

Parts List & Instructions

815 Rice Lake Street, Owatonna, MN 55060 Phone: 800-443-2476 / 507-451-5430 www.gandy.net / Email: sales@gandy.net

9340

Salt Inator Spin Spreader

2.3 Cu Ft Poly Hopper, Holds Approximately 150 Lbs.
For Use with #1 Free Flowing Rock Salt or Ice Melt
Max Spread Width: Approximately 40-Ft

12-Volt In Cab Controller

Tip Down Hopper for Tail Gate / Compartment Access



Operators Instructions

Control Knob Settings and Spreading Guidelines

The control knob is adjustable from 1 to 10.

Approximate spreading widths:

- ... Setting 10 → spreads up to 40 ft wide
- ... Setting 8 → spreads up to 30 ft wide
- ... Setting 5 → spreads up to 20 ft wide

Settings below 5 should be verified by the operator to ensure effective spreading width.

Spread Density and Driving Speed

Driving speed directly affects salt density.

- Slower speeds result in a denser salt application.
- Faster speeds result in a lighter salt application.

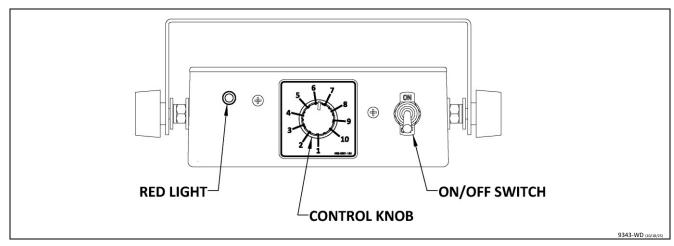
When selecting a setting below #5, first turn the control knob to a position above #5. Then switch the unit to the ON position, and finally adjust the control knob down to your desired setting.

To run.

Flip the ON/OFF switch up to turn the controller on.

With the ON/Off switch on the Red Light will be lit up to indicate it is on.

See picture of controller below.



Maintenance, Usage & Storage

Do not leave salt or ice melt in spreader when not in use.

Salt/Ice melt absorbs moisture and may subsequently refreeze, forming a solid mass/chunk.

Do not us salt or ice melt that has big hard chunks in it. Break up all chunks to flowable size before use.

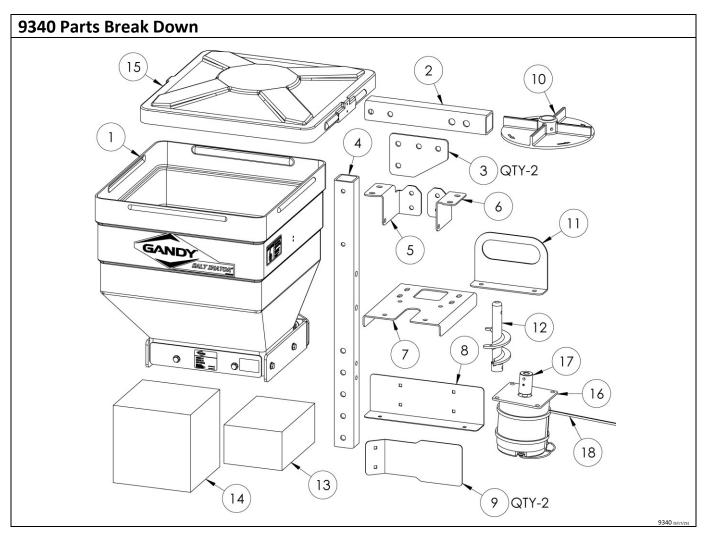
Passing large chunks through the spreader may cause jams, which can lead to electric motor failure or damage to the feeder (auger).

After each use:

- Empty out the spreader.
-Remove any excess salt or ice-melt buildup from around and beneath the spinner plate.

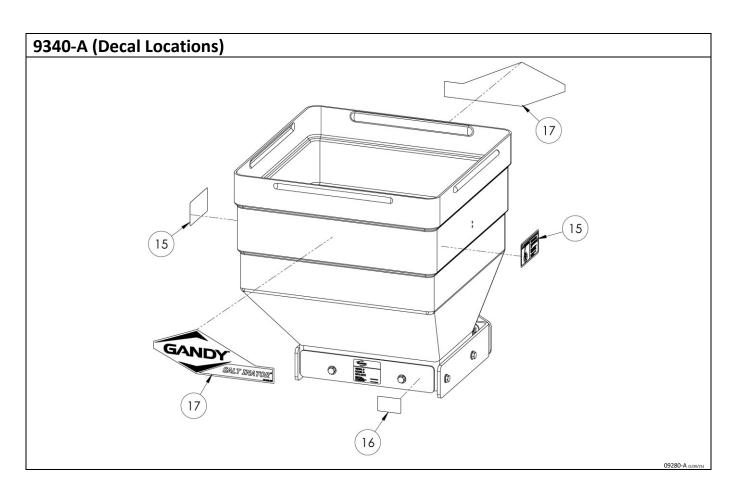
Carton Containing the Following Items: (See next page for Diagram)

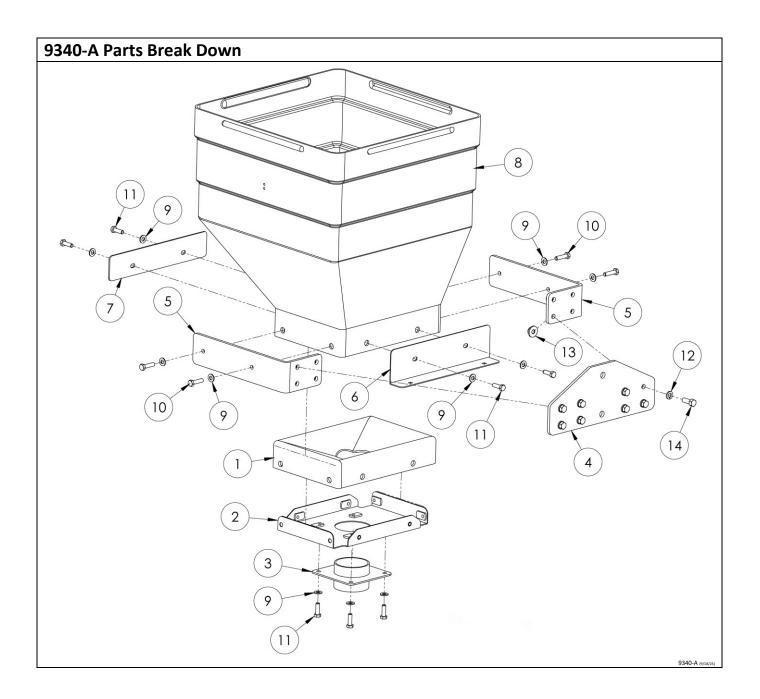
Item Number	Part Number	Description	Quantity
1	9340-A	Hopper Assembly (2.3 Cu. Ft. Poly Hopper)	1
2	9340-1	Tube Hitch	1
3	9340-2	Plate Hitch Support	2
4	9340-4	Tube Post	1
5	9340-5	Bracket Right Mount	1
6	9340-6	Bracket Left Mount	1
7	9340-7	Plate Mount	1
8	9340-10	Deflector Guard	1
9	9340-11	Deflector Side Plate	2
10	9340-12	Spinner Plate	1
11	9340-21	Handle	1
12	9340-22	Feeder	1
13	9340-E	Electrical Box	1
14	9340-H	Hardware Box	1
15	M10-0001-115	Cover, Poly Hopper (Color Silver)	1
16	L01-0012-225	Motor (12-Volt) Spinner)	1
17	9340-9	Connector Coupler w/ Stop (in Place on Motor)	1
18	9343-6	Wire Power Motor (in Place on Motor)	1



9340-A Hopper Assembly Parts Break Down:

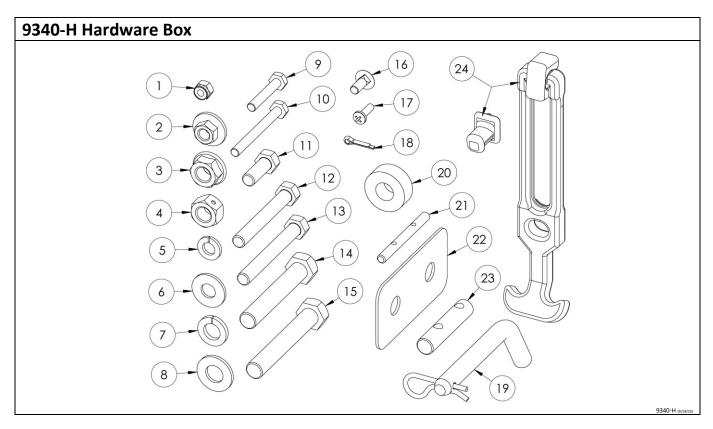
Item Number	Part Number	Description	Quantity
1	9340-13	Insert Tray	1
2	9340-14	Bottom Support Plate	1
3	9340-15	Insert Tube	1
4	9340-17	Plate Hopper Mount	1
5	9340-18	Bracket Side Mount	2
6	9340-19	Plate Rear Bottom Support	1
7	09099926-7	Botton Support Plate	1
8	M10-0001-110	Poly Hopper (2.3 Cu Ft)	1
9	C02-0312-021	Washer SAE 5/16 Stainless	12
10	C03-0312-052	Hex Bolt 5/16 x 1-1/4 Stainless	4
11	C03-0312-045	Hex Bolt 5/16 x 1 Stainless	8
12	C02-0375-010	Lock Washer 3/8	8
13	C01-0375-030	Whiz Flange Nut 3/8	8
14	C03-0375-041	Hex Bolt (3/8 x 1)	8
15	N02-0001-108	Decal Rotating Parts Inside	2
16	N02-0001-130	Decal Small USA	1
17	N02-0001-135	Decal Salt Inator	2





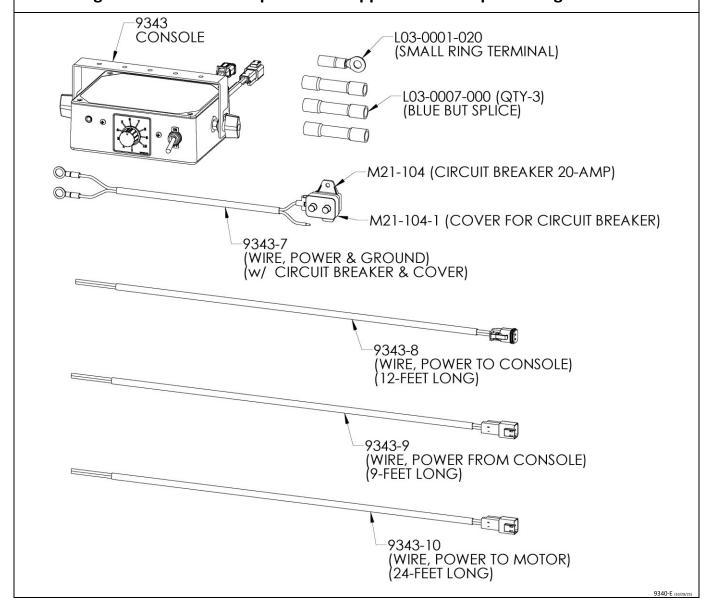
9340-H Hardware Box:

Item Number	Part Number	Description	Quantity
1	C01-0250-043	Nylon Lock Nut 1/4-20, Stainless	8
2	C01-0375-030	Whiz Flange Nut 3/8	12
3	C01-0500-030	Whiz Flange Nut 1/2	4
4	C01-0500-040	Lock Nut Center Point 1/2	1
5	C02-0375-010	Lock Washer 3/8	12
6	C02-0375-030	Wrought Washer 3/8	4
7	C02-0500-010	Lock Washer 1/2	4
8	C02-0500-020	Washer SAE 1/2	2
9	C03-0250-065	Hex Bolt 1/4 x 1-1/2 Stainless	1
10	C03-0250-105	Hex Bolt 1/4 x 2-1/2 Stainless	1
11	C03-0375-041	Hex Bolt 3/8 x 1	8
12	C03-0375-111	Hex Bolt 3/8 x 2-3/4	2
13	C03-0375-121	Hex Bolt 3/8 x 3	2
14	C03-0500-120	Hex Bolt 1/2 x 3	2
15	C03-0500-130	Hex Bolt 1/2 x 3-1/4	3
16	C04-0250-020	Carriage Bolt 1/4 x 5/8	6
17	C07-0187-080	Pan Head Screw #10-24 x 5/8 Stainless	6
18	C20-0125-010	Cotter Pin 1/8 x 1/2 Stainless	2
19	490894-3	Locking Pin w/ Clip	1
20	9340-20	Bushing	1
21	9340-23	Rod Agitator	1
22	9340-3	Plate Spacer	1
23	9340-8	Shaft Connector	1
24	M05-0000-008	Rubber Latch w/Keeper	2



9340-E Electrical Box Containing the Following:

Note: Ring Terminal and Butt Splices are shipped in a small plastic bag.



Assembly Instructions

Step 1 - Before Assembly:

- 1. Unpack all items from the cartons.
- 2. Verify all parts against the lists on pages 1 and 2 to ensure nothing is missing.
- 3. Open hardware bag **9345-H** and check its contents against the list on page 5.
- 4. If any parts are missing, contact **Gandy Company** before beginning assembly.

Required Tools (Minimum):

The following tools are the minimum needed for assembly.

-7/16" Box End Wrench

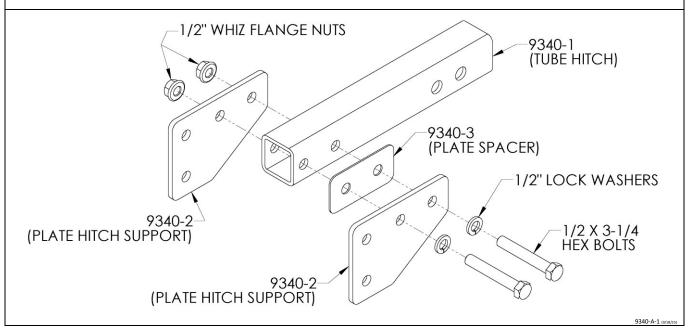
- Wire Cutters
- Wire Stripper / Wire Crimper
- Bag of Ty-Raps (supplied by end user)

^{*}Call a customer sales representative if you need assistance. (800)443-2476

Step 2

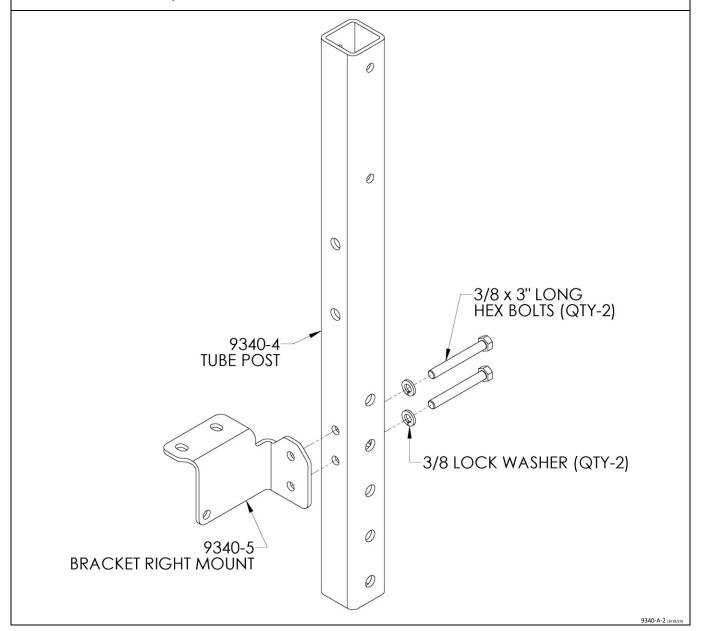
- 1. Gather the following components as shown in the diagram:
 - (1) Part #9340-1 (Tube Hitch)
 - (2) Part #9340-2 (Plate Hitch Support)
 - (1) Part #9340-3 (Plate Spacer)
 - (2) Hex Bolt, 1/2" × 3-1/4"
 - (2) Lock Washer, 1/2"
 - (2) Whiz Flange Nut, 1/2"
- 2. Position the Plate Hitch Supports and Plate Spacer onto the Tube Hitch.
- 3. Secure the assembly using the hardware listed above.
- 4. Tighten all hardware firmly.

Note: When tightening, use a 3/4" wrench to hold the whiz flange nuts in place while turning the bolt heads. This prevents the nuts from scraping paint from the surface beneath them.



Step 3 – Install Tube Post and Right Mount Bracket

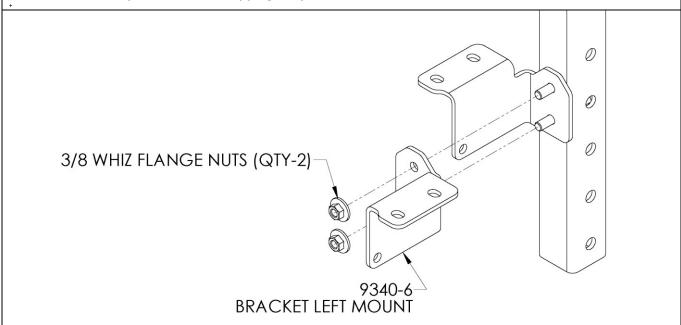
- 1. Locate the following parts:
 - (1) Part #9340-4 (Tube Post)
 - (1) Part #9340-5 (Bracket Right Mount)
 - (2) Hex Bolt, 3/8" × 3"
 - (2) Lock Washer, 3/8"
 - (2) Whiz Flange Nut, 3/8"
- 2. Place one lock washer on each 3/8" × 3" hex bolt.
- 3. Insert the bolts with lock washers through the 3/8" holes in the Tube Post, then install the Bracket Right Mount onto the bolts protruding through, as shown in the diagram.
- 4. Proceed to the next step.

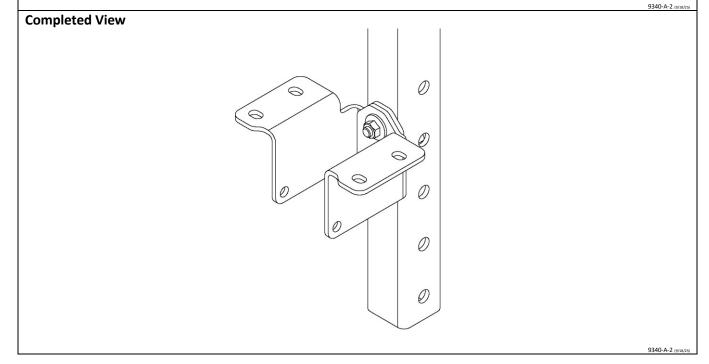


Step 4 - Install Left Mount Bracket

- 1. Locate the following part:
 - (1) Part #9340-6 (Bracket Left Mount)
- 2. Position the Bracket Left Mount over the Bracket Right Mount installed in the previous step.
- 3. Install (1) Whiz Flange Nut, 3/8" onto each bolt.
- 4. Tighten all hardware securely.

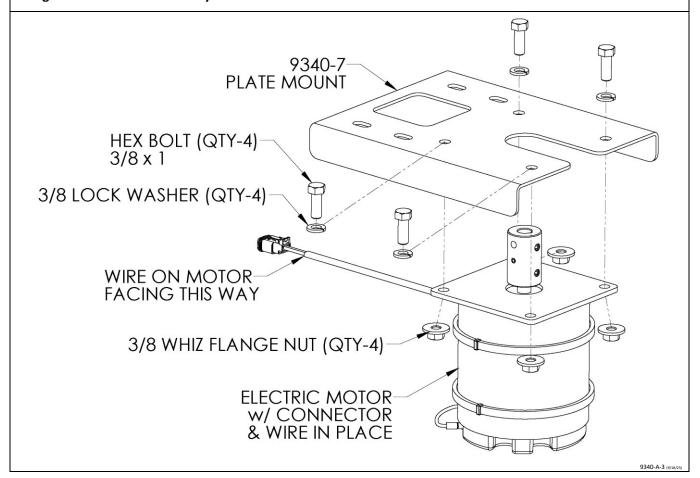
Note: When tightening bolts use a 9/16" wrench to hold the whiz flange nuts and then tighten the bolt heads. This will keep the nut from stripping the paint from underneath it.





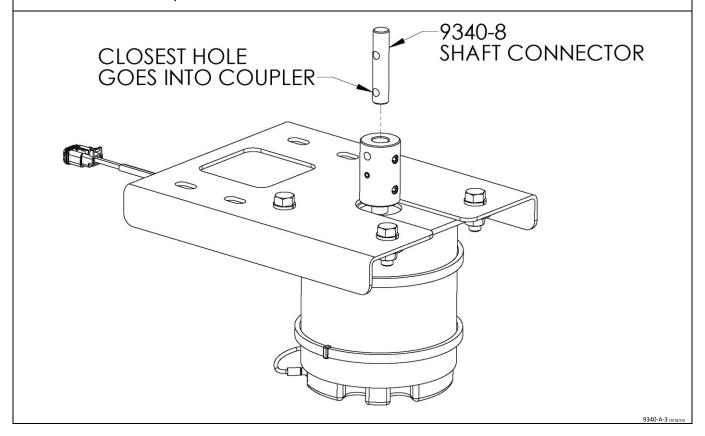
Step 5 – Install Electric Motor onto Plate Mount

- 1. Locate the following parts:
 - (1) Part #9340-7 (Plate Mount)
 - (1) Part #L01-0012-225 (Electric Motor)
 - (4) Hex Bolt, 3/8" × 1"
 - (4) Lock Washer, 3/8"
 - (4) Whiz Flange Nut, 3/8"
- 2. Position the Electric Motor onto the Plate Mount as shown in the diagram.
- 3. Place one lock washer on each $3/8" \times 1"$ hex bolt.
- 4. Insert the bolts with lock washers through the Plate Mount and into the Electric Motor, then secure with the whiz flange nuts.
- 5. When mounting, ensure the motor wire is oriented in the direction shown in the diagram.
- 6. Tighten all hardware securely.



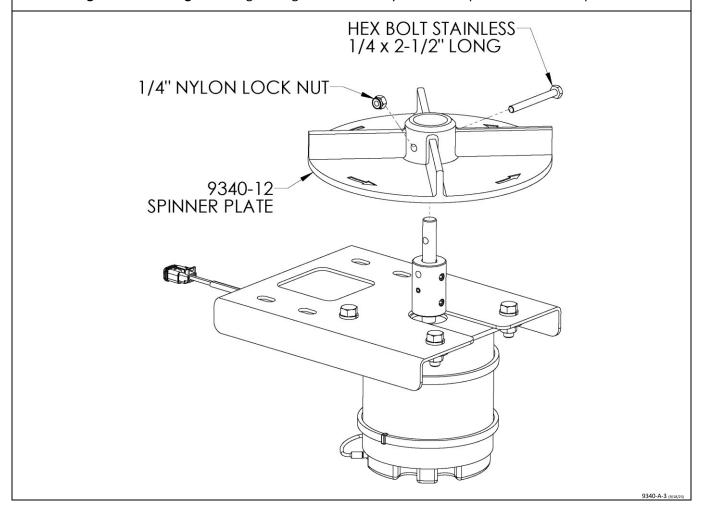
Step 6 – Install Shaft Connector

- 1. Locate the following part:
 - (1) Part #9340-8 (Shaft Connector)
- 2. Apply anti-seize compound or grease to the Shaft Connector or to the inside of the coupler installed in the previous step.
- 3. Insert the Shaft Connector into the coupler as shown in the diagram.
- 4. Proceed to the next step.



Step 7 - Install Spinner Plate

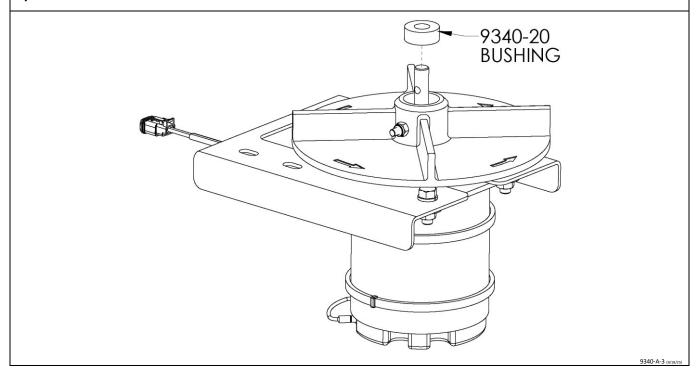
- 1. Locate the following parts:
 - (1) Part #9340-12 (Spinner Plate)
 - (1) Stainless Bolt, 1/4" × 2-1/2"
 - (1) Nylon Lock Nut, 1/4"
- 2. Slide the Spinner Plate down over the coupler and shaft installed in the previous steps.
- 3. Align the holes in the Spinner Plate, coupler, and shaft.
- 4. Insert the $1/4" \times 2-1/2"$ stainless bolt through all aligned holes, then install the 1/4" nylon lock nut.
- 5. **Do not tighten at this stage**. Final tightening of this assembly will be completed in a later step.



Step 8 - Install Bushing

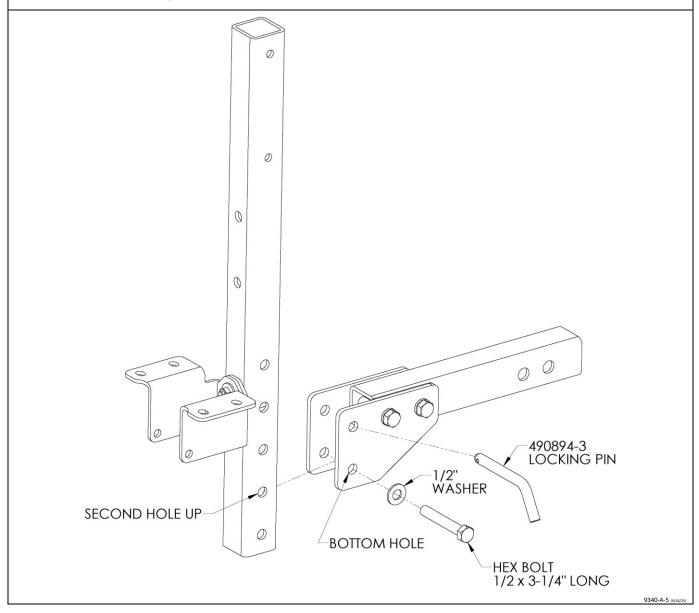
- 1. Locate the following part:
 - (1) Part #9340-20 (Bushing)
- 2. Slide the Bushing down over the shaft and into the Spinner Plate as shown in the diagram.
- 3. Tighten the nylon lock nut until the bolt head and nut just make contact with the Spinner Plate.

Do not overtighten. The hardware should only be snug enough for the bolt head and nut to touch the Spinner Plate.



Step 9 - Join Sub-Assemblies and Install Locking Pin

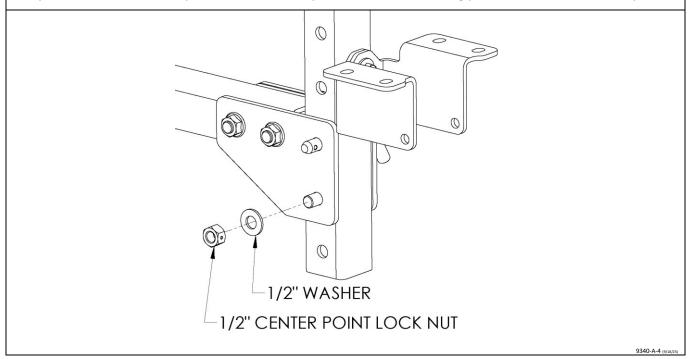
- 1. Locate the following parts:
 - (1) Sub-assembly from Step 1
 - (1) Sub-assembly from Step 3
 - (1) Hex Bolt, 1/2" × 3-1/4"
 - (1) Washer, 1/2"
 - (1) Part #490894-3 (Locking Pin with Hairpin Cotter)
- 2. For ease of assembly, insert the Hitch Tube into the 2" receiver of the vehicle where it will be installed. Secure it in place with the 5/8" hitch pin.
- 3. Position the long tube between the Hitch Tube plates. Refer to the diagram for correct hole placement. Note: The hole spacing shown is suitable for 1/2-ton trucks. For 3/4-ton or 1-ton trucks, you may need to drop down one or two holes. Each hole adjustment raises or lowers the spinner by 2-1/4".
- 4. Place the 1/2" washer on the 1/2" \times 3-1/4" hex bolt and insert the bolt through the hole indicated in the diagram.
- 5. Remove the Hairpin Cotter from the Locking Pin (**Part #490894-3**). Insert the Locking Pin through the top hole as shown, then reinstall the Hairpin Cotter. This prevents the tube from pivoting and falling during assembly.
- 6. Proceed to the next step.



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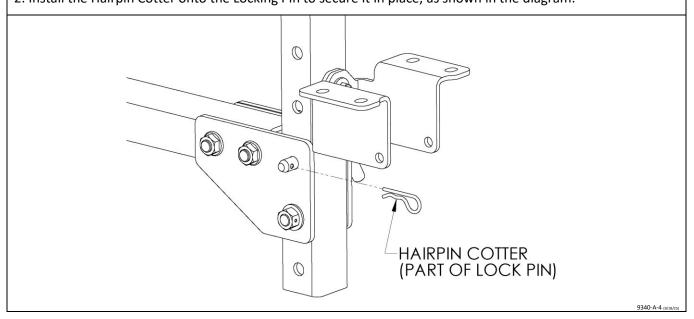
Step 10 - Install Center Point Lock Nut and Washer

- 1. Locate the following parts:
 - (1) Washer, 1/2"
 - (1) Center Point Lock Nut, 1/2"
- 2. Slide the 1/2" washer over the bolt.
- 3. Install the 1/2" Center Point Lock Nut onto the bolt.
- 4. Tighten the lock nut until the bolt head and lock nut apply light pressure against the washers and plates. Next: While holding the long upright tube, remove the locking pin and check that the tube can freely pivot away from the vehicle. Then pivot the tube back up and reinstall the locking pin. Proceed to the next step.



Step 11 – Secure Locking Pin

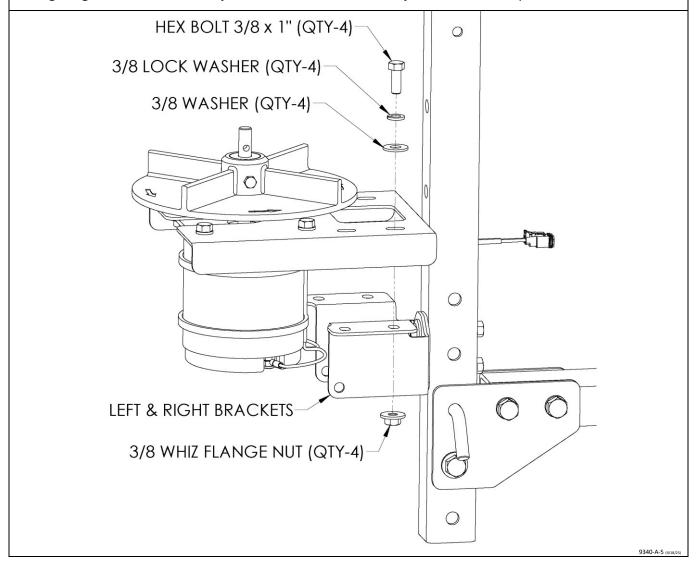
- 1. Locate the Hairpin Cotter.
- 2. Install the Hairpin Cotter onto the Locking Pin to secure it in place, as shown in the diagram.



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Step 12 – Install Electric Motor Assembly to Brackets

- 1. Locate the following parts:
 - (1) Electric Motor Assembly (from Step 8)
 - (4) Hex Bolt, 3/8" × 1"
 - (4) Lock Washer, 3/8"
 - (4) Washer, 3/8"
 - (4) Whiz Flange Nut, 3/8"
- 2. Position the **Electric Motor Assembly** onto the **Left and Right Brackets** as shown in the diagram.
- 3. Place one lock washer and one washer on each $3/8" \times 1"$ hex bolt.
- 4. Insert the bolts with washers through the **brackets** and **motor assembly**, then secure with the whiz flange nuts. **Do not tighten at this stage**.
- 5. Install the three remaining bolts, each with a lock washer, washer, and whiz flange nut, as shown in the diagram.
- 6. Finger-tighten all hardware only. The Electric Motor will be adjusted in a later step.



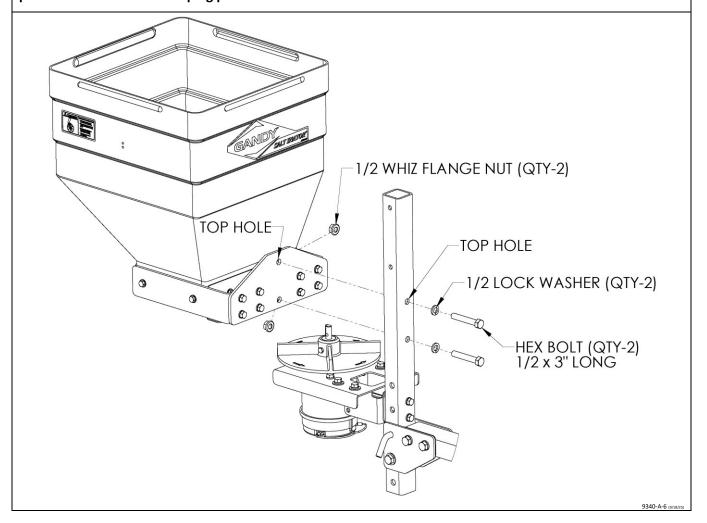
Step 13 – Install Hopper Assembly

- 1. Locate the following parts:
 - (2) Hex Bolt, 1/2" × 3"
 - (2) Lock Washer, 1/2"
 - (2) Whiz Flange Nut, 1/2"

Note: This step is easier with two people.

- 2. With assistance, hold the Part #9340-A Hopper Assembly against the upright tube.
- 3. Insert one $1/2" \times 3"$ hex bolt with a 1/2" lock washer through the top hole in the upright tube and through the top hole in the Hopper Assembly mount plate.
- 4. Install one 1/2" whiz flange nut onto the bolt to hold the Hopper Assembly in place.
- 5. Insert the second $1/2" \times 3"$ hex bolt with a 1/2" lock washer through the remaining hole, then install the second 1/2" whiz flange nut.
- 6. Tighten all hardware securely.

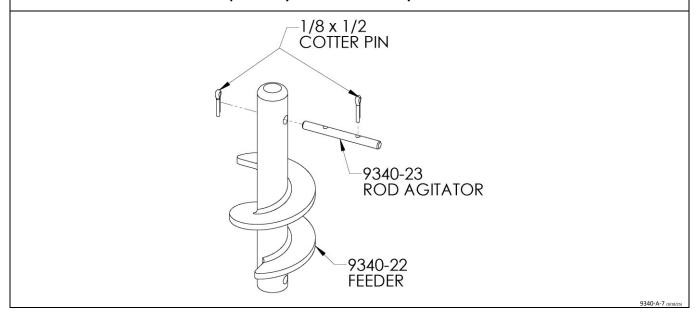
Note: When tightening, use a 3/4" wrench to hold the whiz flange nuts while turning the bolt heads. This prevents the nuts from scraping paint from the surface beneath them.



Step 14 – Install Rod Agitator to Feeder

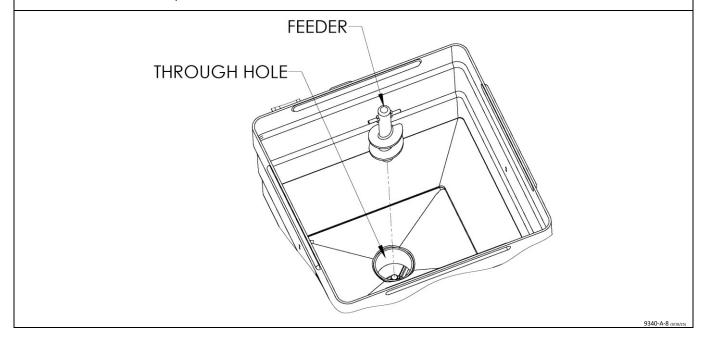
- 1. Locate the following parts:
 - (2) Cotter Pin, 1/8" × 1/2"
 - (1) Part #9340-22 (Feeder)
 - (1) Part #9340-23 (Rod Agitator)
- 2. Position the Rod Agitator (Part #9340-23) onto the Feeder (Part #9340-22) as shown in the diagram.
- 3. Secure the **Rod Agitator** in place using the two $1/8" \times 1/2"$ cotter pins.
- 4. Bend each cotter pin only far enough to prevent it from falling out.

Note: Do not over-bend the cotter pins. They should remain easy to remove for future maintenance.



Step 15 - Install Feeder Assembly

- 1. Locate the Feeder Assembly (assembled in Step 14).
- 2. Insert the Feeder Assembly down through the hopper and through the hole at the bottom of the hopper.
- 3. Position the Feeder Assembly over the rod located above the Spinner Plate, as shown in the diagram.
- 4. Proceed to the next step.

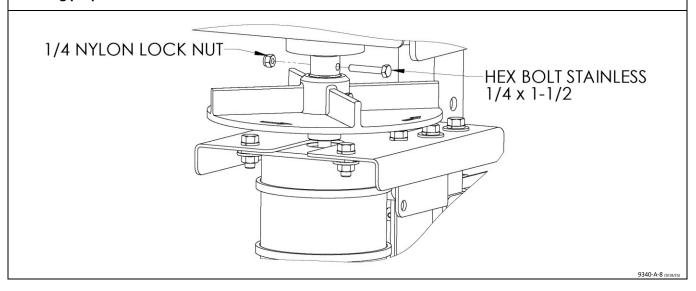


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Step 16 - Secure Feeder to Shaft

- 1. Locate the following parts:
 - (1) Stainless Hex Bolt, 1/4" × 1-1/2"
 - (1) Nylon Lock Nut, 1/4"
- 2. Position the Feeder onto the shaft above the Spinner Plate as shown in the diagram.
- 3. Insert the $1/4" \times 1-1/2"$ stainless hex bolt through the Feeder and shaft.
- 4. Install the 1/4" nylon lock nut onto the bolt.
- 5. Tighten the nylon lock nut until the bolt head and nut just make contact with the Feeder.

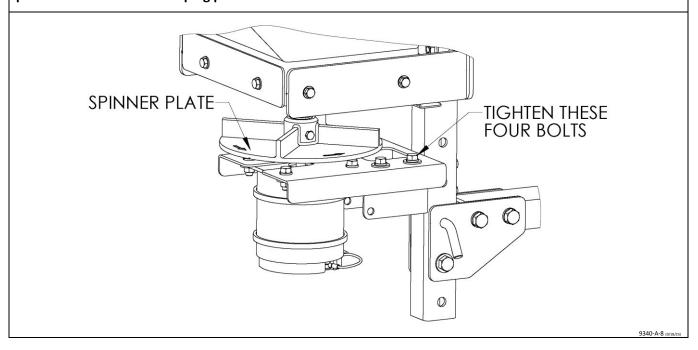
Note: Do not overtighten. The hardware should only be snug enough to hold the Feeder in place while allowing proper function.



Step 17 – Align Feeder and Tighten Electric Motor

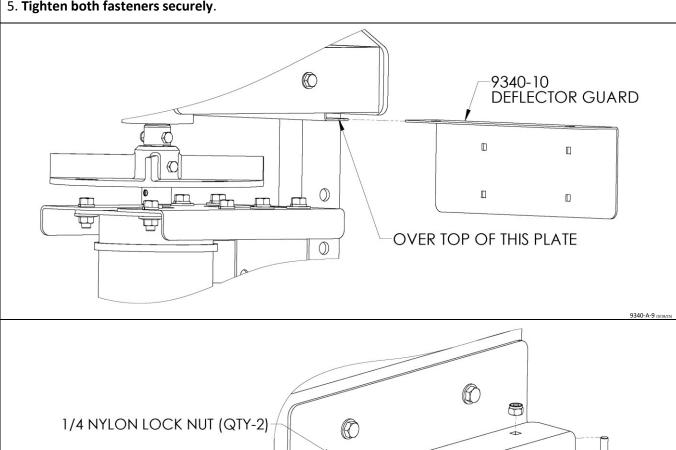
- 1. Turn the Spinner Plate by hand and adjust the Electric Motor until the Feeder (auger) spins freely without dragging on the inner tube in which it is seated.
- 2. Once the Feeder is properly aligned, slowly tighten the four bolts securing the Electric Motor in place.
- 3. While tightening, continue turning the Spinner Plate by hand to ensure the Feeder remains aligned and does not bind.
- 4. Tighten all bolts securely.

Note: When tightening, use a 9/16" wrench to hold the whiz flange nuts while turning the bolt heads. This prevents the nuts from scraping paint from the surface beneath them.



Step 18 - Install Deflector Guard

- 1. Locate the following parts:
 - (1) Part #9340-10 (Deflector Guard)
 - (2) Carriage Bolt, 1/4" × 5/8"
 - (2) Nylon Lock Nut, 1/4"
- 2. Position the Deflector Guard over the top of the plate as shown in the diagram.
- 3. Insert the two $1/4" \times 5/8"$ carriage bolts through the aligned holes.
- 4. Install the two 1/4" nylon lock nuts onto the carriage bolts.
- 5. Tighten both fasteners securely.

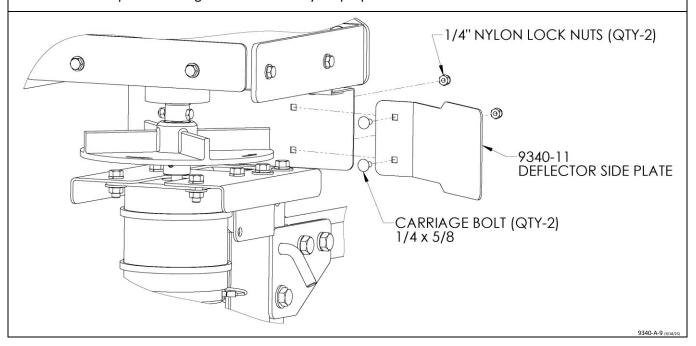


CARRIAGE BOLT (QTY-2) 1/4 x 5/8

Step 19 – Install Deflector Side Plates

- 1. Locate the following parts:
 - (2) Part #9340-11 (Deflector Side Plates)
 - (4) Carriage Bolt, 1/4" × 5/8"
 - (4) Nylon Lock Nut, 1/4"
- 2. Position the first Deflector Side Plate (Part #9340-11) against the Deflector Guard (Part #9340-10) installed in the previous step.
- 3. Insert two $1/4" \times 5/8"$ carriage bolts through the aligned holes and secure with two 1/4" nylon lock nuts.
- 4. Tighten both nuts securely.
- 5. Repeat the process on the opposite side with the second Deflector Side Plate using the remaining two carriage bolts and lock nuts.
- 6. Tighten both nuts securely.

Ensure both side plates are angled outward evenly for proper material deflection.

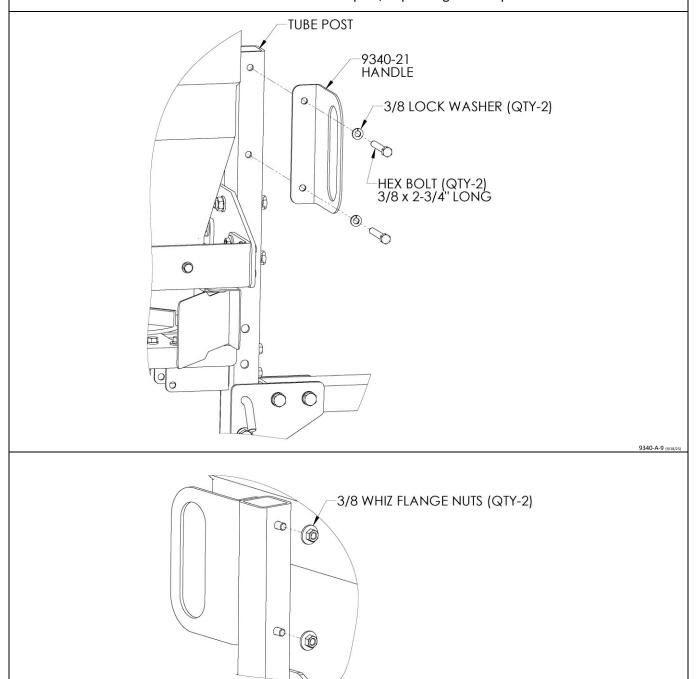


Step 20 - Install Handle

- 1. Locate the following parts:
 - (1) Part #9340-21 (Handle) (2
- (2) Hex Bolt, 3/8" × 3-1/4"
 - (2) Lock Washer, 3/8"
- (2) Whiz Flange Nut, 3/8"
- 2. Position the Handle (Part #9340-21) against the tube post in the desired location.
- 3. Insert the two $3/8" \times 3-1/4"$ hex bolts with lock washers through the handle and tube post as shown.
- 4. Install the two 3/8" whiz flange nuts onto the bolts.
- 5. Tighten the hardware securely.

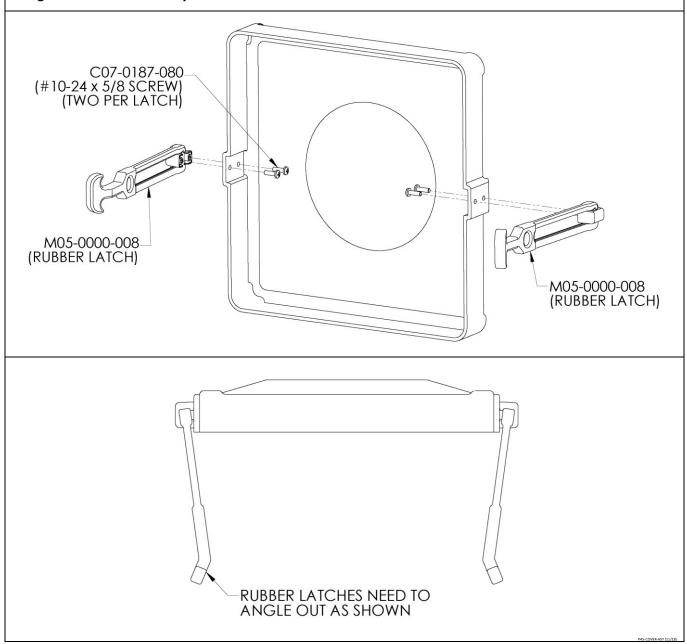
Notes:

- When tightening, use a 9/16" wrench to hold the whiz flange nuts while turning the bolt heads. This prevents the nuts from scraping paint from the surface beneath them.
- The Handle can be mounted on either side of the tube post, depending on user preference.



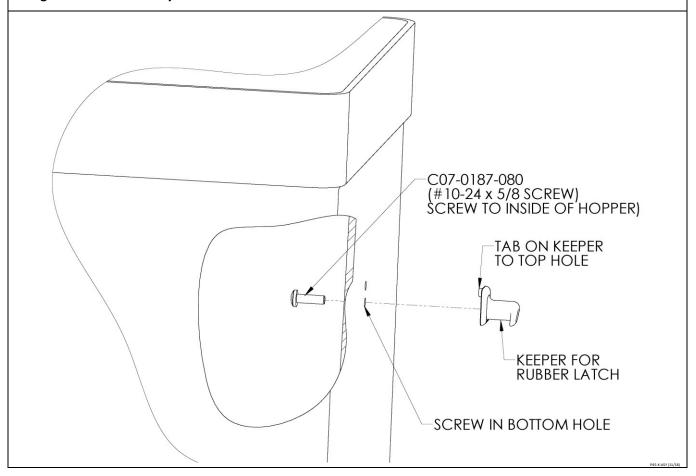
Step 21 – Install Rubber Latches on Hopper Cover

- 1. Locate the following parts:
 - (4) Part #C07-0187-080 (#10-24 × 5/8" Phillips Screws)
 - (2) Part #M05-0000-008 (Rubber Latches)
- 2. Position the two Rubber Latches over the holes on the side of the poly hopper cover as shown in the diagram.
- 3. Insert the $\#10-24 \times 5/8$ " Phillips screws through the latch holes and into the hopper cover.
- 4. Tighten all screws securely.



Step 22 – Install Keepers on Hopper

- 1. Locate the following parts:
- Two (2) part #C07-0187-080 (#10-24 × 5/8" Phillips screws)
- Two (2) part #M05-0000-008 (Keepers)
- 2. Position the two Keepers over the pre-drilled holes on the side of the poly hopper, as shown in the diagram.
- 3. Insert one (1) #10-24 \times 5/8" Phillips screw through each hole in the keeper, with the **screw heads positioned** on the inside of the hopper.
- 4. Secure each screw with the keeper in place.
- 5. Tighten screws securely.



Wiring Instructions

Reference:

- See page 6 for contents of the 9340-E Electrical Carton.
- See following page for wiring diagram.

Step 1 – Prepare Controller Mount

- Choose a convenient in-cab location for the Controller.
- The Controller has mounting holes in the adjustable strap for dash mounting.
- The strap is removable/reversible: unscrew the plastic thumb nuts, flip the strap, and re-install on the bottom of the Controller if desired.
- Do not permanently mount the Controller until all wires are routed.

Step 2 - Install Power & Ground Wire (Part #9343-6)

- This wire includes a self-resetting 20-AMP Circuit Breaker with cover on the RED (+) power wire.
- Connect directly to a 12-Volt source (battery, auxiliary terminals, or as specified in the vehicle operator's manual).
- Route the Power & Ground Wire from the 12-Volt source around the engine compartment, avoiding hot or moving parts.
- Use ty-raps as needed to secure the wire before proceeding.

Step 3 – Route Controller Power Wires

- Locate:
 - Wire, Power to Controller (Part #9343-8), 12-ft, Female End
 - Wire, Power from Controller (Part #9343-9), 9-ft, Male End
- Route both wires through the vehicle firewall into the engine compartment.
 - Connectors must remain inside the cab for Controller hookup.
- If no access holes exist, carefully drill through the firewall. Double-check to avoid damaging wires, tubing, or cooling components.
- Route Part #9343-8 (12-ft, Female End) from cab through firewall toward the Power & Ground Wire (Step 2). Do not connect yet.
- Route Part #9343-9 (9-ft, Male End) from cab through firewall and leave positioned high in the engine compartment for later connections.

Step 4 - Connect Wires to Controller

- Plug both wires (from Step 3) into the Controller.
- Leave enough slack in the cab to allow mounting and adjustment of the Controller later.

Step 5 – Route Power to Spinner Wire

- Locate Wire, Power to Spinner (Part #9343-10), 24-ft, Male End.
- Route from rear of vehicle (spreader mounting location) under/through vehicle along frame, avoiding suspension, moving parts, and exhaust components.
- Connect plug on wire to plug on spreader.
- Remove locking pin and rotate spreader down to confirm enough slack remains in wires to prevent pulling or damage.
- Secure wire under vehicle with ty-raps.

^{**}Important: Read all instructions completely before beginning wiring.

Step 6 - Connect Spinner Wire to Controller Output

- Connect Wire from under vehicle (Step 5) to Power Out Wire from Controller (Part #9343-9), 9-ft.
- Use two Blue Butt Splices: connect black wires together, red wires together.
- If excess wire, trim to length but leave slack.
- Heat-shrink butt splices with heat gun or safe heat source. If unavailable, wrap with electrical tape.
- Secure wires with ty-raps.

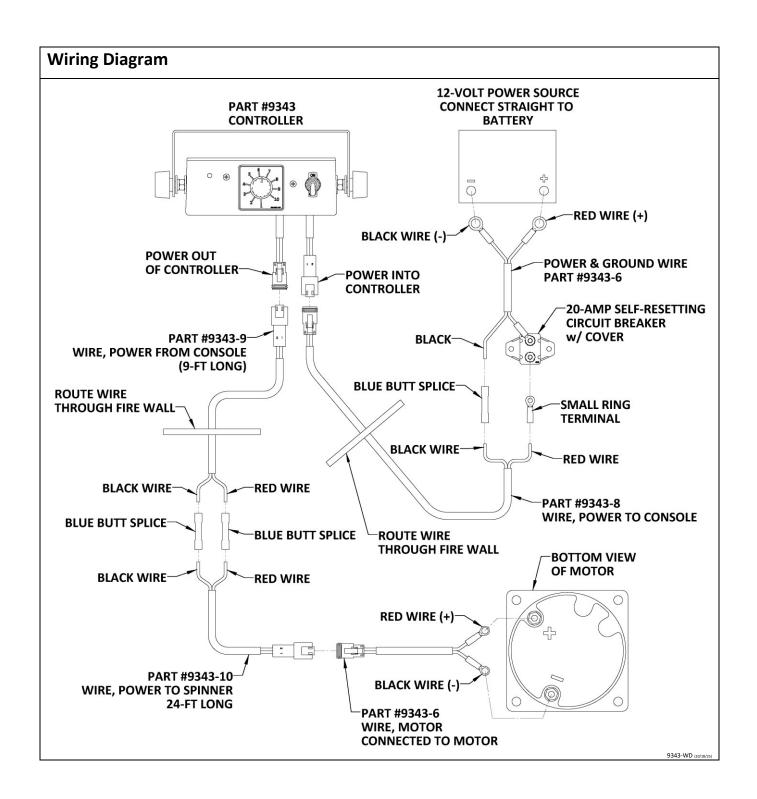
Step 7 – Connect Controller Power to Power & Ground Wire

- Disconnect Power & Ground Wire from 12-Volt source before making connections.
- Connect black wires together using one Blue Butt Splice.
- Install Small Ring Terminal on RED wire.
- Heat-shrink butt splice and ring terminal, or tape if no heat source available.
- Connect RED wire to open stud on Circuit Breaker and tighten securely.
- Install plastic cap over Circuit Breaker studs.
- Reconnect Power & Ground Wire to 12-Volt source.
- Secure wires with ty-raps.

Note: The 20-AMP Circuit Breaker is self-resetting. If motor stops, turn off main power switch on Controller. Breaker will reset after cooling (may take up to a minute).

Step 8 – Finalize Wiring and Test

- Rotate spreader back to upright position and secure with locking pin.
- Secure all wires with ty-raps.
- Turn Controller knob 1/4 turn up and switch power ON.
- Verify spinner plate rotates in direction indicated by arrows.



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