Model 250E Owner's Manual

Model 250E Owner's Manual:

Thank you for your purchase decision and trust in our products and services.

Index:

Safety/Caution

- Be Safe- Keep away from moving parts.

- Be Safe- Make sure all guards, and hopper extensions are in proper location before operating machine. Hands should never pass below top of main hopper.

- Be Safe- Do not move machine, remove motors, or other electrical components when unit is connected to power supply.

- Be Safe- Be sure auger motor, blower motor, and remote control hand pendant are in **off** position **before** connecting power supply to the machine.

- Be Safe- Be sure machine is properly grounded. Protect all electrical supply cords from sharp objects, moisture, and potentially hazardous materials. Keep power cords in good repair. Electrical service must be performed by qualified electrician.

- Be Safe- Disconnect power supply **before** inspecting or adjusting unit.

- Be Safe- Consult qualified technician to answer questions **before** attempting to operate, or injury may result.

- Be Safe- Wear an approved dust mask or respirator for operator safety, comfort and protection.

- Be Safe- Emergency Kill Switch- In case of emergencies, always use 'red' stop button located in center of main panel box. It will stop all feeding and agitation. Note: This action will **not interrupt power** to the panel box.

Make Sure!!!

- Hopper is empty of foreign objects before starting.
- Proper electrical power is supplied or damage to unit will result.
- Blower filter is kept clean and in place when blower is running.
- Blower is turned off immediately if hose is plugged, or blower will overheat.
- Blowers must be on when auger/airlock is running, or machine will bind.
- Auger/airlock motor is not running with hopper empty for more than a few minutes, or damage to seals will result.
- Sprockets, chains, are correctly **aligned** and **tensioned**.
- Pieces of bags are not left in machine as this can bind and stall machine.

Limited Warranty

Products and components are warranted to the original purchaser to be free of defects in material and workmanship and will operate as intended for a period of two (2) years from the date of purchase.

Important: All items must have a **Return Authorization Number** attached to item for in-house tracking purposes.

Buyer is responsible for all costs incurred in removal and reinstallation of the product and must **pre-pay** shipment to the factory. Returned item will be evaluated for warranty. If warranty is approved, the product will be replaced at no charge and returned standard ground shipping fees pre-paid. (Next day delivery and special expediting fees is responsibility of buyer.) **Note:** If **buyer** needs **immediate** replacement, **buyer** must purchase component and refund will be determined upon evaluation of returned part.

This limited warranty does **not** cover replacement of components or parts manufactured by others and become inoperative due to wear & usage and needs to be replaced on a regular basis. Including but not limited to: airlock seals, belts, chains, auger wipers, switches, fuses, fan blades, clutches, hoses, and filters.

Obligation under this warranty is limited to repairing or replacing any part that is determined by the company to be a manufacturing defect.

No warranty is made with respect to:

1. Components or accessories manufactured and warranted by others. Warranties for purchased components supplied by vendors such as: gas engines, electric motors, blowers, gearboxes, etc., are on file and provided upon request.
2. Defects caused by repair, alteration and/or adjustment performed by others.
3. Labor costs of repairing or replacing parts.
4. Any products not operated and/or maintained in accordance with normal industry practice and/or written recommendations of the company.
5. Products subjected to misuse, negligence, or results of applications not in accordance with company recommendations.

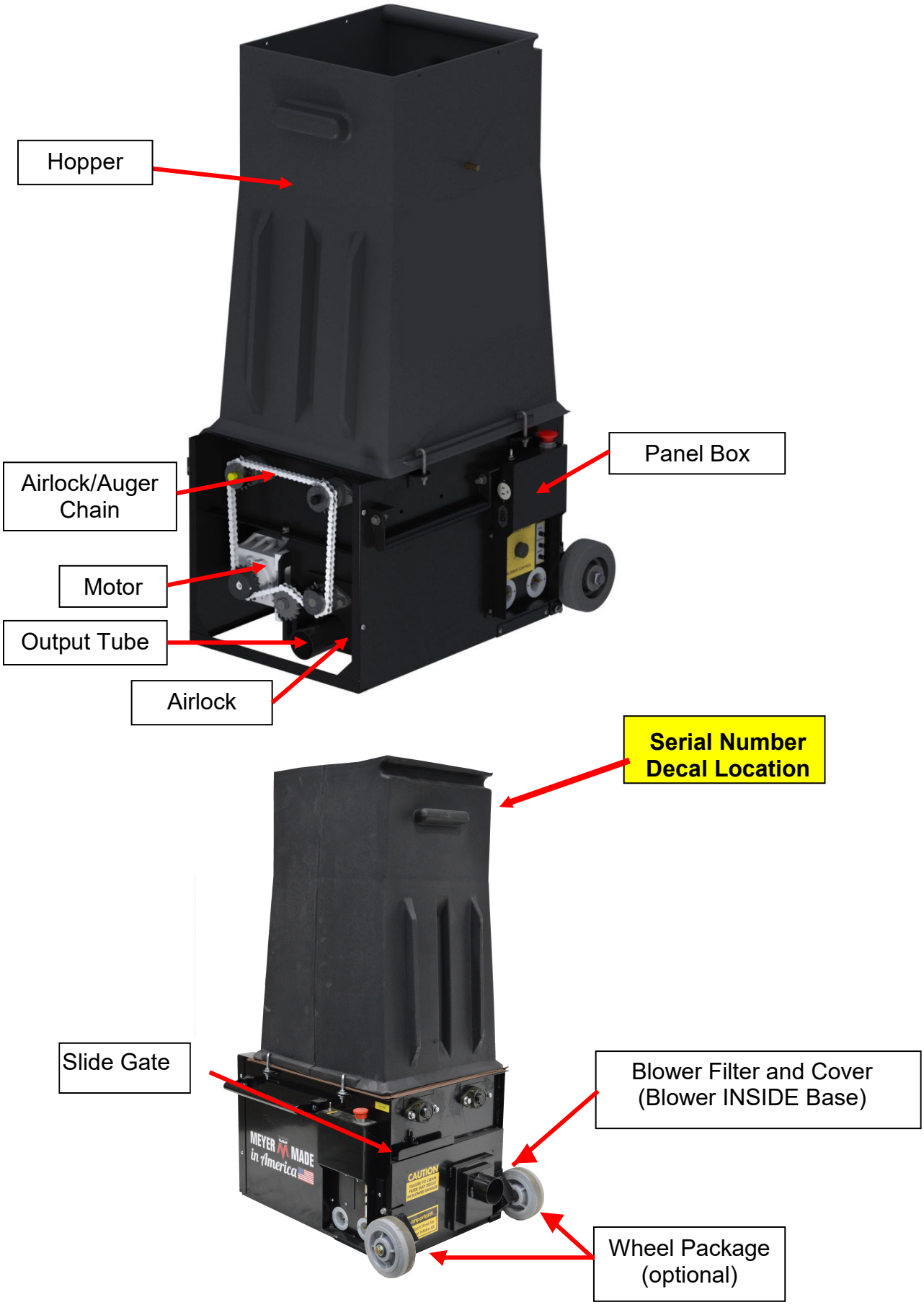
This warranty set forth above is exclusive and makes no other warranties with respect to description or quality of the product including, but without limitation, no warranties of merchantability or fitness for a particular purpose. This warranty set forth above does not extend to, nor is responsible for: incidental, consequential, special or indirect damages. Manufacturer shall not be liable for penalties or any liquidated damages.

Manufacturer shall not be liable for any injury or damage resulting from failure to follow and comply with the instructions that accompany the product.

This warranty is expressly in lieu of all other written or oral warranties.

Note: warranty statement replaces previous one (1) year warranty, effective rev. 03-09-15.

Quick Component Reference



Philosophy:

Never build, sell, or provide a service that is not good for our customer. High performance machines, placing the customer first, and exceeding expectations every day, with every customer, and with every machine produced, will assure an atmosphere for achieving our highest potential. Any duplication or use of this technology may be in violation of Manufacturer's rights.

This manual represents information regarding the latest and greatest machine technology used in all-fiber, all application, and machine technology. Manufacturer provides a system that offers the highest production and lowest power requirements. We provide a compact design and choice of materials that offers the highest durability, highest corrosion resistance, easiest maintenance, and simplest troubleshooting of any machine in its class.

Theory of Operation:

The Model 250E machine provides an exclusive proprietary technology, along with extreme portability. As the different fibers are loaded into the hopper, the proprietary 'scalping/shredder' augers located at the bottom of the hopper provide a live bottom for breaking and conditioning of the fibers. This feature provides a positive feeding, non-bridging, method of metering the fibers which has three important advantages. **First;** the 'scalping' action of the augers, provide a positive movement of the fibers to the shredder area while the helix configuration of the 4-blade shredder provides a highly conditioned fiber production rate. A positive feeding system will meter the fiber accurately to the airlock, no-matter what angle the machine is positioned on the job site. **Second;** this feature meters the fibers without fluctuations in feeding. Competitor's machines with vigorously turning agitators in the hopper cause progressive density changing of the fiber, along with the decreasing 'head' pressure of fiber over the shredder/airlock assembly; thus causing feed rate variations. This also creates an undue safety hazard for the operator. **Third;** the low profile position of these augers in relation to the higher hopper sides, and the moderate speed of the auger assembly make it virtually impossible for operator injury, while providing extended years of bearing and chain life.

The slide gate has a conveniently accessed slide plate (located below the panel box) with grip handle and 'adjustment pin' for setting fiber feed rate. This feature allows for quick adjustment to the desired setting. As the fiber is metered through the slide gate area, the 4-blade scalping shredder provides the ultimate in aggressive break-up, and blending of the different fibers. This feature maximizes the coverage and mixing of the fibers.

The fully expanded and conditioned fiber blend enters the high production airlock (Series 250 8" dia. x 10" long airlock) and is discharged into the high pressure air stream/hose provided by a single blower system.

The economical single blower system (Optional: with **variable** rpm blower) provides adequate air for most applications up to 150ft. A 5 kw generator, or larger can provide adequate power for both the machine and future upgrades mentioned below.

The efficient design of the maintenance access areas along with modular component design of the drive system, blower module and control panel offer a simple, fast method to repair your machine. Job-site down time is minimized.

The electrical control panel is designed with simple easy to access components, which provide the operator with an instant method to troubleshoot machine's electrical system. Control functions are simple and easy to understand. The manual thermal overloads provide a component that is easily re-set, reliable, and most importantly - safe.

The inherent versatility of this machine's design provides the core element for your future upgrade to retro-sidewall and dense packing applications. This machine is one of the basic building blocks that allow you to transition your business without costly equipment decisions.

Un-Packing and Set-up of Machine:

Machine Specifications:

Weight:
Series 250E: 180 lbs. (82 kg)

Airlock:
8" dia. x 10" long
(25.4cm diameter x 20.32cm)
2.5" (6.35cm) output for hose

Blower/ Sizes:
Standard: one - 8 amp blower (CE – 4.7amp)
Deluxe: one - 13 amp blower (CE – 7amp)

Dimensions (LxWxH):
28" x 22" x 58"
(71.12cm x 55.88cm x 147.32cm)

Power Requirements:
Standard: Single Input, 15 amp, 120 volt
(CE – Single Input, 8 amp, 230 volt)
Deluxe: Double Input, 15 amp, 120 volt
(CE – Single Input, 10 amp, 230 volt)

Generator:
4,000 watt or larger

Hopper Capacity:
7.25 ft^3 (0.21 m^3)

What should be enclosed with your standard machine?
The machine should have a 150 ft. (45.72m) remote cord included (Deluxe), inside the hopper which needs to be removed and placed on the handle/cord hanger, located on the control panel end of the machine. All other parts and accessories will be packaged separately and placed inside the hopper for shipping.

Available Options: Wheel Assemblies, Wireless remote, Internal Wetting System, along with a complete line of hoses, fittings, couplers and accessories. See accessory literature for additional offerings.

Moving and lifting machine:
An auxiliary lifting device may be needed to move this machine. The machine is designed with large flip-up handles for convenient lifting by two people after hopper has been removed. (One on each side of base unit). Caution: personnel with lifting restrictions should use mechanical lifting devices. The **wheel assembly** is recommended for frequent moving of the machine without mechanical assistance.

Locating machine in vehicle:
The machine is designed to be located on the driver's side, rear of the vehicle. The hook-up of blowing hose and controls are easily reached from the rear of vehicle while allowing for easy adjustments and control of the machine. This will also provide quick access to all service points on the machine.

Power Supply:
Depending on the size of the blower, the machine will require up to 35 amps 120 volt (16 amps 240 volt, overseas) single phase power supply. If generator is used, a 5kw (or larger) is recommended for ample power supply.
The machine is shipped with a short input cord, and connected to a male input plug. (Except overseas units). The matching female receptacle will need to be connected to the appropriately sized power cable supplied by the operator. (Consult a qualified electrician for proper wiring of this receptacle and recommendations on power cable size.)

Machine Set-up:
After securing the machine in vehicle and hook-up of power supply has been completed, the machine is ready for hook-up of blowing hose and remote control cord. Make sure all hose connections are securely fastened.

Operation and Controls:

Control panel:

The control panel enclosure contains the electrical components to select (on/off) operation of motors, control speed variations, and protect the circuitry of the main drive motor, blower and auxiliary devices. (If the machine does not function properly, disconnect power and check the manual thermal overload breakers on the front of the main panel box.) To start the machine, make sure the power supply (grid/shore power or generator) is appropriate (120 or 230/240 volts overseas), and power is turned 'on'. Check for correct voltage on panel meter (selected models), and all switches 'off' position.

Deluxe Control Panel:

'3-position' 'toggle' selector switch.

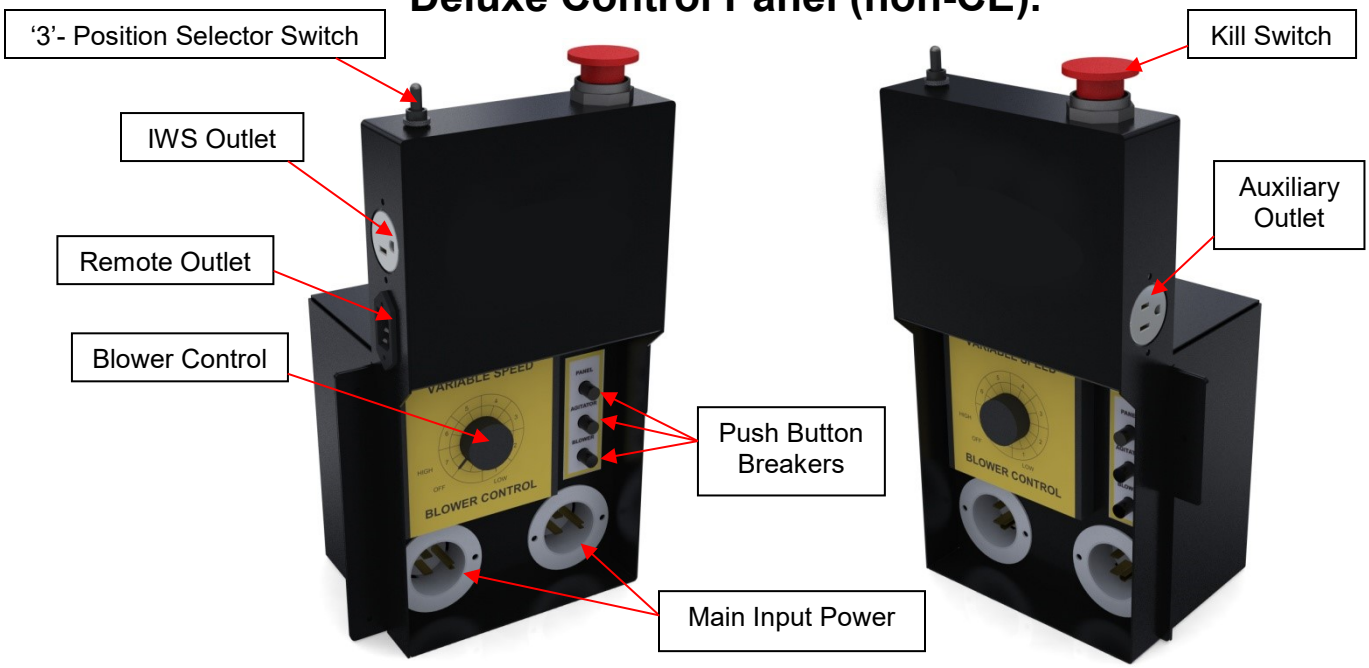
The control 'toggle' selector switch allows the operator to control the machine from the remote cord, (wireless remote), or manually at the machine.

- **Remote Control:** Turn switch to center 'OFF' position for remote cord control. Insert plug end of remote cord into the remote receptacle located to the right of toggle switch.
- **Manual Control at Machine:** Turn switch left to 'air' if operator selects blower only. (Used to un-plug clogged fiber hose or check airlock pressure). Turn switch to 'Feed', if operator selects **both** blower and fiber feeding mode. (Use this mode if operator has problem with remote device and desires on/off control at the machine.)

Kill Switch E-Stop Button: Located on the top left side of main panel box. Safety feature; allows for quick shut-off of machine in case of emergency.

Auxiliary Outlets (selected models): Located on the front main panel box the 120 (230 /240 volt overseas) 'auxiliary' outlet (lower receptacle) has a capacity of 10 /5 amps. The upper outlet labeled 'IWS' provides 120 (230/240 volt overseas), 2 amp power to turn the internal wetting system on/off with the airlock fiber feeding of the machine. (Note: if amperage load in excess of two amps is used on 'IWS' outlet, the "panel" thermal breaker will trip on the front of the panel box.)

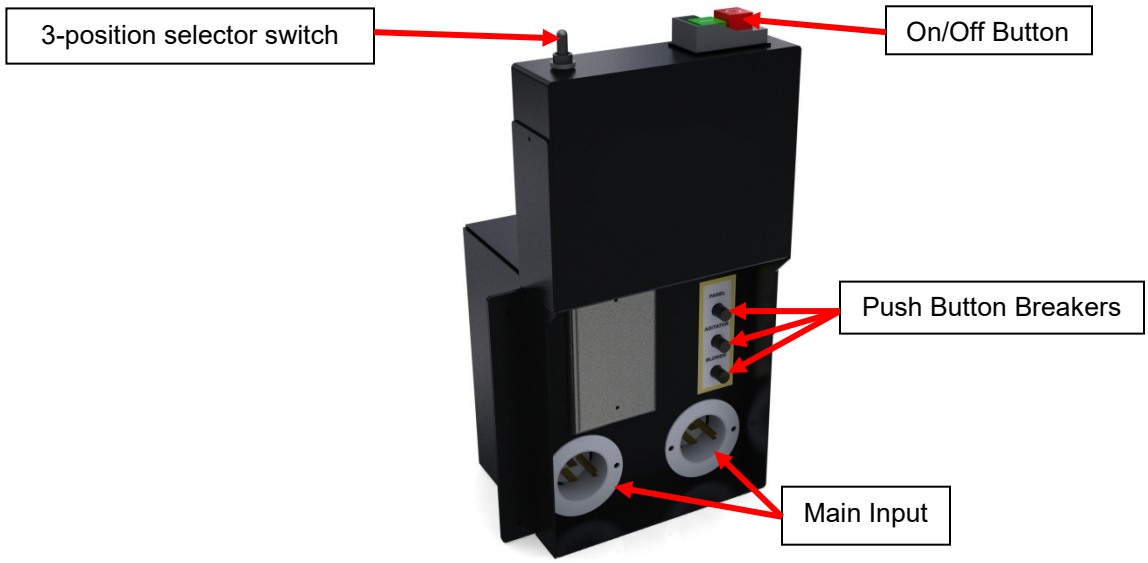
Deluxe Control Panel (non-CE).



Functions of the various switches and outlets are indicated below.

- **Blower Control:** Increase or decrease air supply to the blowing hose.
- **Kill Switch:** Emergency stopping of the Auger and Blower motors.
- **Voltmeter:** Visual inspection of the proper voltage.
- **3-Position Selector 'Toggle' Switch:** select manual mode (air only, off/remote, air & material feed).
- **Remote Outlet:** Location to plug in remote cord.
- **Auxiliary Outlet:** Location to plug in 110 volt accessories (10 amp. max.).
- **IWS Outlet:** Location to plug in the internal wetting system. On/Off with feed. (2 amp. max.).
- **Main Input:** main power feed from separate power sources. (Single, double inputs available).

Standard Control Panel

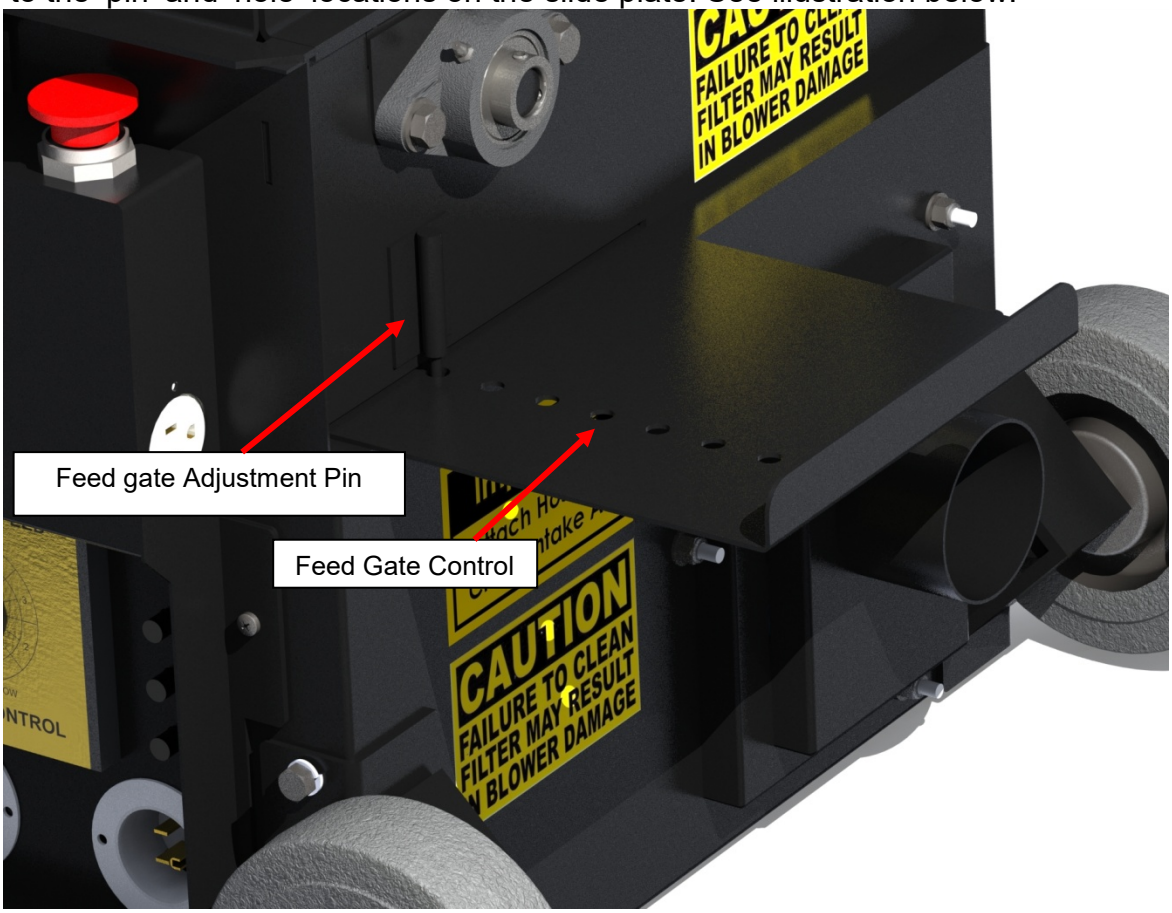


Functions of the various switches and outlets are indicated below.

- **On/Off Button:** power interruption drop-out/ Re-start button. (Standard only)
- **3-Position Selector Switch:** select manual mode (remote, off, air)
- **Main Input:** main power feed from separate power sources. (Single, double inputs available)

Feed Gate control:

The control of fiber feed rate is adjusted with the slide gate located (under main control panel), below the hopper area. This will control the opening of the slide gate to the airlock and can be adjusted with reference to the 'pin' and 'hole' locations on the slide plate. See illustration below:



Feed Gate Settings (Approx.):

Open Blowing: high production = gate full open. (Note: if you have air setting on 'high' and the velocity of fiber begins to slow at the end of the hose, 'stop' immediately before hose clogs and close the gate until the correct rate of fiber feed is matched to the available air volume.)
Retrofit / drill and fill: (depending on size of hose) = 1" to 4" open.

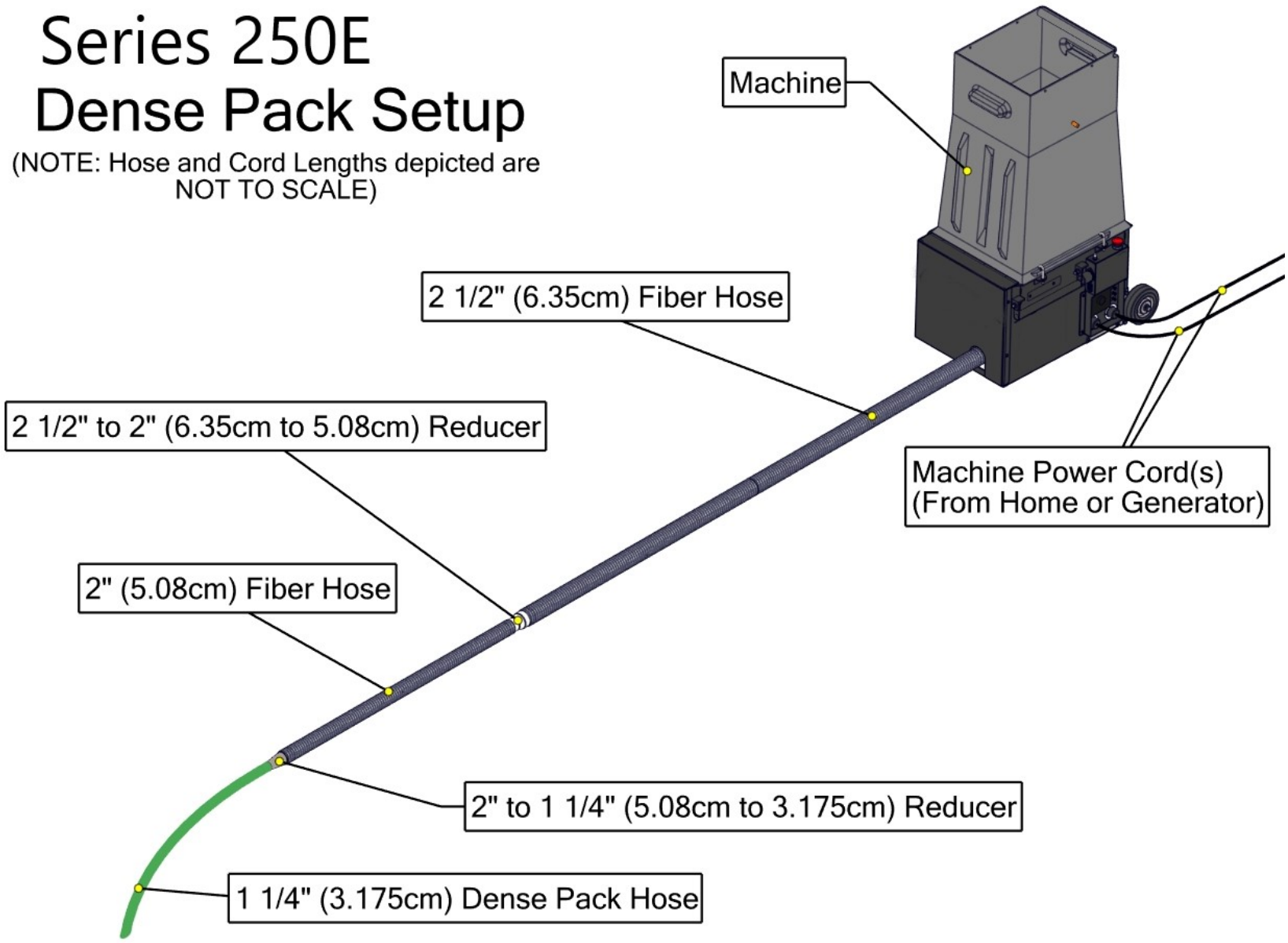
Blower/air control:

The variable speed blower / air controls are located on the front of the main panel box. **One model:** have rheostat controls that regulate the volume of air for two blowers in the blowing hose. When turning the knobs to the left (counterclockwise), the air increases. Note: if knob is turned past the 'high' setting, the blower will click to the 'off' mode.

Blower Adjustment with feed gate control: Adjustment of the blower air is proportional to the feed gate setting. The higher the desired feed rate, the higher the blower air setting. Insufficient air will result in hose plugging. As a general rule; 50% feed gate setting will result in a 50% blower setting. However; different fibers, with moisture and humidity conditions, may require more or less air. Once the desired feed gate setting is established, the operator should adjust the air slightly more than desired to prevent hose plugging. Increased blower air will increase blowing distance from the end of hose, dust, and coverage.

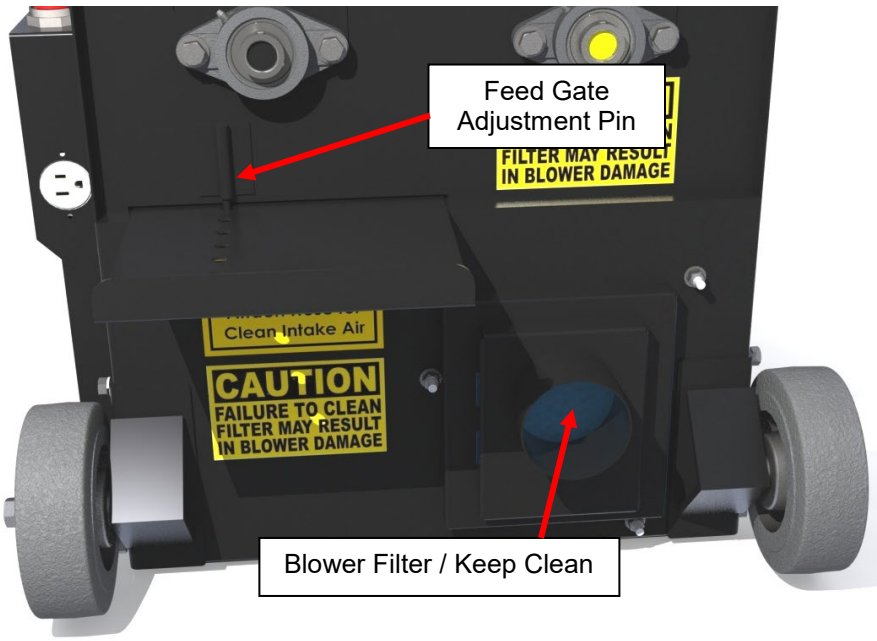
Series 250E
Dense Pack Setup

(NOTE: Hose and Cord Lengths depicted are NOT TO SCALE)

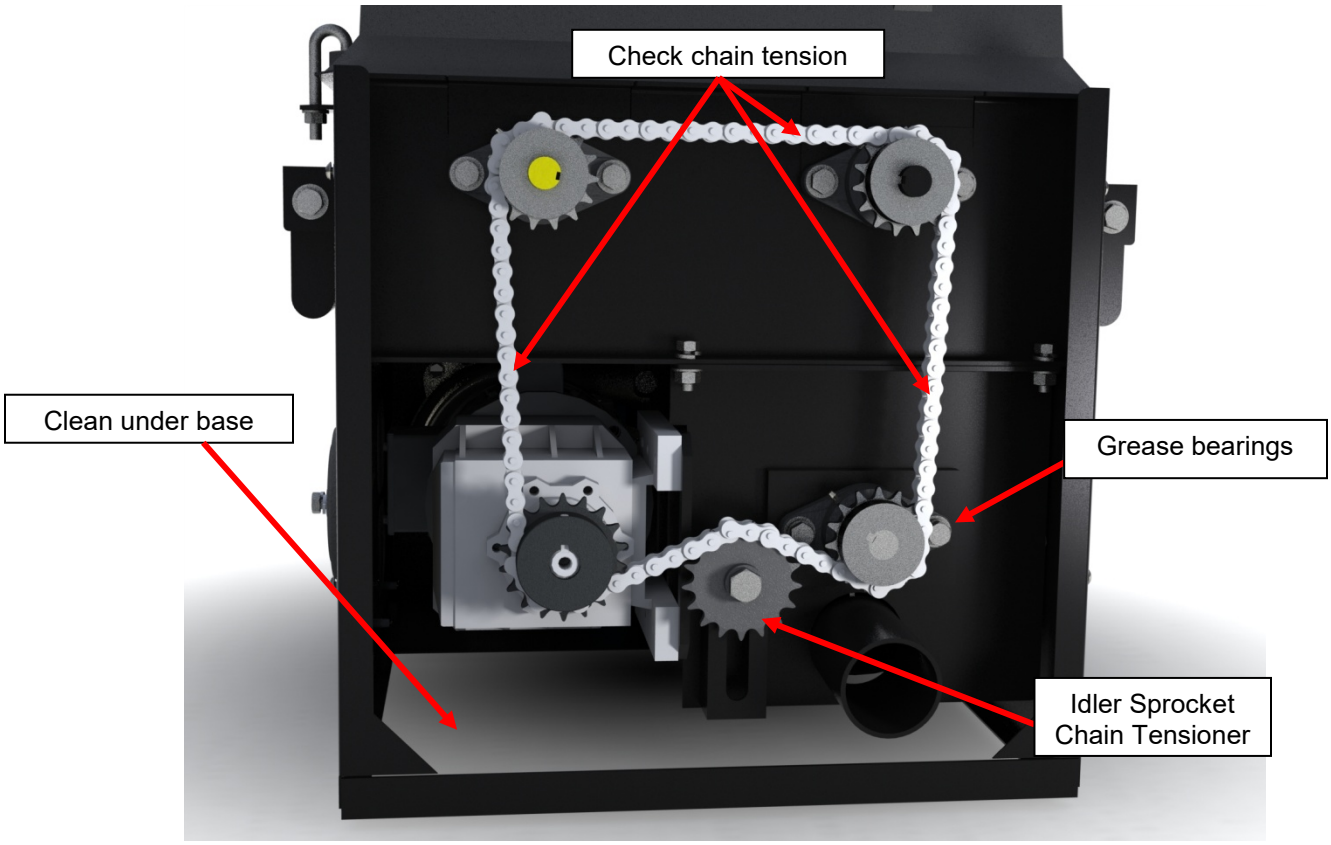


Maintenance:

Daily: Empty fiber from machine daily. Clean blower filter. Brush off exterior when not running.



Weekly: Clean blower filter (remove and blow out with compressed air) and vacuum fiber and debris from under machine area. (Excessive fiber build-up around motors will cause heat and prevent normal cooling, resulting in reduced motor life.)
See illustration below:



Monthly: Check airlock seals and plates for damage. (See troubleshooting: checking airlock seals)
Visually inspect and/or re-tighten all chains and sprockets.

1. One idler sprocket on airlock for tensioning chain for airlock and feed augers.

Quarterly (3 months): Grease all bearings with NLGI #2 Grease.

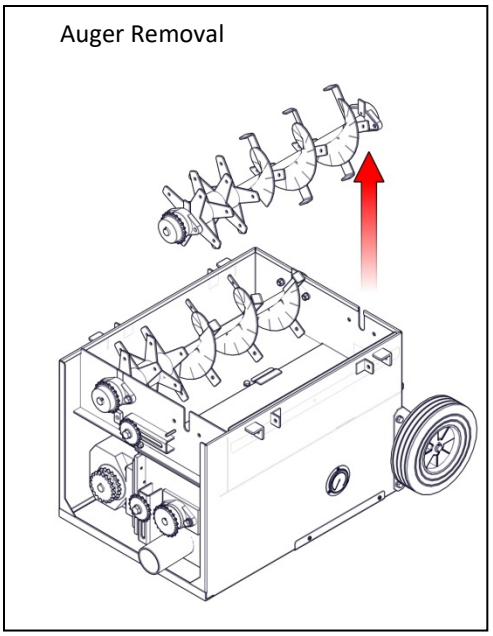
1. 2-airlock bearings (see illustration above).

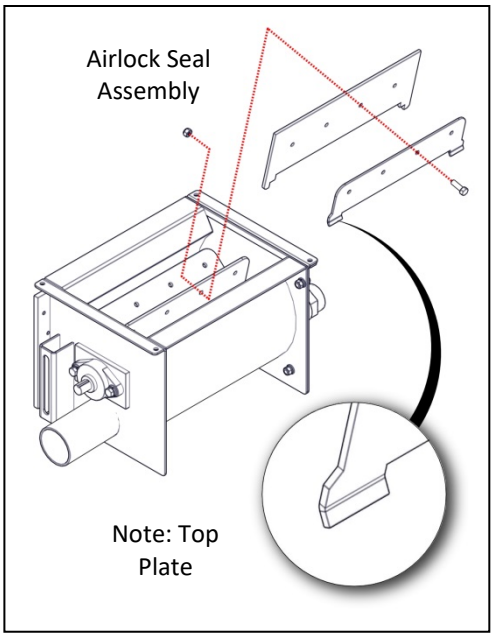
Airlock Seal Replacement Instructions

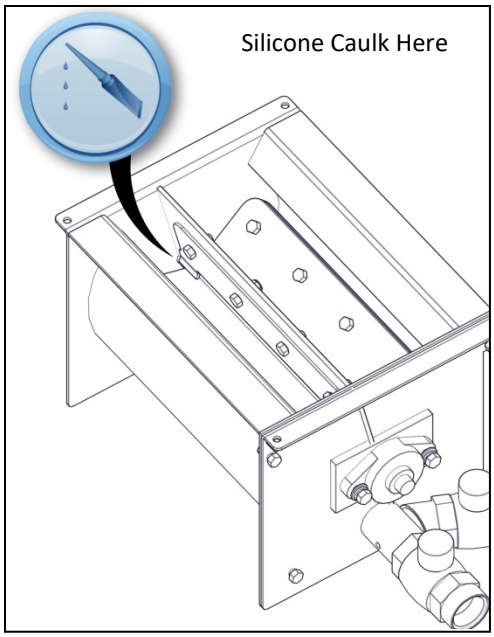
IMPORTANT:

Disconnect power and follow proper lock out/tag out procedures before proceeding.

1. Remove front chain guard access panel.
2. Removed hopper from base unit.
3. Loosen chain idler sprocket located on airlock end-plate, and remove chain. (If chain does not slip off, locate and remove chain connector link.)
4. Un-bolt the bearings for the auger located directly above the airlock.
5. Remove the auger by lifting straight up from the base. The bearings, bearing plates, and sprocket will lift out with the auger. See top illustration. (This will give you access to the airlock opening so the seals can be replaced without removing the airlock from the base.)
6. Reaching down into the airlock opening, un-bolt the upper plate from the base plate and remove the old seal. Remove 'old' silicone caulk with putty knife or flat head screwdriver. Rotate the shaft and repeat this step for the remaining 5 old seals. (Best Practice: Leave last remaining seal inside chamber as example of correct seal placement for new seals)
7. Replace with the new seals, and re-attach the upper plates and fasteners. (Apply silicone caulk into the shaft/endplate corner of each seal as the seals are installed. See bottom illustration.) See middle illustration for reassembly.
8. Tighten the bolts and lock nuts until the rubber seal begins to distort/deform slightly. Do NOT over tighten fasteners.
9. When installing the last paddle assembly, push the rubber seal 'tabs' behind the adjacent seal with a long flat head screwdriver.







Series 250E Motor Replacement Instructions

IMPORTANT: Disconnect power and follow proper lock out/tag out procedures before proceeding.

1. Remove hopper and front chain guard.
2. Loosen chain idler sprocket and remove chain. See Image #1. (Note: If more slack is needed to slide off chain, remove the master link from chain.)
3. Remove screws from bottom skid plate. Position the base assembly on its side and remove bottom skid plate.
4. (See Image #2) Remove 'Velcro' cord restraint (Green Arrow) and unplug motor plug from receptacle marked agitator on rear of control box panel (Red Arrow).
5. Disconnect blower hose from back of airlock (Blue Arrow in Image #2).
6. Remove four (4) bolts securing airlock assembly to base (See Image #3) and slide airlock assembly out of the front of the base (See Image 4).
7. Remove the four (4) bolts attaching bad motor to the gearbox and slide motor apart from gearbox. See Image #5)
8. Assemble the new "pre-wired" agitator motor to gearbox.
   Important: (See Image #6) Apply 'anti-cease' compound to the new motor shaft to allow easy removal later. Be sure the motor and gearbox slide together with no gasps at faces of brackets. (Do not force the components together!) Otherwise, remove the assembly and adjust the key in keyway.
9. Reverse steps 1-6 for re-assembly.

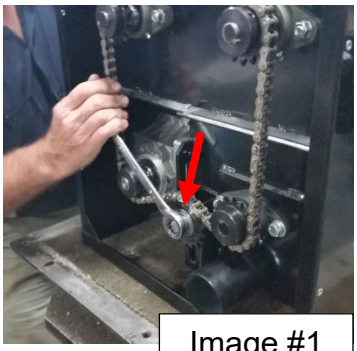


Image #1

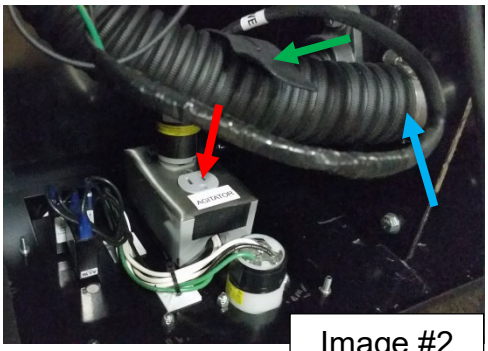


Image #2

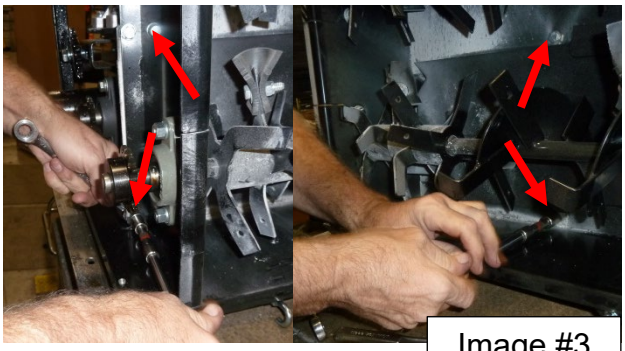


Image #3

Image #4

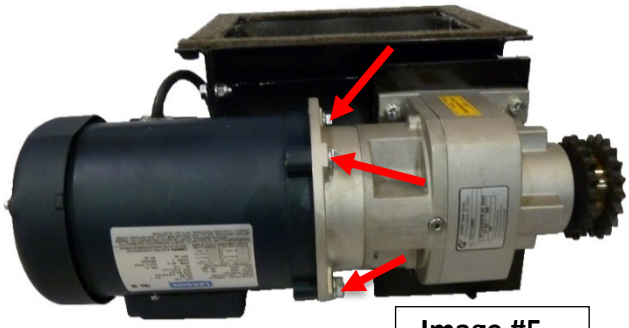


Image #5

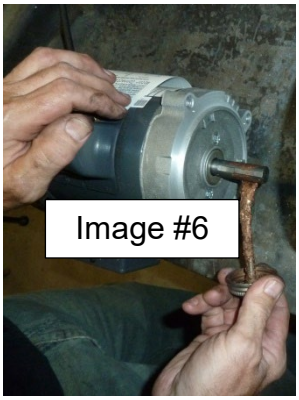


Image #6

Mechanical Troubleshooting

Problem **Corrective Action**

1) Loud knocking sound
   A. Check scalping augers or airlock for objects and remove.
   B. Check chains for proper alignment and tension.
   C. Check for bent or misaligned auger/shredder fingers.
2) Poor output or uneven flow
   A. Gradually increase blower air and/or reduce fiber feed until condition improves.
   B. Check hose for blockage. Clean out by turning blowers on high with feed turned off (air only). Hold hand over output of hose, forcing pressure to increase and expand hose. Repeat this procedure several times until blockage is removed.
   C. Check all hose connections. Tighten hose clamps to eliminate air leakage.
   D. Check for damaged airlock seals or bent plates inside the airlock. Remove hopper and inspect airlock. (See previous section for replacement of airlock seals.)
3) Excessive dust /open blow
   A. Reduce air into system by decreasing blower control setting and/or opening slidegate.
   B. Increase hose dia. at end of blowing hose.
   C. Use an internal wetting system (IWS).
4) Cold temperature start-up
   A. Turn blowers on high, while holding hand over output hose for several minutes. This will allow the airlock chamber and seals to heat up, reducing the possibility of tripping the motor overload.

Electrical Troubleshooting

Important!! Use proper 'lock-out tag-out' procedures at the main power supply before inspecting or adjusting unit. Consult qualified electrician to answer questions before attempting to inspect, repair, and operating; or injury may result.

Before operating machine check 'voltmeter' for proper voltage and pull 'red' kill switch button out.

Cold temperature operation. Turn blowers on high, hold hand over output to partially block output and create heat. After 5 minutes, airlock seals should be softening to allow start-up w/o tripping reset.

1) Voltmeter indicating no or low voltage
   A. Check power source for proper voltage.
   B. Check input cord(s) for proper connection to power source.
   C. Open Main Control Panel and check voltage with multi-tester at the voltmeter terminals. Replace if necessary.
2) Machine does not function with Remote Hand Pendant.
   A. Turn machine on manually at machine with 'toggle switch' selector. If machine does not run, the remote cord may be OK. Check power source.
   B. Remote control cord is properly plugged in.
   C. Check remote cord plug and hand pendant for damage or loose connections.
   D. Check transformer breaker with continuity tester.
3) Blower motor **not** running, but auger motor is running.
   A. Check operation with both the remote cord and manually with 'toggle' switch on the main Panel Box.
   B. Check blower speed control for 'ON' position.
   C. Check blower breakers inside panel box.
   D. Check for defective, broken, or loose wiring connections inside panel box, blower box, and at the external plug connection.
   E. Unplug external plugs centered on lower base of machine below the panel box and slide gate. Plug directly into extension cord with 120 volt power. This will verify the blowers are OK.
   F. If blower control(s) are faulty, by-pass the blower control by removing the wires at connection on back of panel box and joining the two wires. This will offer on/off control of the blower, but blower will run full speed only.
   G. Visually inspect and/or replace blower relay inside Main Control Panel.
4) Blower motor running hot.

A. Clean or replace filter(s) located on lower base unit, below slide gate. Check intake of blowers for debris/ insulation. Blow out blower motor and surrounding area with compressed air.

B. Check blowing hose for blockage. A restriction in the output hose will cause the blowers to run hotter than normal.

C. Check blower(s) for proper operation. (i.e. bearings, armature, excessive arcing by worn brushes.

5) Excessive arcing of brushes on blower motor. ('hissing' or 'scratchy' noise)

A. Blow out brush assembly area with compressed air remove accumulation of dirt and debris.

B. Re-seat or replace brush assembly. If damage to commutator is severe, replace blower.

6) Auger/Airlock motor does not run; **but** Blower is running.

A. Check reset breaker inside main panel box. Manual Reset on auger/airlock motor is tripped. Disconnect power to machine. Wait until motor cools (approx. 15 minutes), Turn base unit on side and access from under machine and press reset button on motor.

B. Check procedure for cold temperature starting above.

C. Check for defective, broken, or loose wiring connections inside main control panel.

D. Visually inspect and replace motor relay/starter inside main panel box if needed.

7) Auger/Airlock motor running improperly or hot.

A. Disconnect power. Check augers/shredders, and airlock for debris.

B. Low voltage. Check voltmeter on main panel box when machine is running. Try another electrical source. Use proper size input cords.

C. Check bearings, chain and sprockets for problems or drive system misalignment.

D. Remove chains from motor reducer assembly. Run motor/reducer under power and check Amperage.

E. Check voltage, hertz, phase (1 phase), and direction of rotation.

F. Replace auger/airlock motor or gear motor...

8) Airlock Feeder not turning.

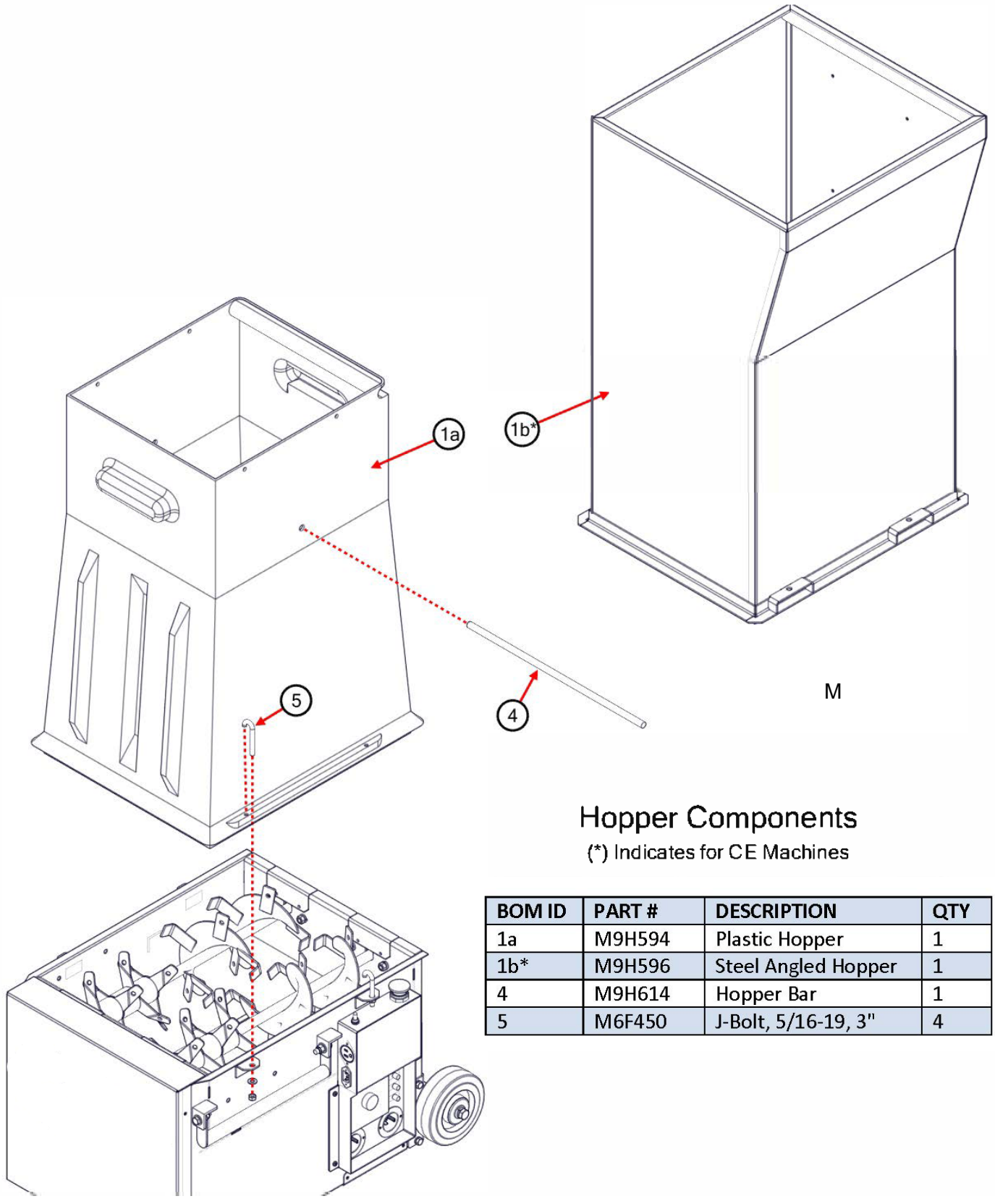
A. Check sprockets for missing key. Replace with 3/16" key.

B. Chain broken or slipped off sprocket. Repair or replace.

C. Check gearbox for sheared key between motor and reducer.

Recommended Spare Parts to Stock

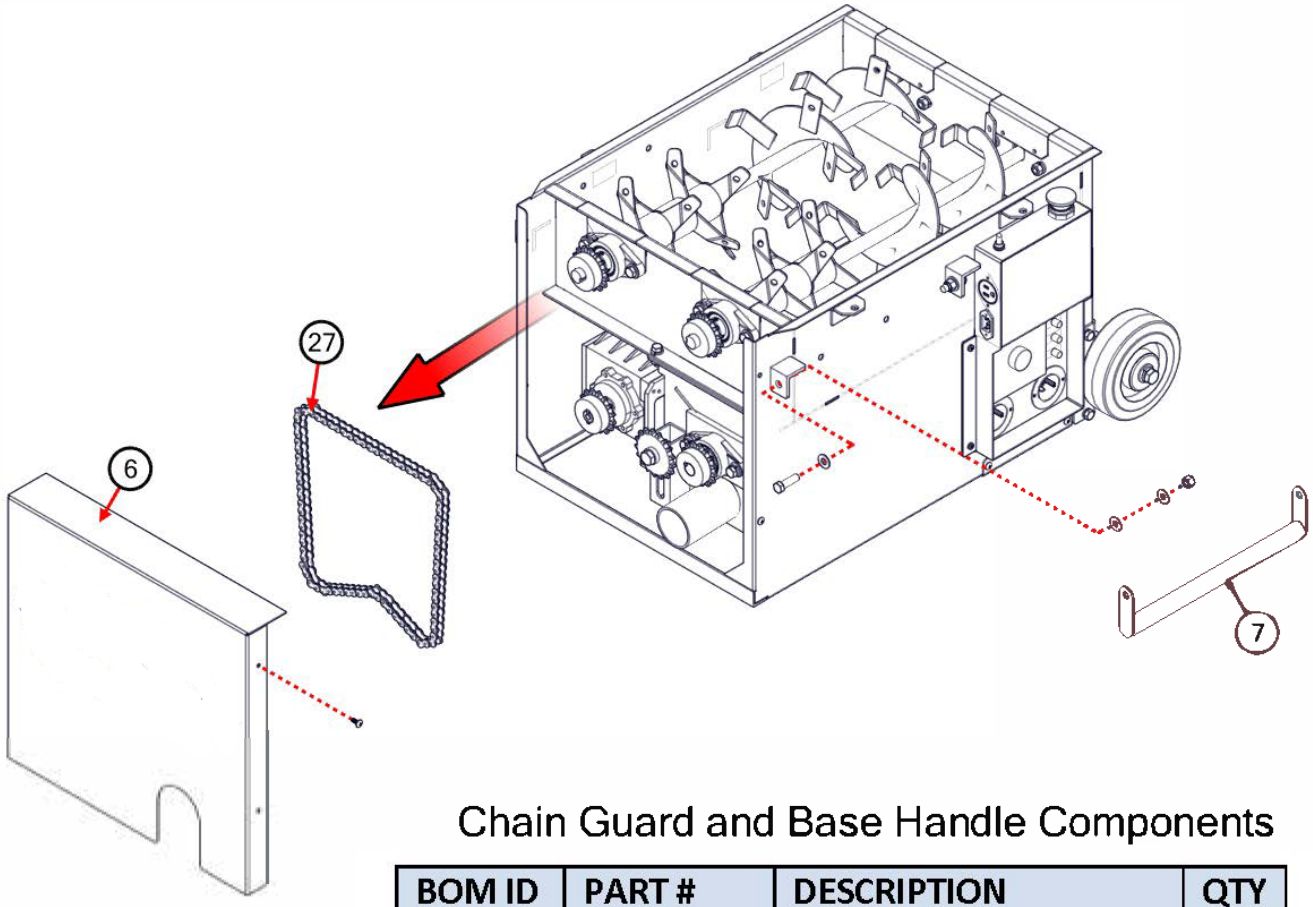
- Airlock seals, set of 6
- Blower filter
- Blower motor
- #40 chain 'master' link



Hopper Components

(*) Indicates for CE Machines

BOM ID	PART #	DESCRIPTION	QTY
1a	M9H594	Plastic Hopper	1
1b*	M9H596	Steel Angled Hopper	1
4	M9H614	Hopper Bar	1
5	M6F450	J-Bolt, 5/16-19, 3"	4

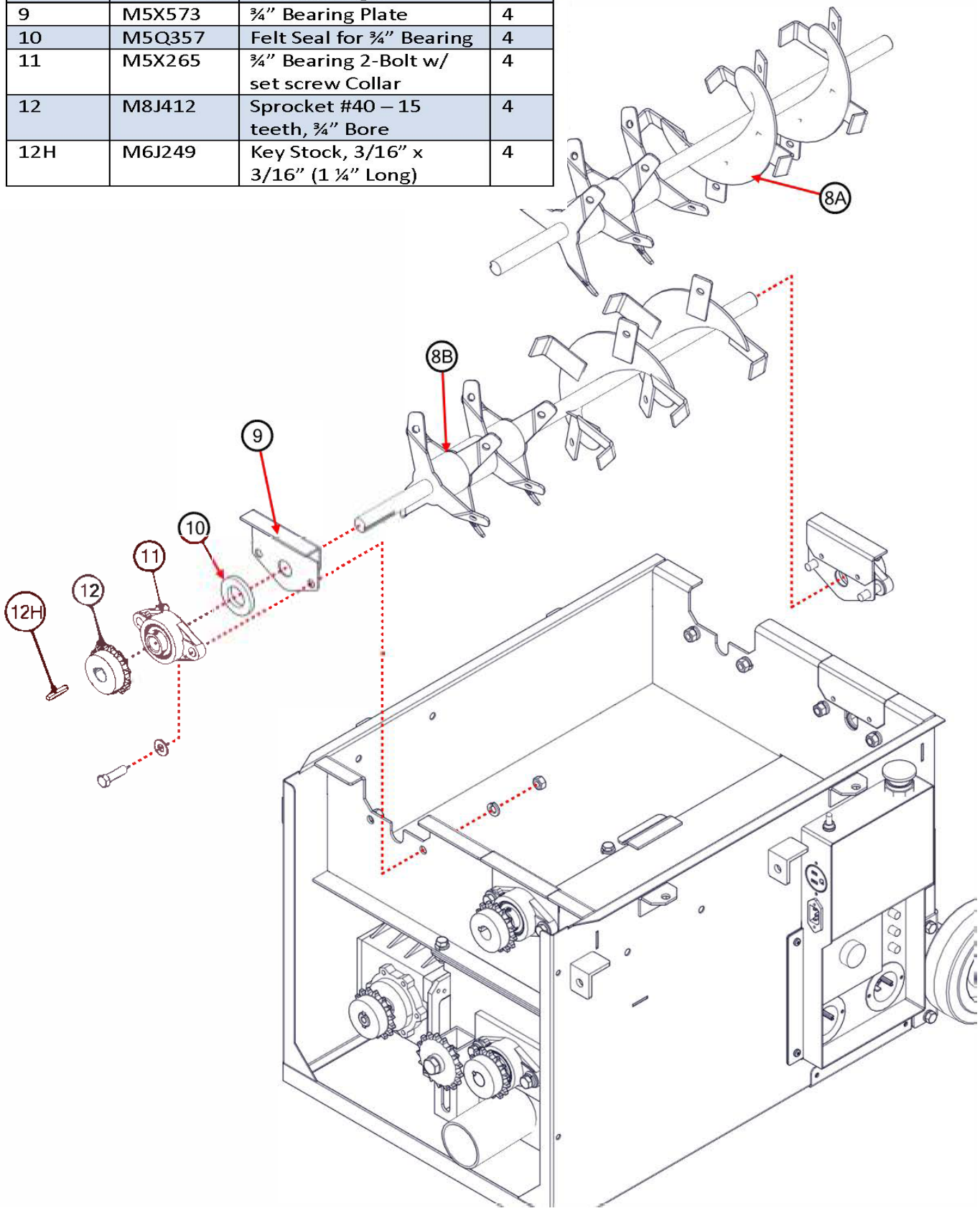


Chain Guard and Base Handle Components

BOM ID	PART #	DESCRIPTION	QTY
6	M6A609	Chain Guard – Flat Top	1
7	M9H613	Base Handle	2
27	M6A400	Chain #40 – 42" Long	1

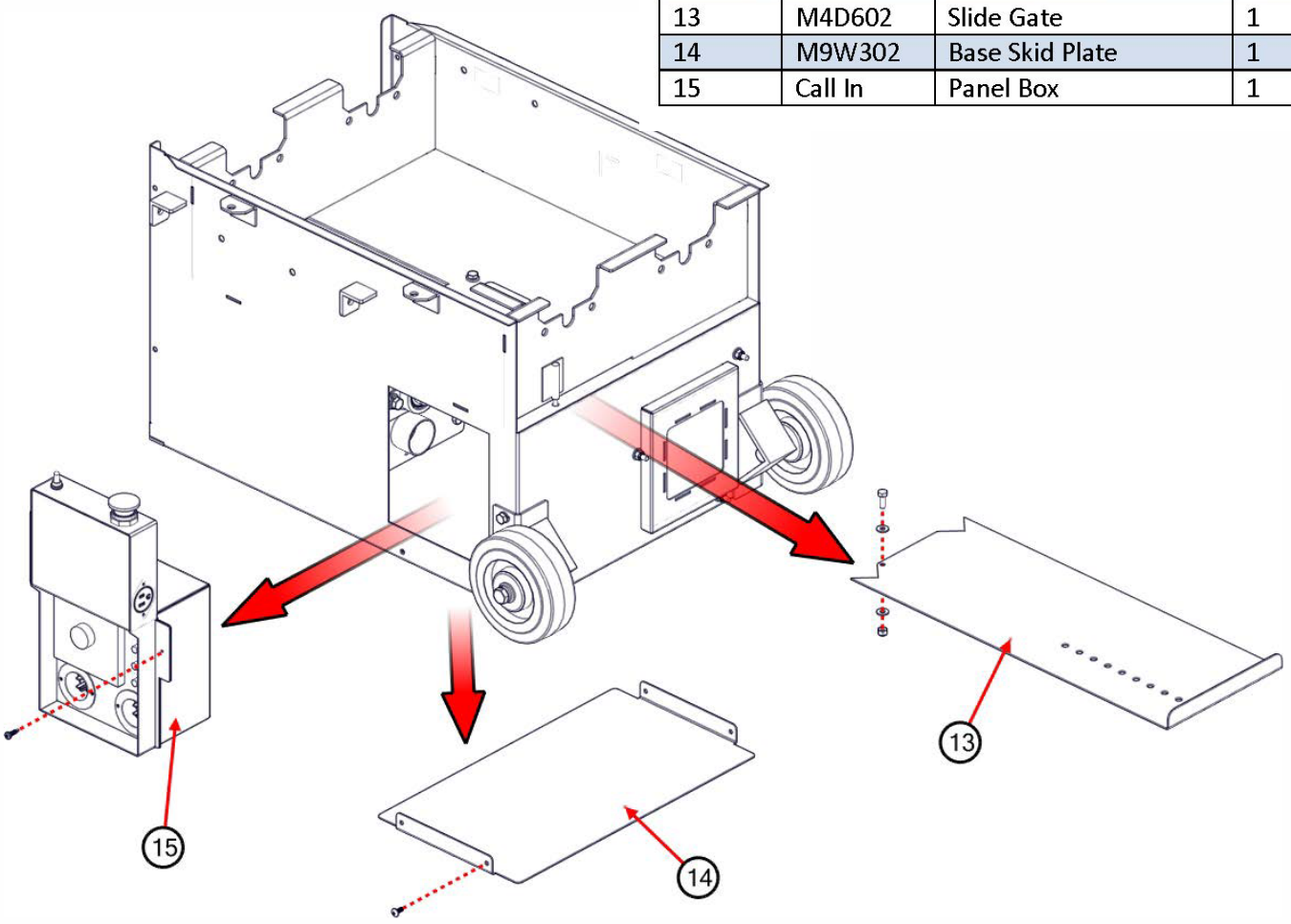
Auger Components

BOM ID	PART #	DESCRIPTION	QTY
8a	M1A512	Auger	1
8b	M1A512R	Reverse Auger	1
9	M5X573	¾" Bearing Plate	4
10	M5Q357	Felt Seal for ¾" Bearing	4
11	M5X265	¾" Bearing 2-Bolt w/ set screw Collar	4
12	M8J412	Sprocket #40 – 15 teeth, ¾" Bore	4
12H	M6J249	Key Stock, 3/16" x 3/16" (1 ¼" Long)	4



SlideGate, Skid Plate, Panel Box

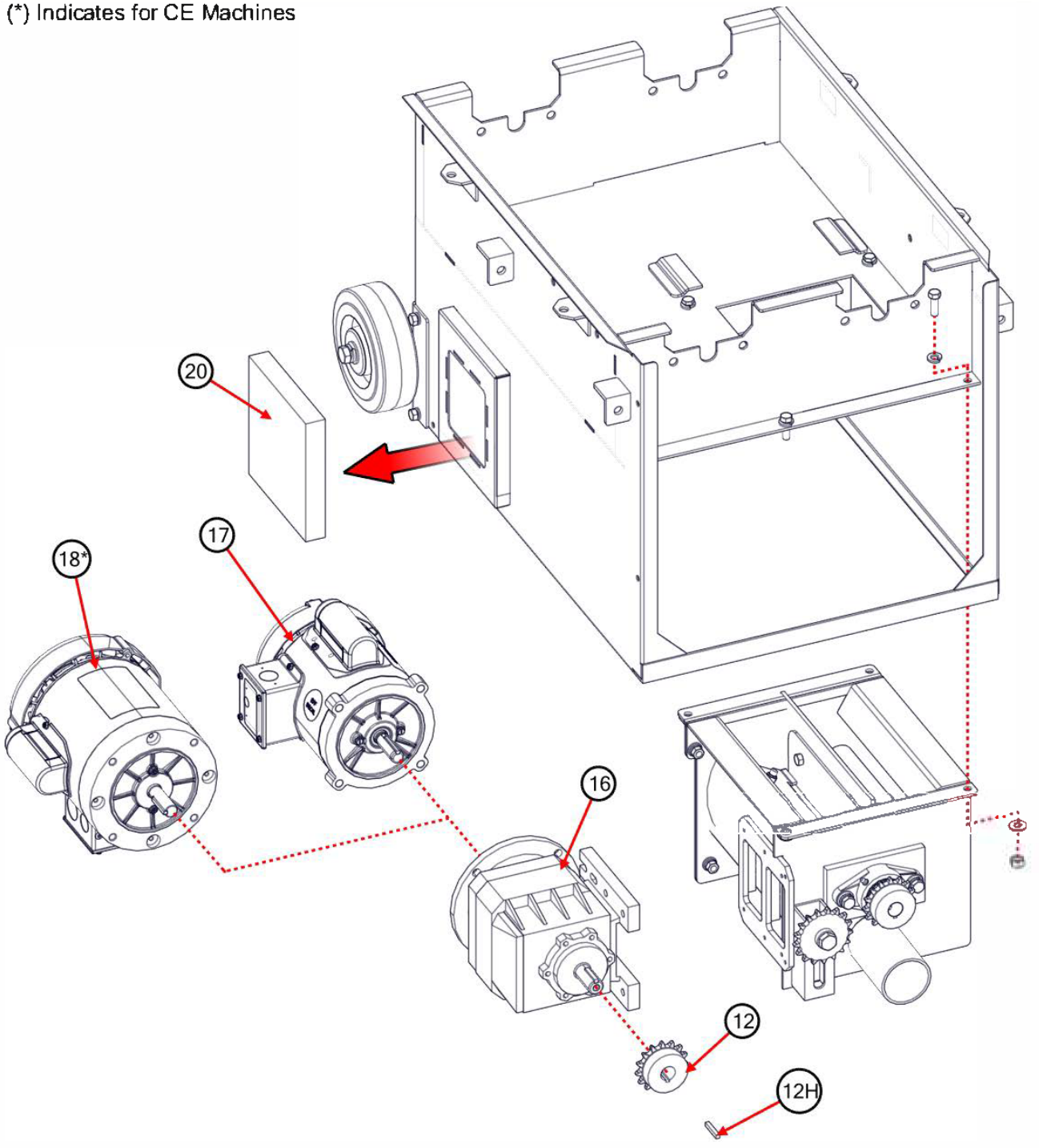
BOM ID	PART #	DESCRIPTION	QTY
13	M4D602	Slide Gate	1
14	M9W302	Base Skid Plate	1
15	Call In	Panel Box	1

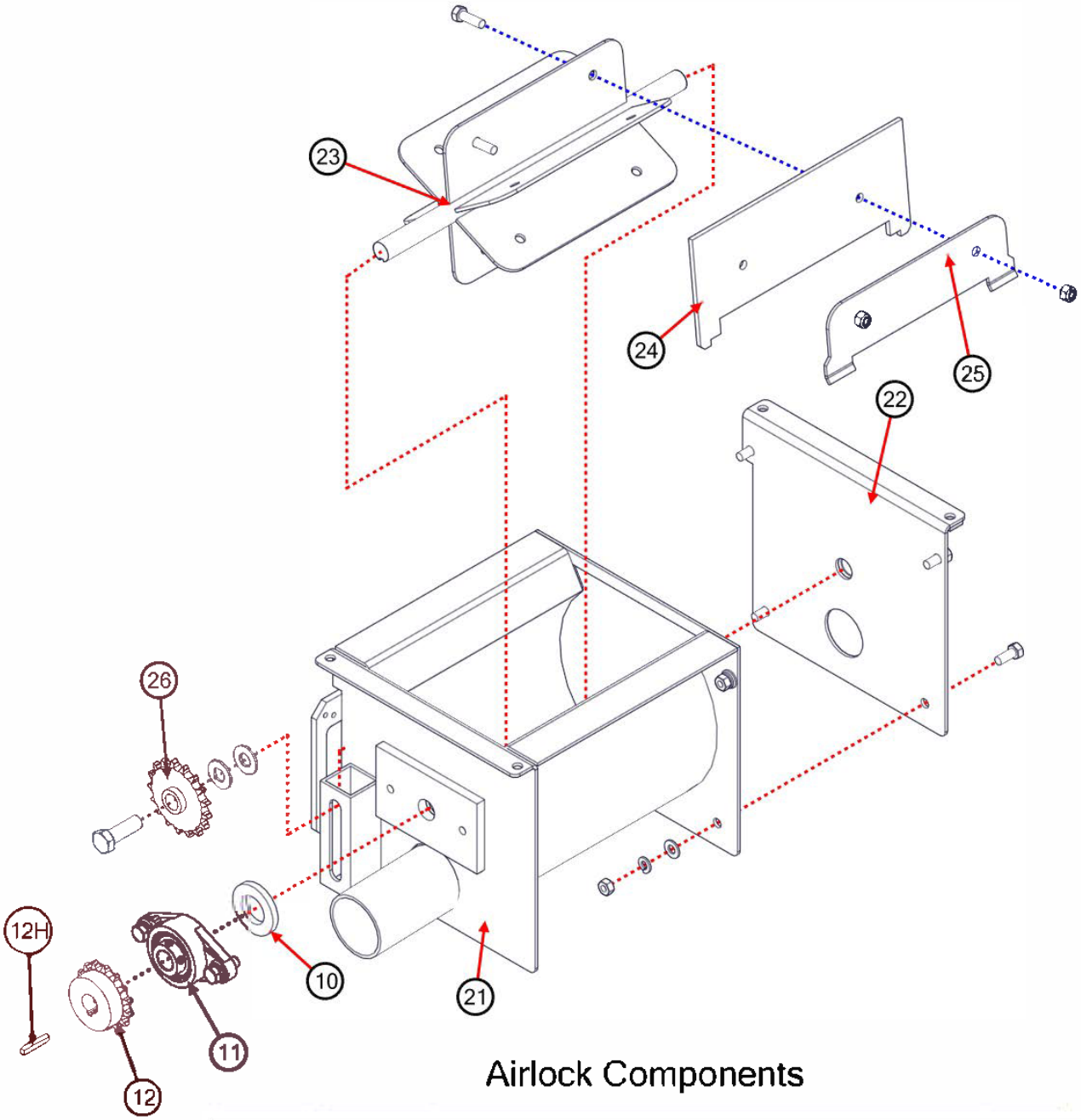


DRIVE COMPONENTS

BOM ID	PART #	DESCRIPTION	QTY
12	M8J412	Sprocket #40-15 Teeth, ¾" Bore	4
12H	M6J249	Key Stock, 3/16" x 3/16" (1 ¼" Long)	3
16	M8B092	Reducer, IN-Line, 1/3HP, 336 IN-LBS, 60RPM, 29:1 Ratio, Foot Mount, 56C Face	1
17	M2B024	Motor 1/3 HP, 120/230 Volt, 60HZ, TEFC, 56C Face, No Reset, Footless	1
18*	M2B028	Motor 1/3 HP, 120/230 Volt, 50HZ, 56C Face, Manual Thermal Protection	1
20	M6C286	Filter 6 ½" x 6 ½"	2

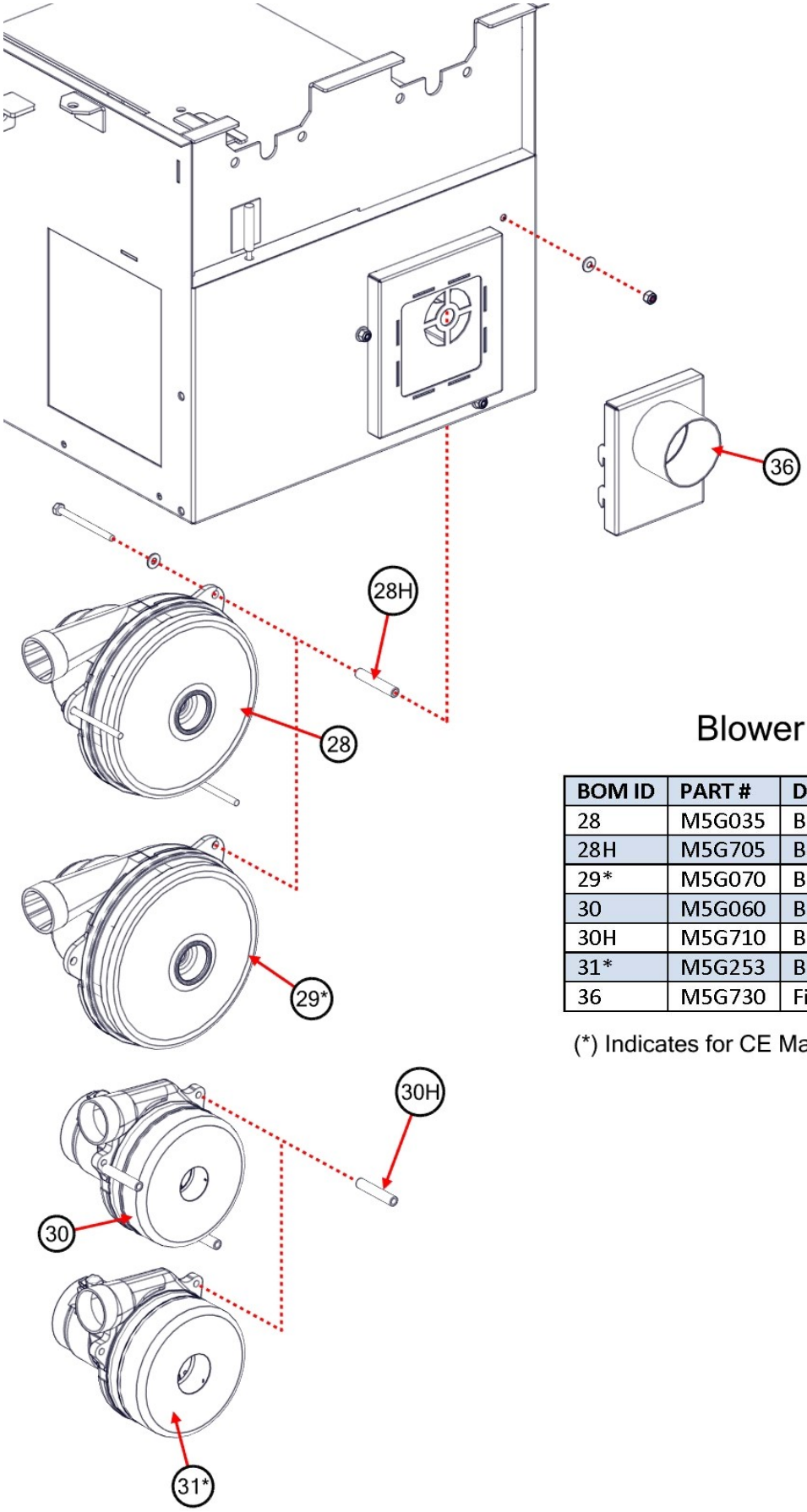
(*) Indicates for CE Machines





Airlock Components

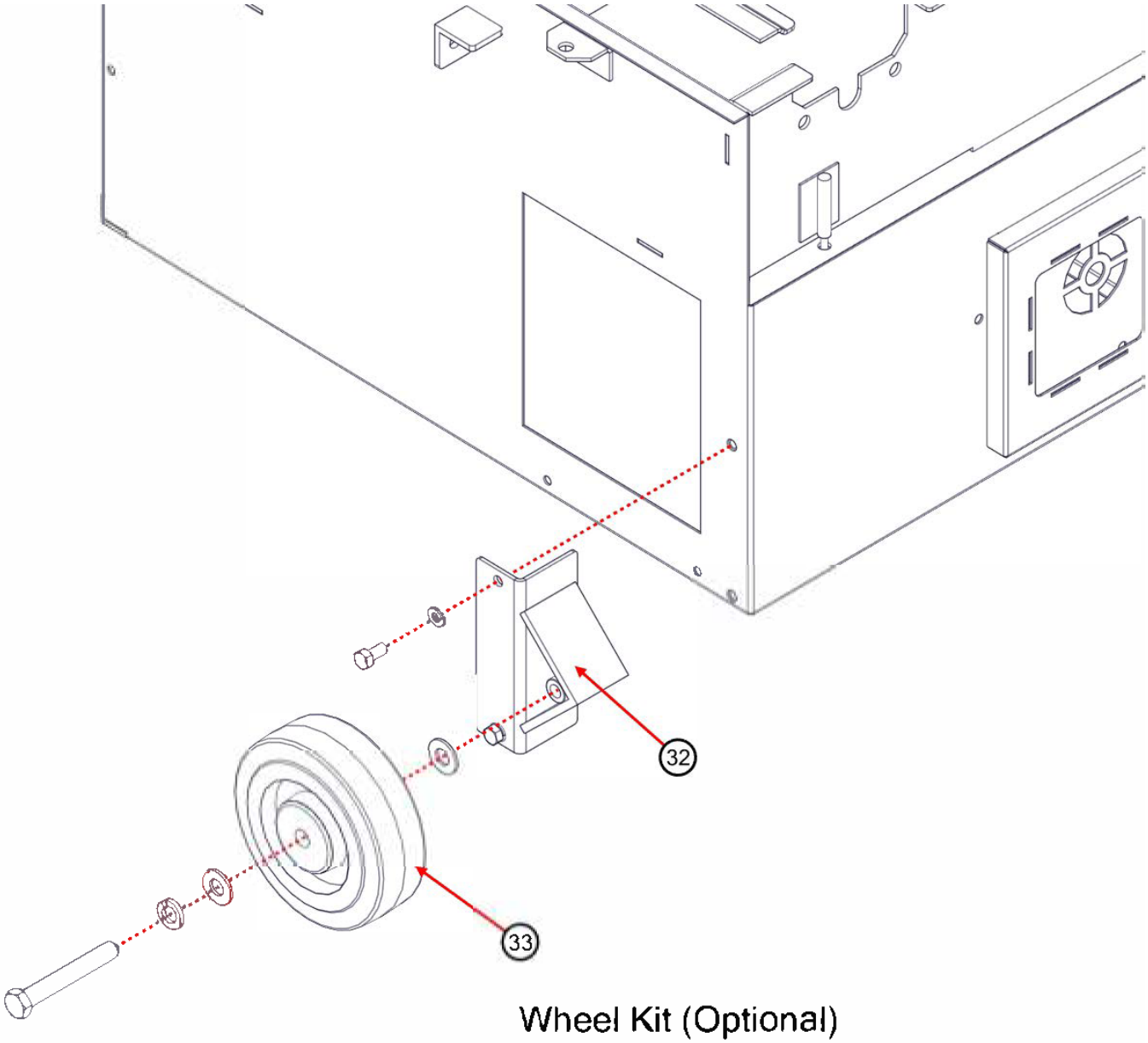
BOM ID	PART #	DESCRIPTION	QTY
10	M5Q357	Felt Seal	2
11	M5X266	¾" Bearing 2-Bolt with Set Screw Collar, Triple Seal	2
12	M8J412	Sprocket #40-15 teeth, ¾" Bore	4
12H	M6J249	Key Stock, 3/16" x 3/16" (1 ¼" Long)	4
21	M5R607	8" x 10" Airlock	1
22	M5R606	8" x 10" Airlock Removable End	1
23	M5R509	8" x 10" Airlock Rotor	1
24	M5R707	8" x 10" Airlock Seal	6
25	M5R307	8" x 10" Airlock Top Plate	6
26	M8J594	#40 Sprocket, 17 Teeth	1



Blower Components

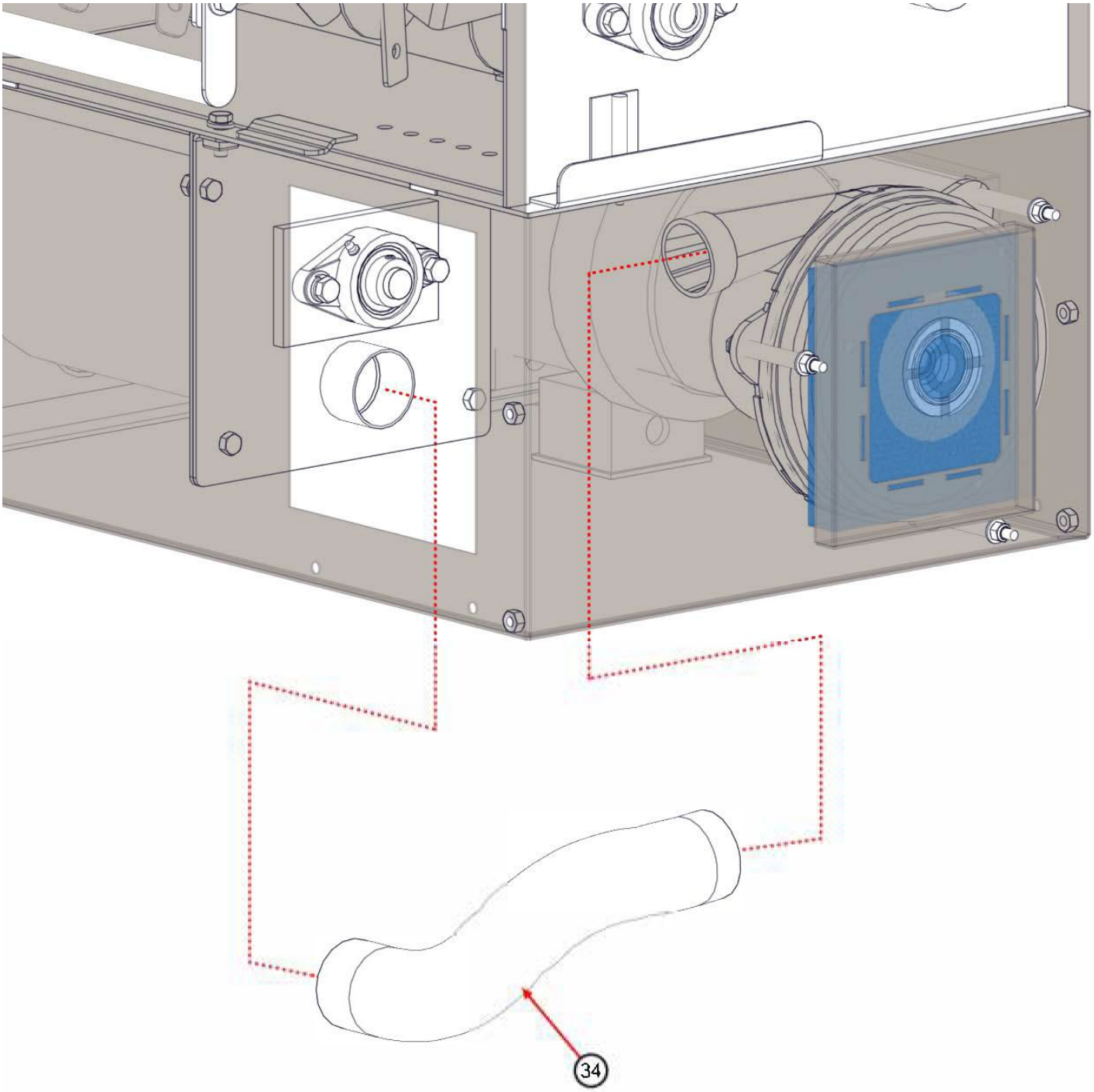
BOM ID	PART #	DESCRIPTION	QTY
28	M5G035	Blower, 13.7 Amp	1
28H	M5G705	Blower Bolt Spacer, 2 ¼"	3
29*	M5G070	Blower, 7.1 Amp	1
30	M5G060	Blower, 9.0 Amp	1
30H	M5G710	Blower Bolt Spacer, 2 1/8"	3
31*	M5G253	Blower, 4.7 Amp	1
36	M5G730	Filter Cover	1

(*) Indicates for CE Machines



Wheel Kit (Optional)

BOM ID	PART #	DESCRIPTION	QTY
32	M6J600	Single Wheel Bracket	2
33	M6J407	Wheel, 6" x 12", ½" Axle, 600 LBS.	2



Hose Routing

BOM ID	PART #	DESCRIPTION	QTY
34	M6Q206	2" Hose, Black Polyester (Call with Length)	1

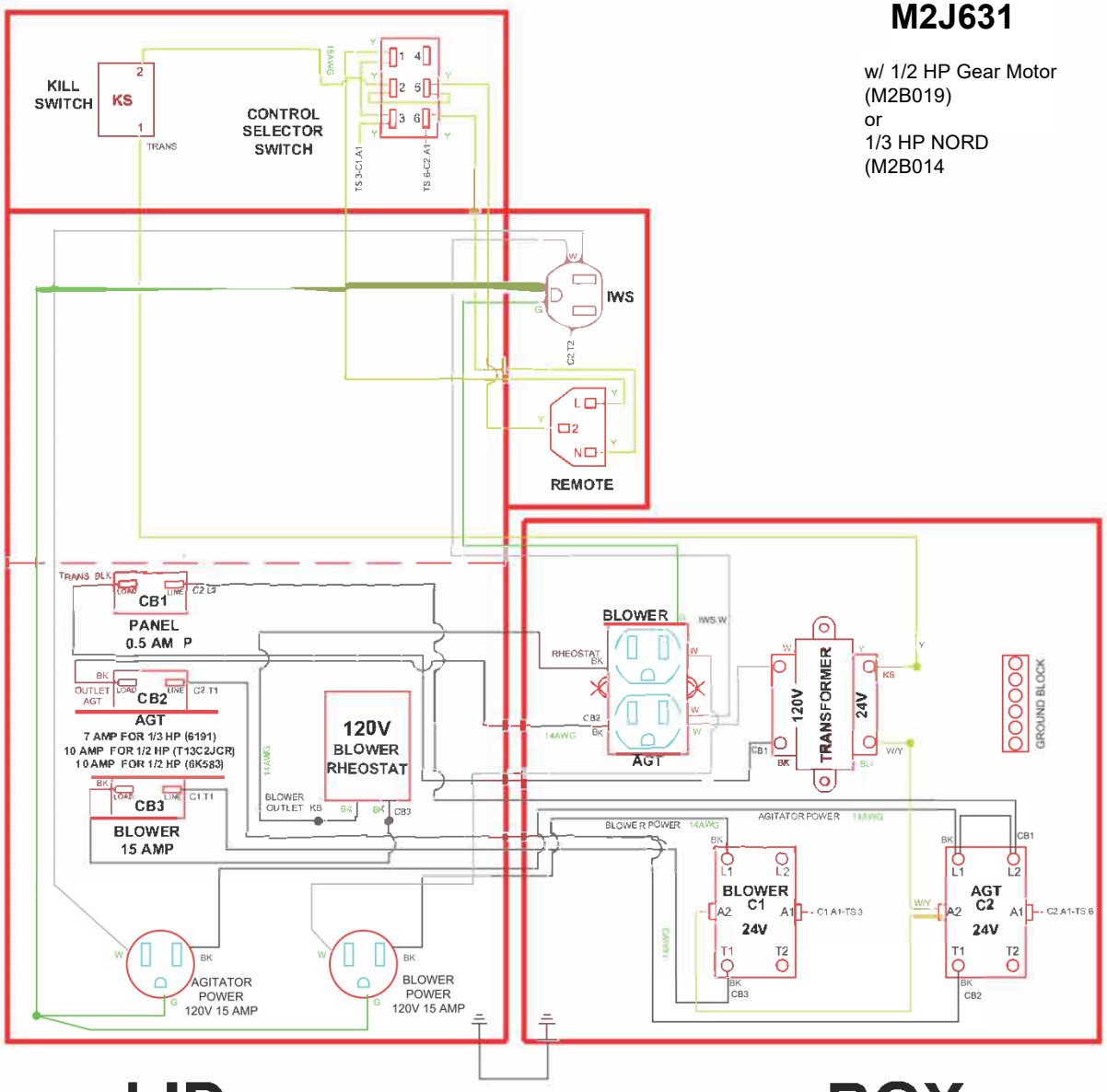
DELUXE W/ REMOTE AND IWS

250E PANEL BOX WIRING

120 VAC 60 Hz DOUBLE INPUT

M2J631

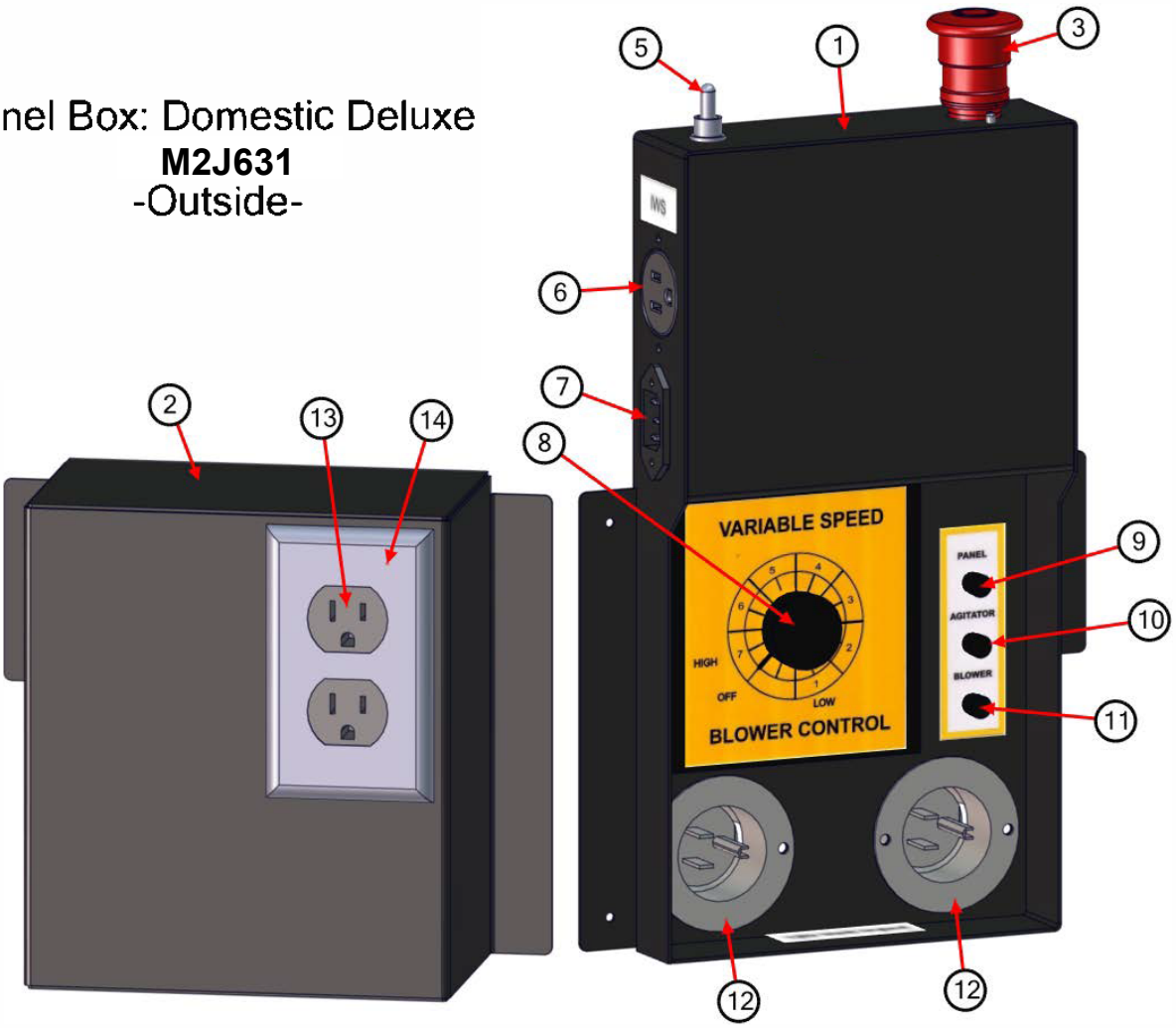
w/ 1/2 HP Gear Motor
(M2B019)
or
1/3 HP NORD
(M2B014



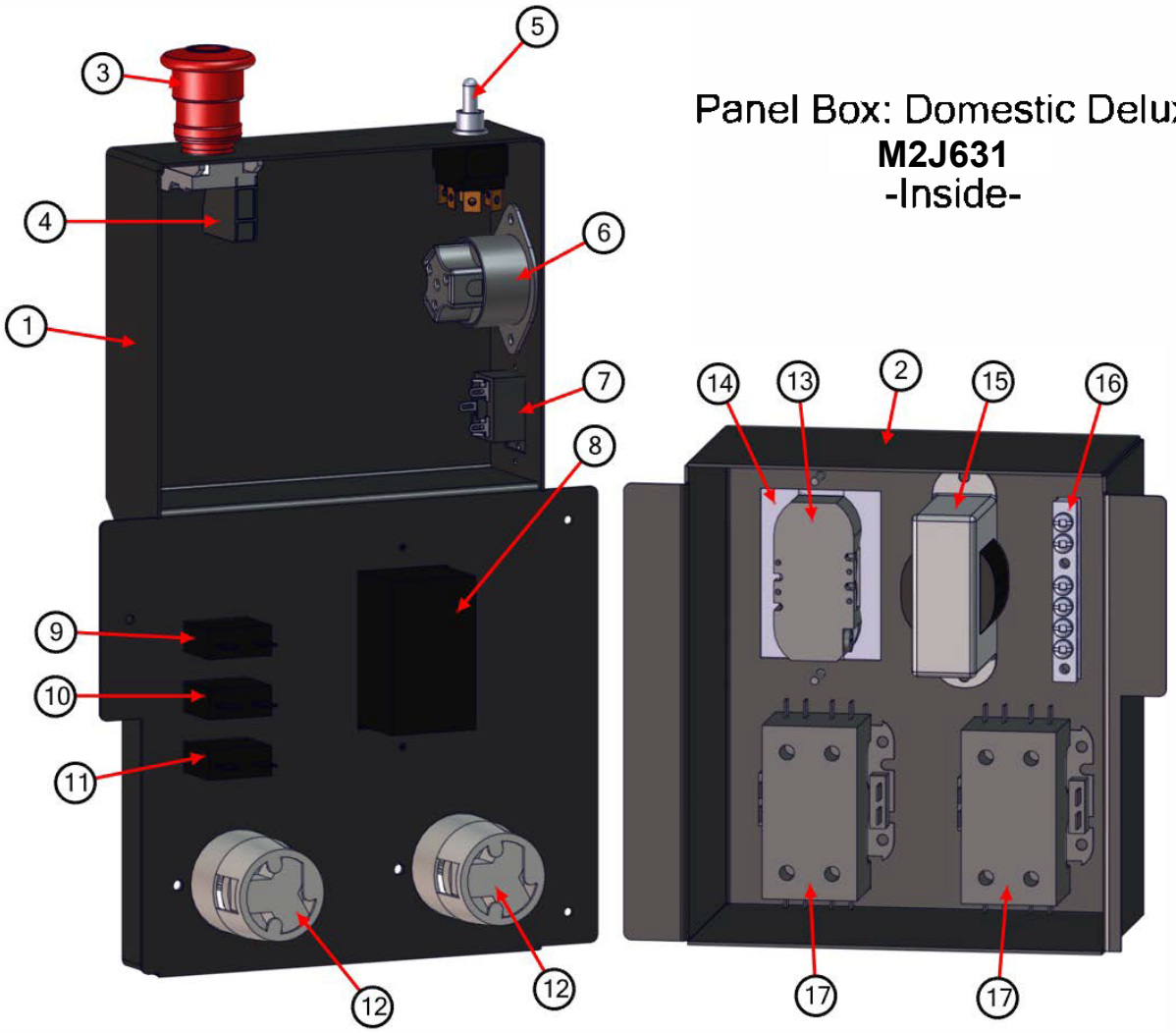
LID **BOX**

Wiring Panel Box 250E Export Deluxe with Remote IWS 1.4.2016

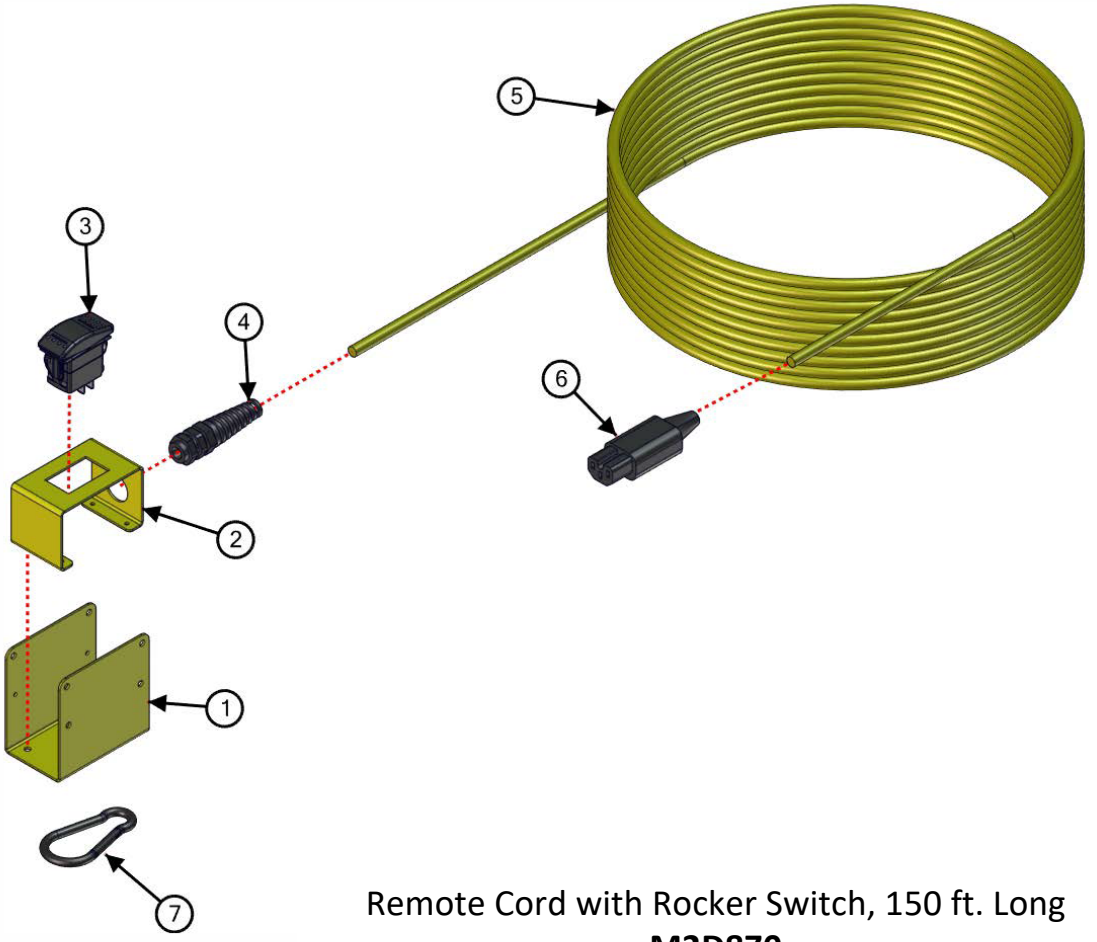
Panel Box: Domestic Deluxe
M2J631
-Outside-



BOM ID	PART #	DESCRIPTION	QTY
1	M2X035-B	Panel Box Face Plate	1
2	M2X036-B	Interior Panel Box	1
3	M1X220	Kill Switch, 22 mm	1
5	M1X034	Toggle Switch	1
6	M1U070	Receptacle, Single, Straight Blade, Panel Mount, 15 AMP, 125 Volt	1
7	M1U020	IEC Receptacle (Remote)	1
8	M2R100	Blower Control, 120 Volt	1
9	M3W036	5 AMP Breaker, Push Button	1
10	M3W046	10 AMP Breaker, Push Button	1
11	M3W055	15 AMP Breaker, Push Button	1
12	Call In	Receptacle	2
13	M1U005	Duplex Receptacle, 125 Volt, 15 AMP, Gray, 5-15R	1
14	M1V040	Outlet Cover, 1 Gang	1



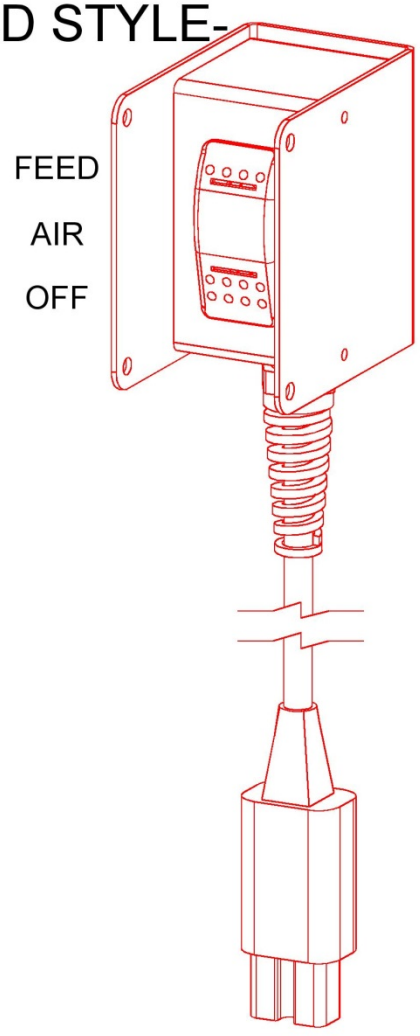
BOM ID	PART #	DESCRIPTION	QTY
1	M2X035-B	Panel Box Face Plate	1
2	M2X036-B	Interior Panel Box	1
3	M1X220	Kill Switch, 22 mm	1
4	M1X349	Contact Block, 22mm, Red	**1**
5	M1X034	Toggle Switch	1
6	M1U070	Receptacle, Single, Straight Blade, Panel Mount, 15 AMP, 125 Volt	1
7	M1U020	IEC Receptacle (Remote)	1
8	M2R100	Blower Control, 120 Volt	1
9	M3W036	5 AMP Breaker, Push Button	1
10	M3W046	10 AMP Breaker, Push Button	1
11	M3W055	15 AMP Breaker, Push Button	1
12	Call In	Receptacle	2
13	M1U005	Duplex Receptacle, 125 Volt, 15 AMP, Gray, 5-15R	1
14	M1V040	Outlet Cover, 1 Gang	1
15	M4B075	Transformer, 40 VA Single Ph. Prim., 120/208/240 Volt Output	1
16	M3C055	Ground Bar	1
17	M2E056	Relay/Contactor, 24VAC Coil Voltage, 2-Pole	2



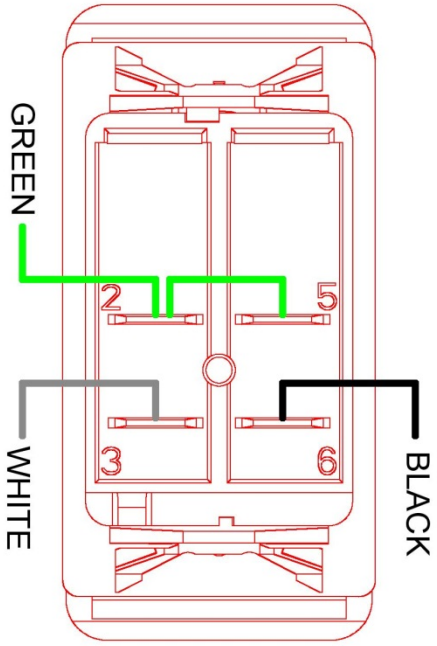
Remote Cord with Rocker Switch, 150 ft. Long
M2D870

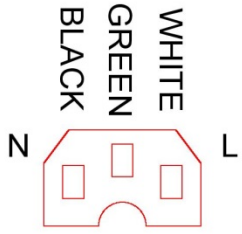
BOM ID	PART #	DESCRIPTION	QTY
1	M2D885	Rocker Switch Remote Cover Plate	1
2	M2D887	Rocker Switch Remote Electrical Plate	1
3	M1X036	Rocker Switch, DPDT OFF/ON/ON Maintained, 4 Tab Terminal, 20 AMP 12 VOLT	1
4	M2J035	Cord Connecter	1
5	M2A043	Yellow Cord, 16-3 (Call with Length)	1
6	M1U040	Remote Plug	1
7	M5A607	Spring Clip	1

HAND PENDANT ROCKER REMOTE WIRING
-REMOTE CORD STYLE-



BACK VIEW OF SWITCH





REMOTE CORD

11.16.2015