








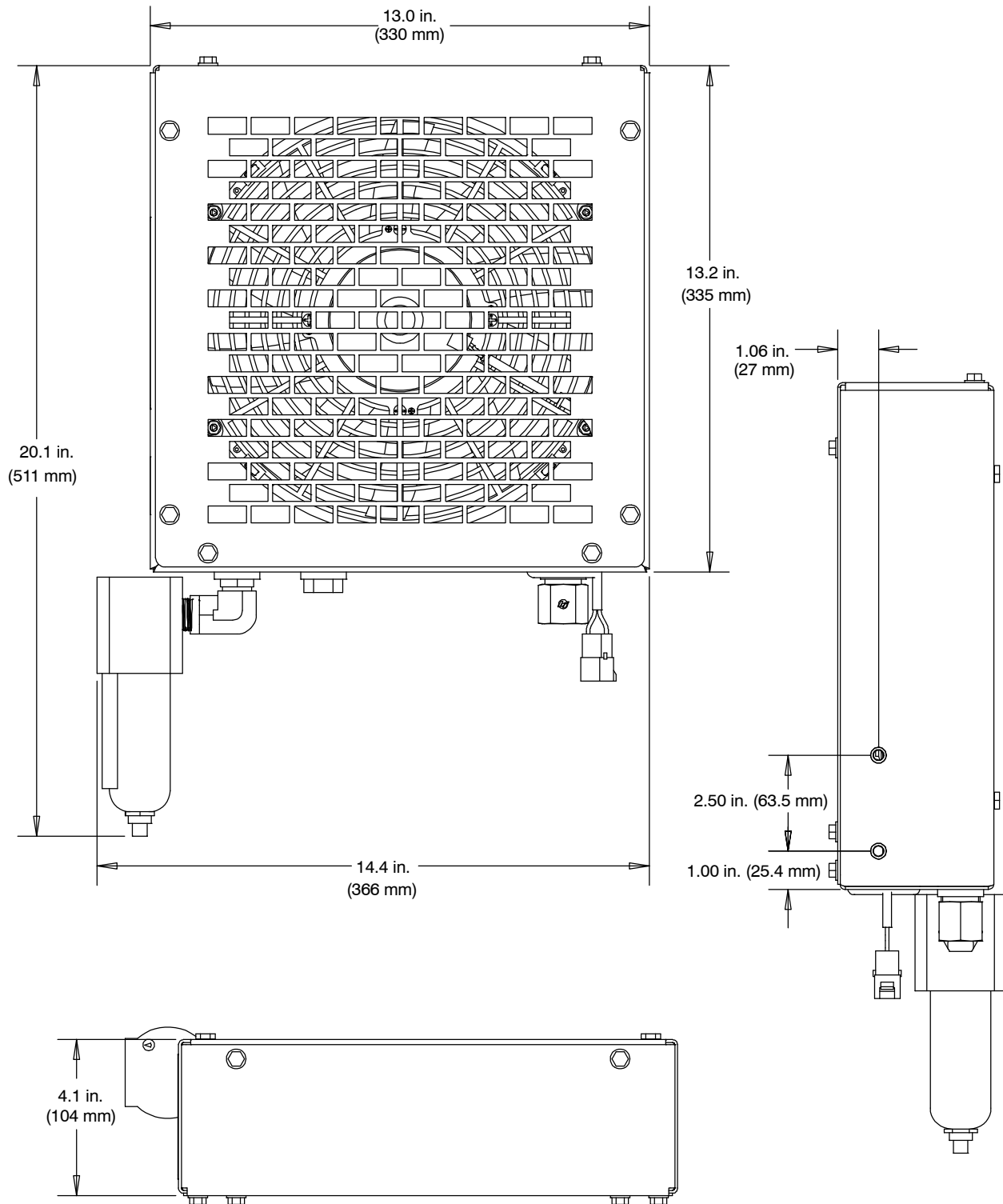


Air Dryer (301488)

1. Safety Symbol Definitions

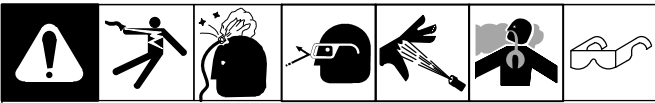
	<p>DANGER! – Indicates a hazardous situation which, if not avoided, will result in death or serious injury. The possible hazards are shown in the adjoining symbols or explained in the text.</p> <p>DANGER ! - Indique une situation dangereuse qui, si elle n'est pas évitée, entraînera la mort ou des blessures graves. Les éventuels risques sont représentés par les symboles joints ou expliqués dans le texte.</p> <p style="text-align: right;"><small>Fsafe1 2013-10</small></p>		<p>Wear safety glasses with side shields. Porter des lunettes de sécurité avec écrans latéraux.</p> <p style="text-align: right;"><small>Fsafe8 2013-10</small></p>
	<p>Indicates a hazardous situation which, if not avoided, could result in death or serious injury. The possible hazards are shown in the adjoining symbols or explained in the text.</p> <p>Indique une situation dangereuse qui, si elle n'est pas évitée, entraînera la mort ou des blessures graves. Les éventuels risques sont représentés par les symboles joints ou expliqués dans le texte.</p> <p style="text-align: right;"><small>Fsafe2 2013-10</small></p>		<p>Release air pressure from tools and system before servicing, adding or changing attachments, or opening compressor oil drain or oil fill cap.</p> <p>Détendre la pression pneumatique des outils et circuits avant d'entretenir, ajouter ou changer des accessoires et avant d'ouvrir le bouchon de vidange ou de remplissage d'huile du compresseur.</p> <p style="text-align: right;"><small>Airsafe1 2013-10</small></p>
<p>NOTICE AVIS</p> 	<p>Indicates statements not related to personal injury. Signale des consignes non associées aux dommages corporels.</p> <p>Indicates special instructions. Fournit des instructions spéciales.</p> <p style="text-align: right;"><small>Fsafe3 2013-10</small></p>	 	<p>Before working on compressed air system, turn off and lock-out/tagout unit, release pressure, and be sure air pressure cannot be accidentally applied. Relieve pressure before disconnecting or connecting air lines. Check compressed air system components and all connections and hoses for damage, leaks, and wear before operating unit. Do not direct air stream toward self or others. Wear protective equipment such as safety glasses, hearing protection, leather gloves, heavy shirt and trousers, high shoes, and a cap when working on compressed air system. Use soapy water or an ultrasonic detector to search for leaks—never use bare hands. Do not use equipment if leaks are found. Reinstall doors, panels, covers, or guards when servicing is finished and before starting unit. If ANY air is injected into the skin or body seek medical help immediately.</p>
	<p>Beware of electric shock from wiring. Disconnect input power before installing this kit. Reinstall all panels and covers.</p> <p>Attention aux décharges électriques au contact des câbles. Couper l'alimentation électrique avant d'installer ce kit. Réinstaller tous les panneaux et couvercles.</p> <p style="text-align: right;"><small>Fsafe7 2013-10</small></p>		<p>Avant d'intervenir sur le circuit d'air comprimé, couper l'alimentation électrique, verrouiller et étiqueter l'appareil, détendre la pression et s'assurer que le circuit d'air ne peut être mis sous pression par inadvertance. Détendre la pression avant de débrancher ou de brancher des canalisations hydrauliques. Avant d'utiliser l'appareil vérifier qu'il n'y a pas de dommages, fuites, usure, des composants du système d'air comprimé et de ses raccordements et boyaux. Ne pas diriger le jet d'air vers soi ou vers d'autres personnes. Lorsque l'on travaille sur un système d'air comprimé, porter un équipement de sécurité, tel que lunettes de sécurité, protection auditive, gants en cuir, chemise et pantalon épais, chaussures de sécurité et un casque.</p>
	<p>Breathing compressed air can injure or kill. Do not use compressed air for breathing. Use only for cutting, gouging, and tools.</p> <p>L'inhalation d'air comprimé risque de provoquer des blessures ou même la mort.</p> <p>Ne pas inhaler d'air comprimé. Utiliser l'air comprimé uniquement pour découper ou gouger ainsi que pour l'outillage pneumatique.</p> <p style="text-align: right;"><small>Airsafe4 2013-10</small></p>		<p>Utiliser de l'eau savonneuse ou un détecteur à ultrasons pour détecter des fuites—ne jamais utiliser les mains nues. Ne pas utiliser l'équipement si l'on a trouvé des fuites. Remettre en place les portes, couvercles, panneaux, protections après avoir fini l'entretien et avant de démarrer l'appareil. Si de l'air est injecté dans la peau ou le corps, contacter immédiatement un médecin.</p> <p style="text-align: right;"><small>Airsafe3 2013-10</small></p>
<p>CALIFORNIA PROPOSITION 65 WARNINGS</p> <p>WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov</p> <p>PROPOSITION CALIFORNIENNE 65 AVERTISSEMENTS</p> <p>AVERTISSEMENT : cancer et troubles de la reproduction – www.P65Warnings.ca.gov.</p> <p style="text-align: right;"><small>Fsafe26 2018-01</small></p>			

2. Air Dryer Dimensions



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3. Mounting The Air Dryer



- Stop engine, and let cool.
- Disconnect battery negative (-) cable.
- Pressure may remain in air dryer system even though gauge reads 0 psi. Release pressure in air dryer system by connecting hose to outlet and waiting for pressure to bleed off.
- Release air pressure and wait ten minutes before beginning installation.

- 1 Mounting Holes (2 On Each Side) 5/16-18 Threaded Insert

Air dryer should be mounted as close as possible to the air compressor. Air dryer must be mounted with connection side facing down.

Use mounting holes to install air dryer. Ensure clearance of 6 in. on both front and back for proper air flow.

Installing Outlet Assembly

- 2 Outlet Assembly
- 3 Fitting Nut

Spin on outlet assembly until nut contacts air dryer body.

Back out the outlet assembly to achieve desired orientation.

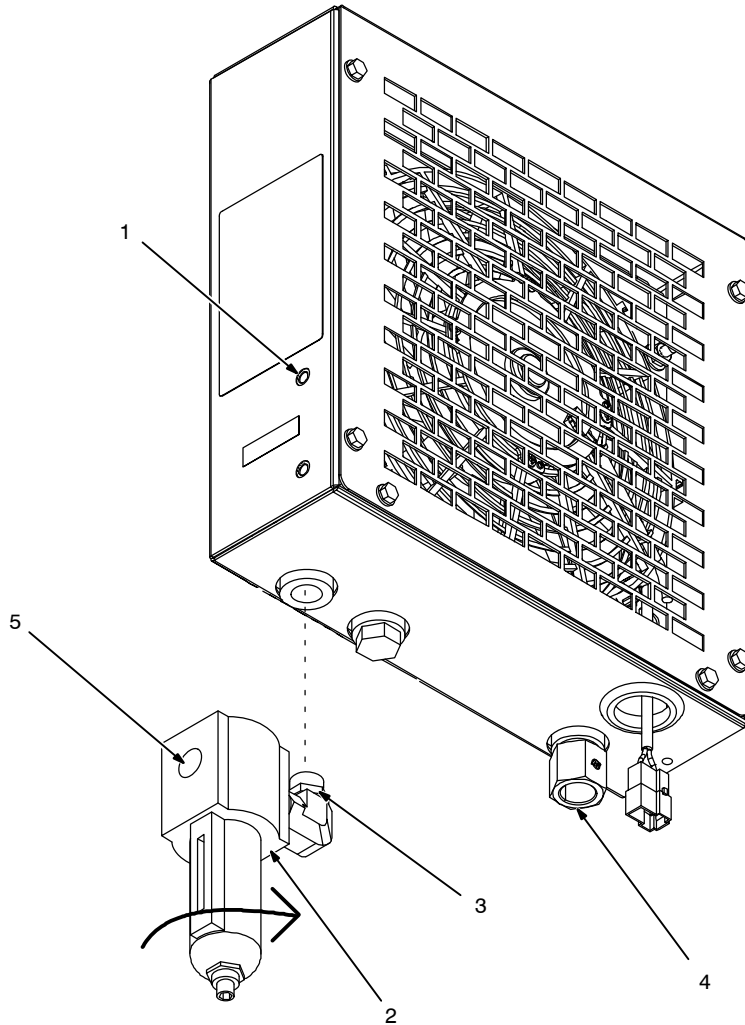
Tighten fitting nut to 40 ft lb to seat o-ring.

Making Pneumatic Connections

- 4 Inlet Location - 1/2 in. NPT
- 5 Outlet Location - 1/2 in. NPT

Ensure that air compressor hoses are long enough to reach from compressor outlet to air dryer mounting location. Use the shortest hoses possible to reduce condensation.

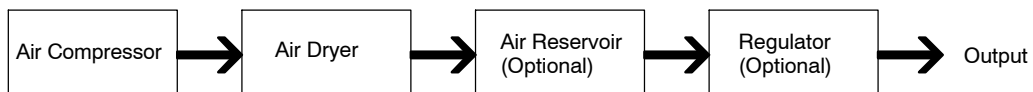
Install air hoses from compressor outlet to air dryer inlet.



Tools Needed:

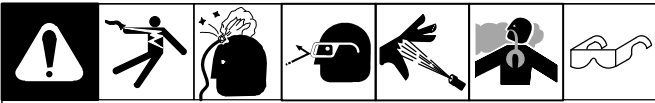


Connect components in the order shown.



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4. Making Electrical Connections For EnPak A28 GBW And Bobcat 200 Air Pak



⚠ Have only qualified persons make electrical connections.

Remove welder/generator left side panel.

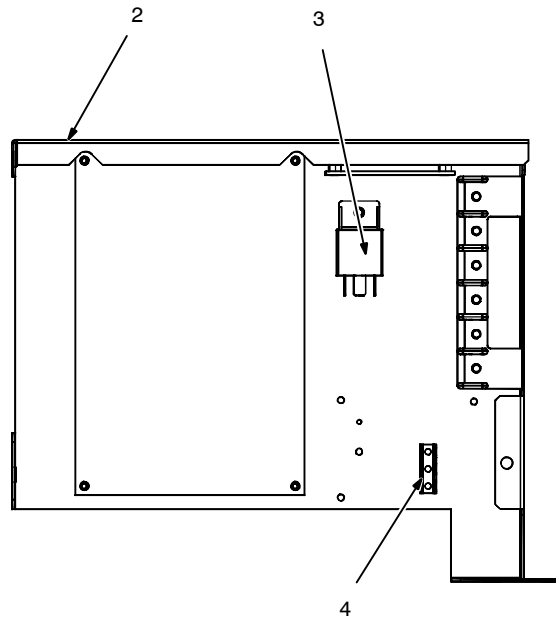
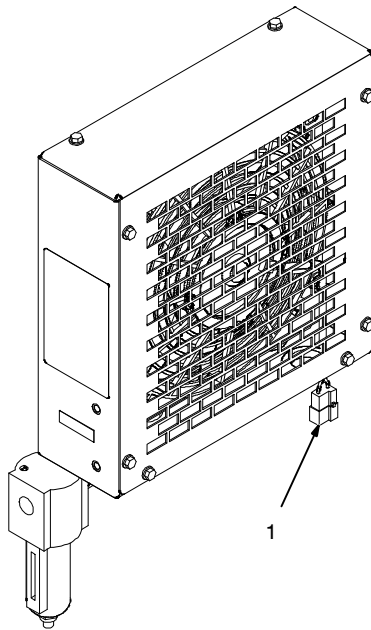
- 1 Air Dryer Plug
- 2 Welder/Generator Control Box
- 3 Relay CR1
- 4 Ground Terminal Strip

Use supplied terminals and customer-supplied 16 gauge wire to connect red lead from fan to lead 61 piggyback faston at relay CR1 in unit control box. Connect black wire from fan to lead 42F at ground terminal strip.

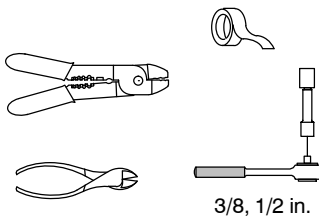
If unit does not have piggyback fastons, splice leads in with supplied connectors.

Route wires through access hole. Secure with cable ties.

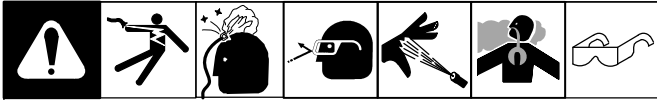
Wrap air dryer plug with electrical tape to protect connections.



Tools Needed:



5. Making Electrical Connections For EnPak A30 Diesel And Gas And Bobcat 200 Air Pak Diesel And Gas



⚠ Have only qualified persons make electrical connections.

Remove welder/generator left side panel.

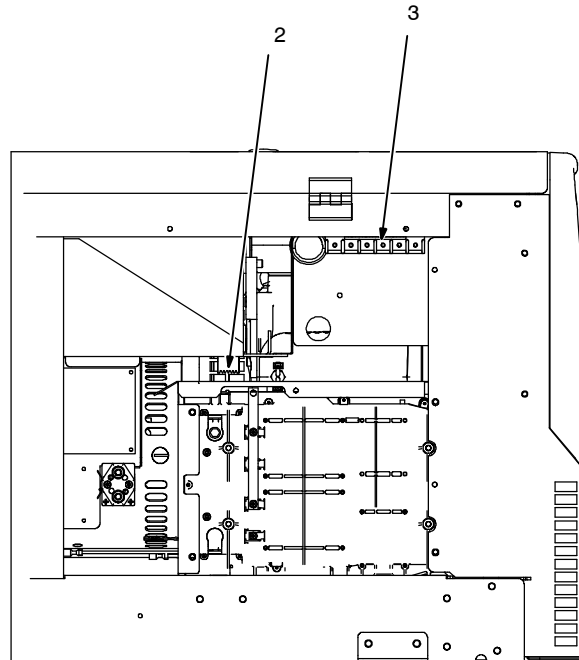
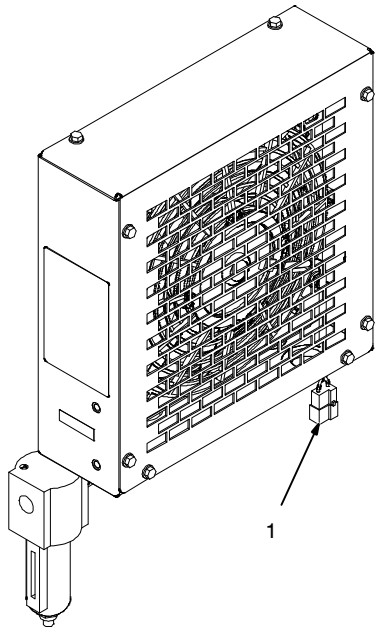
- 1 Air Dryer Plug
- 2 Clutch Connection
- 3 Ground Terminal Strip

Use supplied terminals and customer-supplied 16 gauge wire to connect red lead from fan to lead 61 from clutch connection. Connect black wire from fan to lead 42E at ground terminal strip.

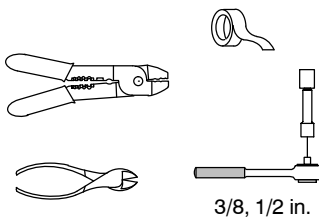
If unit does not have piggyback fastons, splice leads in with supplied connectors.

Route wires through access hole. Secure with cable ties.

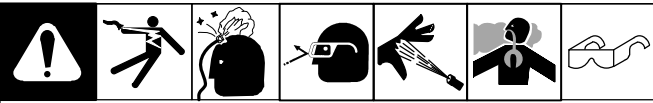
Wrap air dryer plug with electrical tape to protect connections.



Tools Needed:



6. Making Electrical Connections For EnPak A60



⚠ Have only qualified persons make electrical connections.

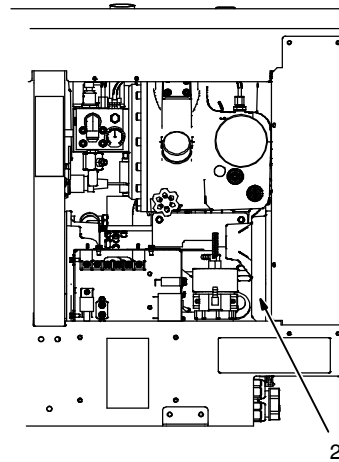
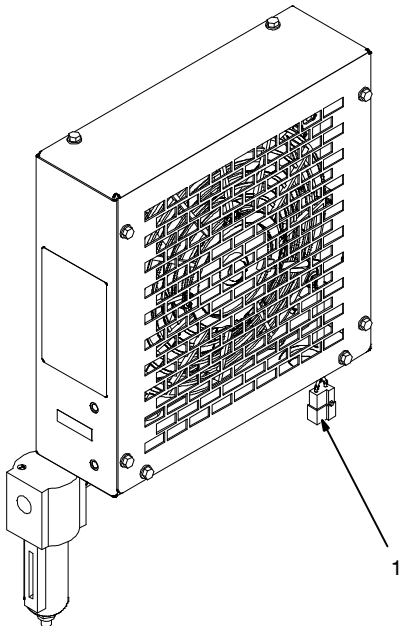
- 1 Air Dryer Plug
- 2 Compressor Clutch

Remove service door. Locate clutch connector. Cut leads 61 and 42 coming out of clutch connector and strip 0.375 in. at the ends.

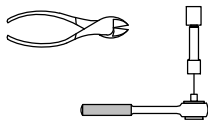
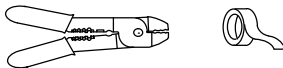
Use supplied terminals and customer-supplied 16 gauge wire to connect red lead from fan to leads 61 from clutch connection. Connect black wire from fan to leads 42 from clutch connection. See diagram below.

Route wires through ground wire route hole. Secure with cable ties.

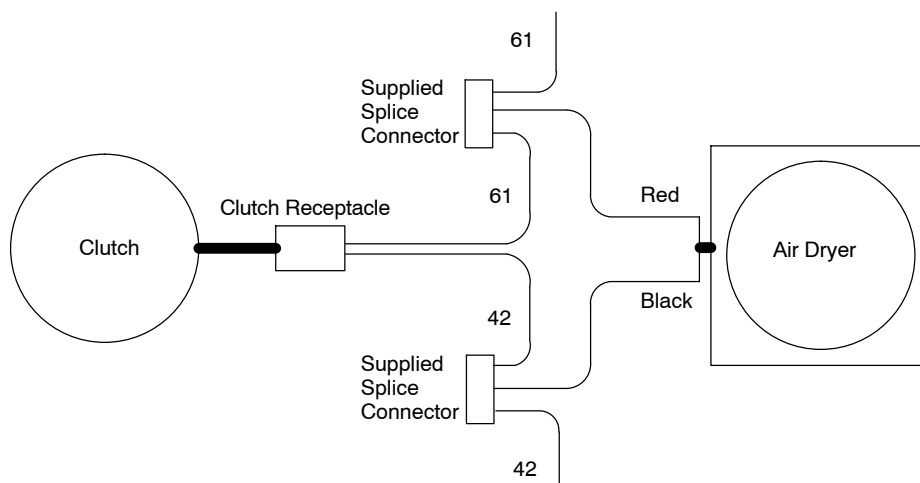
Wrap air dryer plug with electrical tape to protect connections.



Tools Needed:



3/8, 1/2 in.



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7. Making Electrical Connections For Big Blue Air Paks



⚠ Have only qualified persons make electrical connections.

- 1 Air Dryer Plug
- 2 Compressor Clutch

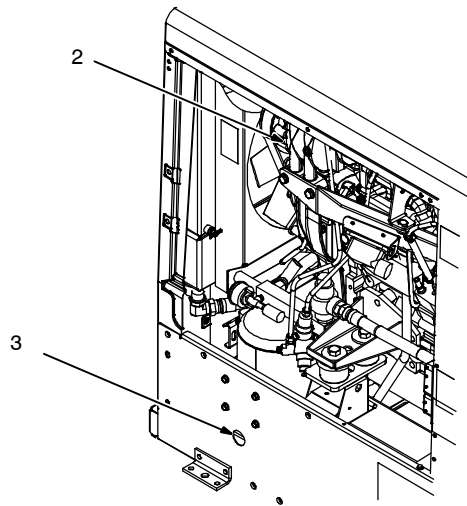
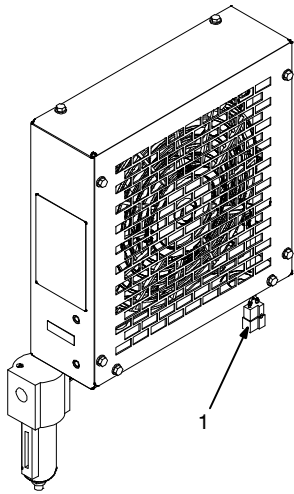
Remove unit top cover and left rear side panel. Locate clutch connector. Cut leads 165 and 42 coming out from clutch connector and strip 0.375 in. at the ends.

Use supplied terminals and customer-supplied 16 gauge wire to connect red lead from fan to leads 165 from clutch connection. Connect black wire from fan to leads 42 from clutch connection. See diagram below.

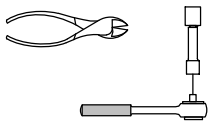
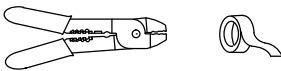
- 3 Air Access Hole

Route wires through air access hole. Secure with cable ties.

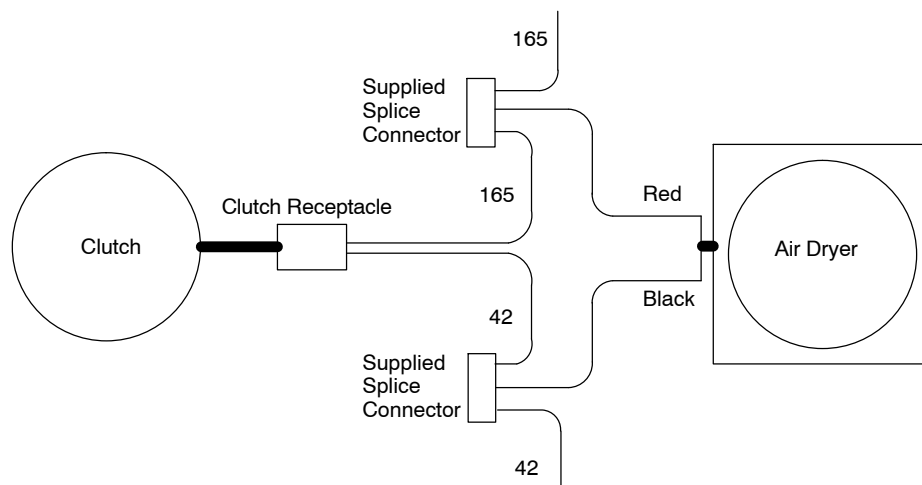
Wrap air dryer plug with electrical tape to protect connections.



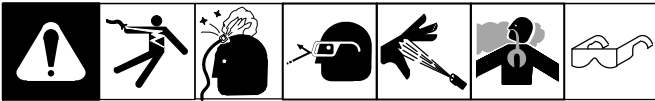
Tools Needed:



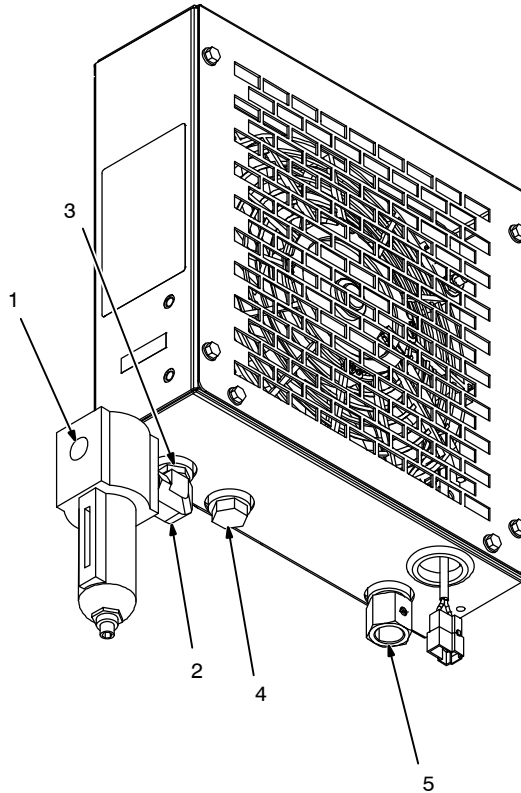
3/8, 1/2 in.



8. Operation



Specifications	
Operating Pressure Range:	0 to 200 psi
Operating Flow Range:	0 to 60 CFM



NOTICE – Air dryer must be bypassed when ambient temperature is below 32°F (0°C).

- 1 Air Outlet
- 2 Elbow Fitting
- 3 Nut
- 4 Recessed Plug
- 5 Air Inlet

Replace air dryer filter (separator) element annually or when air dryer output is too low. See Section 9.

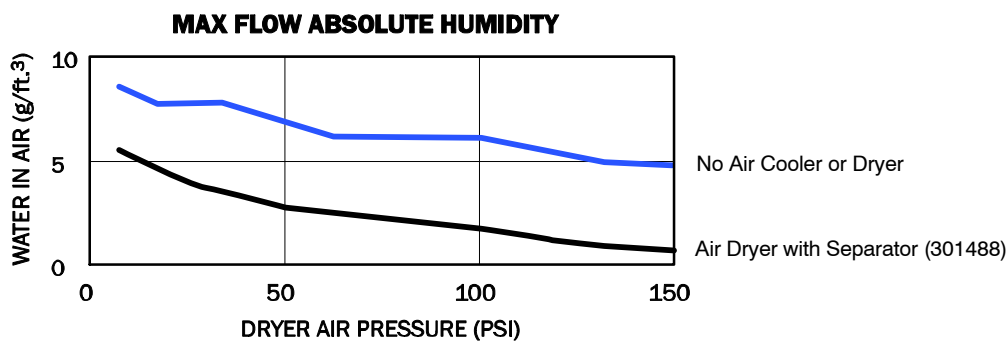
For best results, maintain air pressure in air dryer when using compressed air. Air dryer pressure helps “squeeze” the water from the compressor air. Pressure in the air dryer may drop if there is no equipment connected to the dryer, or if the connected equipment provides little restriction in the downstream air line (open air line). Plasma cutting and CAC-A torches provide enough restriction (load) for proper dryer performance.

Cold Weather Operation

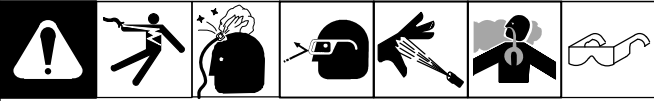
Water condensate in the cooler or separator can freeze in temperatures below 32°F (0°C), causing reduced or blocked airflow.

To improve cold weather operation, remove water from separator bowl after each use of the compressor. Additionally, the separator filter element can be removed to prevent the filter element from clogging with ice.

If freezing occurs in the cooler, disconnect air dryer from the air system.



9. Replacing Air Dryer Filter (Separator)



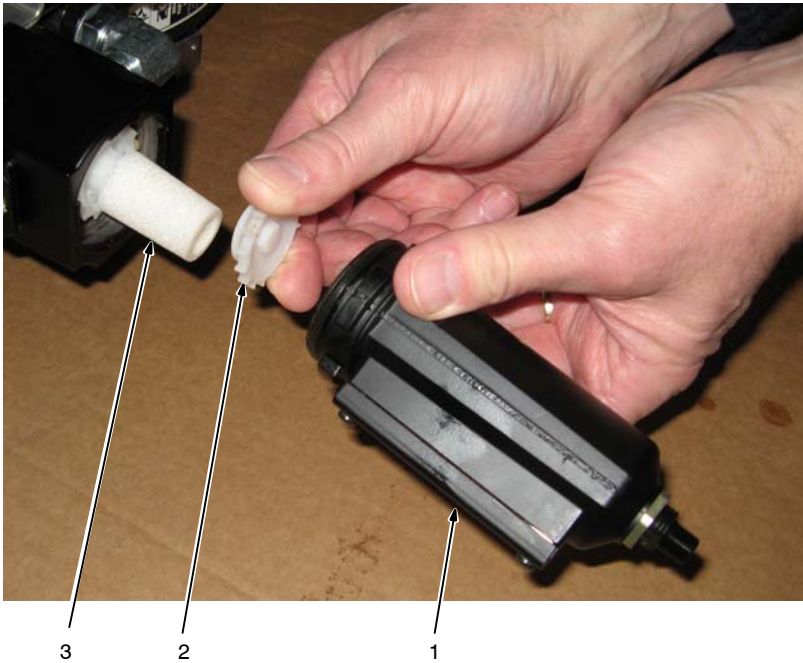
- ⚠ Stop engine, and let cool.**
- ⚠ Disconnect battery negative (-) cable.**
- ⚠ Pressure may remain in air dryer system even though gauge reads 0 psi. Release pressure in air dryer system by connecting hose to outlet and waiting for pressure to bleed off.**

Replace filter annually or when air dryer output is too low.

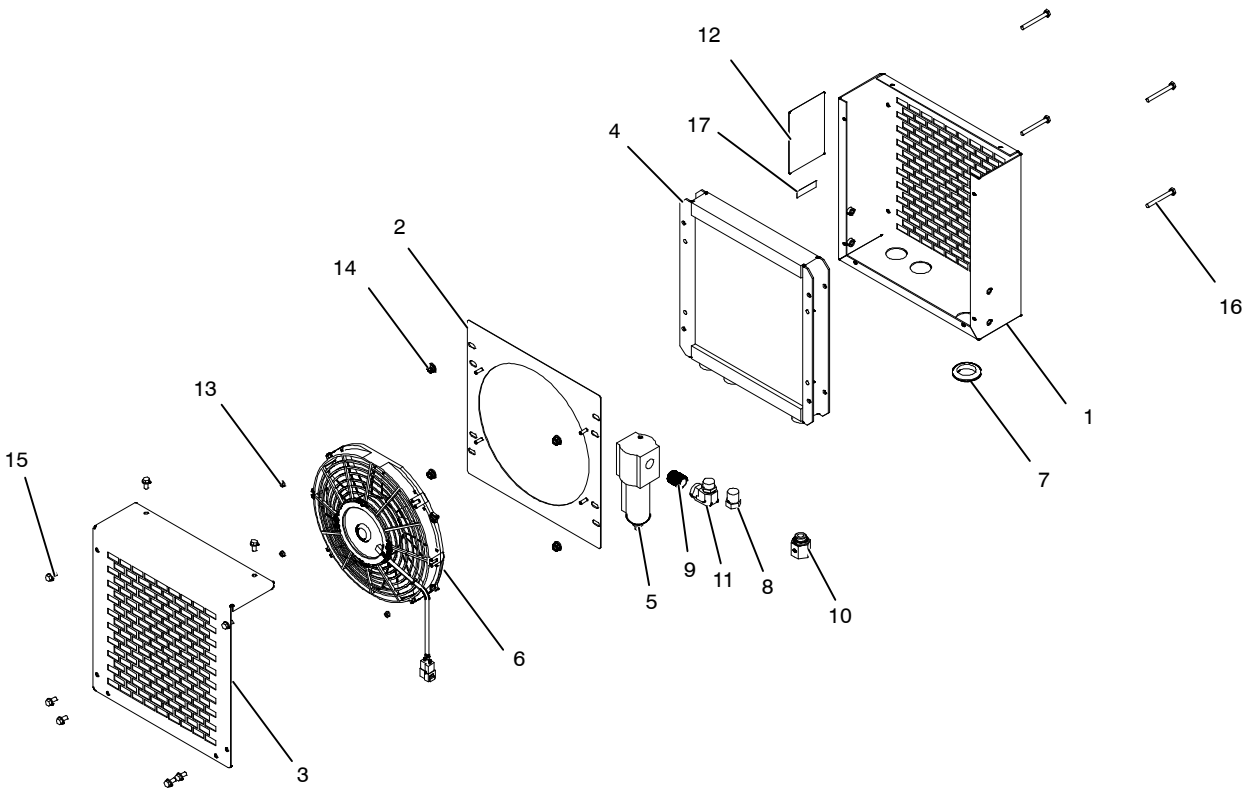
- 1 Bowl
- 2 Collar
- 3 Filter Element

To replace filter, push up and turn bowl bowl 1/4 turn counterclockwise. Unscrew collar and remove filter.

Install new filter and reinstall collar and bowl.



10. Parts List



301488

Item No.	Part No.	Description	Quantity
301488 – Air Dryer			
...	1	Enclosure, Base	1
...	2	Shroud	1
...	3	Enclosure, Top	1
...	4	Radiator, 12.25 X 12.5 X 1.63 SAE Female Ports	1
...	5	Filter, Air Dryer 1/2in	1
...	203877	Element, Filter 5 Micron	1
...	6	Fan, Air Cooler 10.500 In Dia	1
...	7	Grommet, Rbr 1.250 Id X 1.500 Mtg Hole .063 Groove	1
...	8	Plug, Recessed 1/2in SAE	1
...	9	Ftg, Nipple Close 1/2 NPT(M) X 1/2 NPT(M) X 1.13l	1
...	10	Ftg, 1/2 Orb Male X 1/2 NPTF Female	1
...	11	Ftg, Elbow 90 Deg 1/2in M SAE Swvl X 1/2in F NPT	1
...	12	Label, Warning Compressed Air	1
...	13	Nut, 010–32 .31hex .13h Stl Pld Sem Cone Wshr.38d	4
...	14	Nut, 250–20 .44hex .23h Stl Pld Sem Cone Wshr.65d	4
...	15	Screw, 250–20x .50 Hexwhd.50d Stl Pld Slffmg Tap–Rw	8
...	16	Screw, 250–20x2.25 Hex Hd–Pln Stl Pld	4
...	17	Label, Maximum Pressure 200 Psi	1
...	240686	Conn, Lever 3 Wire 12–28 Gauge 600V 20A	2
...	072325	Term, Frict 250x032 Ultrafast Feml 16–14ga 160od	4

+ When ordering a component originally displaying a precautionary label, the label should also be ordered.

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.