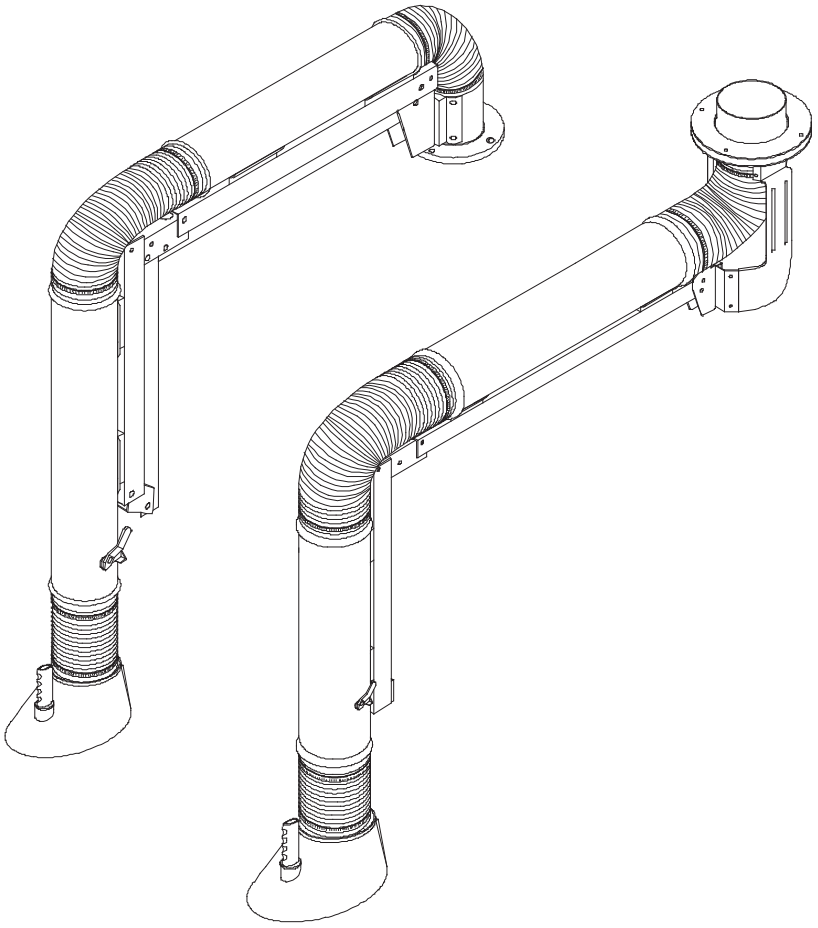
Donaldson®
Torit®

Installation and Operation Manual

Flex-Trunk™ Plus Extraction Arms

Installation, Operation, Service, and Replacement Parts Information



This manual is the property of the owner. Leave with the unit when set-up and start-up are complete. Donaldson Company reserves the right to change design and specifications without prior notice.

IOM 7536601
Revision 3

⚠ Throughout this manual, statements indicating precautions necessary *to avoid equipment failure* are referenced in a **Note**. Statements indicating potential hazards that could result in *personal injury or property damage* are referenced in a **Caution!** box.

Caution!

Application of Dust Control Equipment

- Combustible materials such as buffing lint, paper, wood, aluminum or steel dust, weld fume, or flammable solvents represent fire or explosion hazards. Use special care when selecting and operating all dust or fume collection equipment when combustible materials are present to protect workers and property from damage due to fire and/or explosion. Consult and comply with National and Local Codes relating to fire or explosion and all other appropriate codes when determining the location and operation of dust or fume collection equipment.
- When combustible materials are present, consult with an installer of fire extinguishing systems familiar with these types of fire hazards and local fire codes for recommendations and installation of fire extinguishing and explosion protection systems. Donaldson dust collection equipment is not equipped with fire extinguishing or explosion protection systems.
- DO NOT allow sparks, cigarettes or other burning objects to enter the hood or duct of any dust or fume control equipment as these may initiate a fire or explosion.
- For optimum collector performance, use only Donaldson replacement parts.

Warning – Improper operation of a dust control system may contribute to conditions in the work area or facility that could result in severe personal injury and product or property damage. Check that all collection equipment is properly selected and sized for the intended use.

This manual contains specific precautionary statements relative to worker safety. Read thoroughly and comply as directed. Discuss the use and application of this equipment with a Donaldson representative. Instruct all personnel on safe use and maintenance procedures.

Data Sheet

Model Number _____ **Serial Number** _____

Ship Date _____ **Installation Date** _____

Customer Name _____

Address _____

_____

Filter Type _____

Accessories _____

Other _____

Description

The Flex-Trunk™ Plus extraction arm is designed to carry dust, fume, and mist away from the worker's breathing zone. The extraction arms are available in bench- or overhead-mount applications. The Flex-Trunk Plus has a unique external counterbalance that uses no friction discs. A spring, hidden inside the counterbalance assembly, is factory balanced and easily fine-tuned with the hex tool included.

Available in a wide range of sizes, the extraction arms are constructed with black-coated mild steel and include a plastic hood with handle.

Purpose and Intended Use

The source collection arms are designed to carry dust, fume, and mist away from the worker's breathing zone. Typical pollutants, up to 10-microns in size, include fume, vapor, metal dust, weed dust, and plastic dust. Typical airflow ranges and applications for each size are shown in the table below.

Size	Typical airflow	Application
4-in diameter	350 cfm	Soldering, TIG welding
6-in diameter	800 cfm	Moderate wire feed and stick welding
7-in diameter	1,000 cfm	Flux core wire and stick welding, plasma cutting

Caution!

- Misuse or modification of this equipment may result in personal injury.
- Do not misuse or modify.

Operation

The operator positions the hood 12- to 18-inches above the work area. Contaminated air is drawn into the hood, through the Flex-Trunk Plus, and exhausts out of the work area.

Inspection on Arrival

1. Inspect unit on delivery.
2. Report any damage to the delivery carrier.
3. Request a written inspection report from the Claims Inspector to substantiate claim.
4. File claims with the delivery carrier.
5. Compare unit received with description of product ordered.
6. Report incomplete shipments to the delivery carrier and your Donaldson representative.
7. Remove crates and shipping straps. Remove loose components and accessory packages before lifting unit from truck.

Installation Codes and Procedures

1. Safe and efficient operation of the unit depends on proper installation.
2. Authorities with jurisdiction should be consulted before installing to verify local codes and installation procedures. In the absence of such codes, install unit according to the National Electric Code, NFPA No. 70-latest edition.
3. A qualified installation and service agent must complete installation and service of this equipment.

Electrical Wiring

Caution!

- Electrical installation must be performed by a qualified electrician and comply with all applicable national and local codes.
- Lock out electrical power sources before performing service or maintenance work.
- Do not install in classified hazardous atmospheres without an enclosure rated for the application.

1. All electrical wiring and connections, including electrical grounding, should be made in accordance with the National Electric Code, NFPA No. 70-latest edition.
2. Check local ordinances for additional requirements that apply.
3. The appropriate wiring schematic and electrical rating must be used. See unit's rating plate for required voltage.
4. If the unit is not furnished with a factory-mounted disconnect, an electric disconnect switch having adequate amp capacity shall be installed in accordance with Part IX, Article 430 of the National Electrical Code, NFPA No. 70-latest edition. Check unit's rating plate for voltage and amperage ratings.
5. Refer to the wiring diagram for the number of wires required for main power wiring and remote wiring.

Standard Equipment

Wall-Mount

Caution!

- Use appropriate lifting equipment and adopt all safety precautions needed for moving and handling the equipment.
- A forklift is recommended for unloading, assembly, and installation of the extraction arm.
- Location must be clear of all obstructions, such as utility lines or roof overhang.

1. Fasten the wall bracket to the wall, level with the floor, using suitable customer-supplied anchor bolts. See Bracket Installation.

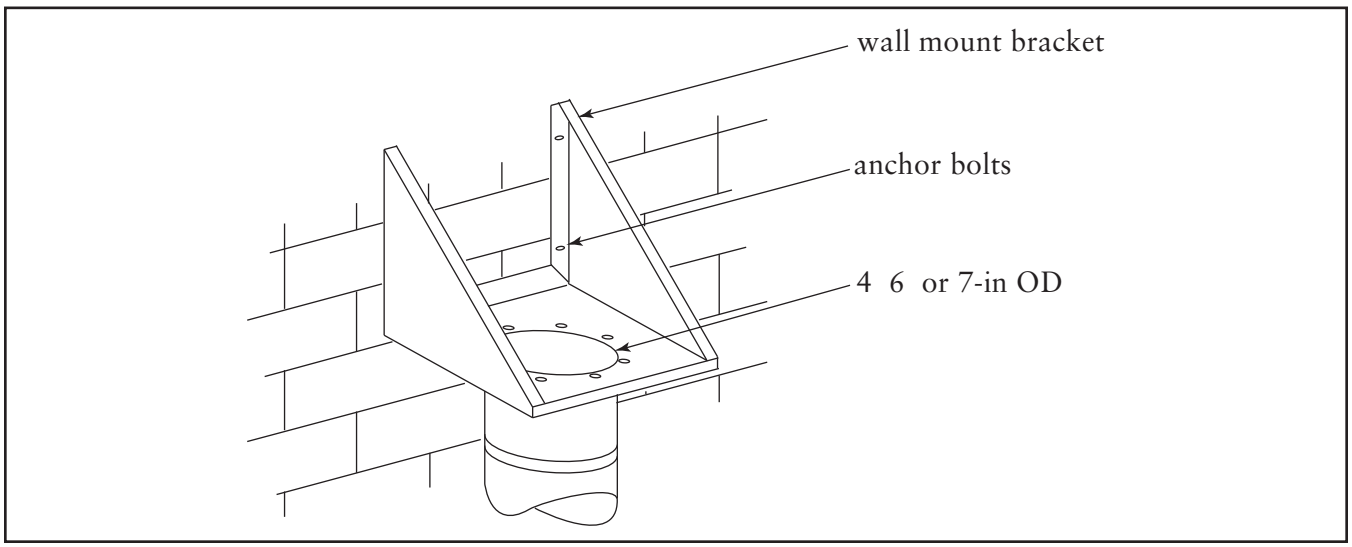
Caution!

- Failure to mount the wall bracket properly can result in arm assembly collapse.
- Anchor bolts must be sized to support loads up to 500 lb.

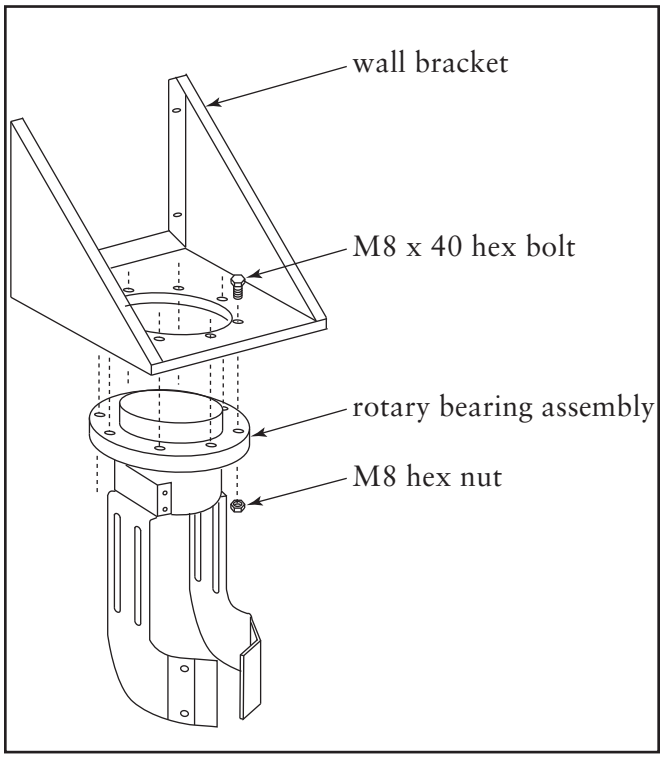
2. Fasten the rotary-bearing assembly to the wall bracket using M8 x 40 screws and M8 hex nuts supplied.
3. Carefully lift the arm and attach to the rotary-bearing assembly using M8 x 16 hex-socket recessed pan-head screws and M8 hex nuts supplied.
4. Connect the hose to the rotary-bearing assembly using the clamp supplied. See Hose to Bracket and Rotary Bearing Assembly.
5. Ground the arm by connecting the points of contact with copper-strand wire with a suitable cross-sectional area. Attach to the equipment to ensure electrical continuity.

Caution!

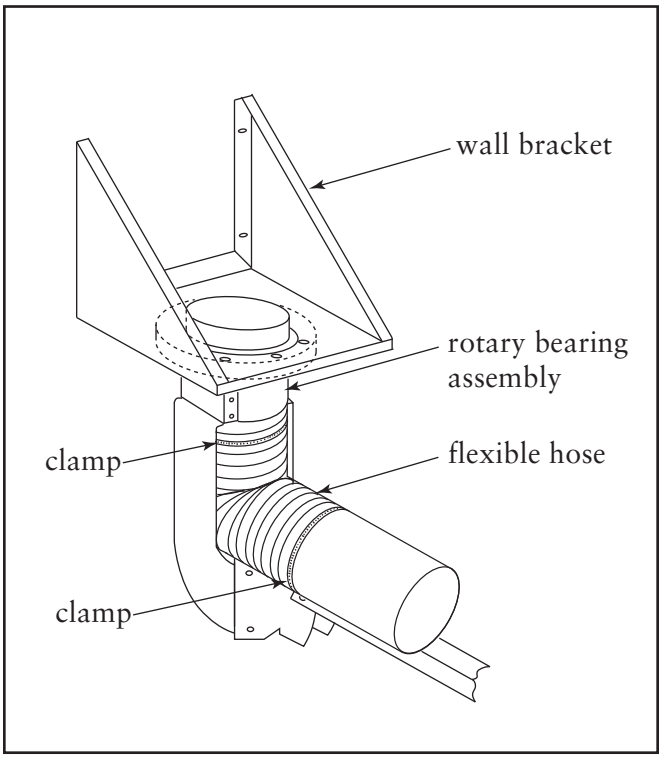
- Failure to ground the arm properly can result in electrical shock.
- Install a proper ground.



Bracket Installation



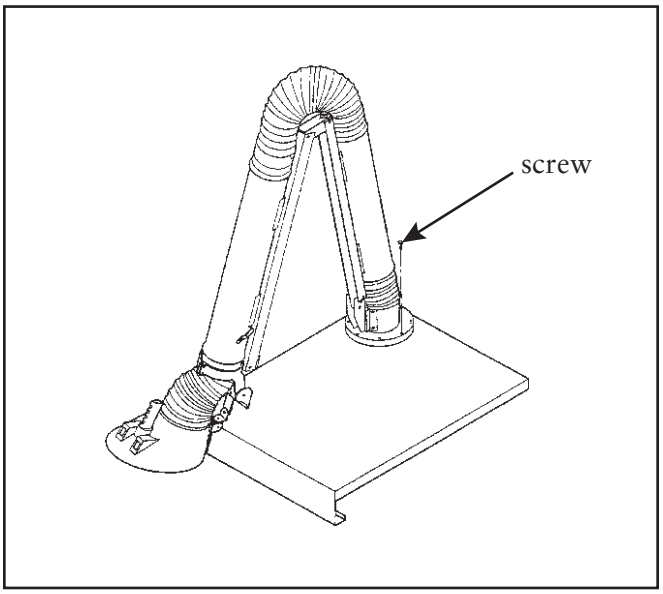
Rotary Bearing to Wall Bracket Assembly



Hose to Bracket and Rotary Bearing Assembly

Bench Mount

1. Fasten the extraction arm to the collector using the screws provided. See Bench Mount Assembly.
2. Review the bolt pattern for 6-in OD Flex-Trunk Plus and for the 4- and 7-in OD Flex-Trunk Plus. Fasten the arm to the unit. On arms with a four-bolt bolt pattern, use the adapter ring supplied and fasten the arm to the adapter ring.
3. If arm is equipped with a light, switch, grill, and cable assembly push the cable through the electrical cover to the control box.

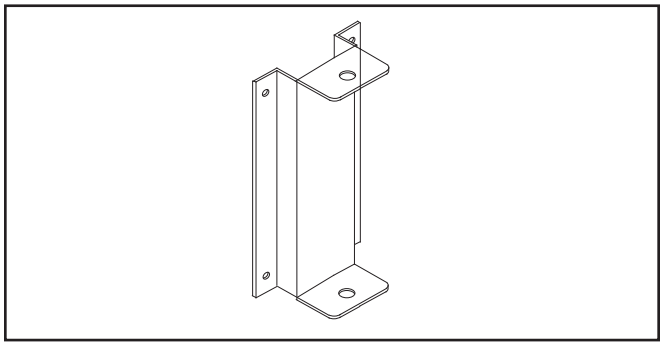


Bench Mount Assembly

Extension Boom

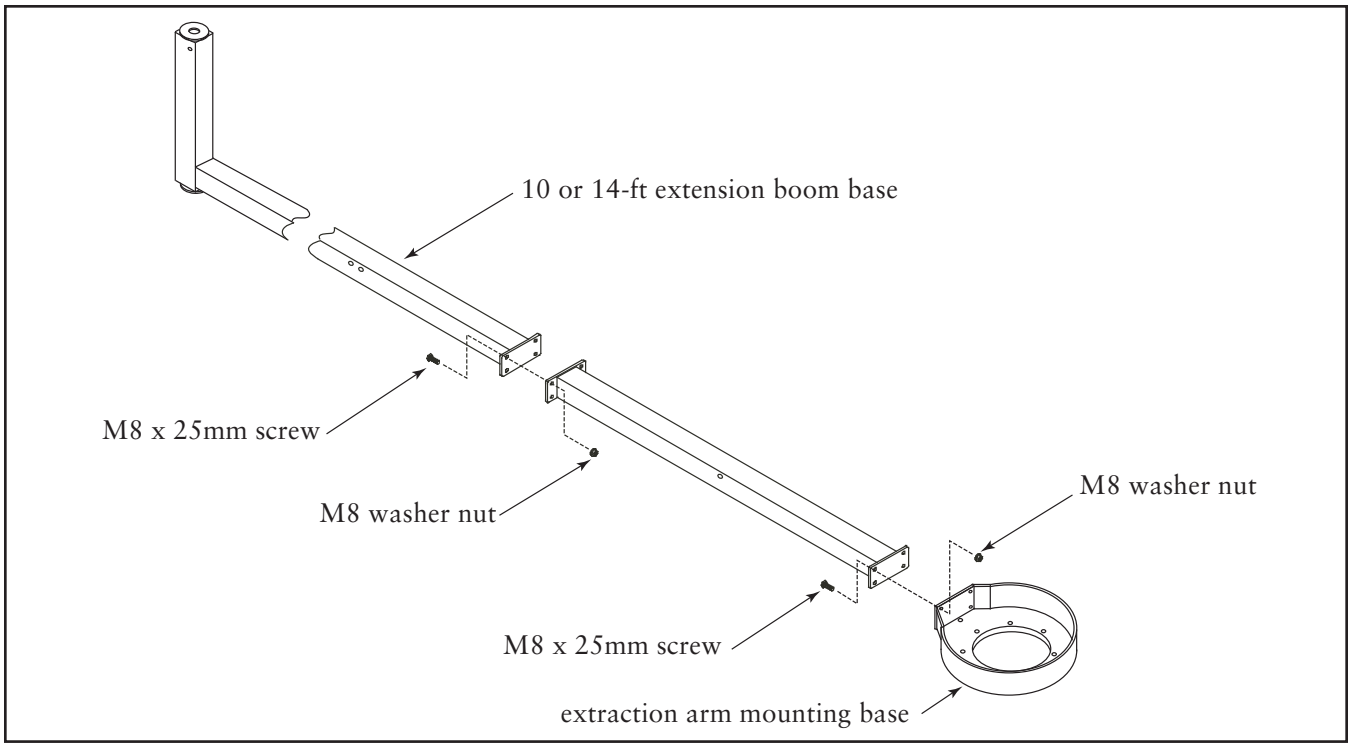
The modular extension boom increases the range of action of the extraction arms.

1. Install the wall bracket to the wall, level with the floor. Fasten using suitable customer-supplied bolts. See Extension Boom Wall Bracket.

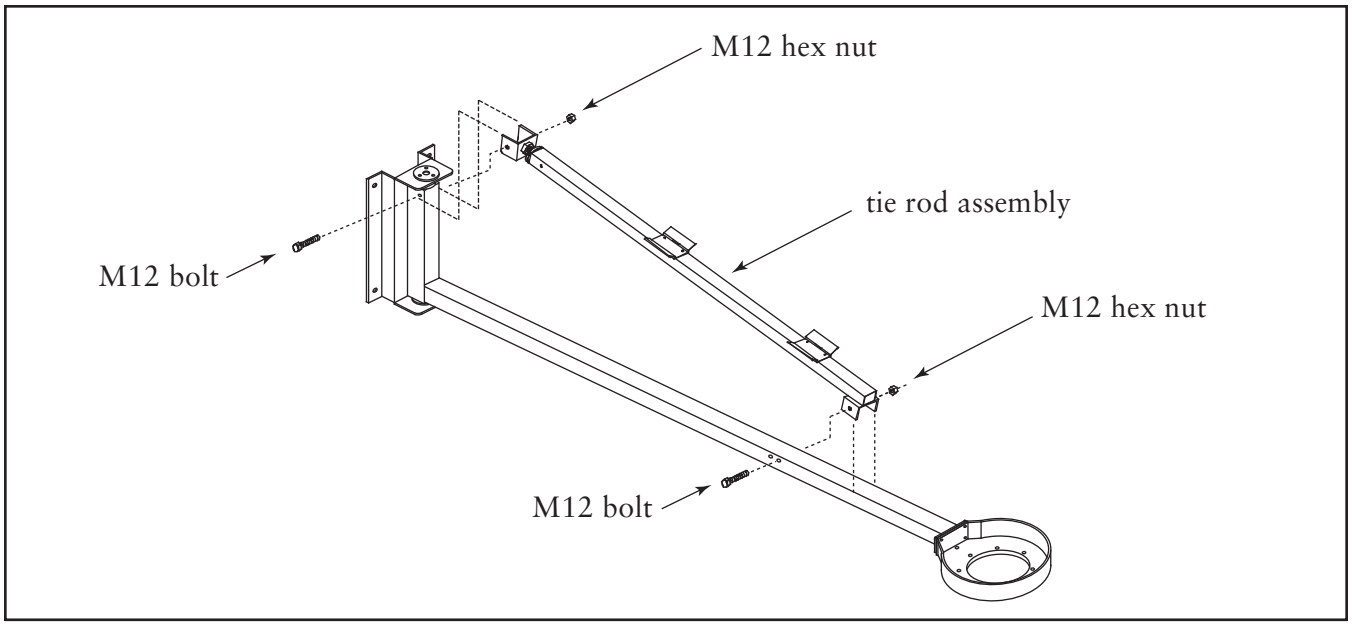


Extension Boom Wall Bracket

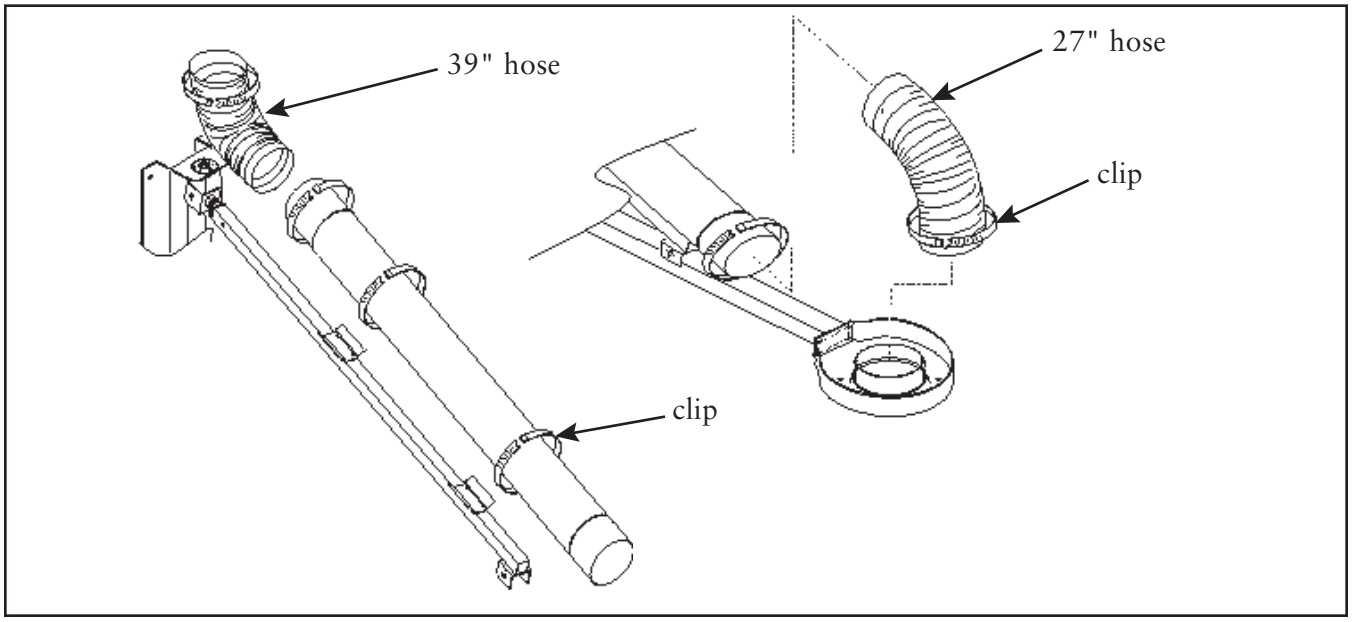
2. Assemble the extension boom base and bottom using the hardware supplied. See Extension Boom Assembly.
3. Position the assembled extension boom in the wall bracket and fasten as shown.
4. Fasten one end of the tie rod to the wall bracket and the other end to the extension boom using the hardware supplied. Check that the extension boom is level to the floor. See Tie-Rod Connection.
5. Fasten the galvanized duct to the tie-rod with the clips provided. See Duct Installation.
6. Connect the 39-in rear hose to the galvanized duct.
7. Attach the wheel sleeve to the extension arm bottom using the supplied hardware as shown. See Wheel Sleeve Installation.
8. Complete the extension boom installation by connecting the 27-in front hose as shown in Duct Installation.
9. If the extraction arm is equipped with a light ground the arm by connecting the points of contact using copper-strand wire with a suitable cross-sectional area. Attach to the equipment to ensure electrical continuity.



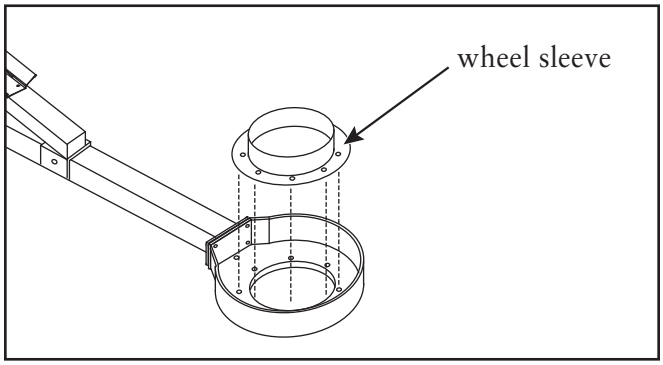
Extension Boom Assembly



Tie-Rod Connection



Duct Installation



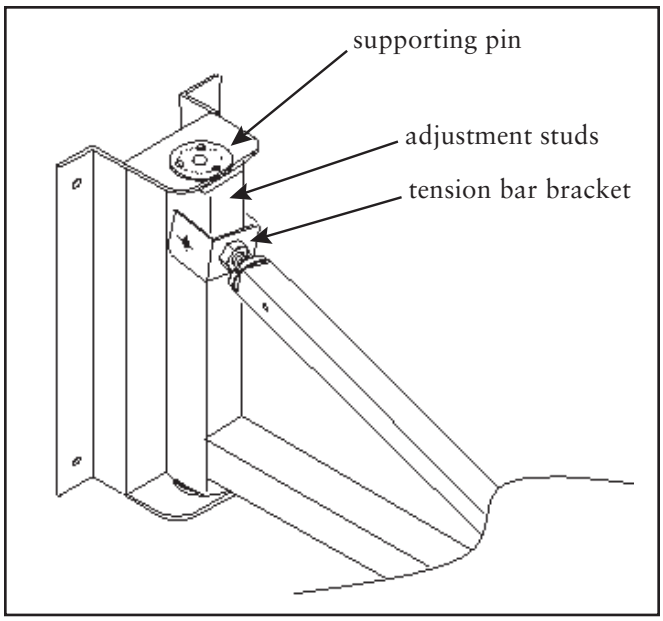
Wheel Sleeve Installation

Extension Boom Adjustment

To increase or decrease the pressure of the supporting pin on the base, calibrate the extension boom using the adjustment studs and a size 6 Allen wrench. See Extension Boom Adjustment.

Maintenance

1. Check tension bar bracket and supporting pin pressure once a month. Adjust as shown in Extension Boom Adjustment.
2. Check hose and duct conditions monthly.



Extension Boom Adjustment

Arm Adjustment

Hood Adjustment

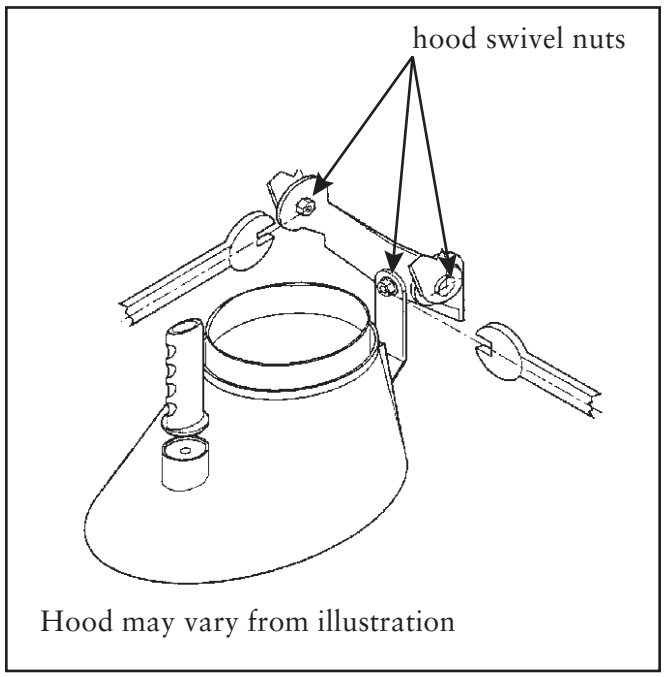
Adjust the friction on the three hood swivel nuts as shown in Hood Adjustment. ***Do not*** over tighten.

Initial Joint Adjustment

Each extraction arm has two adjustment points. The upper joint is protected with a spring protection cover, and the lower joint is covered with a plastic plug.

Upper Joint

1. Position the extraction arm in the closed position as shown in Joint Adjustment.

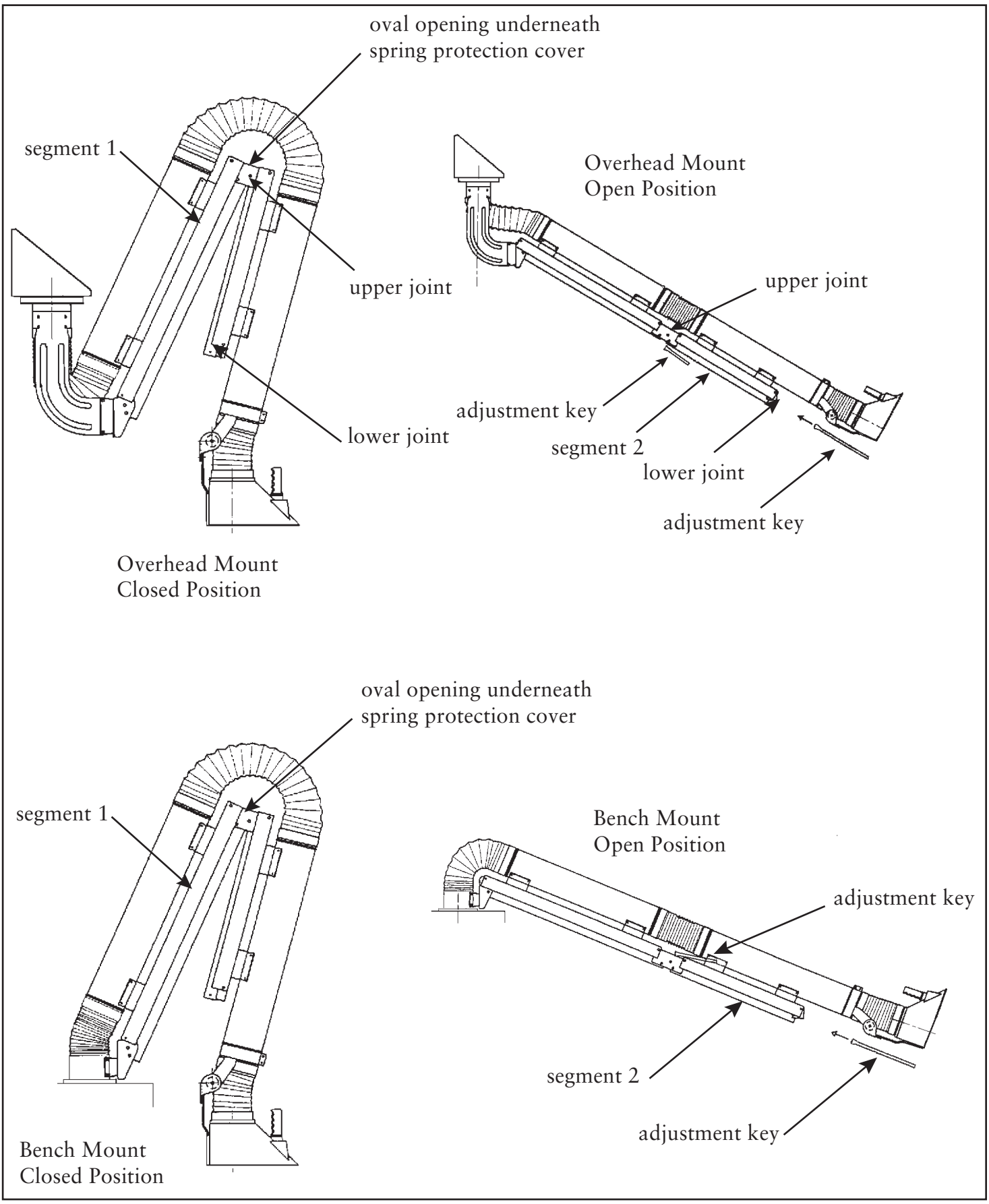


Hood Adjustment

2. Shift the connecting hose between the two arm segments to access the spring protection cover. Remove the cover using a flat screwdriver.
3. Use the adjustment key or a deep-well 17 mm socket with extensions to adjust the tension. Clockwise adjustment increased the amount of force the operator must use to extend the arm, but decrease the effort required to retract the arm. Counterclockwise adjustment increases the amount of force the operator must use to retract the arm and decrease the effort required to extend the arm.

Lower Joint

4. Position the extraction arm in the open position as shown in Joint Adjustment.
5. Remove the plastic plug from the lower joint.
6. Use the adjustment key or a deep-well 17mm socket with extensions to adjust the tension. Clockwise adjustment increased the amount of force the operator must use to extend the arm, but decrease the effort required to retract the arm. Counterclockwise adjustment increases the amount of force the operator must use to retract the arm, but will decrease the effort required to extend the arm.



Joint Adjustment

Power Pack Assembly

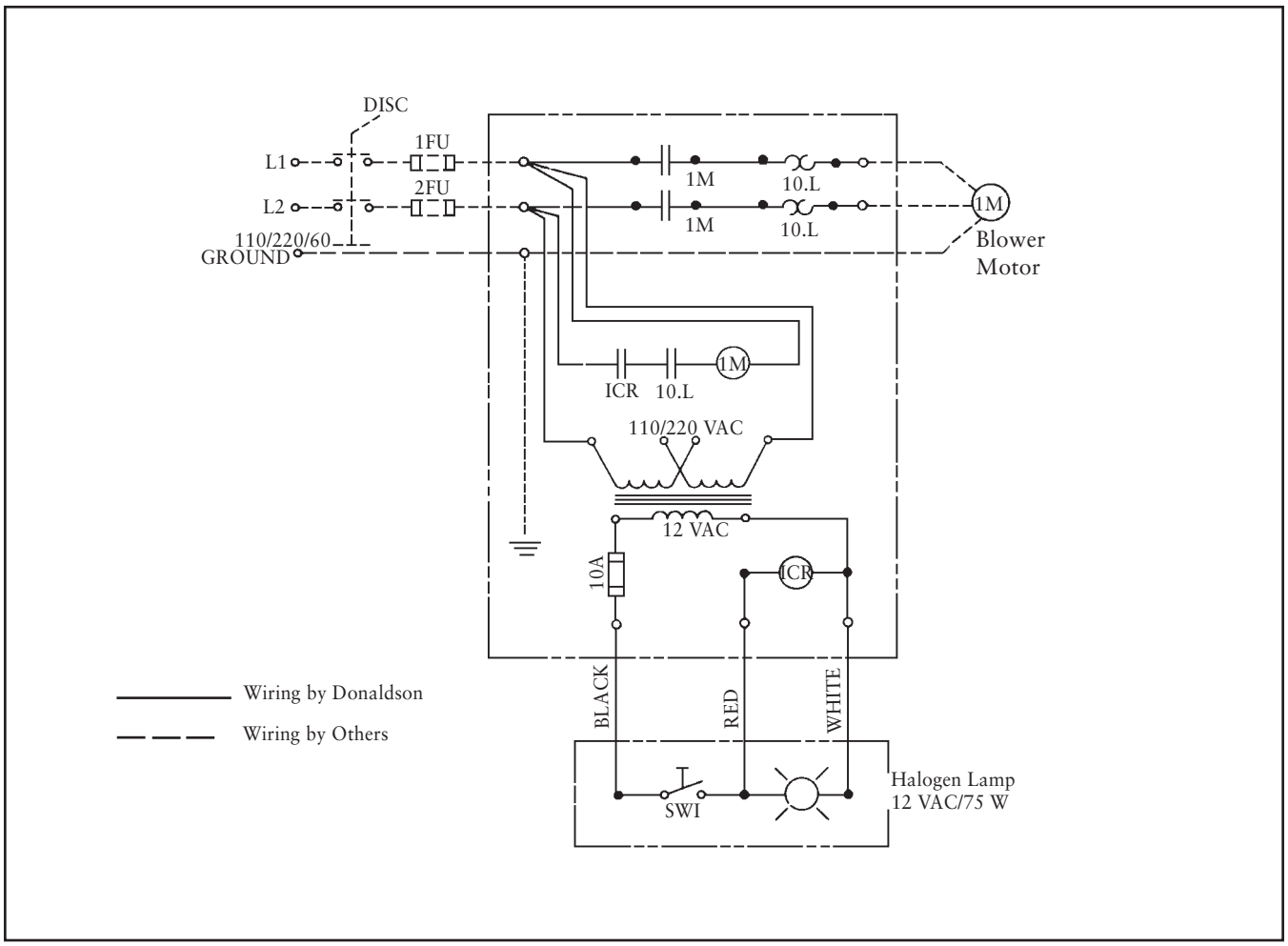
1. Place the power pack adapter on the wall bracket.
2. Position the power pack adapter ring on the opposite side of the wall bracket.
3. Align the bolt patterns of the power pack adapter and the wall bracket to the adapter ring weld nuts and secure using four 5/16-18 x 1-in bolts.
4. Position the blower housing on the top of the power pack adapter using four 5/16-18 x 1-in bolts, lock washers, and hex nuts.
5. Apply sealant onto the blower housing's motor mount surface.
6. Attach the motor mount plate to the motor and fasten using four 3/8-16 x 3/4-in bolts and lock washers. Torque to 20 ft/lbs.
7. Position the blower wheel on the motor shaft
8. Position the blower wheel so there is 1/16-in clearance between the blower wheel and the blower inlet ring located inside the blower housing.
9. Insert the key into the blower wheel and motorshaft key slot. Tighten the two setscrews to secure the blower wheel to the motor shaft.
10. Install the motor, blower wheel, and motor mount plate assembly on the blower housing by aligning the bolt patterns. Fasten using eight, 1/4-20 x 3/4-in screws.

Electrical Connection

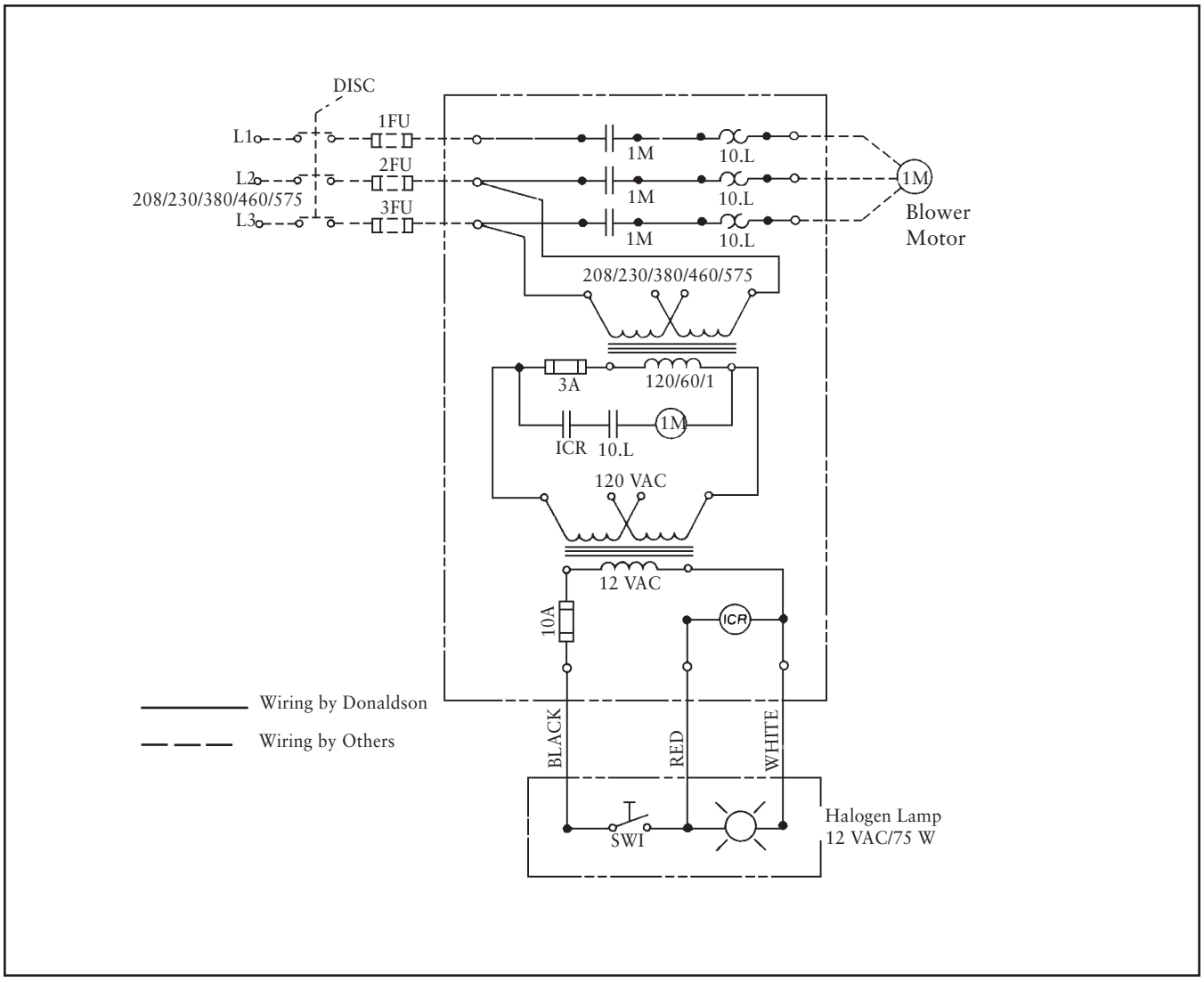
Caution!

- Electrical installation must be performed by a qualified electrician and comply with all applicable national and local codes.
- Lock out electrical power sources before performing service or maintenance work.
- Do not install in classified hazardous atmospheres without an enclosure rated for the application.

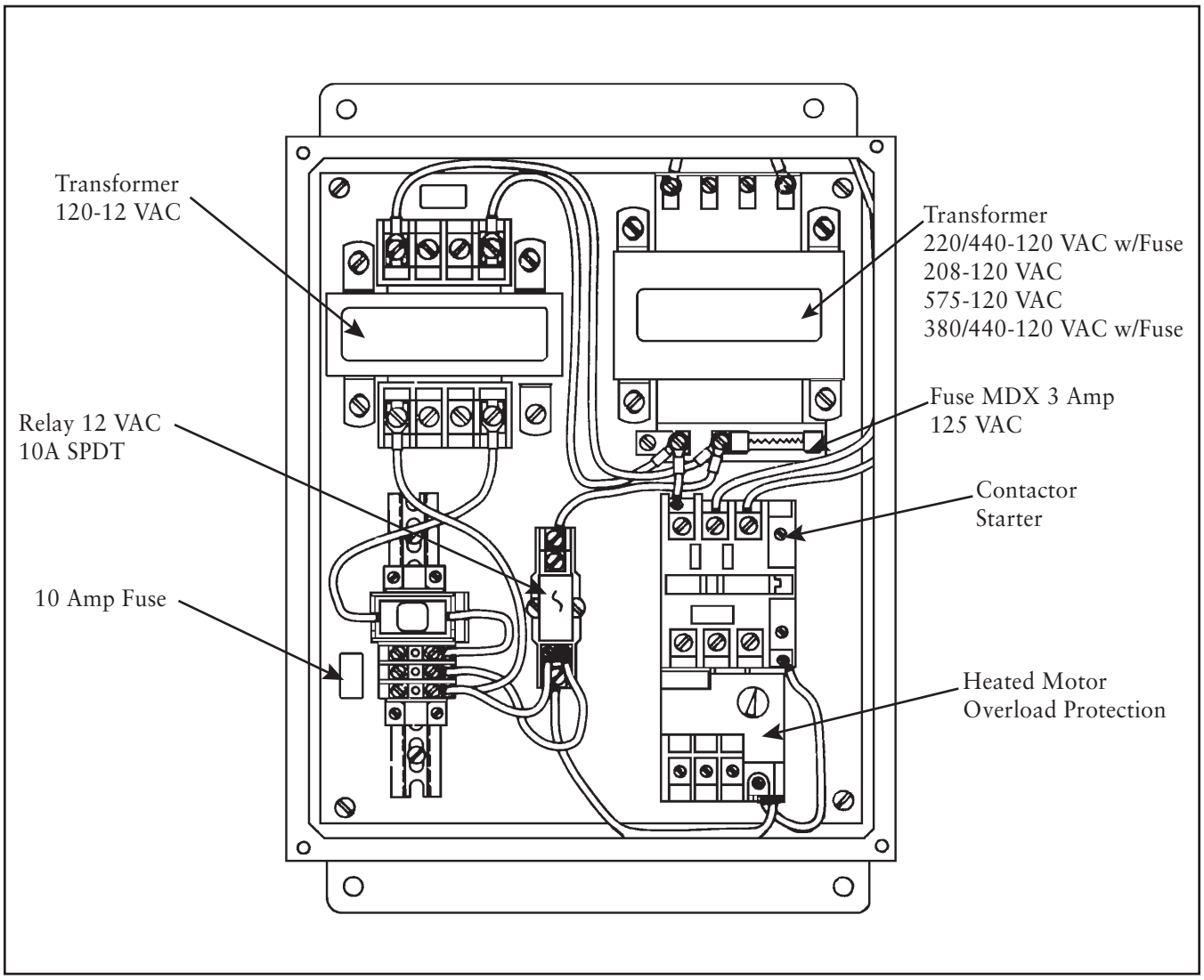
1. A fused-disconnect with fuses and electrical connections of adequate capacity are customer supplied.
2. Mount the control box in a convenient location.
3. Install conduit and wire from the power source to the extraction arm.
4. Use the wiring diagram in this manual or inside the electrical control box to make the wiring connections to the blower motor and the light and switch cable.
5. In grounded systems, neutral to control box must be connected to L2 in the electrical control box. See Single Phase Wiring, Three-Phase Wiring, and Control Box Component Layout.



Single Phase Wiring Diagram



Three Phase Wiring Diagram



Control Box Assembly

Optional Equipment

Optional Light

The optional 12-Volt AC, 65-Watt halogen light is located in the extraction arm hood and controlled by a switch located in the hood handle. The switch can also control the blower circuit through a 12-Volt AC relay. The relay energizes the 120-Volt AC fan starter relay coil located in the electrical control box assembly.

Preliminary Start-Up Check

1. Check all electrical connections for tightness and contact.
2. Check for and remove all loose items in or near the inlet and outlet of the unit.
3. Check that all remote controls are wired into the control system, and all service switches are in the OFF position.
4. Check that all optional accessories are installed properly and secured.
5. Turn power ON at source.
6. Turn the fan motor ON then OFF to check for proper rotation by referencing the rotation arrow located on the motor's mounting plate.

Important!

Do not look into fan outlet to determine rotation.

7. Check that the exhaust plenum is free of tools or debris before checking blower/fan rotation.
8. Stand clear of exhaust to avoid personal injury.

   To reverse rotation, single-phase power supply: Follow manufacturer's instructions on the motor's nameplate.

   To reverse rotation, three-phase power supply: Turn electrical power OFF at source and switch any two leads on the output-side of the fan-motor starter.

Service Information

Monthly Maintenance Check

1. Check the arm tension.
2. Check the flexible duct condition.
3. Check the joint and friction pad for wear.
4. Check the bearing and pivot for wear.
5. Check the damper and damper handle for wear.

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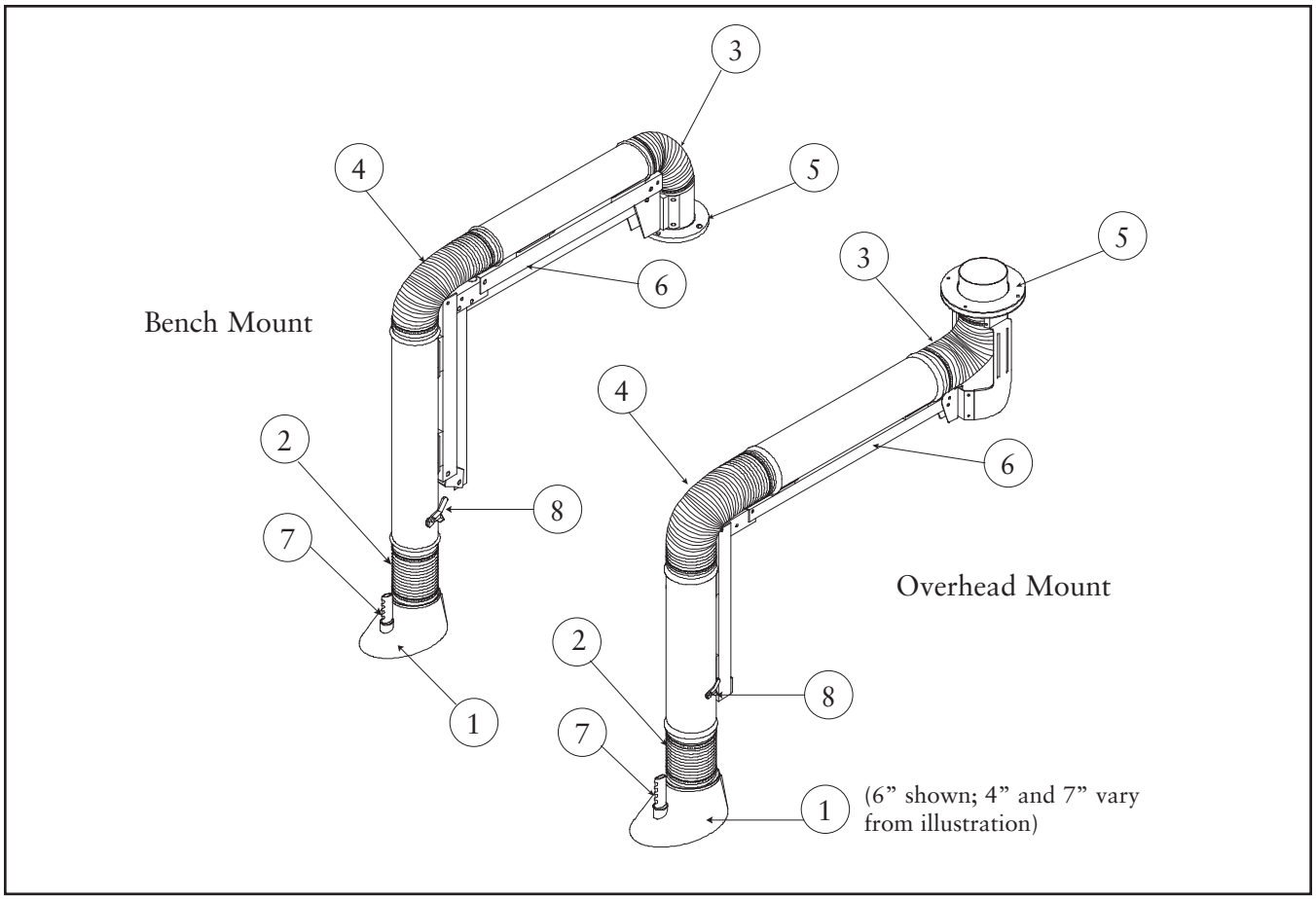
Replacement Parts



Parts Drawing 1, Extraction Arms

Item	Part Number	Description	Model
Bench Mount 4-in OD, 7-ft and 10-ft			
1	8P P7537301	Hood without Handle Aluminum	All
2	8PP 7537304	Flexible Hose, 4-in OD x 25.6-in	All
3	8PP 7537302	Flexible Hose 4-in OD x 15.75-in	All
4	8PP 7537305	Flexible Hose 4-in OD x 32.68-in	All
5	8PP 7537303	Rotary Bearing	All
6	8PP 7537306	Articulated Support 4-in OD x 7-ft	7-ft
6	8PP 7537307	Articulated Support 4-in OD x 10-ft	10-ft
7	8PP 7537308	Black Handle 4-in, 7-in	All
8	8PP 7537325	Damper Assembly 4-in	All
9	6MM 7556601	Collar, 4-in OD, Not Shown	All

Item	Part Number	Description	Model
Bench Mount 6-in OD, 10-ft and 14-ft			
1	8PP 7537309	Hood without Handle, 6-in OD Plastic	All
2	8PP 7537312	Flexible Hose, 6-in OD x 25.6-in	All
3	8PP 7537313	Flexible Hose, 6-in OD x 15.75-in	All
4	8PP 7537310	Flexible Hose, 6-in OD x 32.68-in	All
5	8PP 7537311	Rotary Bearing, Bench Mount	All
6	8PP 7537314	Articulated Support, 6-in OD x 10-ft	10-ft
6	8PP 7537315	Articulated Support, 6-in OD x 14-ft	14-ft
7	8PP 7537316	Hood Handle	All
8	8PP 7537326	Damper Assembly, 6-in	All
9	8PP 7537336	Light and Switch Kit, Not Shown	All
10	8PP 7537337	Adapter Ring, Not Shown	All
11	8PP 7537335	Switch, Not Shown	All
12	8PP 2738200	Halogen Lamp, Not Shown	All
13	8PP 7543701	Grommet, Not Shown	All
Overhead-Mount 6-in OD, 10-ft and 14-ft			
1	8PP 7537309	Hood without Handle, 6-in OD Plastic	All
2	8PP 7537312	Flexible Hose, 6-in OD x 25.6-in	All
3	8PP 7537313	Flexible Hose, 6-in OD x 15.75-in	All
4	8PP 7537310	Flexible Hose, 6-in OD x 32.68-in	All
5	8PP 7543801	Bracket and Rotary Bearing, Overhead Mount	All
6	8PP 7537314	Articulated Support, 6-in OD x 10-ft	10-ft
6	8PP 7537315	Articulated Support, 6-in OD x 14-ft	14-ft
7	8PP 7537316	Hood Handle	All
8	8PP 7537326	Damper Assembly, 6-in	All
9	2SG 7537336	Light and Switch Kit, Not Shown	All
9	3EA 7556701	Assembly Grill without Light, Not Shown	All
10	8PP 7537337	Adapter Ring, Not Shown	All
11	8PP 7537335	Switch, Not Shown	All
12	8PP 2738200	Halogen Lamp, Not Shown	All
13	6MM 4053701	Wall Mount Bracket, Not Shown	All

Parts Drawing 1, Continued

Item	Parts Number	Description	Model
Overhead-Mount 7-in OD, 10-ft and 14-ft			
1	8PP 7537317	Hood without Handle, 7-in OD Aluminum	All
2	8PP 7537320	Flexible Hose, 7-in OD x 17.7-in	All
3	8PP 7537321	Flexible Hose, 7-in OD x 25.6-in	All
4	8PP 7537318	Flexible Hose, 7-in OD x 32.68-in	All
5	8PP 7543901	Bracket and Rotary Bearing, 7-in OD	All
6	8PP 7537322	Articulated Support, 7-in OD x 10-ft	10-ft
6	8PP 7537323	Articulated Support, 7-in OD x 14-ft	14-ft
7	8PP 7537308	Black Handle, 4-in, 7-in	All
8	8PP 7537327	Damper Assembly, 7-in	All
9	6MM 7556603	Collar, 7-in OD, Not Shown.	All
	8PP 7560001	Adjustable Key, Not Shown	All

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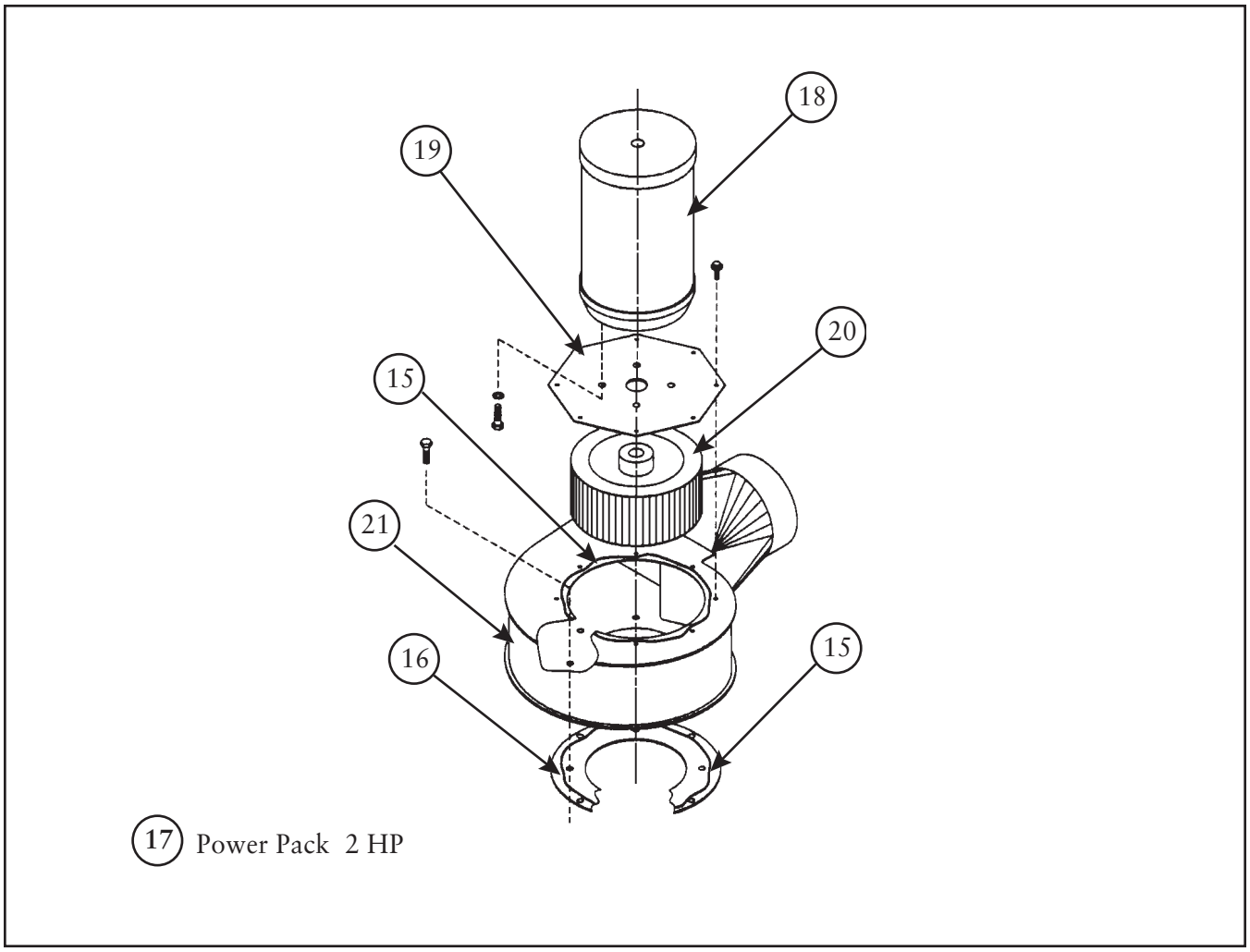
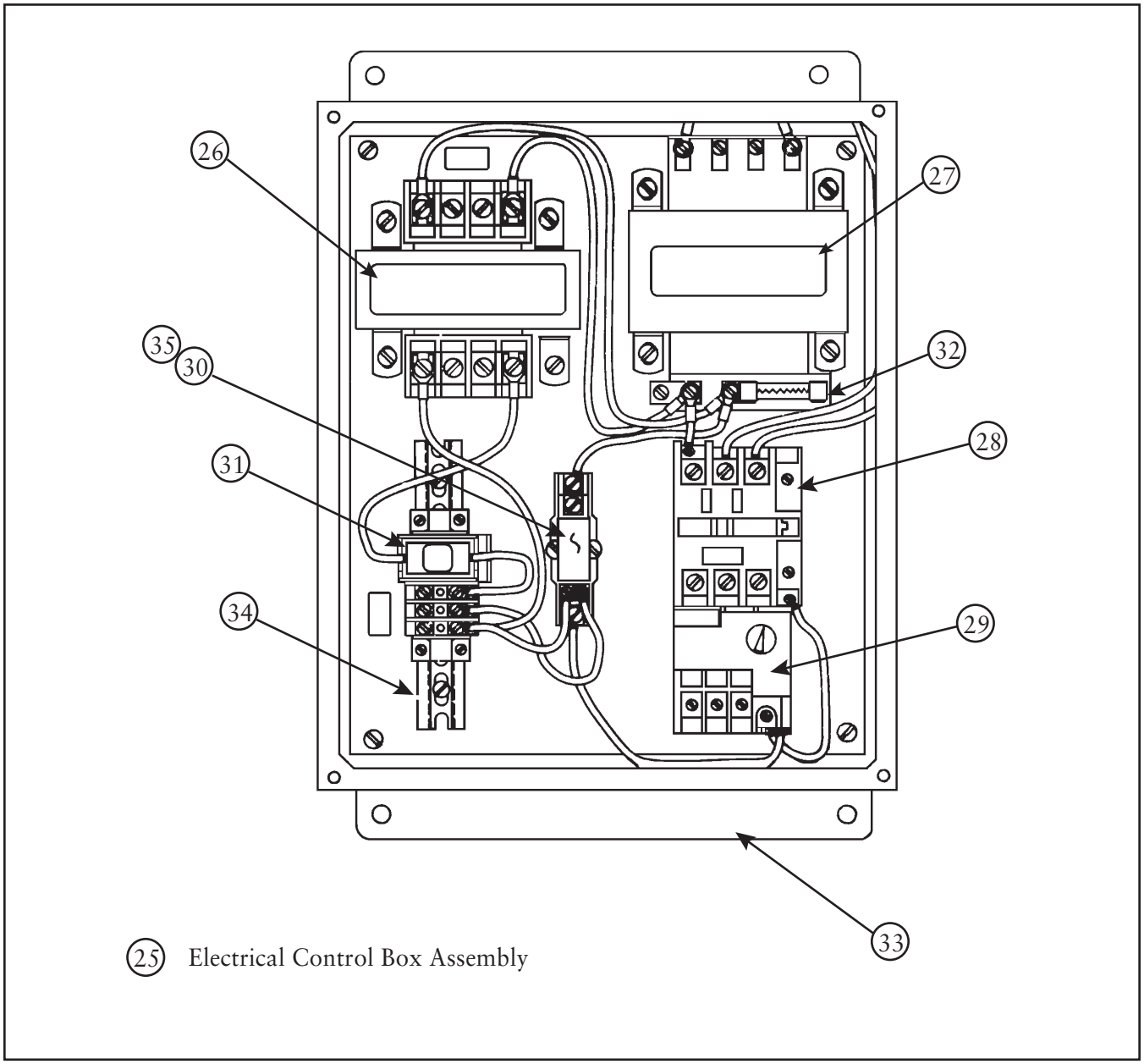


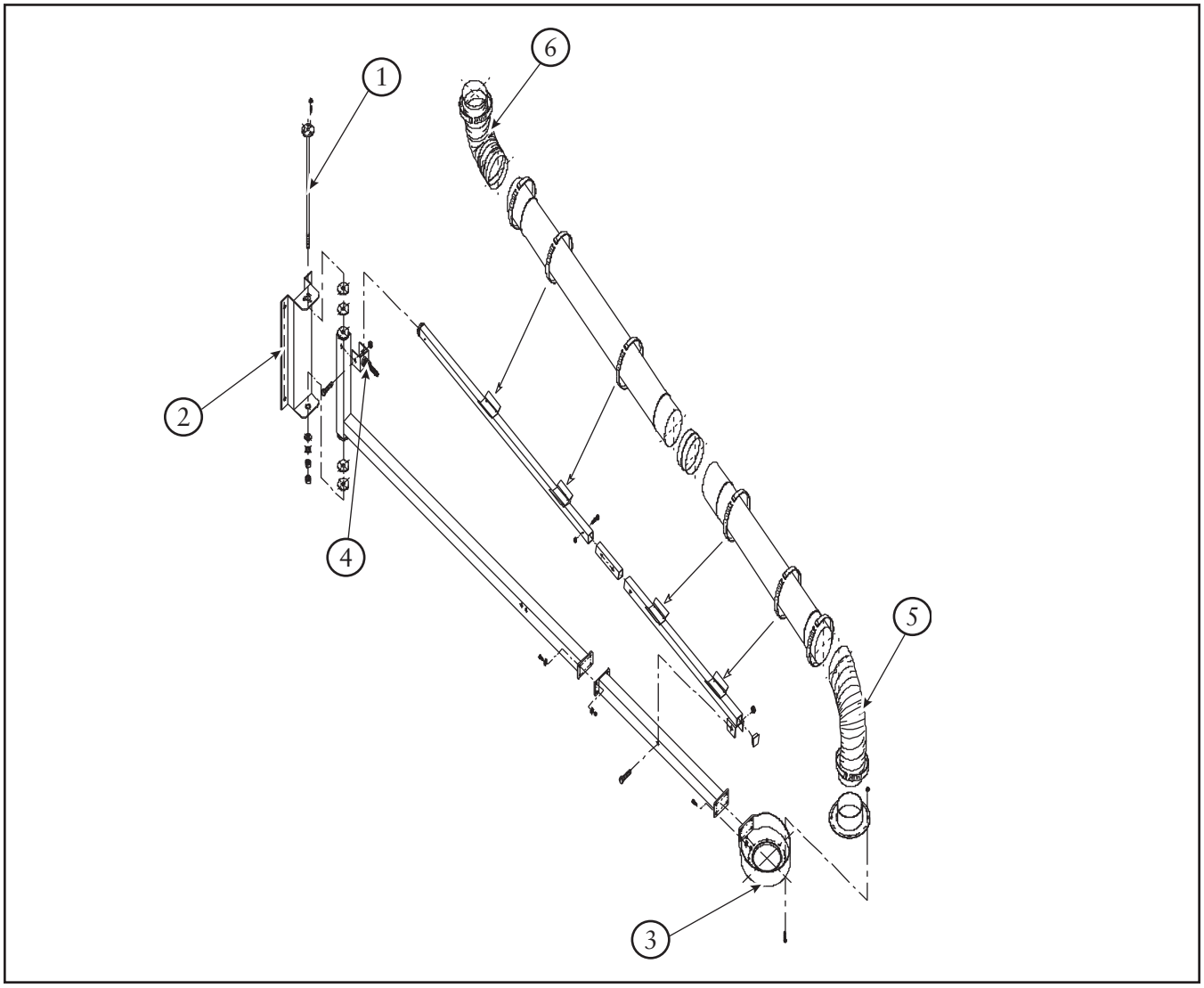
Parts Drawing 2, Power Pack Assembly for 6" O.D. Arms (10', 14')

Item	Part Number	Description	Model
15	8PP 0509700	1/4-in Diameter Rope-Type Sealant	All
16	6MM 3237800	Collar Ring Mount Adapter	All
17	2SG 7537331	Power Pack, 2 Hp, 60 Hz, Steel Wheel and Housing, motor not included	All
17	2SG 7537332	Power Pack, 2 Hp, 60 Hz, Aluminum Wheel, Steel Housing, motor not included	All
17	2SG 7537333	Power Pack, 2 Hp, 50 Hz, Steel Wheel and Housing, motor not included	All
17	2SG 7537334	Power Pack, 2 Hp, 50 Hz, Aluminum Wheel, Steel Housing, motor not included	All
18	8PP 0167700	Motor, 2 Hp, TEFC, 3450, 208-230/460/60/3, 2HPVT, 145TC Frame, 7/8 Shaft	All
18	8PP 0168000	Motor, 2 Hp, TEFC, 3450, 575/60/3, 2HPVT, 145TC Frame, 7/8 Shaft	All
18	8PP 2070200	Motor, 2 Hp, TEFC, 3450, 115/208-230/60/1, 2HPVT, 145TC Frame, 7/8 Shaft	All
18	8PP 2407900	Motor, 2 Hp, TEFC, 2850, 380/50/3, 2HPVT, 145TC Frame, 7/8 Shaft	All
18	8PP 0167800	Motor, 2 Hp, EP, 3450, 230/460/60/3, 2HPVE, 145TC Frame, 7/8 Shaft	All
18	8PP 4489800	Motor, 2 Hp, EP, 2850, 220/380/440/50/3, 2HPVE, 145TC Frame, 7/8 Shaft	All
19	6MM 1066400	Motor Mount Plate	All
20	8PP 1034300	Blower Wheel, Steel, 60 Hz, 7/8-in Bore	All
20	8PP 1486000	Blower Wheel, Aluminum, 60 Hz, 7/8-in Bore	All
21	4MA 2762600	Blower Housing	All



Parts Drawing 3, Control Box for 6" O.D. Arms (10', 14')

Item	Part Number	Description	Model
25	3EA 2764001	Control Box, 110-Volt, Single Phase	60 Hz
25	3EA 2764002	Control Box, 220-Volt, Single Phase	60 Hz
25	3EA 2764003	Control Box, 208-Volt, Three Phase	60 Hz
25	3EA 2764004	Control Box, 230-Volt, Three Phase	60 Hz
25	3EA 2764005	Control Box, 460-Volt, Three Phase	60 Hz
25	3EA 2764006	Control Box, 575-Volt, Three Phase	60 Hz
25	3EA 2764007	Control Box, 380-Volt, Three Phase	50 Hz
26	8PP 2757300	Transformer, 120 to 12-Volt, 50/60 Hz	All
27	8PP 2728600	Transformer, 208 to 120-Volt, 50/60 Hz	All
27	8PP 2444400	Transformer, 230/460 to 120-Volt, 50/60 Hz	All
27	8PP 2713000	Transformer, 575 to 120-Volt, 50/60 Hz	All
27	8PP 4053800	Transformer, 380 to 110-Volt, 50 Hz	50 Hz
28	8PP 2757200	Starter Contactor	All
29	8PP 2764201	Motor Overload Heater, 110-Volt, Single Phase	All
29	8PP 2764202	Motor Overload Heater, 220-Volt, Single Phase	All
29	8PP 2764203	Motor Overload Heater, 208/380-Volt, Three Phase	All
29	8PP 2764204	Motor Overload Heater, 460-Volt, Three Phase	All
29	8PP 2764205	Motor Overload Heater, 575-Volt, Three Phase	All
30	8PP 2757400	Relay Socket, 300-V, 10A	All
31	8PP 2673903	Fusetron® Dual Element 10 Amp Fuse, FNM 10	All
32	8PP 2122400	MDX-3, 3 Amp Slo-Blow Fuse, 125-Volt AC	All
33	8PP 1850500	Enclosure, NEMA 4	All
34	8PP 4264400	Fuse Block Assembly	All
35	8PP 2757000	Relay, 12-Volt AC, 10 Amp, SPDT	All



Parts Drawing 4, Extension Boom

Item	Part Number	Description	Model
Extension Boom, 6-in; 10 and 14-ft			
1	8PP 7557701	Support Pin	All
2	8PP 7557702	Wall Support Bracket	All
3	8PP 7557703	Bottom Adapter	All
4	8PP 7557704	Tension Bar Bracket	
5	8PP 7557705	Flex Hose, 6-in OD x 27-in	All
6	8PP 7557706	Flex Hose, 6-in OD x 39-in	All
Extension Boom, 7-in; 10 and 14-ft			
1	8PP 7557701	Support Pin	All
2	8PP 7557702	Wall Support Bracket	All
3	8PP 7557707	Bottom Adapter	All
4	8PP 7557704	Tension Bar Bracket	All
5	8PP 7557708	Flex Hose, 7-in OD x 27-in	All
6	8PP 7557709	Flex Hose, 7-in OD x 39-in	All

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Limited Warranty

Donaldson® warrants to the original purchaser that the major structural components of the goods will be free from defects in materials and workmanship for ten (10) years from the date of shipment, if properly installed, maintained and operated under normal conditions. Donaldson warrants all other Donaldson built components and accessories including Donaldson Airlocks, TBI Fans, TRB Fans, Fume Collector products and Donaldson built Afterfilter housings for twelve (12) months from date of shipment. Donaldson warrants Donaldson built filter elements to be free from defects in materials and workmanship for eighteen (18) months from date of shipment. Donaldson does not warrant against damages due to corrosion, abrasion, normal wear and tear, product modification, or product misapplication. Donaldson also makes no warranty whatsoever as to any goods manufactured or supplied by others including electric motors, fans and control components. After Donaldson has been given adequate opportunity to remedy any defects in material or workmanship, Donaldson retains the sole option to accept return of the goods, with freight paid by the purchaser, and to refund the purchase price for the goods after confirming the goods are returned undamaged and in usable condition. Such a refund will be in the full extent of Donaldson's liability. Donaldson shall not be liable for any other costs, expenses or damages whether direct, indirect, special, incidental, consequential or otherwise. The terms of this warranty may be modified only by a special warranty document signed by a Director, General Manager or Vice President of Donaldson. Failure to use genuine Donaldson replacement parts may void this warranty. **THERE EXIST NO OTHER REPRESENTATIONS, WARRANTIES OR GUARANTEES EXCEPT AS STATED IN THIS PARAGRAPH AND ALL OTHER WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHETHER EXPRESS OR IMPLIED ARE HEREBY EXPRESSLY EXCLUDED AND DISCLAIMED.**

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Donaldson Company, Inc. is the leading designer and manufacturer of dust, mist, and fume collection equipment used to control industrial air pollutants. Our equipment is designed to help reduce occupational hazard, lengthen machine life, reduce in-plant maintenance requirements, and improve product quality.

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