Form 1-999R2
May 2022

PARTS & INSTALLATION INSTRUCTIONS

Base Line Tailgate Spreader
Includes Models: BL240 (31000), BL400 (36100), and BL750 (39100)

End user must be given this instruction sheet prior to delievery of this spreader.

SAFETY DEFINITIONS

⚠	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
⚠ DANGER	DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
⚠ WARNING	WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	CAUTION Indicates an potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
CAUTION	CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, will result in property damage.

IMPORTANT NOTICE

In conjunction with FMVSS (Federal Motor Vehicle Safety Standards) and OEM (Original Equipment Manufacturer) guidelines, Meyer Products has designed this spreader with the following guidelines:

CAUTION	Installation of a speader may effect your new vehicle warranty. For more information consult your Vehicle Owner's Manual / Vehicle Dealer.

⚠ WARNING	The vehicle must not be operated when overloaded. In all cases, the loaded vehicle weight, including the spreader, all aftermarket accessories, driver, passenger, options, nominal fluid levels, and cargo must not exceed the front/rear Gross Axle Weight Rating (GAWR), and total Gross Vehicle Weight Rating (GVWR). These weights ratings are specified on the safety compliance certification label on the driver's side door opening. The use of rear ballast weight may be required to prevent exceeding the front GAWR.

According to the NHTSA (National Highway Traffic Safety Administration) new and untitled vehicles need to be verified by the installer that spreader and ballast (if needed) do no exceed the front/rear GAWR and total GVWR.

⚠ WARNING	 Read the Meyer Owner's Manual before operating or servicing a spreader...FOLLOW THESE INSTRUCTIONS EXPLICITLY.

GENERAL INFORMATION

Check contents against the parts list to determine all are correct and included and also to familiarize yourself with them.

CAUTION	Warranty does not apply to a Meyer product which has been negligently or improperly assembled or installed.

CAUTION	CAUTION: To avoid harm to vehicles electrical system always disconnect battery before beginning installation. DO NOT BURN holes or WELD vehicle frame. This may cause frame failure.

OVERHAUL and SERVICE INFORMATION are covered on separate instructions.

Meyer Products LLC reserves the right, under its continuing product improvement program, to change construction or design details, specifications and prices without notice or without incurring any obligation.

Meyer Products assumes no responsibility for installations not made in accordance with these instructions.

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Item	Part No.	Qty.	Description
1	31101	1	• 240 Hopper
1	36101	1	• 400 Hopper
1	39101	1	• 750 Hopper
2	31102	1	• 240/400 Hopper Lid
2	39102	1	• 750 Hopper Lid
3	34413	1	• 240/400/750 Spreader Frame
4	34415	1	• Deflector Bracket
5	34401	1	• Deflector
6	34416	2	• Tube Plug
7	36402A	1	• Motor 12V D.C.
8	34011	1	• Auger Center Post
9	34302	1	• Brush Auger Rock Salt
10	36152	1	• Spinner Hub Weldment
11	36158	2	• Spinner Mounting Plate
12	36415	1	• Spinner (Poly)
13	34414	1	• 240/400 Hitch Assembly
13	34612	1	• 750 Hitch Assembly
14	20007	3	• Bolt H 1/4 - 20 x 1-1/2" Gr. 2
15	20010	4	• Bolt H 1/4 - 20 x 2-1/4" Gr. 2
16	20027	8	• Bolt H 5/16 - 18 x 1" Gr. 2
17	21834	1	• Set Screw 3/8-24 x 3/8
18	22728	1	• Set Screw 3/4-10 SS
19	20303	7	• Locknut 1/4 Esna
20	20313	8	• Locknut 5/16 Esna

Item	Part No.	Qty.	Description
21	20351	8	• Flatwasher 1/4
22	20352	16	• Flatwasher 5/16
23	22996	1	• Bolt H 1/4-20 x 2" SS
24	22997	1	• Locknut 1/4-20 SS
	08259	1	• Hitch Hardware Bag
25	11101	1	•• Hinge Pin
26	20069	4	•• Bolt H 3/8-16 x 3"
27	20314	4	•• Locknut 3/8
28	20353	8	•• Flatwasher 3/8
29	22083	1	•• Linch pin
	31104	1	• 240/400 Accessory Box
30	34405	1	•• Speed Controller
31	36240	1	•• Socket Assy. w/Mtg. Plate
32	36242	1	•• Wire, Red 222"
33	36247	1	•• Wire, Red 96"
	34618	1	• 750 Accessory Box
30	34405	1	•• Speed Controller
31	36240	1	•• Socket Assy. w/Mtg. Plate
32	36242	1	•• Wire, Red 222"
33	36247	1	•• Wire, Red 96"
34	32216	1	•• Ratchet Tie Down Strap
35	32217	1	•• Tie Down Hook

• Parts indented are included in carton, bag, or assembly under which they are indented.

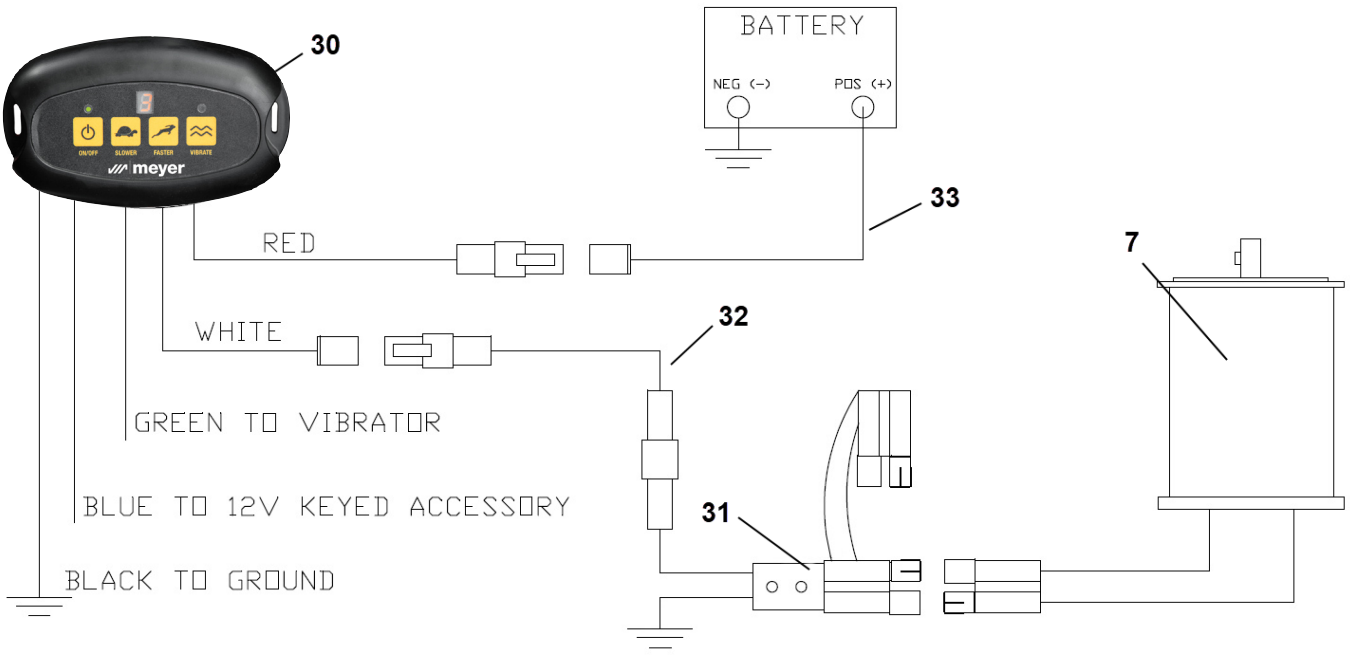

Figure 1

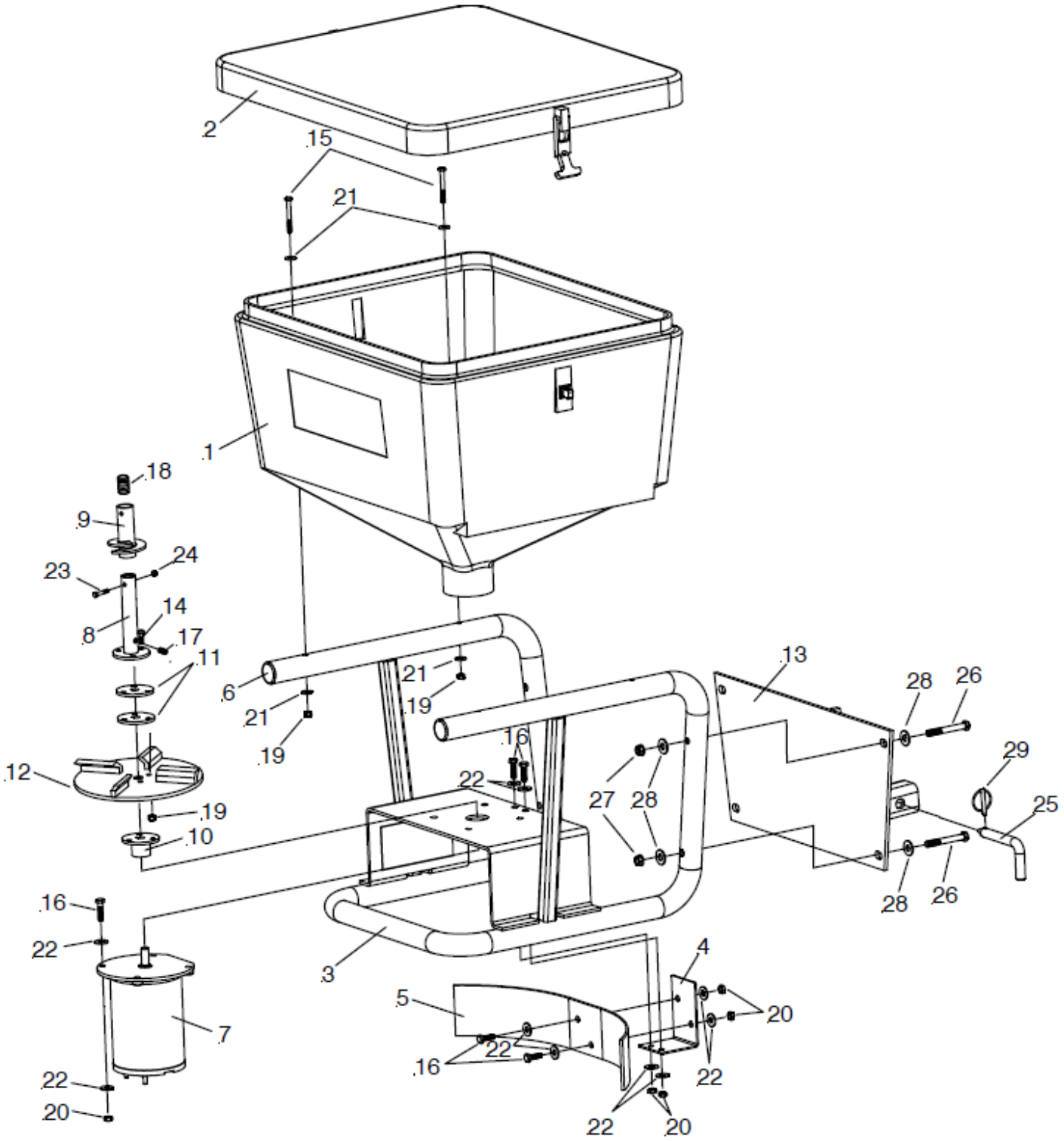
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Figure 2

GENERAL INFORMATION

Locknuts are furnished. DO NOT tighten bolts and nuts until installation is complete (unless otherwise specified), then be sure to tighten all attaching parts per specified torque chart.

TORQUE CHART FOOT

Bolt Nut Size	Gr. 2	Gr. 5	Gr. 8
1/4-20	4-5		
5/16-18	9-11		
3/8-16	17-20	26-29	
7/16-14		42-46	60-66
1/2-13		64-72	99-100
5/8-11		127-141	179-198

INSTALLATION INSTRUCTIONS

Hitch Installation

1. Assemble Hitch Assembly (13) to Spreader Frame (3) using 3/8-16 x 3" Bolt (26), 3/8 Flatwasher (28) and 3/8 Locknut (27).
2. Slide Spreader Assembly into receiver hitch on vehicle and insert Hinge Pin (25) through corresponding hole on receiver and Hitch Assembly (13). Secure Hinge Pin (25) with Linch Pin (29).
3. Tighten all bolts to their required torque using the chart above.

Controller Installation

The Meyer 34405 Speed Controller is an electronic module powered off the switched ignition circuit +12Vdc and supplying the heavy motor current from the +12Vdc battery circuit. The controller will only function with the ignition key in the ON state. The controller is connected to the spinner motor and vibration motors via a custom wire harness that is designed to handle the high motor currents. The controller can be mounted under the vehicle dash using mounting hardware that is provided in the kit. The controller is weatherproof and can be mounted in areas where it will get wet. The controller includes 5 wires as follows:

1. Ignition wire Blue (power to the controller through switched ignition).
2. Power wire Red (power to the controller directly from 12V battery).
3. Output wire White (connects to the spreader motor positive post).
4. Output wire Green (connects to the "optional vibrator motor).
5. Ground wire Black (provides ground for the controller).

After all the above connections been made and ignition switch is at on position. When the controller On/Off button located on the front display panel is momentarily depressed once, the LED above the On/Off button will illuminate and the spreader motor will automatically be activated with 5 full power Blasts and then stop, the On/Off LED will remain steady on. The spreader unit is now activated. The spreader unit will be deactivated if the controller On/Off switch is momentarily depressed a second time. The vibrate motor will start and stop when the vibrate button is depressed only when the unit is activated. LED above the vibrate button will be illuminated when the vibrator motor is activated.

1. Choose a location for the Speed Control (30) that is convenient for the driver. Make certain speed control (30) is grounded by attaching ground wire to a good vehicle ground.
2. Attach the eyelet end of the 96" red wire (33) to the positive terminal of the battery and route the plug end to the location of the speed control. DO NOT attach to Speed Control (30) at this time.
3. Take the 222" red wire (32) and route the large rubber plug end to the rear of the truck, securely tying to vehicle frame. Be certain wire is clear of any sharp or moving objects or the vehicle's exhaust system.

   CAUTION: Some vehicles are designed to operate with exhaust temperatures as high as 1800°F. This can easily damage any wires which are routed too closely or allowed to come in contact with any portion of the exhaust system. Be certain all wires are securely installed away from the exhaust system.
4. Be certain the motor leads will not be strained when the plug is attached. Plug the 222" red wire (32) into the socket. Secure black wire from socket (31) to a good grounding point on vehicle frame. Clean all rust or undercoating from this area.

Operation of Spreader

Fill Hopper with #1 Rock Salt or Calcium Chloride from bags. Do not use sand or bulk material.

> CAUTION: When filling Hopper, make certain there are no large objects contained in the material which could cause the Auger Spinner to bind and stop operation of the Spreader Motor. It is recommended to check for free rotation of the Auger Spinner before operating the Spreader due to possible buildup of material between the Auger and neck of the Hopper.

MAINTENANCE INSTRUCTIONS

Maintenance requirements for the Spreader during the winter season are relatively simple. Periodically inspect for loose bolts and nuts. Inspect for improper ground, broken wires, frayed or cracked wire insulation. Replace as necessary.

To keep maintenance to a minimum, the following cautions are suggested:

1. Do not attempt to clear Auger or Spinner or to perform any other maintenance or repair work on this Spreader unless the ignition switch is in the "OFF" position and the Motor Plug is disconnected from the Socket Assembly (31).
2. Salt must be loose and free from lumps and must be kept dry.
3. Empty Hopper after each use and hose the Spreader off.
4. When the Spreader is no longer being used, remove it from the tailgate. Remove any rust or corrosion from the metal parts, then prime and paint. Store the Spreader in a suitable location to protect from corrosion.