



## Operating Instructions & Parts Manual



### Model 9686006



## Dust Collector





GETTING STARTED

**Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described.**

**Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! retain instructions for future reference.**

SAFETY / SPECIFICATIONS

ASSEMBLY / INSTALLATION

OPERATION

TROUBLESHOOTING

MAINTENANCE / REPAIR

**Model Number:** \_\_\_\_\_

**Serial Number:** \_\_\_\_\_

**Purchase Date:** \_\_\_\_\_





## GETTING STARTED

### Description:

The NORSE Dust Collector is designed to remove and collect wood dust and wood chips from woodworking machinery. Lower polypropylene bag collects dust and chips while upper cloth bag filters fine dust. Lower bag design makes disposal of dust and chips easy. Collector features 4" intake hose and casters on base for mobility.

**⚠ DANGER** *Do not use this dust collector in a flammable or explosive atmosphere. Do not use to collect aluminum or magnesium dust, nor any other chemically reactive dusts. Consult National Fire Protection Association (NFPA) standards before setting up a dust collection system, especially NFPA 664.*

### Structural Requirements:



Make sure all supporting structures and load attaching devices are strong enough to hold your intended loads. If in doubt, consult a qualified structural engineer.

### Electrical Requirements:



The power supply to the Dust Collector needs to be 120/240 volt, 12/6 amp, 60 Hz. The standard allowable voltage variation is plus or minus 10%.

### Tools Needed:

Standard mechanic's hand tool set.

## UNPACKING

**⚠ WARNING** *Be careful not to touch overhead power lines, piping, lighting, etc. if lifting equipment is used. Dust Collector weighs approximately 101 lbs, proper tools, equipment and qualified personnel should be employed in all phases of unpacking and installation.*

Carton should be handled with care to avoid damage from dropping, bumping, etc. Store and unpack carton with correct side up. After unpacking Dust Collector, inspect carefully for any damage that may have occurred during transit. Check for loose, missing or damaged parts. If any damage or loss has occurred, claim must be filed with carrier immediately. Check for completeness. Immediately report missing parts to dealer.

### Contents:

- Main Base Plate Assembly (1)
- Collector Assembly (1)
- Main On-Board hose (1)
- Motor/Fan Assembly (1)
- Collector Support (3)
- Upper Bag Support (1)
- Double Inlet Adaptor (1)
- Caster (4)
- Motor Support Bracket (1)

- Main Fan Assembly Outlet (1)
- Main Fan Assembly Outlet Seal (1)
- Large Pipe Clips (2)
- Small Pipe Clips (2)
- Filter/Collection Bag Retaining Straps (2)
- Caster Fixing Kit (4 Sets)
- Main Assembly Fixing Kit (1 Set)
- Operating Instructions & Parts Manual (1)

### Unpack:



Do not discard packing materials until after Dust Collector has been inspected for damage and completeness. Locate loose parts and set aside.

### Inspect:



After unpacking the unit, carefully inspect for any damage that may have occurred during transit. Check for loose, missing or damaged parts. Shipping damage claims must be filed with the carrier.

All tools should be visually inspected before use, in addition to regular periodic maintenance inspections.

Be sure that the voltage labeled on the unit matches your power supply.



See General Safety Instructions, Cautions and Warnings as shown.

## SAFETY RULES

**⚠ WARNING** *For your own safety, read all of the instructions and precautions before operating tool.*



**PROPOSITION 65 WARNING:** Some dust created by using power tools contain chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks and cement and other masonry products.
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area and work with approved safety equipment. Always wear **OSHA/NIOSH** approved, properly fitting face mask or respirator when using such tools.

**⚠ WARNING** *Always follow proper operating procedures as defined in this manual even if you are familiar with the use of this or similar tools. Remember that being careless for even a fraction of a second can result in severe personal injury.*



**SAFETY RULES (CONTINUED)****Be Prepared for Job**

- Wear proper apparel. Do not wear loose clothing, gloves, neckties, rings, bracelets or other jewelry which may get caught in moving parts of machine.
- Wear protective hair covering to contain long hair.
- Wear safety shoes with non-slip soles.
- Wear safety glasses complying with United States ANSI Z87.1. Everyday glasses have only impact resistant lenses. They are **NOT** safety glasses.
- Wear face mask or dust mask if operation is dusty.
- Be alert and think clearly. Never operate power tools when tired, intoxicated or when taking medications that cause drowsiness.

**Prepare Work Area for Job**

- Keep work area clean. Cluttered work areas invite accidents.
- Do not use power tools in dangerous environments. Do not use power tools in damp or wet locations. Do not expose power tools to rain.
- Work area should be properly lighted.
- Proper electrical receptacle should be available for tool. Three-prong plug should be plugged directly into properly grounded, three-prong receptacle.
- Extension cords should have a grounding prong and the three wires of the extension cord should be of the correct gauge.
- Keep visitors at a safe distance from work area.
- Keep children out of workplace. Make workshop childproof. Use padlocks, master switches or remove switch keys to prevent any unintentional use of power tools.

**Tool Should Be Maintained**

- Always unplug tool prior to inspection.
- Consult manual for specific maintaining and adjusting procedures.
- Keep tool lubricated and clean for safest operation.
- Remove adjusting tools. Form habit of checking to see that adjusting tools are removed before switching machine on.
- Keep all parts in working order. Check to determine that the guard or other parts will operate properly and perform their intended function.
- Check for damaged parts. Check for alignment of moving parts, binding, breakage, mounting and any other condition that may affect a tool's operation.
- A guard or other part that is damaged should be properly repaired or replaced. Do not perform makeshift repairs. (Use parts list provided to order repair parts.)

**Know How to Use Tool**

- Use right tool for job. Do not force tool or attachment to do a job for which it was not designed.
- Disconnect tool when changing the blade.
- Avoid accidental start-up. Make sure that the tool is in the OFF position before plugging in.
- Do not force tool. It will work most efficiently at the rate for which it was designed.
- Leave hands free to operate machine. Protect hands from possible injury.
- Never leave tool running unattended. Turn the power off and do not leave tool until it comes to a complete stop.
- Do not overreach. Keep proper footing and balance.
- Never stand on tool. Serious injury could occur if tool is tipped or if blade is unintentionally contacted.
- Keeps hands away from moving parts.
- Know your tool. Learn the tool's operation, application and specific limitations.

**▲ WARNING** *The operation of any power tool can result in foreign objects being thrown into the eyes, which can result in severe eye damage. Always wear safety goggles complying with United States ANSI Z87.1 before commencing power tool operation.*

**▲ CAUTION** *Think safety! Safety is a combination of operator common sense and alertness at all times when tool is being used.*

**SPECIFICATIONS**

Motor	2 HP, 3450 RPM, 120/240V, 12/6A
Air flow rate	1490 CFM
Maximum static pressure	10.8" of water
Sound level	80 dB
Inlet	4"
Collector bag capacity	40 gal.
Weight	101 lbs.
Overall size	36 x 27 x 76"



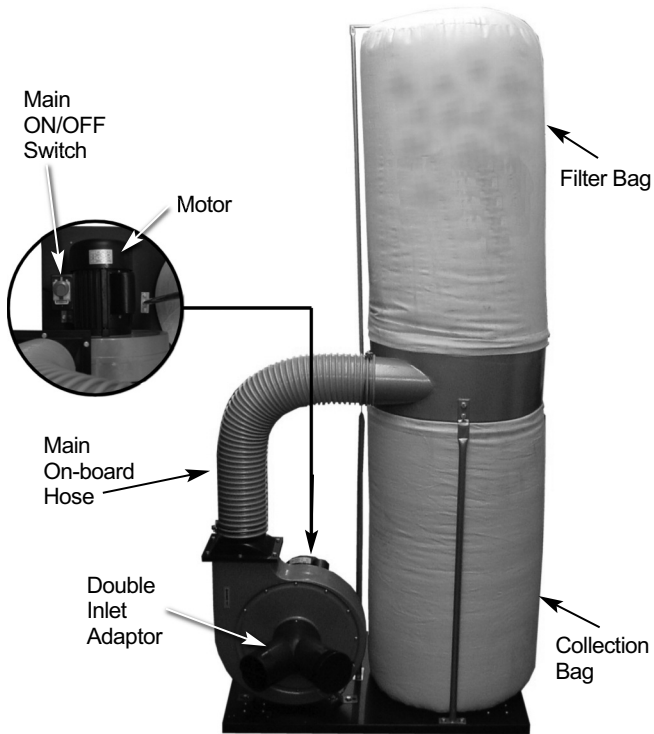


**ASSEMBLY**

**CAUTION** Do not attempt assembly if parts are missing. Use this manual to order repair parts.

**Getting to Know Your Dust Extractor**

Refer to Figure 1.

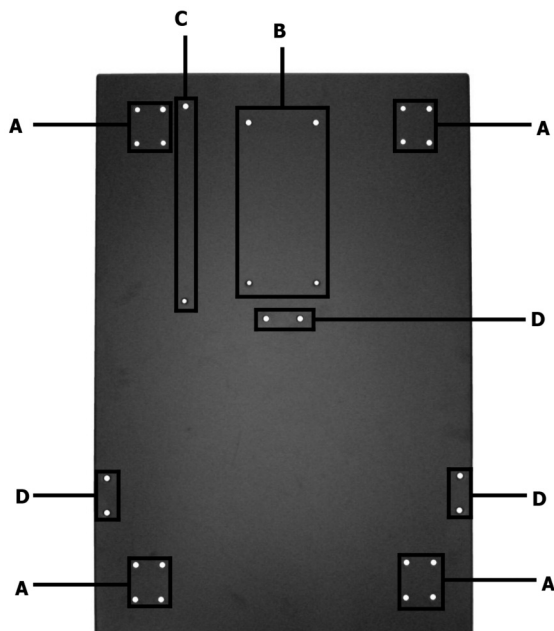


**Figure 1 - Know your dust collector.**

**Base Plate Layout Guide**

Refer to Figures 2 and 14.

This is a brief guide to where the separate components should be attached to the base plate (Ref. No. 3) (as viewed from above).



**Figure 2 - Layout guide to main base plate assembly.**

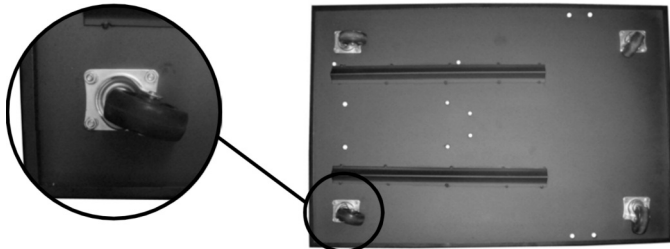
- A. These holes are for fitting the 4 casters (Ref. No. 1).
- B. These holes are for fitting the motor support bracket (Ref. No 5).
- C. These holes are for fitting the bracket of the motor/fan assembly (Ref. No. 8).
- D. These holes are for fitting the 3 collector supports (Ref. No. 14).

**Fitting the Casters**

Refer to Figures 2, 3 and 14.

1. Locate the holes (Ref. A) for mounting the casters (Ref. No. 1) onto the base plate (Ref. No. 3). There are 4 at each corner.
2. Line up the holes on the casters with those on the base plate.
3. Use the 4 x cross head screws, washers and nuts (Ref. Nos. 23, 16 and 19) to secure the 4 x casters.

**NOTE:** The 2 x strengthening braces (Fig. 3) should be on the bottom of the completed assembly.

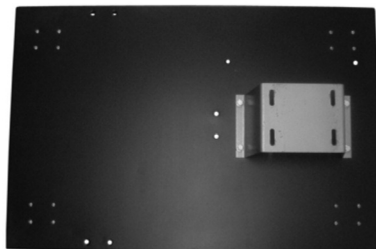


**Figure 3 - Fitting casters to baseplate.**

**Fitting the Motor Support Bracket**

Refer to Figures 2, 4 and 14.

1. Locate the holes (Ref. B) for mounting the motor support bracket (Ref. No. 5).
2. Line up the holes on the bracket with those located on the base plate (Ref. No. 3).
3. Secure with 4 x M8 x 16 bolts and washers (Ref. Nos. 6 and 4.)



**Figure 4 - Fitting motor support bracket to base plate.**





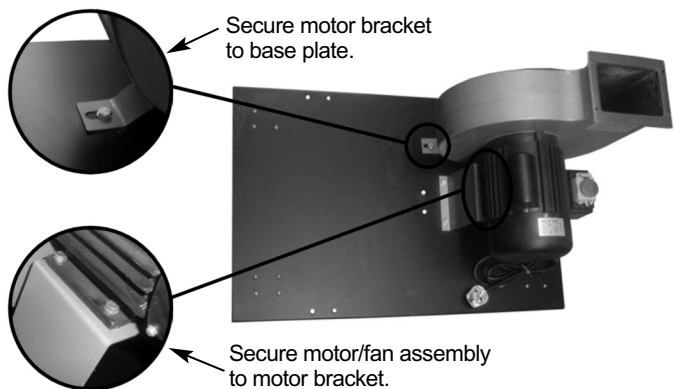
## ASSEMBLY (CONTINUED)

### Fitting the Motor/Fan Assembly

Refer to Figures 2, 5 and 14.

**CAUTION** *Due to the weight of the motor/fan assembly, this operation should be carried out by at least 2 persons to reduce the risk of injury.*

1. Locate the holes (Ref. C) for mounting the motor/fan assembly (Ref. No. 8) onto the base plate (Ref. No. 3).
2. Place the motor/fan assembly onto the base plate. Use the motor support bracket (Ref. No. 5) to take the weight of the motor.
3. Line up the holes on the motor/fan assembly with the holes on the base plate, as well as the holes on the motor with the holes on the motor support bracket.
4. Secure the fan/motor assembly to the base plate with 2 x M8 x 16 bolts and washers (Ref. No. 6 and 4).
5. Secure the motor to the motor support bracket with 4 x M8 x 25 bolts, 8 x washers (1 above and 1 below) and 4 x M8 nuts (Ref. Nos. 12, 4 and 2).

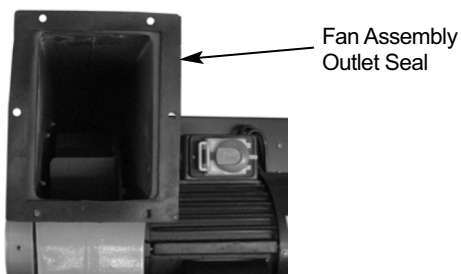


**Figure 5 - Fitting motor/fan assembly.**

### Fitting the Main Fan Assembly Outlet

Refer to Figures 6, 7 and 14.

1. Fit the main fan assembly outlet seal (Ref. No. 29) over the fan assembly outlet, ensuring that the holes on the seal line up with the holes on the outlet.



**Figure 6 - Fan assembly outlet seal.**

2. Fit the main fan assembly outlet (Ref. No. 30) over the seal.
3. Secure it in place with 6 x M6 x 20 bolts, 12 x washers (one above and one below) and 6 x nuts (Ref. Nos. 15, 16 and 19).

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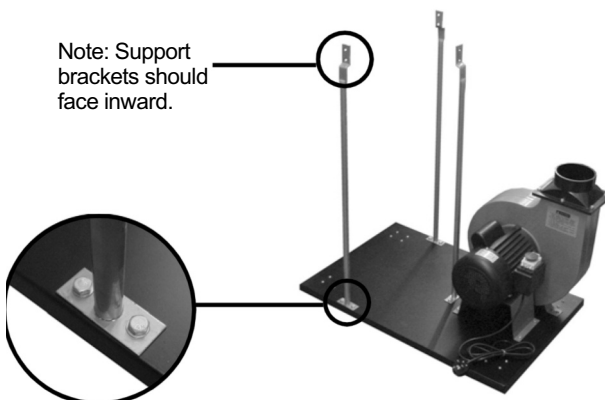
**Figure 7 - Main fan assembly outlet.**

### Fitting the Collector Supports

Refer to Figures 2, 8 and 14.

1. Locate the holes (D) on the base plate (Ref. No. 3) where the collector supports (Ref. No. 14) are to be fitted.
2. Line up the holes on the collector supports with those on the base plate.
3. Secure the collector supports with 2 x M8 x 16 bolts and 2 x washers (each) (Ref. Nos. 6 and 4).

**NOTE:** Ensure that the supports are fitted with the bracket at the top stepping inwards, this will allow for the collector assembly (Ref. No. 33) to be fitted correctly. Refer to Figure 8.



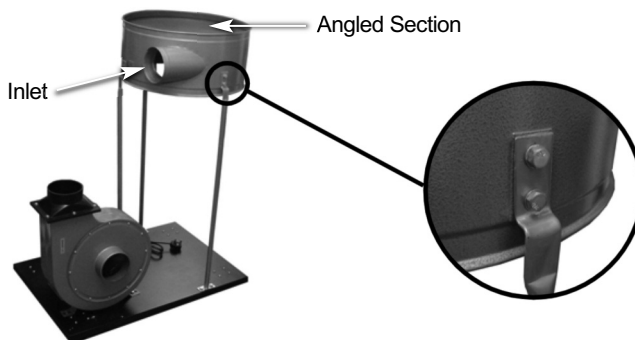
**Figure 8 - Fitting collector supports.**

### Fitting the Collector Assembly

Refer to Figures 8 through 10 and 14.

1. Set the collector assembly (Ref. No. 33) inside the collector supports (Ref. No. 14).

**NOTE:** Ensure the inlet of the collector assembly faces towards the motor and that the angled section inside the collector faces upwards. Refer to Figure 8.



**Figure 9 - Fitting collector assembly.**





**ASSEMBLY (CONTINUED)**

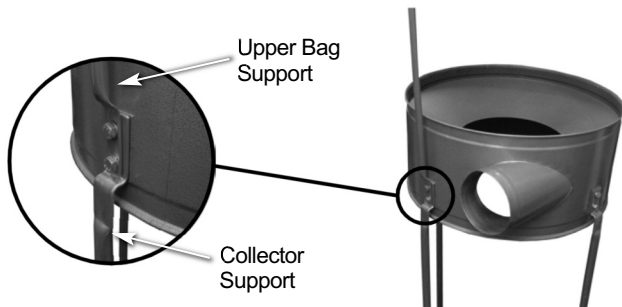
- Line up the holes on the supports with those on the collector assembly.
- Secure the 2 side supports to the collector assembly with 2 x M8 x 16 bolts and washers (each) (Ref. No. 6 and 4).

**NOTE:** The fixing point of the 3rd support is also used to connect the upper bag support (Ref. No. 13).

- Line up the holes on the upper bag support with those on the collector and collector support.
- Secure with 2 x M8 x 16 bolts and washers.

**NOTE:** The fixing point of the 3rd support is also used to connect the upper bag support.

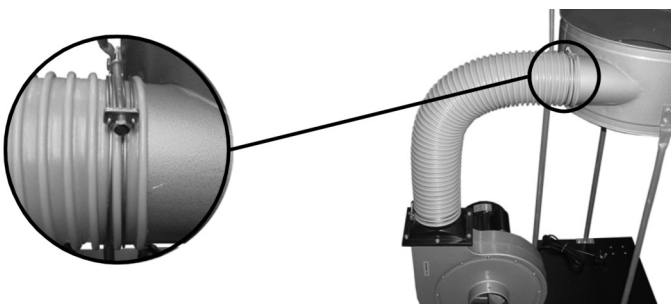
- Line up the holes on the upper bag support with those on the collector and collector support.
- Secure with 2 x M8 x 16 bolts and washers.



**Figure 9 - Fitting collector assembly.**

**Fitting the On-Board Hose**

- Slide the 2 x hose clamps (1 at each end) (Ref. No. 31) over the main on-board hose (Ref. No. 32).
- Slide one end of the hose over the main fan assembly outlet (Ref. No. 30) and the other end over the inlet of the collector assembly (Ref. No. 33).
- Tighten both hose clamps to secure.

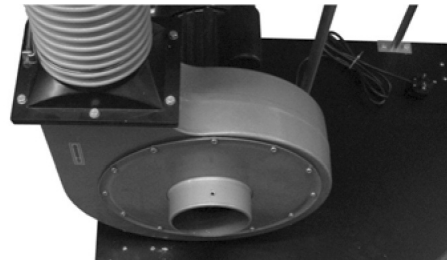


**Figure 10 - Fitting on-board hose.**

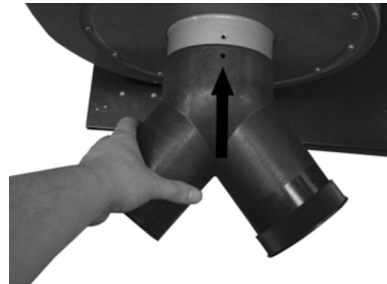
**Fitting the Double Inlet Adaptor**

Refer to Figures 11 through 13 and 14.

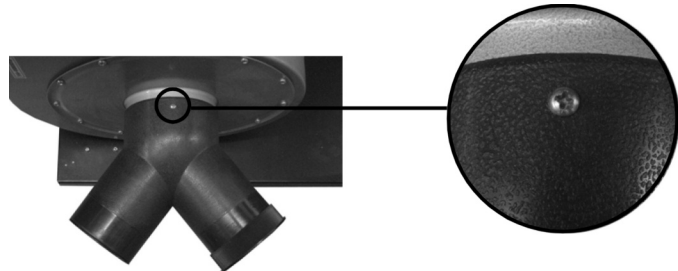
- To fit the double inlet adaptor (Ref. No. 24), simply slide it over the main inlet of the motor/fan assembly (Ref. No. 8).
- Line up the securing hole on the double inlet adaptor with the hole on the main inlet.
- Secure with the screw provided.



**Figure 11 - Main inlet.**



**Figure 11 - Slide double inlet adaptor over main inlet.**



**Figure 12 - Secure with screw.**

**INSTALLATION**

**⚠ WARNING** Do not permit fingers to touch terminals of plug when installing or removing the plug to or from the outlet.

**⚠ WARNING** Do not connect to power source until unit is completely assembled.

**Power Source**

- Motor is designed for operation on the voltage and frequency specified on motor nameplate.
- Normal loads will be handled safely on voltages not more than 10% above or below the specified voltage.
- Running unit on voltages not within range may cause overheating and motor burnout.

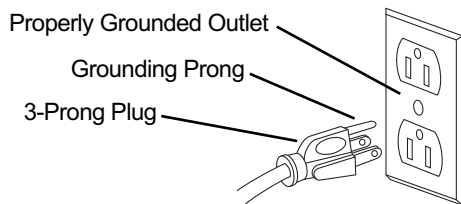


## INSTALLATION (CONTINUED)

### Grounding Instructions

Refer to Figure 13.

- This tool is equipped with a 3-conductor cord.
- Do not remove or alter grounding prong in any manner. In the event of malfunction or breakdown, grounding provides path of least resistance for electrical current to reduce risk of electrical shock.
- Plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.



**Figure 13 – Properly grounded outlet.**

- The conductor with insulation having an outer surface which is green is equipment grounding conductor. If repair or replacement is necessary, make sure equipment grounding conductor is not connected to line terminal.
- If power cord is worn, cut or damaged in any way, have it replaced immediately.

**CAUTION** *Improper connection of the equipment-grounding conductor can result in a risk of electrical shock.*

### Extension Cords

- The use of any extension cord will cause some drop in the voltage and loss of power.
- Wires of the extension cord must be sufficient in size to carry the current and maintain adequate voltage.
- Use the table below to determine the minimum wire size (A.W.G.) extension cord.
- Use only 3-wire extension cords having 3-prong grounding type plugs and 3-pole receptacles which accept the tool plug.
- If extension cord is worn, cut or damaged in any way, have it replaced immediately.

### Extension Cord Length and Gauge

Length	A.W.G.
Up to 50 ft.	16

**NOTE:** Using extension cords over 50 ft. long is not recommended.

## OPERATION

### Dust Collector

1. Position dust collector near dust producing machine on a flat level surface.
2. Connect collector hose to dust producing machine using hose clamp.
3. Turn dust collector on before starting dust producing machine.

### Emptying Collector Bag

**WARNING** *Turn switch off and remove plug from power source outlet before emptying collector bag.*

1. Empty collector bag by lifting bag clamp handle and releasing spring connector from latch. Slide bag away from housing. Dispose of dust properly.
2. Mount collector bag by sliding bag over opening on housing bottom. Position the spring connector into one of the slots on the latch and lock the clamp handle. Make sure collector bag is secure.

## MAINTENANCE

**WARNING** *Turn switch off and remove plug from power source outlet before maintaining your dust collector.*

**CAUTION** *Never use highly volatile solvents. Avoid getting cleaning solution on paint as it may tend to deteriorate these finishes. Use soap and water on painted components.*

- Clean motor of dust, chips or other particles. If operation is excessively dusty or dirty, frequent inspection of motor is required. Vacuum any particles that may have entered the motor.
- Replace worn, cut or damaged line cord.
- Replace worn or damaged collector hose.
- Replace worn or damaged filter and collector bags.
- Clean casters as needed to ensure proper operation.
- Frequently check that all nuts, bolts, screws, etc. have not loosened due to collector vibration.





**TROUBLESHOOTING GUIDE**

Symptom	Possible Cause(s)	Corrective Action
Motor will not run	<ol style="list-style-type: none"> <li>1. Defective plug, cord, switch or motor</li> <li>2. Blown fuse or circuit breaker</li> </ol>	<ol style="list-style-type: none"> <li>1. Check wiring, replace defective parts</li> <li>2. Check fuse or breaker, replace</li> </ol>
Excessive dust in air	<ol style="list-style-type: none"> <li>1. Leaking bag or hose connection</li> <li>2. Filter or collector bag leaks</li> </ol>	<ol style="list-style-type: none"> <li>1. Check filter and collector bag connections. Check collector hose connections</li> <li>2. Dust trapped under bag clamp or collector bag not sealed on flange</li> </ol>
Excessive impeller noise	<ol style="list-style-type: none"> <li>1. Large debris or piece of wood in impeller housing</li> <li>2. Loose impeller</li> </ol>	<ol style="list-style-type: none"> <li>1. Do not vacuum metal materials. Turn collector off and let debris settle in collector bag</li> <li>2. Disconnect collector from power source. Remove connector and tighten impeller</li> </ol>
Excessive motor noise	Defective motor	Have motor checked by qualified motor service technician
Motor fails to develop full power or motor stalls	<ol style="list-style-type: none"> <li>1. Low voltage to collector caused by circuit overload</li> <li>2. Low voltage to collector caused by undersized extension cords</li> <li>3. Low voltage from power source</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove other electric machines or appliances from circuit</li> <li>2. Increase wire gauge size of extension cords or shorten extension cords</li> <li>3. Request voltage check from power company</li> </ol>
Motor slow to start or fails to reach full speed	<ol style="list-style-type: none"> <li>1. Burned or defective motor</li> <li>2. Defective motor capacitor switch</li> </ol>	<ol style="list-style-type: none"> <li>1. Check motor, replace if necessary</li> <li>2. Check switch, replace if necessary</li> </ol>
Motor overheats	<ol style="list-style-type: none"> <li>1. Motor overload</li> <li>2. Improper motor cooling</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce load by slowing dust production</li> <li>2. Clean sawdust from motor</li> </ol>
Tripping circuit breaker or fuses	<ol style="list-style-type: none"> <li>1. Motor overloaded</li> <li>2. Improper capacity of circuit breaker or fuses</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce load by slowing dust production</li> <li>2. Use proper capacity circuit breaker or fuse</li> </ol>

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### REPAIR PARTS ILLUSTRATION FOR 9686006 DUST COLLECTOR

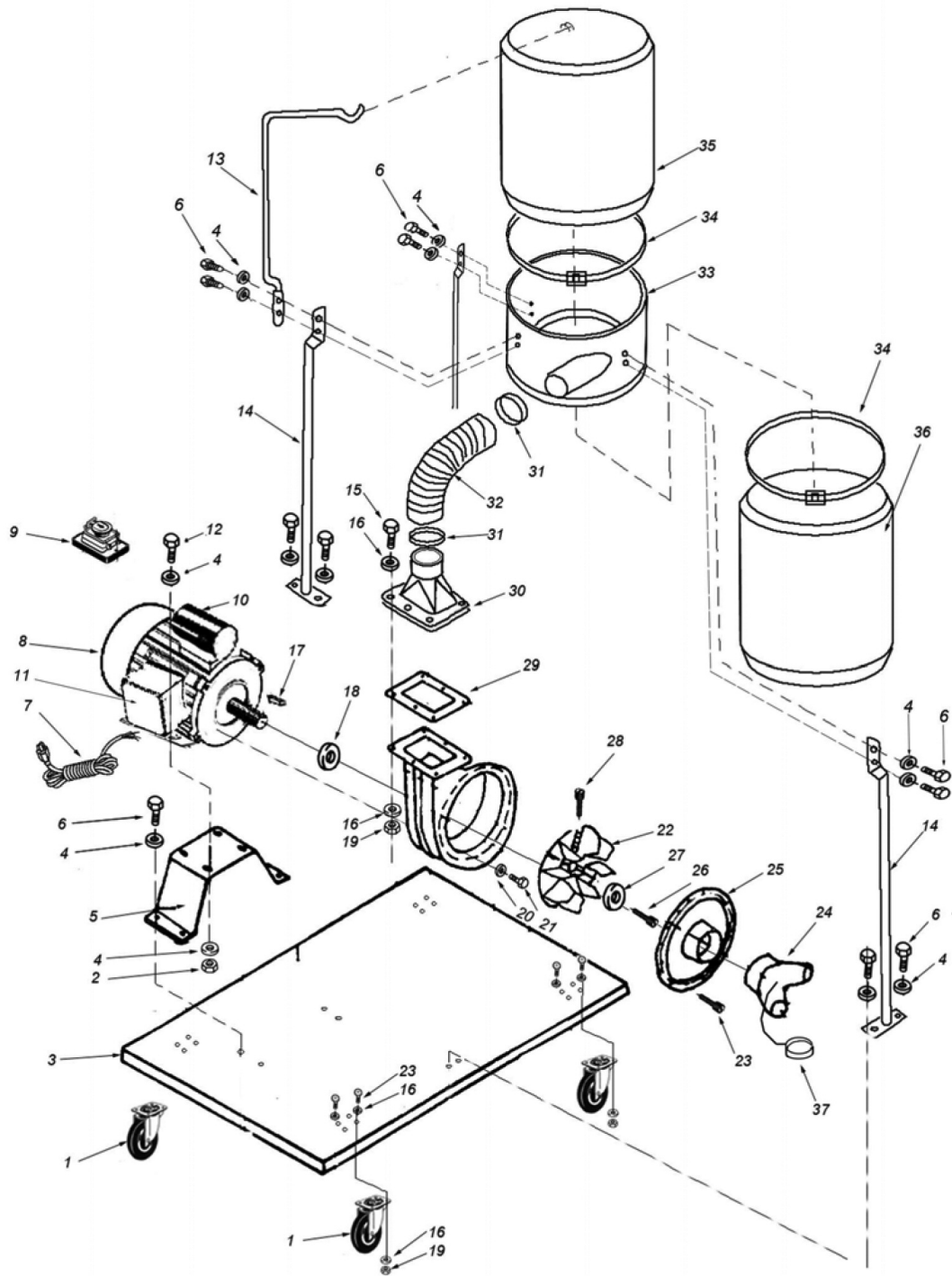


Figure 14 - Replacement parts illustration for 9686006 Dust Collector.

**REPAIR PARTS LIST FOR 9686006 DUST COLLECTOR**

Ref. No.	Description	Part No.	Qty.
1	Universal Caster	9643250.01	4
2	Nut M8	*	4
3	Base Plate	9643251.01	1
4	Washer 8 mm	*	18
5	Motor Support Bracket	9643252.01	1
6	Bolt M8 x 16	*	4
7	Line Cord	9643253.01	1
8	Motor w/Key	9643254.01	1
9	Switch	9616080.00	1
10	Capacitor	9643256.01	1
11	Switch Box	9643257.01	1
12	Bolt M8 x 25	*	4
13	Upper Bag Support	9643258.01	1
14	Collector Support	9643258.01	1
15	Bolt M6 x 20	*	6
16	Washer 6 mm	*	12
17	Key	N/A	1
18	Bushing	9643259.01	1
19	Nut M6	*	6
20	Washer	*	6
21	Screw Hex	*	6
22	Turbo Fan	9643260.01	1
23	Screw M6	*	6
24	Double Inlet Adaptor	9643261.01	1
25	Inlet Cover	9643262.01	1
26	Screw Hex	*	1
27	Washer	*	1
28	Screw Hex	*	1
29	Main Fan Assembly Outlet Seal	9643263.01	1
30	Main Fan Assembly Outlet	9643264.01	1
31	Hose Clamp	9643265.01	2
32	Main On-board Hose	9643266.01	1
33	Collector Assembly	9643267.01	1
34	Bag Clamp	9643268.01	1
35	Filter Bag	9643269.01	1
36	Collector bag	9686007	1
37	Inlet Adaptor Cover	9643270.01	1
Δ	Operating Instructions & Parts Manual	9643286.01	

(Δ) Not shown.

(\*) Standard hardware item, available locally.

(NA) Not available as replacement part.



## NORSE Warranty

NORSE by C.H. Hanson warrants their products to be free of defects in material or workmanship. This warranty does not cover defects due directly or indirectly to misuse, abuse, normal wear and tear, failure to properly maintain the product, heated, ground or otherwise altered, or used for a purpose other than that for which it was intended.

The warranty does not cover expendable and/or wear part (i.e. v-belts, screws, abrasives, jaws), damage to tools arising from alteration, abuse or use other than their intended purpose, packing and freight. The duration of this warranty is expressly limited to the terms noted below beginning from the date of delivery to the original user.

The NORSE branded items carry the following warranties on parts:

All NORSE branded Tools and Accessories 1 YEAR

The obligation of NORSE by C.H. Hanson is limited solely to the repair or replacement, at our option, at its factory or authorized repair agent of any part that should prove inoperable. Purchaser must lubricate and maintain the product under normal operating conditions at all times. Prior to operation become familiar with product and the included materials, i.e. warnings, cautions and manuals.

### **Failure to follow these instructions will void the warranty.**

This warranty is the purchaser's exclusive remedy against C. H. Hanson for any inoperable parts in its product. Under no circumstances is C. H. Hanson liable for any direct, indirect, incidental, special or consequential damages including loss of profits in any way related to the use or inability to use our products. This warranty gives you specific legal rights which may vary from state to state.

### **SERVICE & REPAIR**

1. If a NORSE product requires a repair or warranty service **DO NOT** return the product to the place of purchase.
2. All warranty related work must be evaluated and approved by NORSE.
3. Prior to returning any item the user must obtain factory approval and a valid RGA number.
4. For instructions and RGA number call toll free (800) 827-3398.



**NORSE - a C.H. Hanson Brand**  
**2000 N. Aurora Rd., Naperville, IL 60563 U.S.A.**  
**or call: 1-800-827-3398**