

CONTROLLER REPLACEMENT

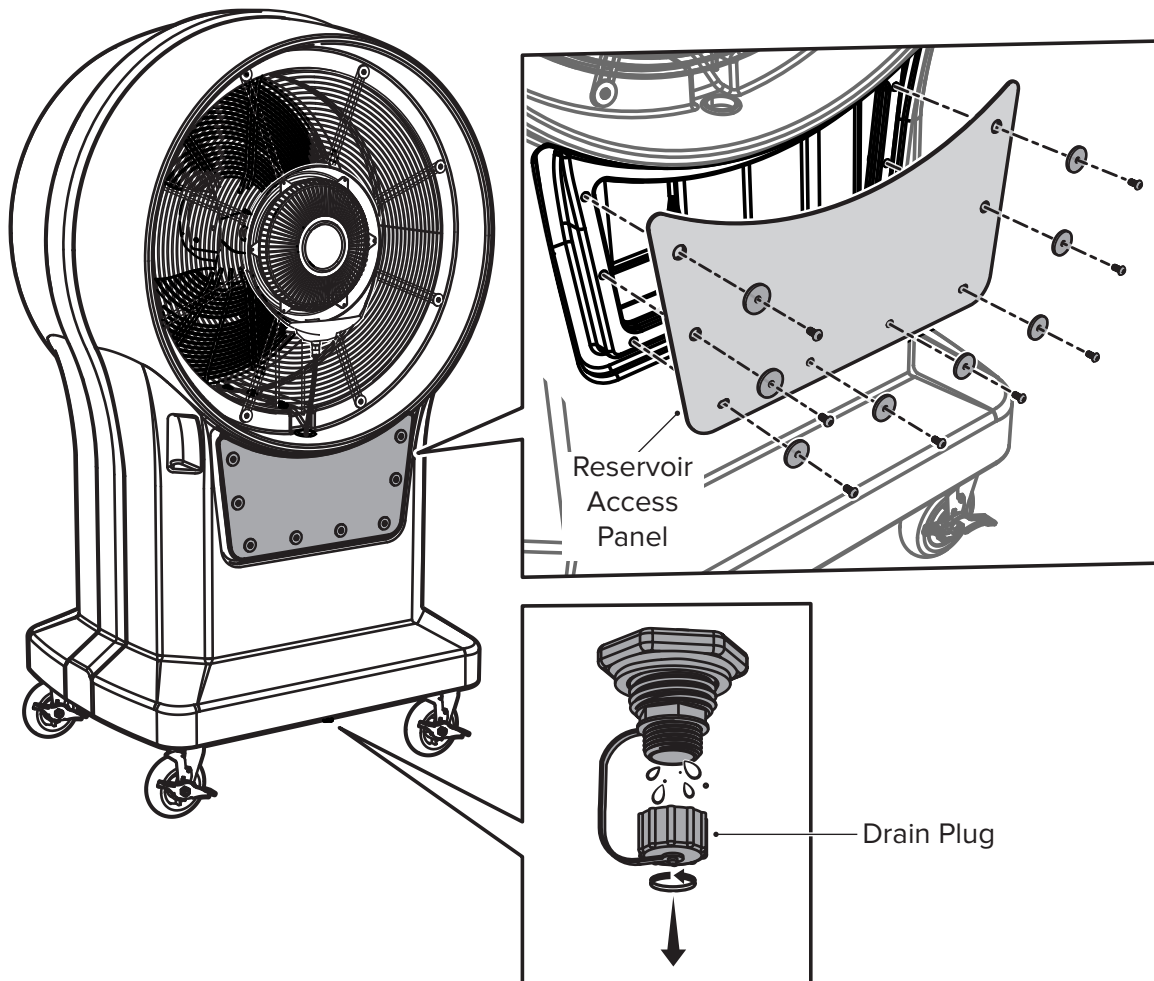
TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

- ⚠ **WARNING: ELECTRICAL SHOCK HAZARD.** Disconnect the power supply before performing service or maintenance. Failure to do so may result in serious injury or death.
- ⚠ **WARNING:** Make sure casters are locked before performing service or maintenance.
- ⚠ **WARNING:** When service or replacement of a component in the fan requires the removal or disconnection of a safety device, the safety device is to be reinstalled or remounted as previously installed.
- ⚠ **CAUTION:** The Big Ass Fans product warranty will not cover equipment damage or failure that is caused by improper installation or use.

1. Drain reservoir and remove access panel

Remove drain plug from bottom of fan (*Fig. 1*). Allow water to drain, and then reinstall drain plug. **Do not tilt fan to remove or reinstall drain plug.** Remove reservoir access panel from front of fan (eight screws and washers, *Fig. 1*). **Save screws and washers for reinstallation.**

Fig. 1



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2. Disconnect mister wiring harnesses and water lines

Disconnect four-pin mister wiring harness from four-pin harness inside access panel opening (Fig. 2.1). Locate pump assembly at bottom of reservoir. Note its location and orientation for reinstallation (Fig. 2.2).

Carefully lift pump assembly out of access panel opening and allow to hang out of opening (Fig. 2.3). Cut zip tie securing filter bag around pump assembly. Remove filter bag and **save for reinstallation**. Disconnect water supply line from top of pump assembly by pushing in on line and then pulling line out of pump fitting (Fig. 2.4).

Fig. 2.1: Disconnect wiring harnesses

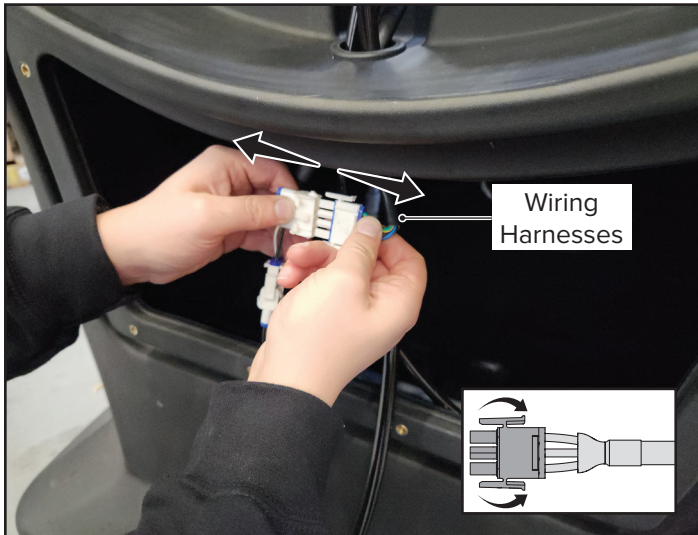


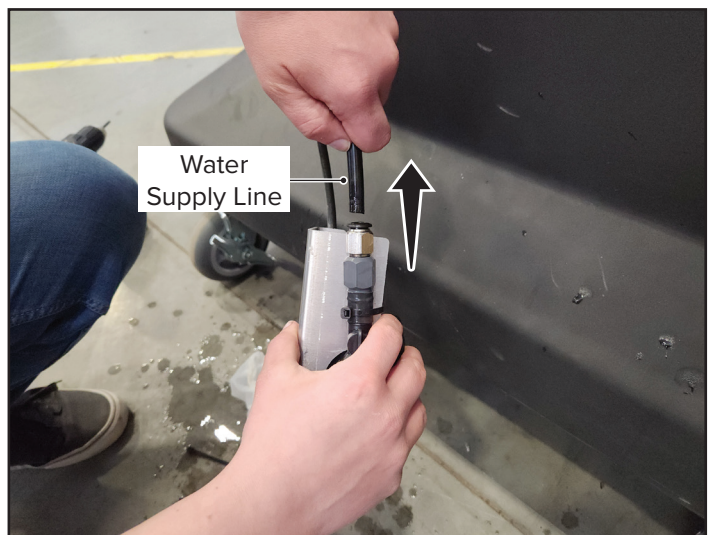
Fig. 2.2: Locate pump assembly



Fig. 2.3: Remove pump assembly



Fig. 2.4: Disconnect supply line



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Remove zip tie securing mister drain line to water supply line (Fig. 2.5). Disconnect drain line from bottom of mister by pushing in on line and then pulling line out of fitting (Fig. 2.6). **Save drain line for reinstallation.**

Pull four-pin mister power cable up and out of reservoir through cable hole (Fig. 2.7). Disconnect three-pin pump/mister wiring harness from pump assembly wiring harness inside access panel opening (Fig. 2.8). **Set disconnected pump assembly aside in a safe location for reinstallation.**

Fig. 2.5: Remove drain line zip tie

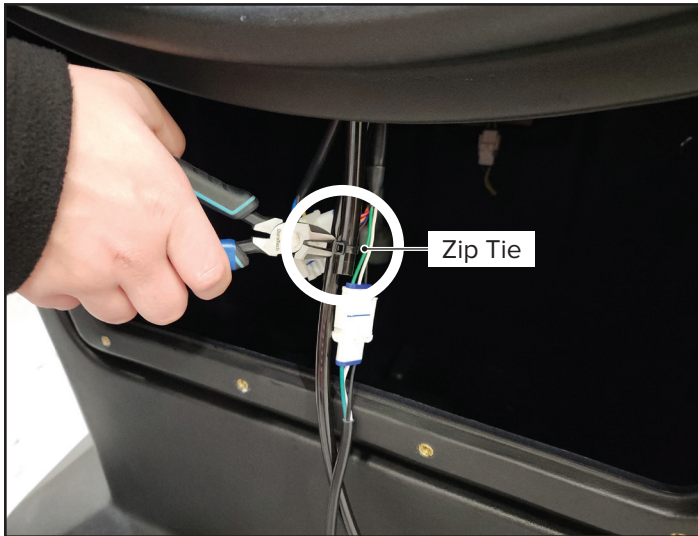


Fig. 2.6 Disconnect and save drain line

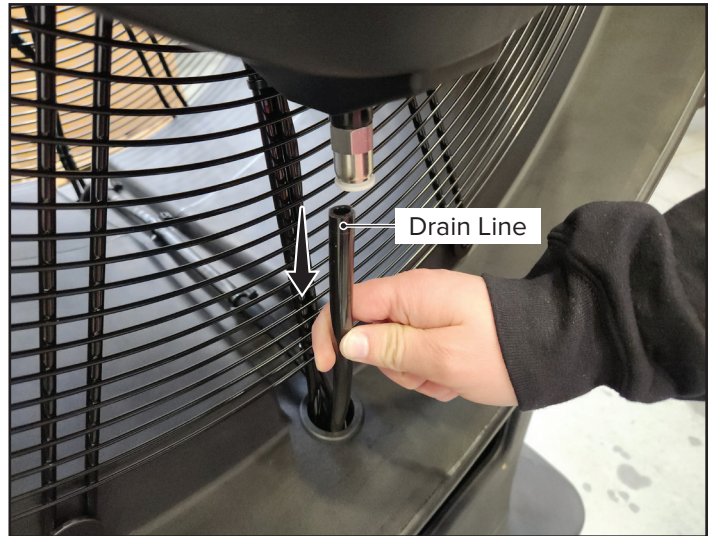


Fig. 2.7: Pull mister cable out of reservoir

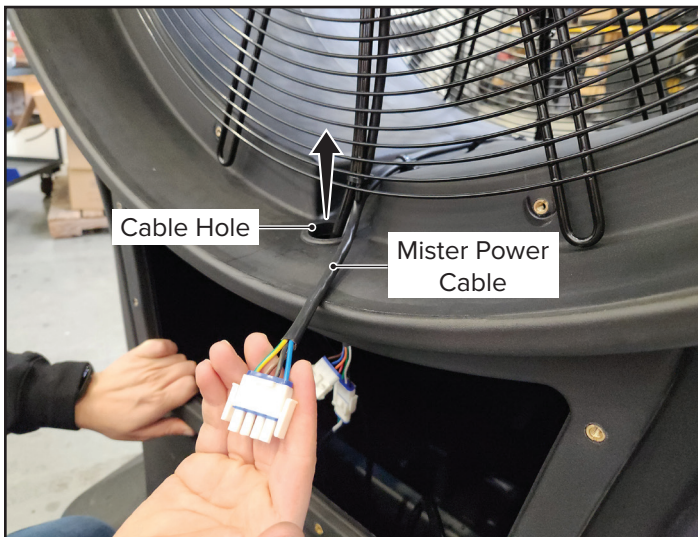
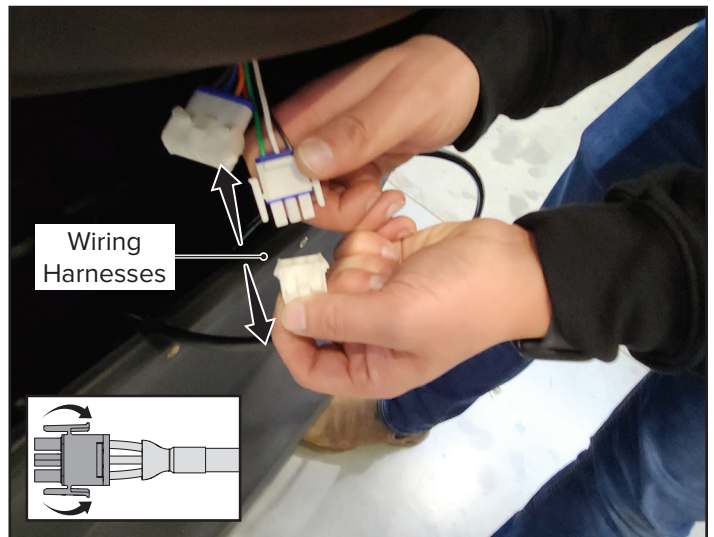


Fig. 2.8: Disconnect wiring harnesses



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3. Remove front guard/mister assembly



Front guard/mister assembly is heavy. Two people are recommended for this step.

Remove seven of the eight front guard screws and washers, leaving one top screw and washer loosely in place (Fig. 3.1). **While supporting front guard/mister assembly** (two people recommended), remove remaining screw and washer, and then remove front guard/mister assembly from fan housing (Fig. 3.2). **Save screws and washers for reinstallation.**

Fig. 3.1



Fig. 3.2



4. Remove controller screws

Remove and **discard** the four controller screws (Fig. 4.1). Carefully pull controller out of fan and allow to hang out of opening (Fig. 4.2).

Fig. 4.1



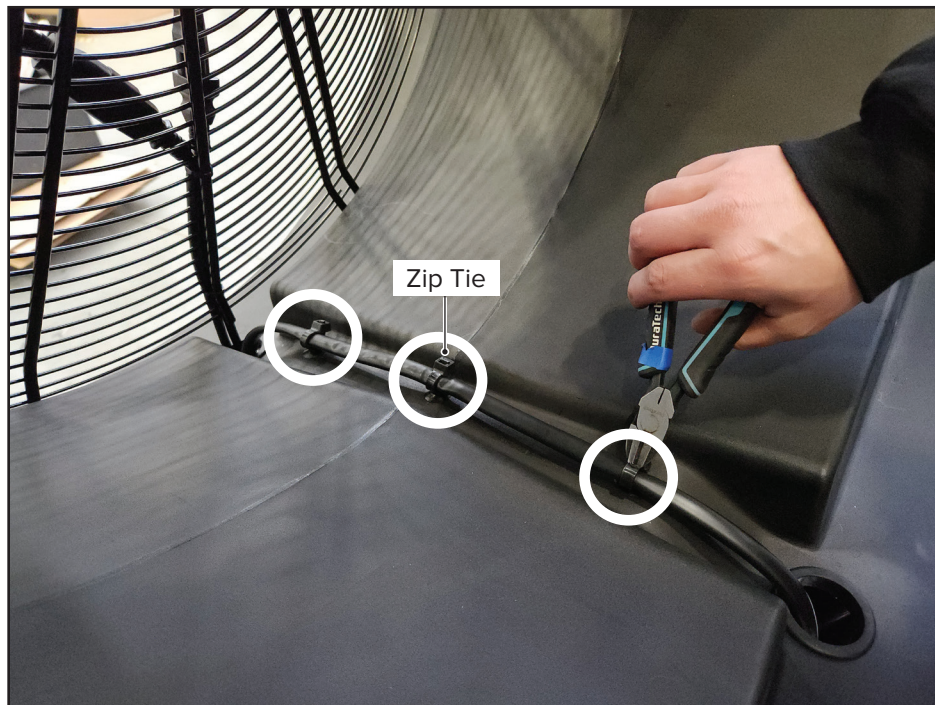
Fig. 4.2



5. Remove zip ties

Remove the three zip ties securing pump/mister cable to inside of fan housing (Fig. 5.1).

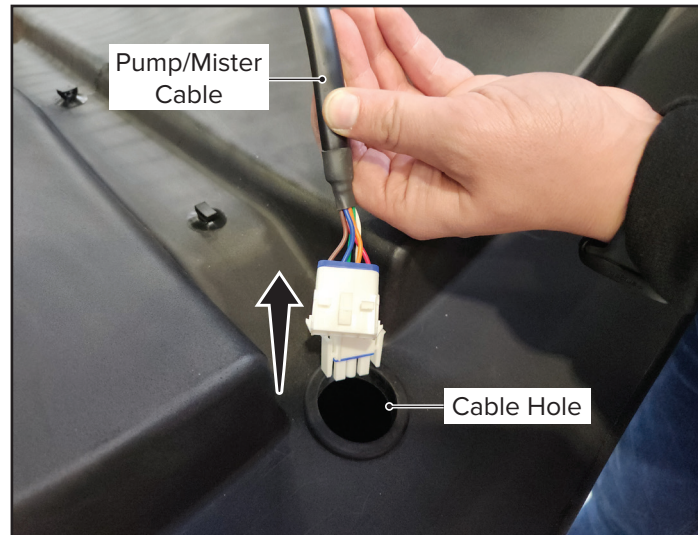
Fig. 5.1



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Pull pump/mister cable up and out of reservoir through cable hole (Fig. 5.2).

Fig. 5.2



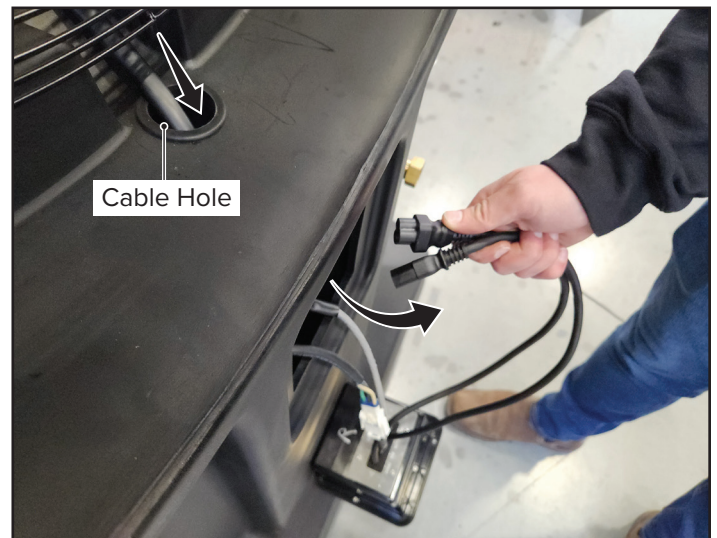
6. Disconnect motor cables

Note location of the zip tie securing the two controller cables to rear guard, and then remove the zip tie (Fig. 6.1). Unplug the two controller cables from the two motor cables, and then pull them down through cable hole and out of controller opening (Fig. 6.2).

Fig. 6.1: Remove zip tie



Fig. 6.2: Pull cables out of opening



7. Remove controller

Pull pump/mister cable out of fan through cable hole and controller opening (Fig. 7.1). Disconnect controller power cable wiring harness (labeled “PWR” on back of controller) (Fig. 7.2) and remove controller from fan.

Fig. 7.1: Remove pump/mister cable

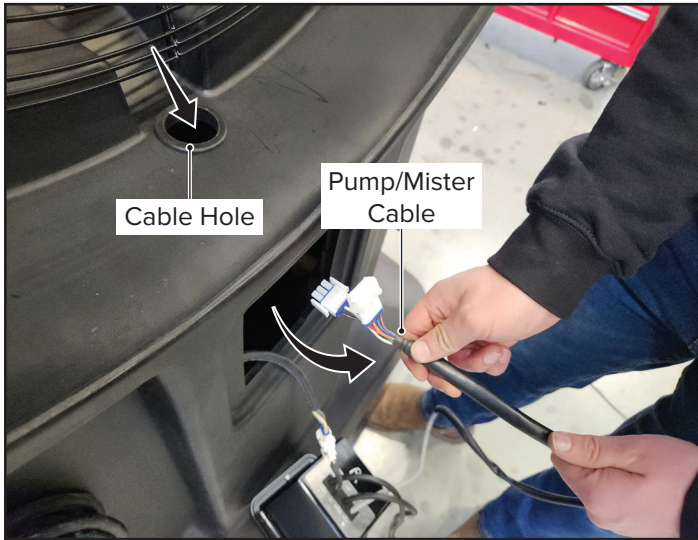
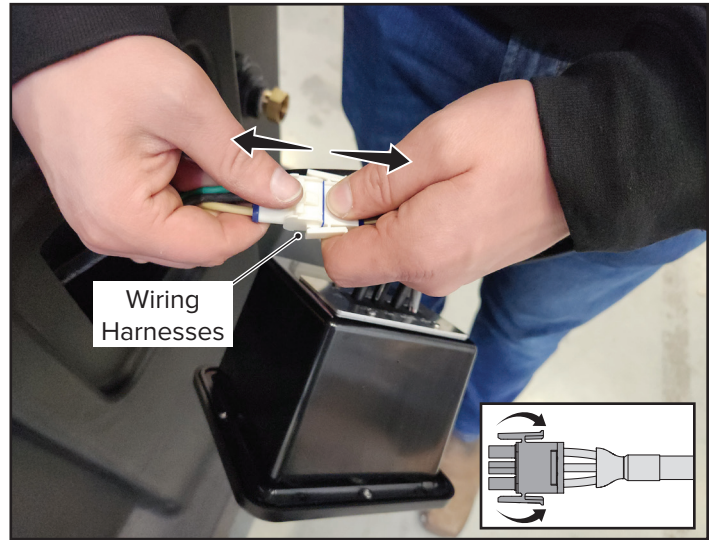


Fig. 7.2: Disconnect power cable



8. Install new controller

Connect power cable wiring harness on new controller (labeled “PWR” on back of controller) to three-pin harness inside controller opening (Fig. 8.1). Route pump/mister cable on new controller (two wiring harnesses, labeled “PUMP” on back of controller) into controller opening, through cable hole, under rear guard, and into fan (Fig. 8.2, Fig. 8.3). Route the two cables labeled “COMM” and “MOTOR” on back of controller into controller opening and through cable hole. Plug into motor cables (Fig. 8.4). Insert controller into opening and secure with the four provided screws (Fig. 8.5). Secure motor cables to rear guard with zip tie in same location as original zip tie (Fig. 8.6). Trim zip tie.

Fig. 8.1: Connect power cable

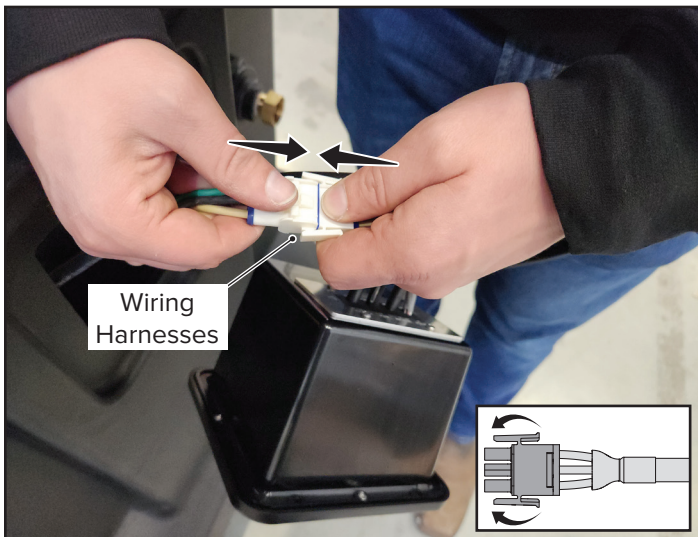
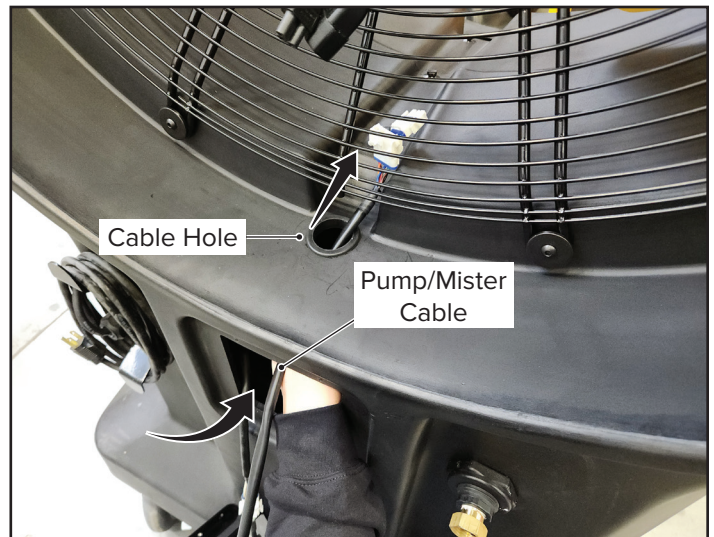


Fig. 8.2: Route pump/mister cable



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Fig. 8.3: Route pump/mister cable

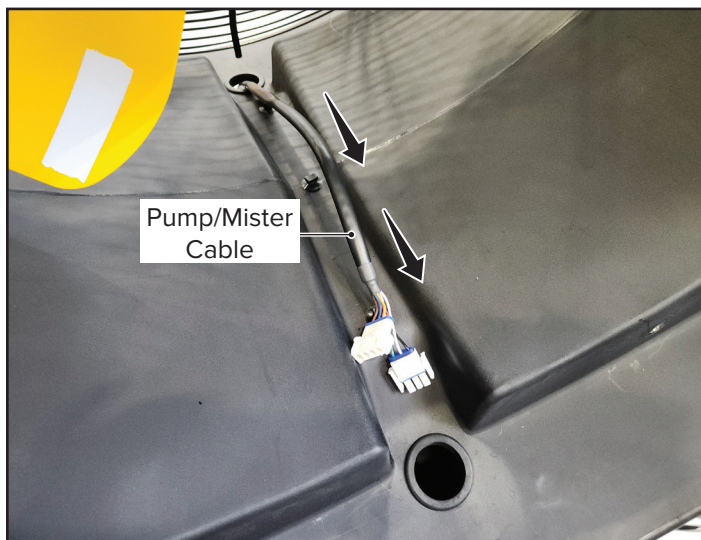


Fig. 8.4: Route and plug in motor cables

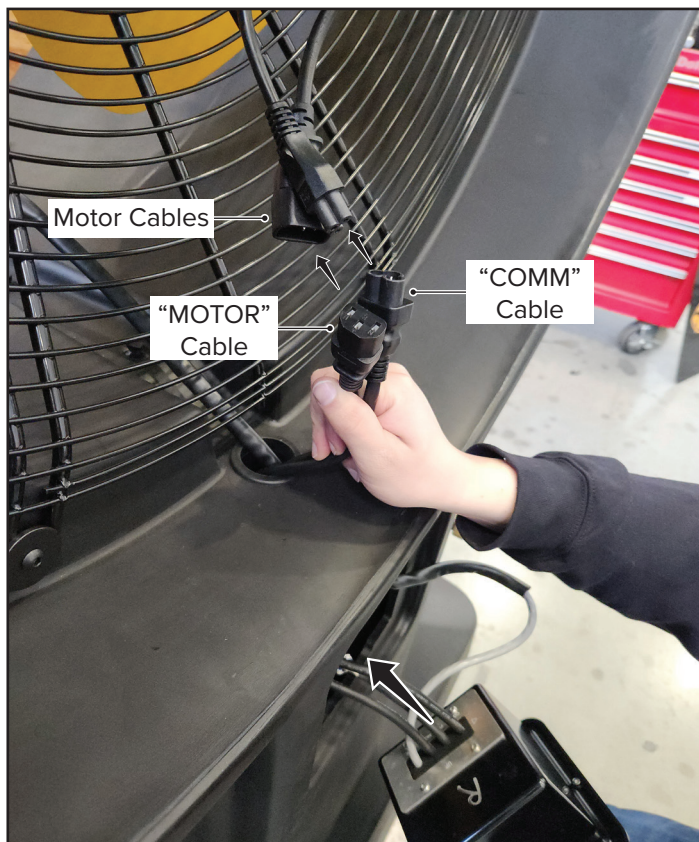
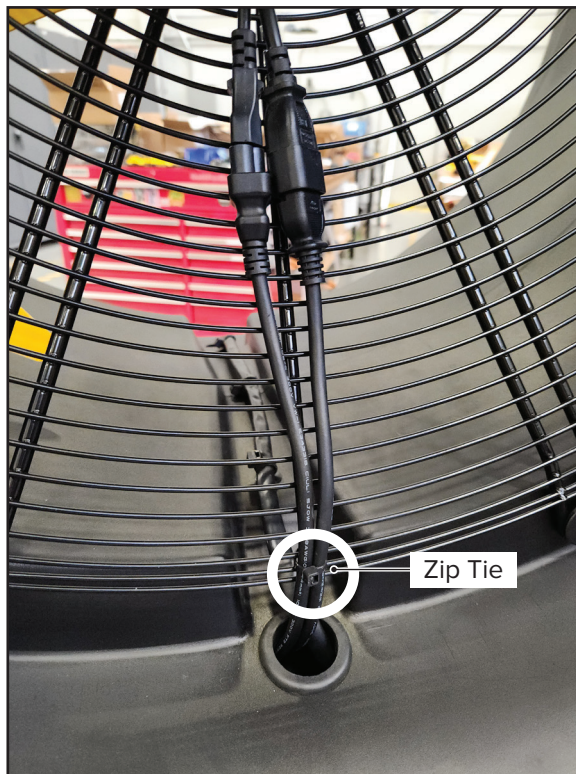


Fig. 8.5: Secure new controller



Fig. 8.6: Secure motor cables



9. Route and connect pump/mister cable

Route pump/mister cable through fan and into reservoir through front cable hole (Fig. 9.1). Allow the two wiring harnesses to hang into reservoir approximately halfway down the access panel opening (Fig. 9.2). Make sure the three zip tie mounts inside fan are still seated properly in fan housing, and insert zip ties into the mounts (Fig. 9.3). Secure zip ties around pump/mister cable (Fig. 9.4), and then trim zip ties.

Fig. 9.1: Route pump/mister cable

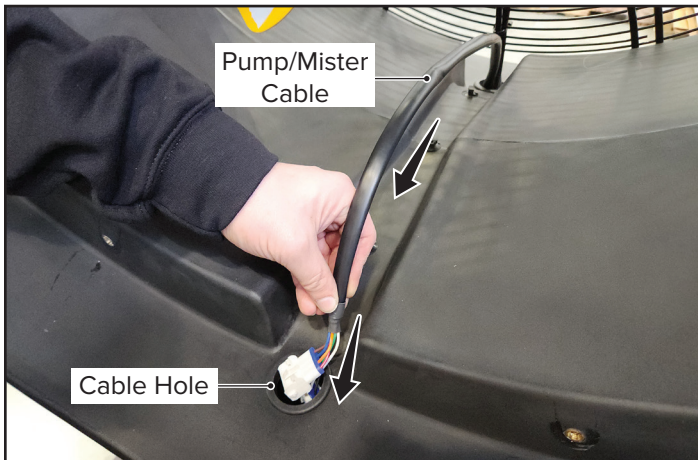


Fig. 9.2: Position pump/mister cable



Fig. 9.3: Insert zip ties

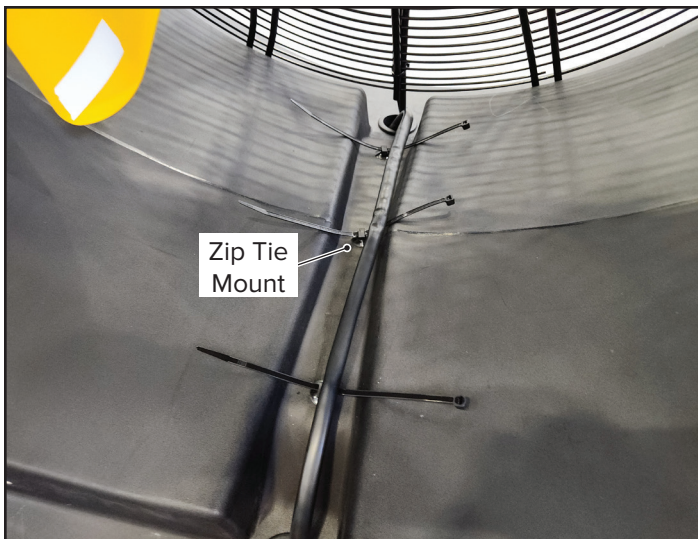
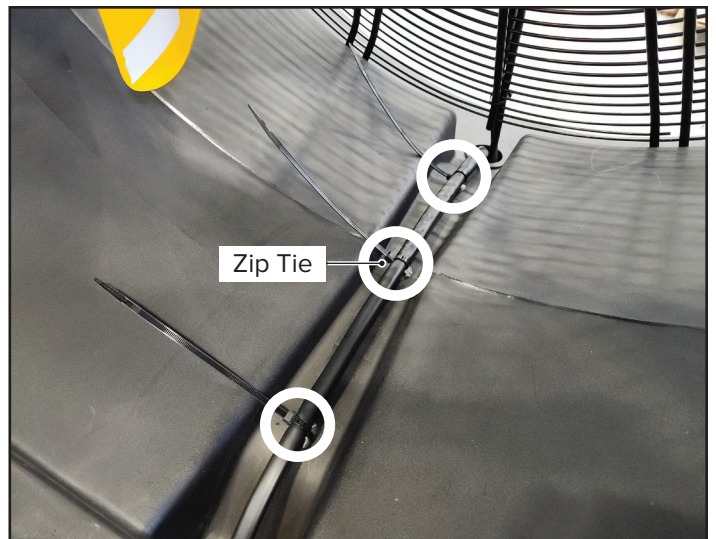


Fig. 9.4: Secure pump/mister cable



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10. Reinstall front guard/mister assembly



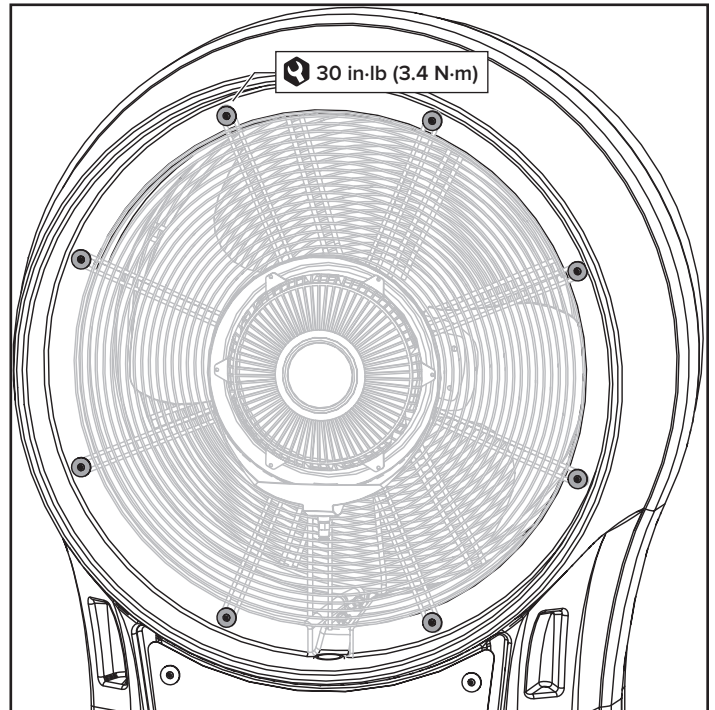
Front guard/mister assembly is heavy. Two people are recommended for this step.

While supporting front guard/mister assembly (two people recommended), loosely reinstall assembly to fan housing with one top screw and washer (*Fig. 10.1*), and then loosely install remaining seven screws and washers. After all screws are loosely installed, tighten to **30 in-lb (3.4 N-m)** (*Fig. 10.2*).

Fig. 10.1



Fig. 10.2



11. Connect wiring harnesses and water lines

Route mister power cable (*Fig. 11.1*) and water supply line (*Fig. 11.2*) into reservoir through cable hole.

Connect mister wiring harness to four-pin pump/mister cable harness inside access panel opening (*Fig. 11.3*).

Rest pump assembly on the ground next to unit. Connect three-pin pump/mister wiring harness to pump assembly wiring harness (*Fig. 11.4*).

Connect saved drain line to bottom of mister by pushing line into fitting (*Fig. 11.5*). Route drain line into reservoir through cable hole and secure to water supply line with a zip tie (*Fig. 11.6*).

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Fig. 11.1: Route mister cable into reservoir

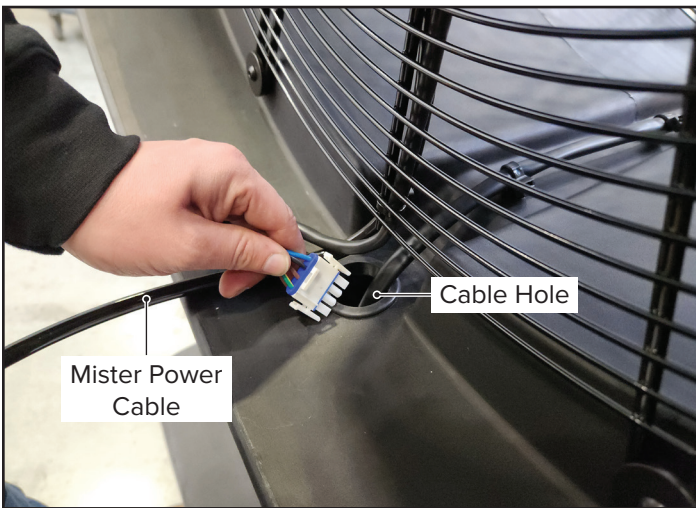


Fig. 11.2: Route supply line into reservoir

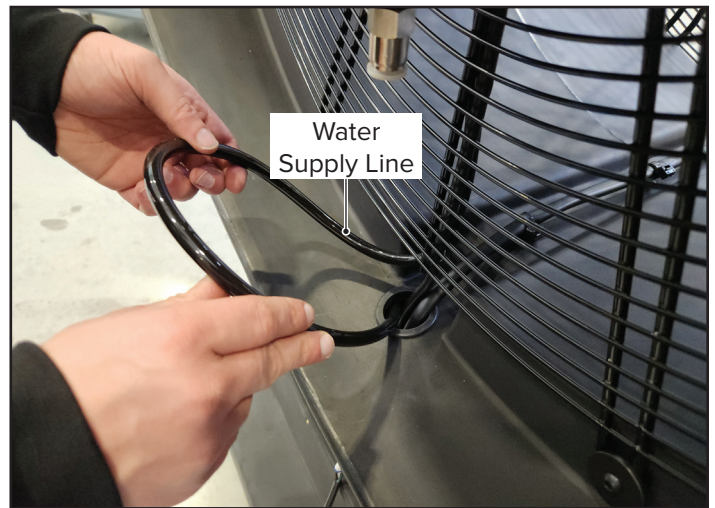


Fig. 11.3: Connect wiring harnesses

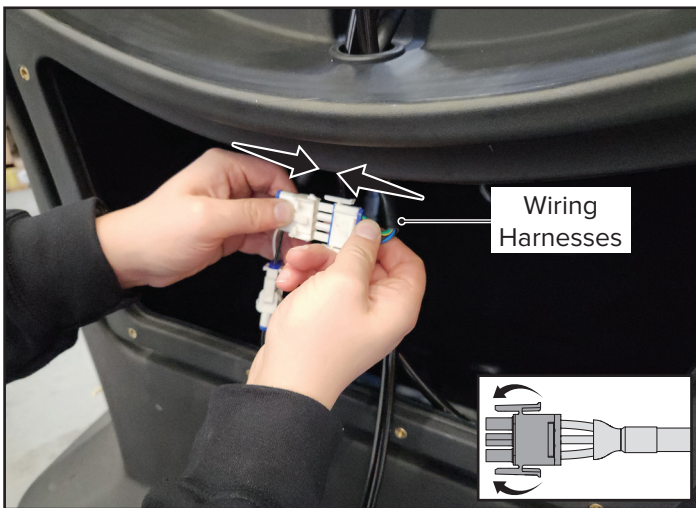


Fig. 11.4: Connect wiring harnesses

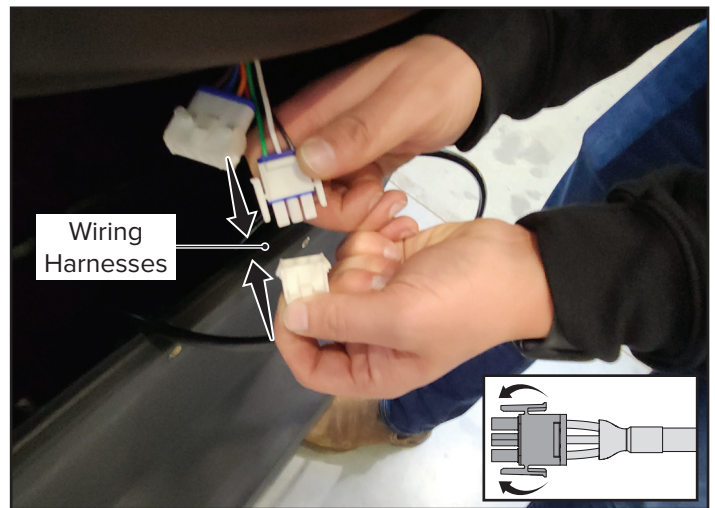
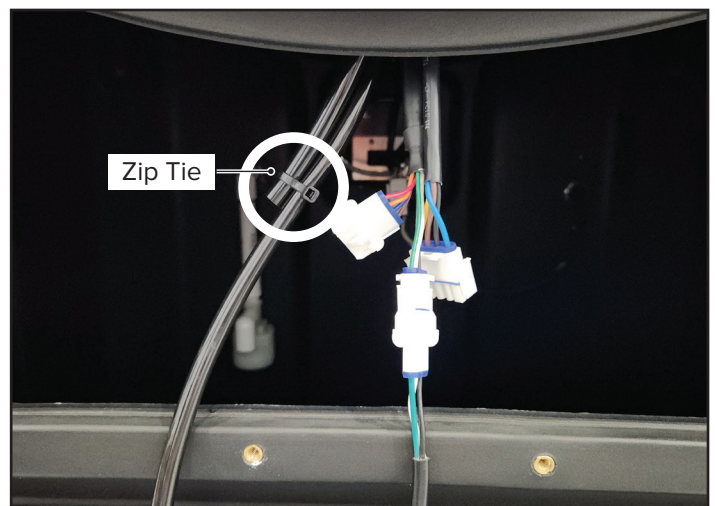


Fig. 11.5: Connect drain line to mister



Fig. 11.6: Secure water lines



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12. Reinstall pump assembly and access panel

Connect water supply line to pump assembly by pushing line into fitting on top of pump (Fig. 12.1). Secure filter bag around pump assembly with a zip tie. Place pump assembly into reservoir in the location shown and make sure pump is sitting level (Fig. 12.2).

Reinstall reservoir access panel and torque the eight screws to 30 in-lb (3.4 N·m) (Fig. 12.3).

Fig. 12.1

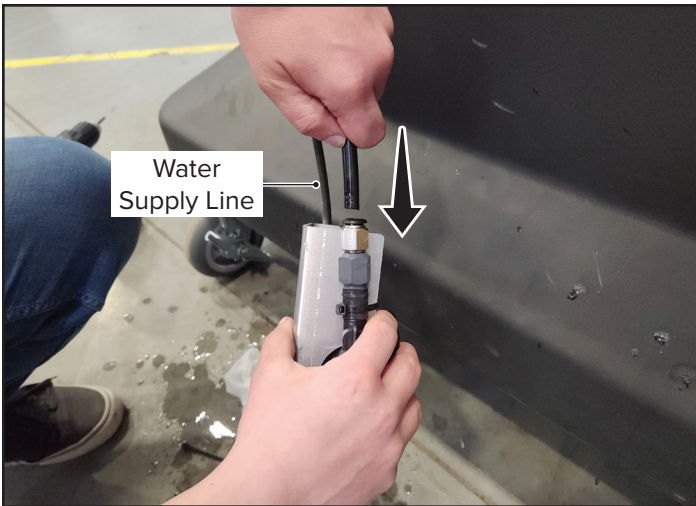
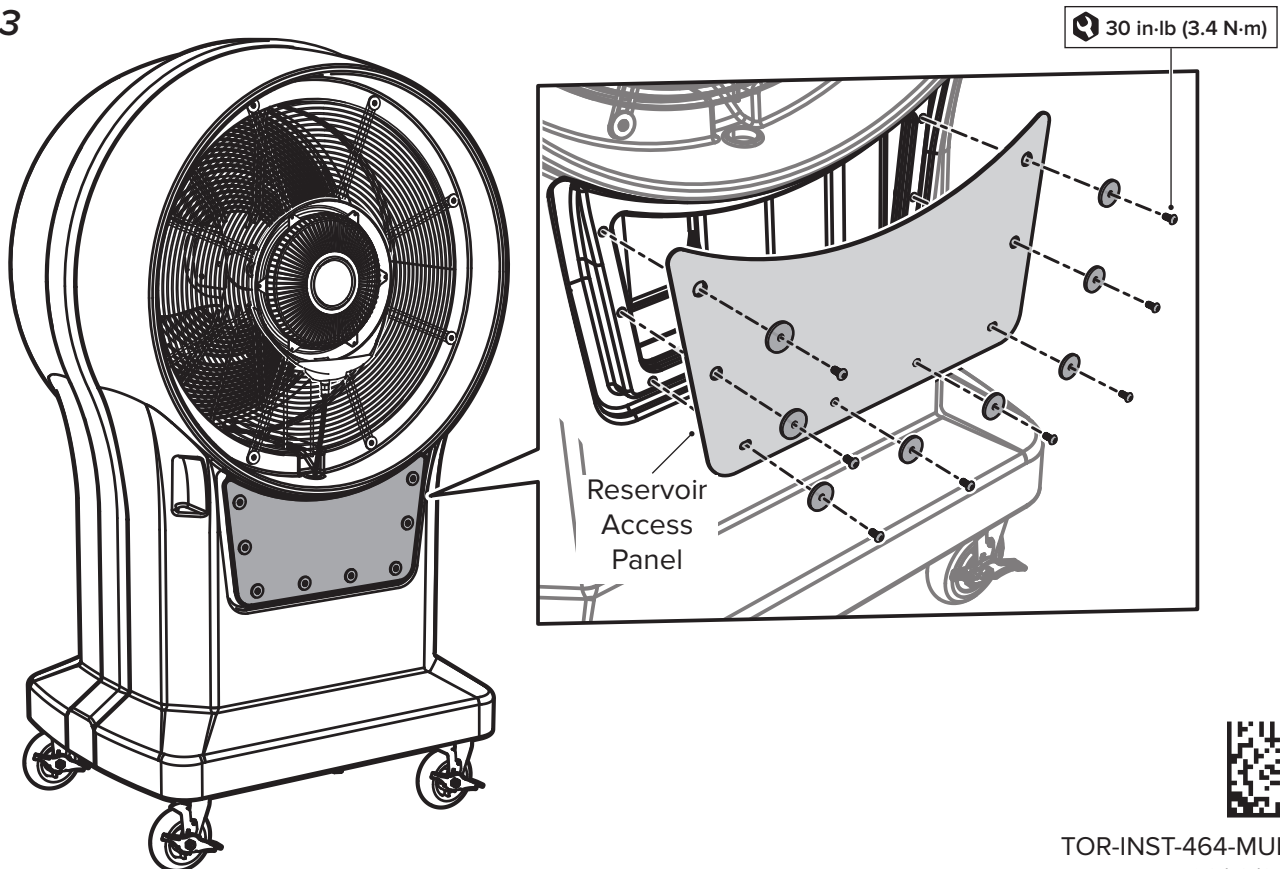


Fig. 12.2



Fig. 12.3



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