

PART #3062 - 12VDC Dump Body Vibrator Kit
PART #3062-24V - 24VDC Dump Body Vibrator Kit



Installation Instructions

Packing List

<u>Qty</u>	<u>Description</u>
1	Rattler – Dump Body Vibrator Unit (12VDC or 24VDC)
34'	2 GA Cable
1	Solenoid w/ Hardware
1	Momentary Push Button Switch
4	3/8 x 2 GA Ring Terminal
3	16-14 GA Ring Terminal
25'	16 GA Wire

Warning – Read instructions completely before beginning installation. Failure to read and follow installation instructions could result in damage to equipment, shorten service life, malfunction, personal injury or even death. This information is important to properly install, operate and maintain vibrator. Keep installation, safety and maintenance instructions with truck papers.

STEP #1 – Channel Mounting Bracket (STEEL BODIES ONLY)

IMPORTANT: DO NOT MOUNT TO FLOOR OF DUMP BODY.

- **Dump Trucks** - The vibrator should be located on the underside of the dump body as far forward as possible or at least in the first _ length of the body from the front. The vibrator should be centered on the body.
- **Dump Trailers** - Max recommended 2ga cable run is 50'. Make sure vibrator is mounted closer to the rear of the trailer to make this possible. For longer cable runs 1ga cable is recommended.

NOTE: Make sure mounting location is clear of any tanks used for fuel or hydraulic fluid.

- The 16"x8" channel should be welded to at least two cross members. Some bodies may require short cross members to be added for proper support.
- The channel should be mounted to a clean, flat and smooth area.
- Weld the channel mounting bracket to the cross members
- All welds should be full welds, multiple pass and at least _" fillet minimum. #7018 Welding rod or equivalent should be used.

STEP #2 – Vibrator Installation

- Steel Bodies - Bolt the vibrator to the channel using the (4) 5/8-11 nuts provided.
- Aluminum Bodies - The unit must be bolted directly to the cross members of the dump body. Some bodies may require short cross members and reinforcement to be added for proper support.

STEP #3 – Wiring for DUMP BODIES or DUMP TRAILERS

DUMP BODIES

- Mount solenoid on truck frame as close to the battery as possible. Make sure the truck frame is clean before mounting.
- Run 2GA battery cable between the positive terminal on battery and the battery terminal of solenoid. We recommend a 300amp circuit breaker or inline fuse to be installed for added protection (not included in kit) See DUMP BODY wiring diagram.
- Run 2GA battery cable between opposite solenoid terminal and the vibrator motor.

NOTE: It is recommended that the 3/8"x 2GA ring terminals are soldered to battery cable ends.

NOTE: It is recommended that the battery cable is run inside some sort of protected enclosure.

- When running the 2GA battery cable, be sure it is free of moving parts on the truck or dump body. Do not allow the cable to run near any heat source.
- When running the 2GA battery cable, allow enough cable in the pivot area for the dump body to raise and lower freely. Make sure the 2GA cable will not be caught or pinched between the truck or trailer frame and the dump body.

IMPORTANT: SERIOUS DAMAGE TO THE TRUCK MAY OCCURE IF NOT INSTALLED PROPERLY

- The push button switch should be installed inside the cab. Install the switch with the cover plate provided.
- Connect the 16GA wire from the switch to the positive terminal on the battery.
 - Install inline 15amp fuse (not provided)
- Connect second run of 16GA wire from the switch to the small terminal on the solenoid. Make sure the 16GA wire will not be caught or pinched between the truck or trailer frame and the dump body.

Grounding Vibrator – STEEL DUMP BODIES

IMPORTANT: DUMP BODY MUST BE HARDWIRED TO FRAME

If the ground is insufficient damage to the vibrator may be caused. Warranty will be voided if this occurs.

- **Unit must be grounded to long sill at rear pivot area. Bolt short run of 2GA battery cable between rear of truck frame and rear of dump body long sill.**

Grounding Vibrator – ALUMINUM DUMP BODIES

- **Ground unit directly to truck frame by running 2GA battery cable between unit and truck frame. To connect the 2GA battery cable to the unit drill through the steel bracket and through bolt connection. Next, weld another stud to rear of truck frame. Connect 2GA battery cable run from through bolt connection on mounting bracket to stud welded to truck frame. Connect 2 GA battery cable to studs with ring terminals and nuts (items not included).**

DUMP TRAILERS

- Mount solenoid on truck frame as close to the battery as possible. Make sure the truck frame is clean before mounting.
- Run 2GA battery cable between the positive terminal on battery and the battery terminal of solenoid. We recommend a 300amp circuit breaker or inline fuse to be installed for added protection (not included in kit) See DUMP TRAILER wiring diagram.
- Run 2GA battery cable between opposite solenoid terminal and the vibrator motor.
 - In order to disconnect dump trailer from truck use heavy duty 175 Series 2GA trailer plugs. (Not Included) – Part # 3620 (Two required for connection)

NOTE: It is recommended that the 3/8”x 2GA ring terminals are soldered to battery cable ends.

NOTE: It is recommended that the battery cable is run inside some sort of protected enclosure.

- When running the 2GA battery cable, be sure it is free of moving parts on the truck or trailer. Do not allow the cable to run near any heat source.
- When running the 2GA battery cable, allow enough cable in the pivot area for the trailer to raise and lower freely. Make sure the 2GA cable will not be caught or pinched between the trailer chassis and body.

IMPORTANT: THIS IS NOT A FUSED CABLE. SERIOUS DAMAGE TO THE TRUCK / TRAILER MAY OCCURE IF NOT INSTALLED PROPERLY

- The push button switch should be installed inside the cab. Install the switch with the cover plate provided.
- Connect the 16GA wire from the switch to the positive terminal on the battery.
 - INSTALL 15amp INLINE FUSE (NOT INCLUDED IN KIT)
- Connect second run of 16GA wire from the switch to the small terminal on the solenoid. Make sure the 16GA wire.

Grounding Vibrator – DUMP TRAILERS

IMPORTANT: If the ground is insufficient damage to the vibrator may be caused. Warranty will be voided if this occurs.

- **Ground unit by running 2GA battery cable to truck.**
 - **To connect the 2GA battery cable to the unit drill through the steel bracket and through bolt connection. Connect 2 GA battery cable to stud with ring terminal and nut (items not included).**
 - **Run 2GA battery cable from the unit past the rear hinge and up to the heavy duty trailer plug.**
 - **(Steel Chassis Only) It is possible to use the trailer frame to substitute long run of 2GA battery cable. Run 2GA battery cable past the hinge and weld a stud to the rear of the trailer frame. Connect 2 GA battery cable to stud with ring terminal and nut (items not included). At the front of the trailer weld a stud to the trailer frame. Connect 2 GA battery cable to stud with ring terminal and nut (items not included). Connect 2GA battery cable to heavy duty trailer plug.**
 - **Run the 2GA battery cable from truck side plug directly to negative terminal on battery.**

STEP #4 – Operation

It is safe to operate the vibrator in intermittently duty cycles only. **Run vibrator for 7 to 10 seconds with 2 minute intervals.** Failure to comply may cause damage to the vibrator motor and will void the warranty.

DO NOT run the vibrator without the safety enclosure in place.

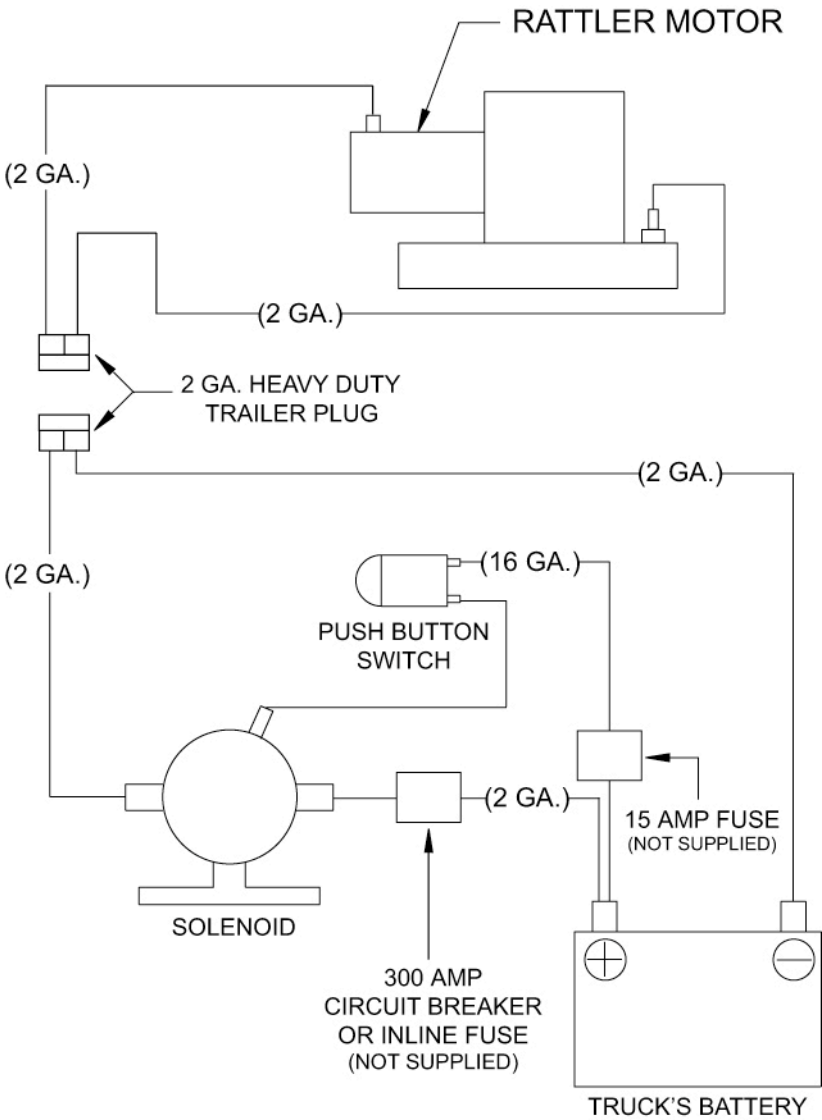
Maintenance

- The vibrator features two greasing points on enclosure. Grease bearings every 30 days.
- Check solenoid and battery terminals for corrosion every 30 days. Be sure to keep terminals clean for proper operation.
- Check tightness of rivets that secure the safety enclosure.
- Check the four Channel Mounting nuts periodically to maintain proper tightness. A loose vibrator can result in fatigue and shortened lifespan.
- Check for any visible cracked welds. Immediately repair if found.

SAFETY

- **Disconnect electric supply before working on the unit.**
- **Do not run the vibrator without the safety enclosure in place.**
- **THIS VIBRATOR UNIT CAN PRODUCE FORCE CAPABLE OF CAUSING SERIOUS INJURY OR EVEN DEATH IF NOT INSTALLED ACCORDING TO GUIDELINES.**

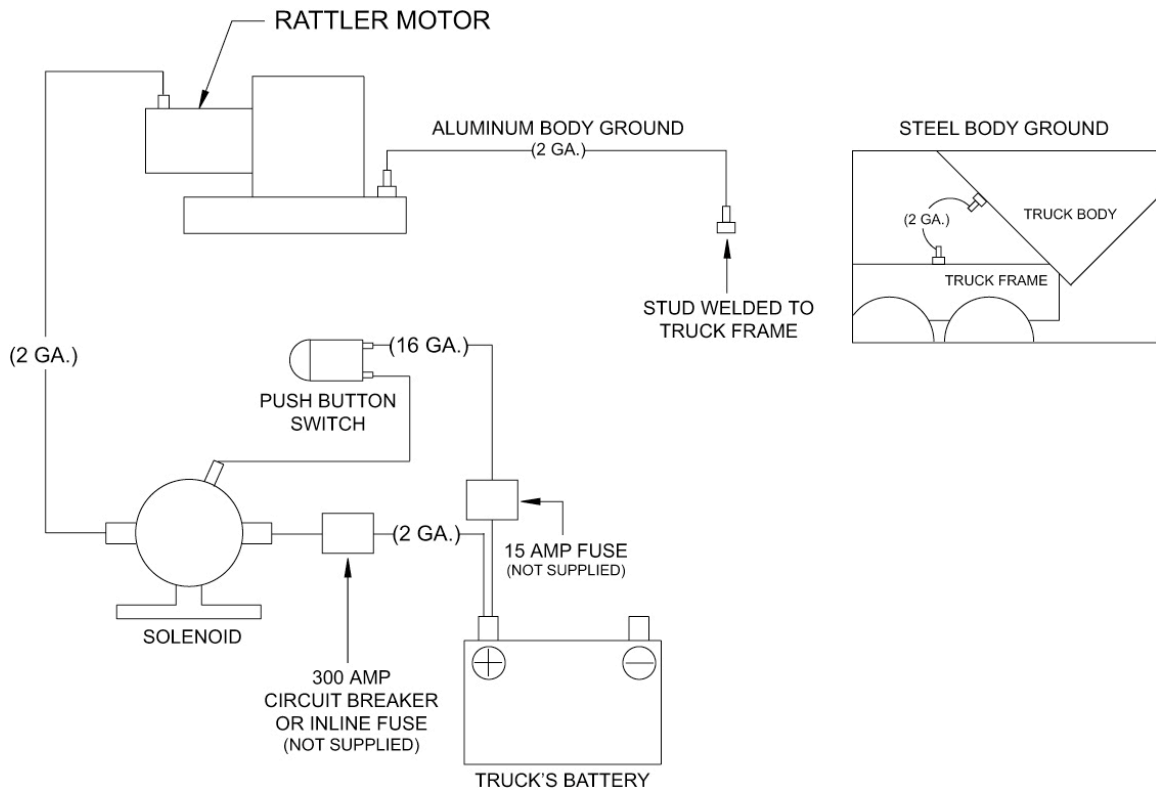
DUMP TRAILER WIRING DIAGRAM



IMPORTANT

Ground as shown. If the ground is insufficient damage to the vibrator may be caused. Warranty will be voided if this occurs.
DO NOT rely on greased hinge points or king pins for grounding.

DUMP BODY WIRING DIAGRAM



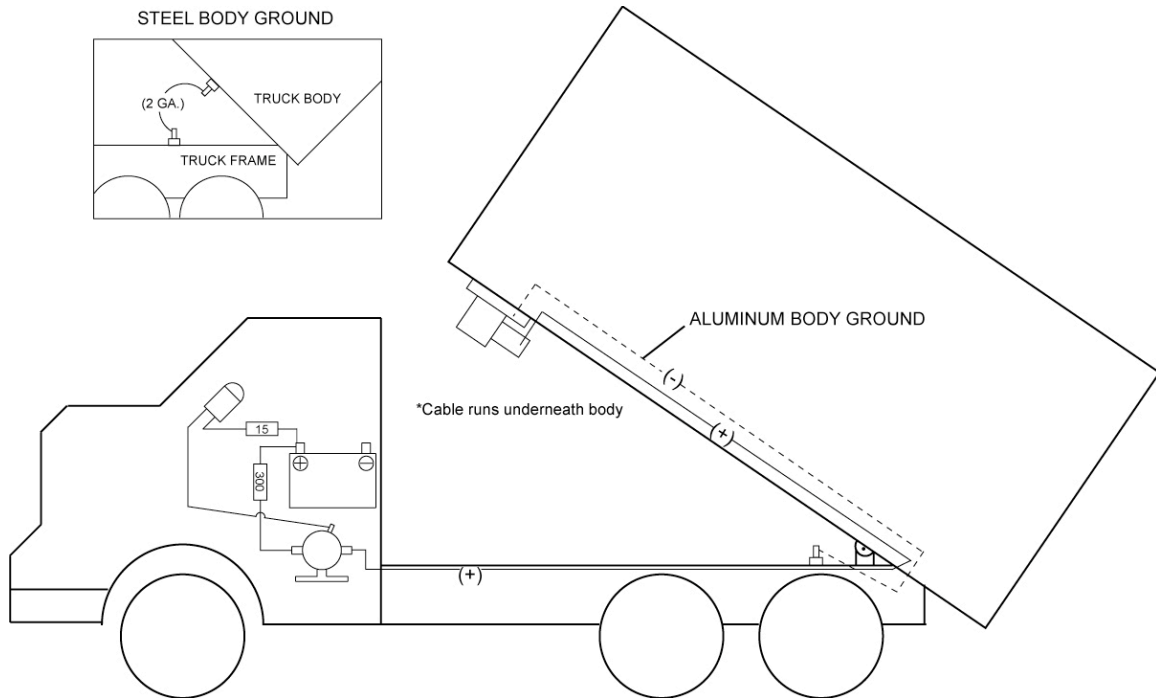
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