacuum cleaner. Never use a high pressure blow gun from the outside to disturb dust that may be attached to the inside surface.

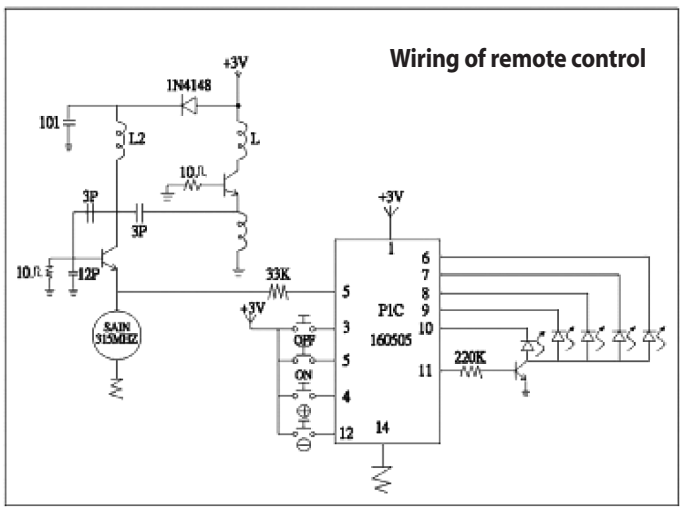
The golden rule with filter cleaning is little and often.

WIRING DIAGRAM

Security Breaker



107622	1.5HP 230V 50Hz 1Phase
Power Supply Circuit	16 Amps (Type C Breaker)
107623	2HP 230V 50Hz 1Phase
Power Supply Circuit	16 Amps (Type C Breaker)
107624	3HP 230V 50Hz 1Phase
Power Supply Circuit	16 Amps (Type C Breaker)



Switching ON/Off

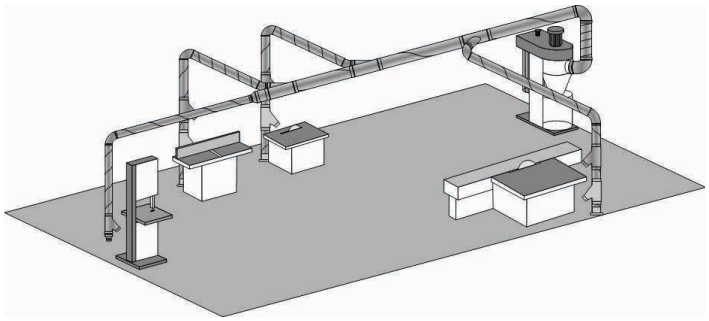
ALWAYS TURN ON/OFF THE EXTRACTOR BY THE NVR CONTROL SWITCH NOT THE MAINS SWITCH

This is to allow the shaker motor on the (AP357CEH) to perform the self cleaning operation. If the cyclone extractor is turned off at the mains switch, the shaker motor will not cut in. If this is constantly repeated, eventually the filter will become blocked, causing reduced performance.

The manometer is used to monitor the air flow in the ducting system. When you first use your extractor it is recommended you mark on 'manometer' the pressure the extractor it running at, to do this follow the instructions below.

Note: the reading can vary depending on the size of the ducting system.

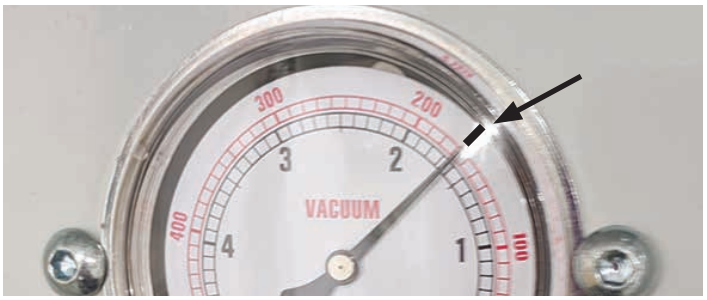
1. Connect your cyclone extractor to the ducting system.



2. Start up the extractor by pressing the 'green' button on the NVR switch assembly and check the reading on the manometer.

3. Using a marker or sticky label mark the reading on the manometer, (see figure 01). This is to confirm that every time you switch on you know what the read will be.

Figure 01



If you find the reading has increased there could be a blockage in the ducting system or extractor unit, check the following:

WARNING!! BEFORE CARRYING OUT ANY MAINTENANCE DISCONNECT THE CYCLONE EXTRACTOR FROM THE MAINS SUPPLY

- **Check the rear filter for signs of build of sawdust and clean with a vacuum cleaner**
- **Check the shaker motor is working properly**
- **Check the hoses for blockages**
- **Check the bin bag and empty if full**

If the reading has decreased, check the following:

- **Check the hoses are secure, 'NOT LOOSE' which will lead to air leakages**
- **Check hoses for splits and cracks**
- **Check "Blastgates" that are not in use are shut**

THE REMOTE CONTROL

1. Green button turns ON the extractor

2. Red button turns OFF the extractor

3. NOTE: C & D buttons are disconnected and no longer in use.

Requires a 12V, type A27 battery.

Note: The remote control operates on radio frequency and has a 60-ft. range. It does not need to be aimed at the control box tooperate.

Extraction Accessories

For all of our accessories please see our catalogue and website or contact us on:

Freephone: 03332 406 406

Replacement Waste Sacks

Code: 106369 **Bin Sacks** for AP154CEH & AP176CEH
Code: 106370 **Bin Sacks** for AP357CEH
Code: 106368 **Filter Sacks** for AP154CEH, AP176CEH, AP357CEH

WARNING!! BEFORE CARRYING OUT ANY MAINTENANCE DISCONNECT THE CYCLONE EXTRACTOR FROM THE MAINS SUPPLY

WARNING!! KEEP CHILDREN AWAY FROM WORK AREA

WARNING!! always wear a dust mask

WARNING!! Always wear eye protection

After a period of time dust, sawdust and shavings can build-up causing blockages and reduced suction performance. Follow the maintenance instructions below to keep your extractor working a peak performance.

Basic Maintenance

Daily

- **Operate the filter cleaning handle.**
- **Empty the collection bag before it overflows, wear a dust mask whilst removing and emptying the bag.**

Weekly

- **Check the inlet and outlet ducts and remove any accumulated sawdust.**
- **Check the inlet hoses for splits and cracks, repair as necessary.**
- **Check the dust collection bag for wear and tear, especially around the neck at the jubilee clip. If wear or fraying is occurring, replace the bag.**
- **Check the motor for dust, sawdust, shavings etc, build up. If this has occurred, clean with an 'M' class vacuum cleaner.**

(MODEL AP357CEH ONLY)

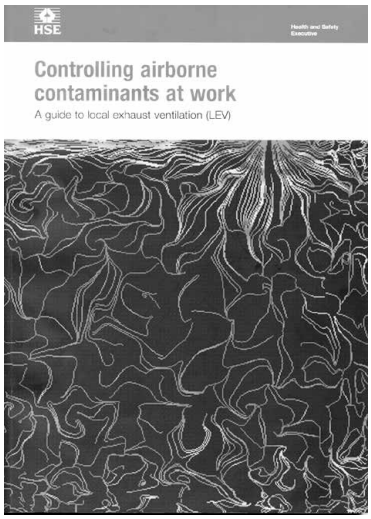
- **Start up the extractor, wait a few seconds and switch off, approximately 60 seconds later the shaker motor will start up. There will be a distinct clicking noise as the shaker motor paddles goes round, switching off automatically. If no sound is heard remove the filter bag and look up inside the filter for any signs that the paddles are being obstructed. If there is no obstruction contact Axminster Tool Centre's on 03332 406406 for assistance.**

Why should I bother with LEV?

The law says you must control the risks from these substances (the Control of Substances Hazardous to Health (COSHH) Regulations). Installing LEV may help you to do this.

For more information about other ways of eliminating or reducing airborne contamination at work look at HSE's COSHH website, **hse.gov.uk/coshh**.

Health and Safety Executive



A guide to local exhaust ventilation (LEV)

Ref Code: HSG258

The book above provides guidance on the supply of local exhaust ventilation (LEV) equipment. It describes the principles and good practice of deciding on, designing, commissioning and testing cost-effective LEV.

The guidance is written for the suppliers of LEV goods and services, but will also be helpful for employers and managers in medium-sized businesses, and trade union and employee safety representatives. All of these groups need to work together to provide, maintain and use effective LEV and to reduce exposure from inhalation of hazardous substances.

The book contains information about the roles and legal responsibilities of suppliers and of their clients as employers; competence; principles of good design practice for effective LEV hoods and their classification; ducts, air movers, air cleaners; and system documentation with checking and maintenance schedules, and the marking of defective equipment.

It also includes guidance on the specification of LEV; the supplier's quotation; commissioning; zone marking; the user manual and logbook; testing and hood labels.

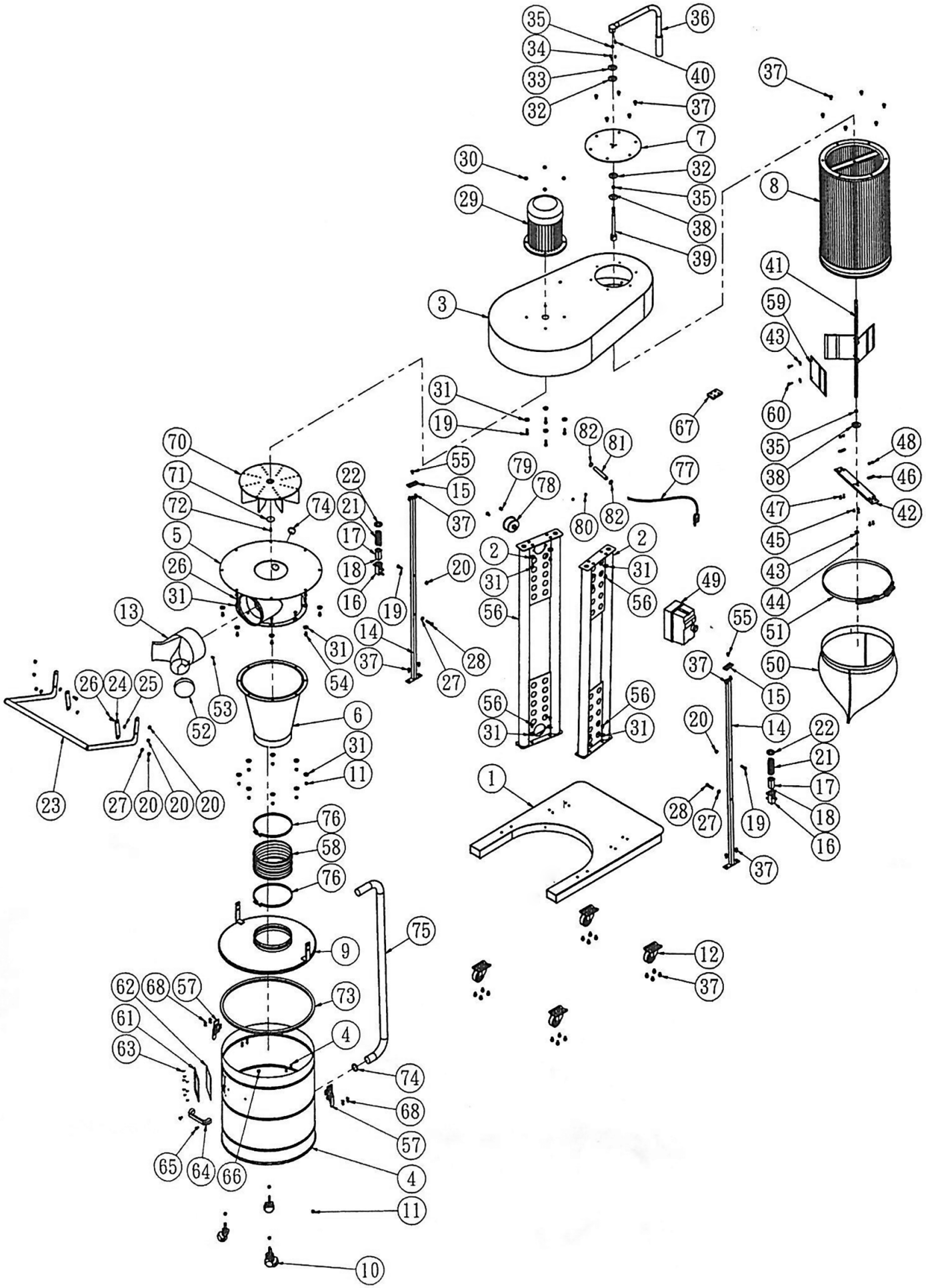
EXPLODED DIAGRAMS/LISTS - AP154CEH 1.5HP

Model: 88150T

No	Description	Qty
1	Base	1
2	Leg	2
3	Main Housing	1
4	Dust Drum	1
5	Round Collector	1
6	Reducing Collector	1
7	Housing top cover	1
8	Cansiter Filter 600mm Long	1
9	Drum Lid	1
10	Caster	4
11	Nut 5/16″	12
12	Wheel	4
13	Inlet 6″x 4″x 2	1
14	Guide Tube	2
15	Guide Tube fixing Plate	2
16	Sliding Bracket	2
17	Copper Plate	4
18	Copper Plate	4
19	Hex Screw 5/16″x 1″	6
20	Lock Nut 5/16″	8
21	Spring	2
22	Blocking Washer	2
23	Lever Handle	1
24	linkage Plate	2
25	Plastic Washer	4
26	Button HD Screw 5/16″x 3/4″	2
27	Waher 5/16″	4
28	Hex Bolt 5/16″x 1-1/2″	2
29	Motor 1.5HP	1
30	Flange Nut 5/16″	4
31	Washer 5/16″x 23	44
32	Packing	2
33	Bearing Fixing Plate	1
34	Philp HD Screw M5 x 15	3
35	Bearing	3
36	L type Handle	1
37	Flange Bolt 5/16″x 1/2″	36
38	Bearing Fixing Plate Thread	2
39	Connecting Spindle	1
40	Hex Bolt M6 x 16L	1

No	Description	Qty
41	Main Spindle	1
42	Lower Bracket	1
43	Whasher 1/4″	7
44	Philp HD Screw M6 * 10	1
45	Philp HD Screw M5 * 8	3
46	Lower Bracket Fixing Plate	2
47	Philp HD Screw M5 x 15	4
48	Nut M5	4
49	Magnetic Switch with remote receiver	1
50	Dust bag (Small)	1
51	Belt Clamp	1
52	Inlet Cap 4″	1
53	Philp HD Screw 3/16″x3/8″	1
54	Hex Bolt 5/16″x 1/2″	8
55	Flate HD Screw 5/16″x 1-1/4″	2
56	Button HD Screw 5/16″x 1/2″	16
58	Hose 7″	1
59	Flapper	3
60	Hex Screw M6 x 16	6
61	Square pad	1
62	PC Board	1
63	Rivet	8
64	Handle	1
65	Philp HD Screw 1/4″x 5/8″	2
66	Cap Nut 1/4″	2
67	Remote	1
70	Impeller 12-3/4″ Aluminum	1
71	Impeller Washer	1
72	Cap Screw M6 x 30	1
73	Rubber Strip	1
74	Hose Clamp 1-1/2″	2
75	Hose 1-1/2″	1
76	Hose Clamp 7″	2
77	Power Cord	1
78	Negartive Pressure Gage	1
79	Button HD Screw 1/4″x 3/4″	2
80	Hose 1/2″	1
81	Hose Clamp 1/2″	2
82	Dust Bag(Large)	1

Model: 88150T



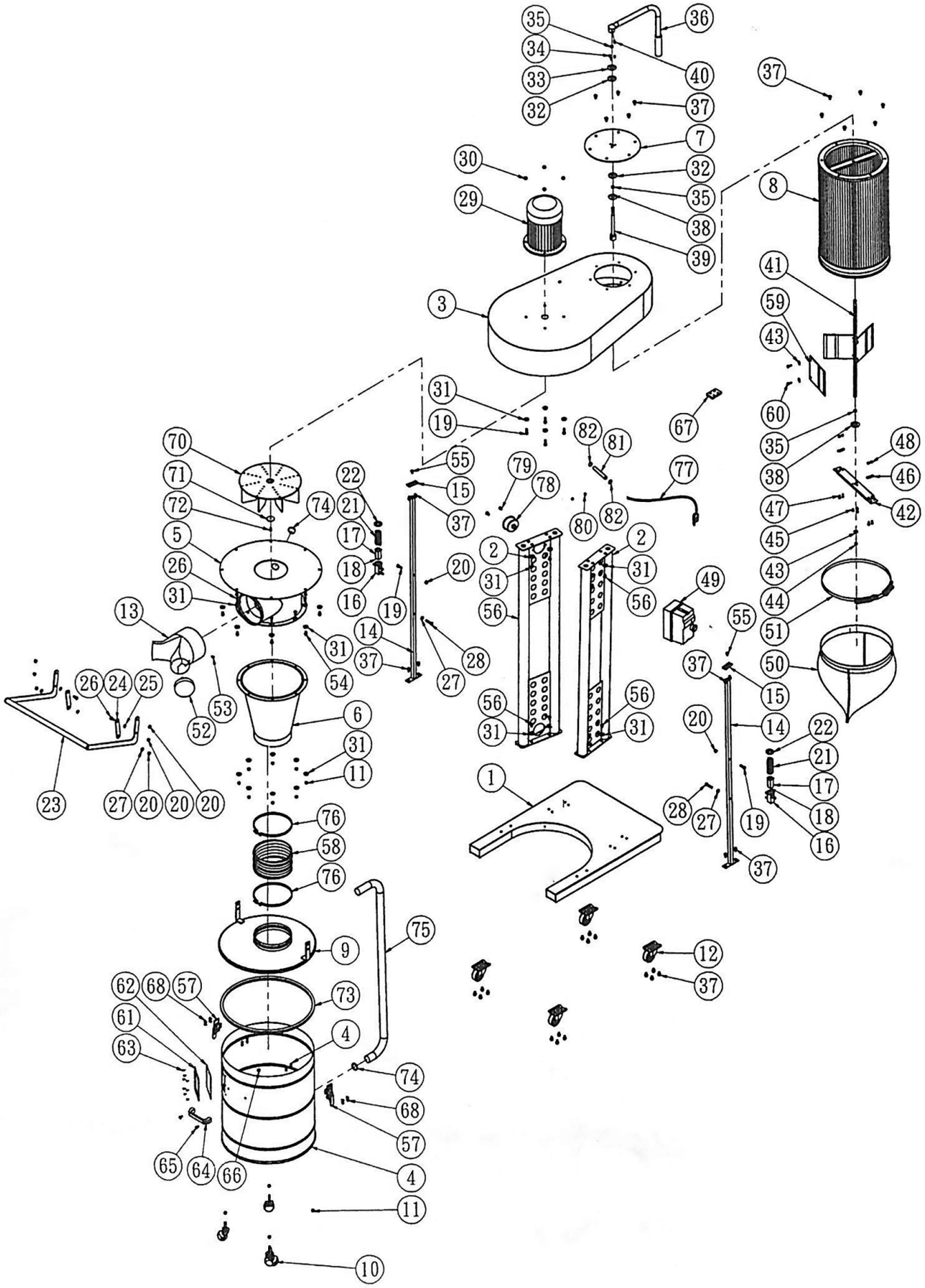
EXPLODED DIAGRAMS/LISTS - AP176CEH 2HP

Model: 88200T

No	Description	Qty
1	Base	1
2	Leg (longer)	2
3	Main Housing	1
4	Dust Drum (Tall)	1
5	Round Collector	1
6	Reducing Collector	1
7	Housing top cover	1
8	Cansiter Filter 600mm Long	1
9	Drum Lid 8"	1
10	Caster	4
11	Nut 5/16"	12
12	Wheel	4
13	Inlet 7" x 4" x 2	1
14	Guide Tube	2
15	Guide Tube fixing Plate	2
16	Sliding Bracket	2
17	Copper Plate	4
18	Copper Plate	4
19	Hex Screw 5/16"x 1"	6
20	Lock Nut 5/16"	8
21	Spring	2
22	Blocking Washer	2
23	Lever Handle	1
24	linkage Plate	2
25	Plastic Washer	4
26	Hex HD Screw	10
27	Waher 5/16"	4
28	Hex Bolt 5/16" x 1-1/2"	2
29	Motor 2HP	1
30	Flange Nut 5/16"	4
31	Washer 5/16" x 23	44
32	Packing	2
33	Bearing Fixing Plate	1
34	Philp HD Screw M5 x 15	3
35	Bearing	3
36	L type Handle	1
37	Flange Bolt 5/16" x 1/2"	36
38	Bearing Fixing Plate Thread	2
39	Connecting Spindle	1
40	Hex Bolt M6 x 16L	1

No	Description	Qty
41	Main Spindle	1
42	Lower Bracket	1
43	Whasher 1/4"	7
44	Philp HD Screw M6 * 10	1
45	Philp HD Screw M5 * 8	3
46	Lower Bracket Fixing Plate	2
47	Philp HD Screw M5 x 15	4
48	Nut M5	4
49	Magnetic Switch with remote receiver	1
50	Dust bag (Small)	1
51	Belt Clamp	1
52	Inlet Cap 4"	1
53	Philp HD Screw 3/16" x3/8"	1
54	Hex Bolt 5/16" x 1/2"	8
55	Flate HD Screw 5/16" x 1-1/4"	2
56	Button HD Screw 5/16" x 1/2"	16
58	Hose 8"	1
59	Flapper	3
60	Hex Screw M6 x 16	6
61	Square pad	1
62	PC Board	1
63	Rivet	8
64	Handle	1
65	Philp HD Screw 1/4" x 5/8"	2
66	Cap Nut 1/4"	2
67	Remote	1
70	Impeller	1
71	Impeller Washer	1
72	Cap Screw M6 x 30	1
73	Rubber Strip	1
74	Hose Clamp 1-1/2"	2
75	Hose 1-1/2"	1
76	Hose Clamp 8"	2
77	Power Cord	1
78	Negartive Pressure Gage	1
79	Button HD Screw 1/4" x 3/4"	2
80	Hose 1/2"	1
81	Hose Clamp 1/2"	2
82	Dust Bag(Large)	1

Model: 88200T

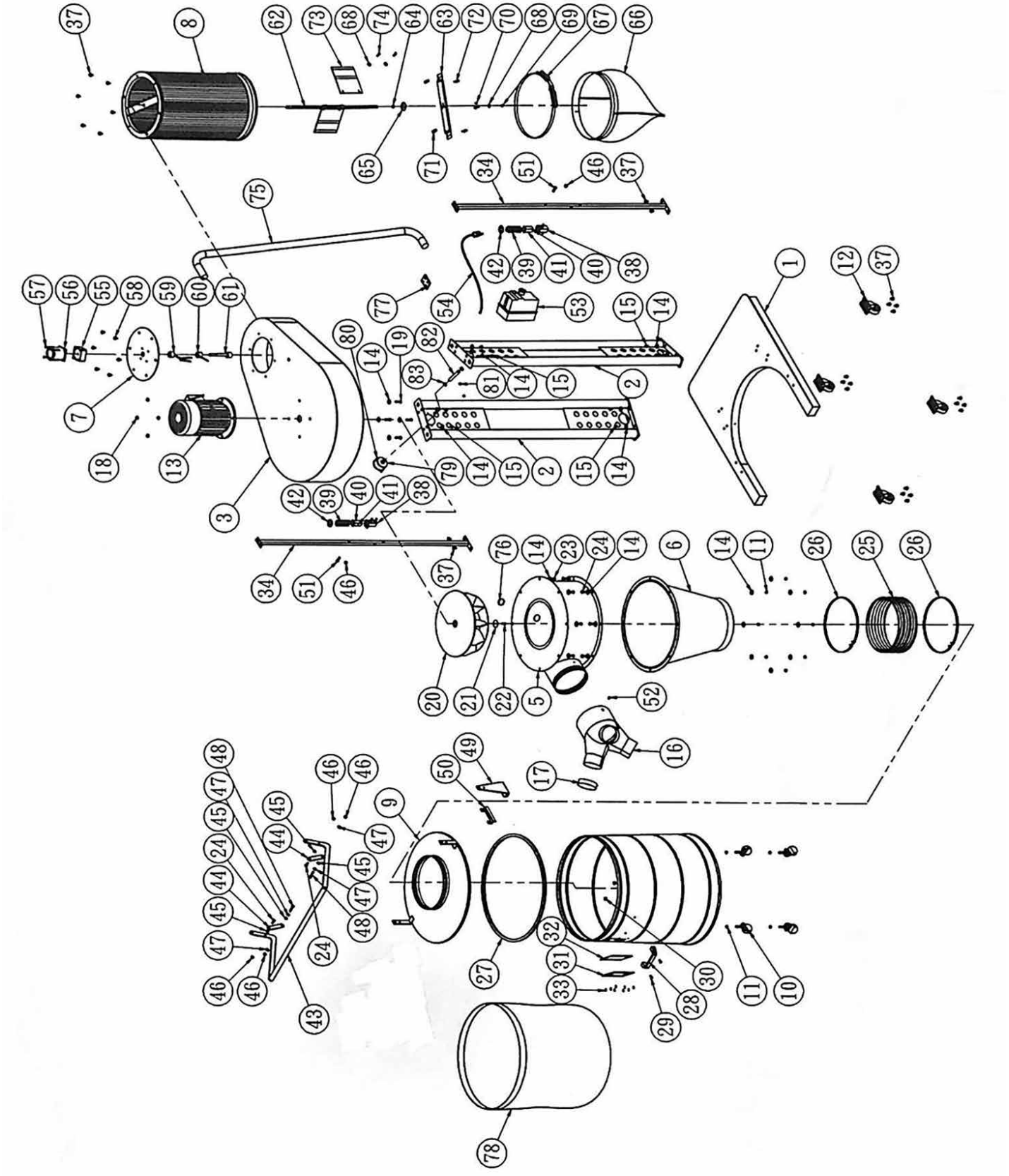


Model: 88300TA

No	Description	Qty
1	Base	1
2	Stand	2
3	Main Housing	1
4	Dust Drum	1
5	Collector	1
6	Reducing Collector	1
7	Housing Cover	1
8	Canister Filter	1
9	Drum Lid	1
10	Caster	4
11	Nut -5/16″	12
12	Wheel	4
13	Motor 3HP	1
14	Washer 5/16″	44
15	Button HD Screw 5/16″x 1/2″	16
16	Inlet	1
17	Cap 4″	1
18	Flange Screw	4
19	Hex Screw 5/16″ x 1-1/4″	4
20	Impeller	1
21	Impeller Washer	1
22	Cap Screw M6 x 30	1
23	Hex Screw 5/16″ x 1/2″	8
24	Hex Screw 5/16″ x 3/4″	10
25	12″ Hose	1
26	Hose Clamp 12″	2
27	Rubber Strip	1
28	Handle	1
29	Philp HD Screw 1/4″*1/2″	2
30	Nut 1/4″	2
31	Squre Foam	1
32	PC Board	1
33	Rivet 4-2	8
34	Sliding Bar	2
35	Fixing Plate	2
36	Flat HD Screw 5/16″ x 1-1/4″	2
37	Flange Screw 5/16″ x 1/2″	30
38	Sliding Block	2
39	Spring	2
40	Copper Plate	4

No	Description	Qty
41	Copper Plate	4
42	Special Washer	2
43	Lever Handle	1
44	Connecting Plate	2
45	Plastic Washer	4
46	Lock Nut 5/16″	6
47	Washer 5/16″	4
48	Hex Bolt 5/16″ x 1-1/2″	2
51	Hex Bolt 5/16″ x 1″	2
52	Philp HD Screw 3/16″ x 3/8″	1
53	Magnetic Switch with Receiver	1
54	Power Cord	1
55	Reducer	1
56	Small Motor	1
57	Cap Screw M5 x 50	4
58	Flange Screw 5/16″ x1/2″	6
59	Upper Flapping Hook	1
60	Lower Flapping Bar	1
61	Connecting Shaft	1
62	Main Shaft	1
63	Lower Plate	1
64	Bearing	1
65	Bearing Fixing Plate	1
66	Dust Bag (Small)	1
67	Belt Clamp	1
68	Flat Washer 1/4″	7
69	Philp HD Screw M5*8	1
70	Philp HD Screw M5 x 10	3
71	Fix Plate	2
72	Philp HD Screw M5 x 15	4
73	Flapper	3
74	Hex Bolt M6 x 16	6
75	Hose 1-1/2″	1
76	Hose Clamp 1-1/2″	2
77	Remote	1
78	Plastic Bag.	1
79	Negartive Gage	1
80	Hose 1/2″	1
81	Hose Clamp 1/2″	2

Model: 88300TA



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