Form No.1-999 R
November 2012

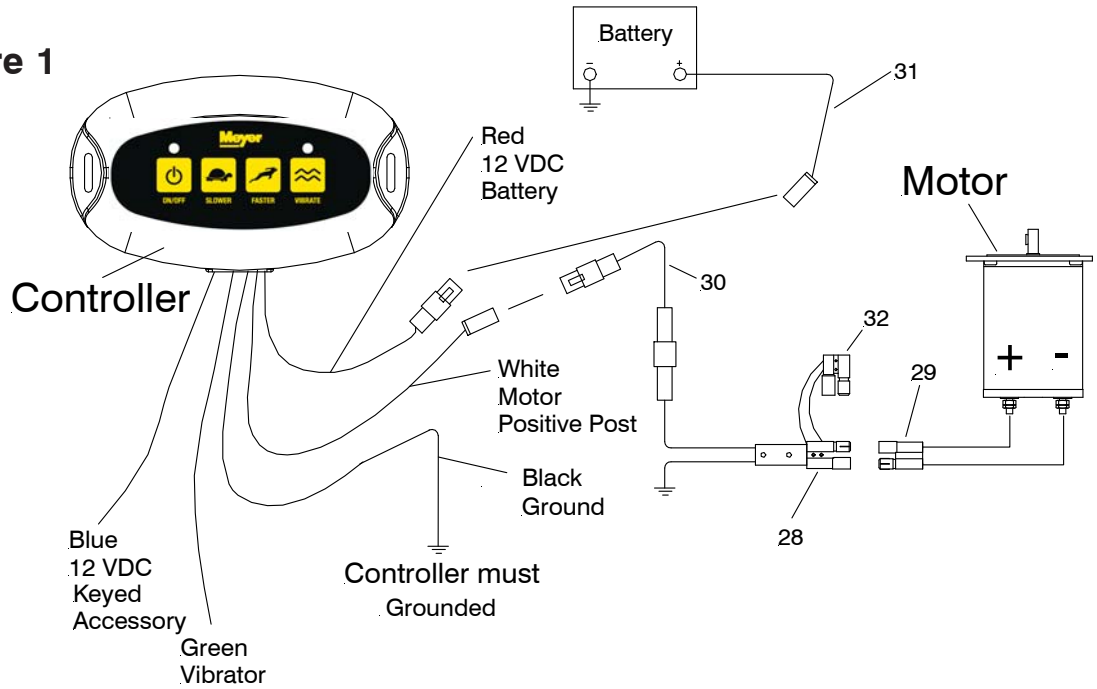
PARTS & INSTALLATION INSTRUCTIONS
MEYER BL 240 (31100) & BL 400 (36100) SPREADER

PARTS LIST

Item	Part No.	Qty.	Description
1	31101	1	• 240 Hopper
1	36101	1	• 400 Hopper
2	31102	1	• Hopper Cover
3	34413	1	• 240/400 Spreader Frame
4	34415	1	• Deflector Bracket
5	34401	1	• Deflector
6	34416	2	• Tube Plug
7	36402	1	• Motor 12V D.C.
8	34004	1	• Auger Weldment
9	36152	1	• Spinner Hub Weldment
10	36158	2	• Spinner Mounting Plate
11	36414	1	• Spinner (Poly)
12	34414	1	• 240/400 Hitch Assembly
13	34405	1	• Speed Controller
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
21	20351	8	• Flatwasher 1/4
22	20352	16	• Flatwasher 5/16
	08259	1	• 240/400 Hitch Hardware Bag
23	11101	1	•• Hinge Pin
24	20069	4	•• Bolt H 3/8-16 x 3"
25	20314	4	•• Locknut 3/8
26	20353	8	•• Flatwasher 3/8
27	22083	1	•• Linch pin
	31103	1	• 240/400 Wiring Kit
28	36240	1	•• Socket Assy. w/Mtg. Plate
29	36241	1	•• Plug Assembly
30	36242	1	•• Wire, Red 222"
31	36247	1	•• Wire, Red 96"
32	36248	1	•• Dummy Plug

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

Figure 1



Meyer Products 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.

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GENERAL INFORMATION

CAUTION: Always disconnect battery before beginning installation.

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

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.

When ordering parts, furnish Part No., Name and Description.

INSTALLATION INSTRUCTIONS

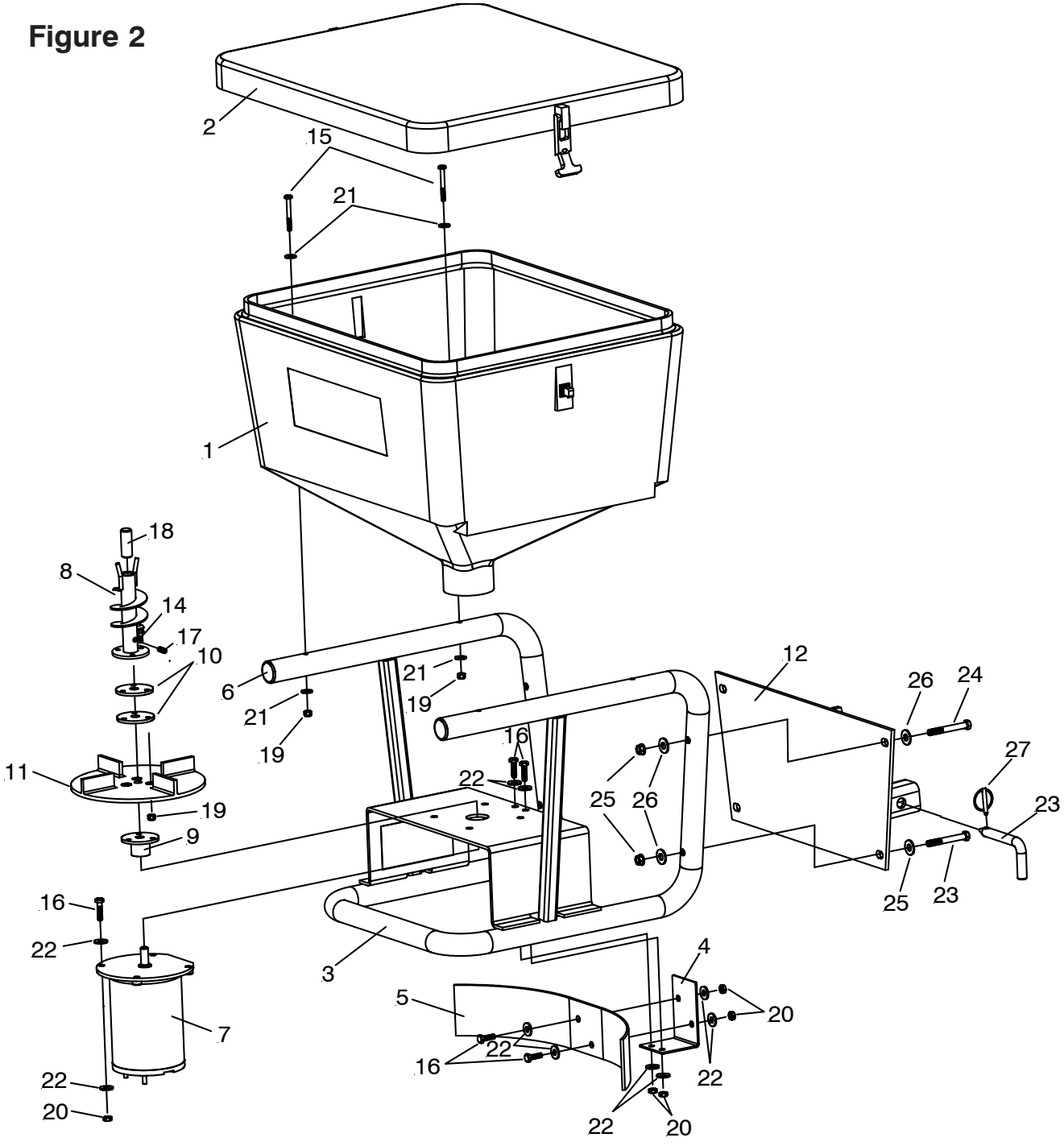
A. Assemble Hitch Assembly (12) to Spreader Frame (3) using 3/8-16 x 3" Bolt (24), 3/8 Flatwasher (26) and 3/8 Locknut (25).

B. Slide Spreader Assembly into receiver hitch on vehicle and insert Hinge Pin (23) through corresponding hole on receiver and Hitch Assembly (12). Secure Hinge Pin (23) with Linch Pin (27).

C. Tighten all bolts to their required torque using the chart below.

D. ELECTRICAL INSTALLATION. Refer to Figure 1.

Figure 2



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

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 (13) that is convenient for the driver. Make certain speed control (13) is grounded by attaching ground wire to a good vehicle ground.

2. Attach the eyelet end of the 96" red wire (31) 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 (13) at this time.

3. Take the 222" red wire (30) 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 (30) into the socket. Secure black wire from socket (28) to a good grounding point on vehicle frame. Clean all rust or undercoating from this area.

5. Attach red wire from motor plug (29) to positive (+) terminal of motor. Tape this connection! Attach black wire to negative (-) terminal of motor. Push plug (29) into the socket (28). If spreader is removed, protect the socket (28) using dummy plug (32).

6. Perform the motor run test as described in paragraphs 3 and 4 of the "Caution" above. If the motor operates 222" red wire (30) and 96" red wire (31) can be attached to their respective terminals on the speed control (13).

E. OPERATION OF SPREADER

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

F. 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 (28) is disconnected from the Socket Assembly (27).

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 the paint. Store Spreader in a suitable location and attach dummy plug (32) to socket (28) to protect from corrosion.

EC DECLARATION OF CONFORMITY

The undersigned representing the manufacturer — *and the authorized representative established within the community*

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herewith declared that the Product: **Snow & Ice Equipment**

Model/Type ref.:

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is in conformity with the Essential requirements of the following EC Directives when subject to correct installation, maintenance and use conforming to its(their)intended purpose, to the applicable regulations and standards, to our operation and maintenance manual.

2006/95/EC	*EC Low Voltage Directive*
2004/108/EC	*EMC Directive*
2006/42/EC	*Machinery Directive*

***and that the Standards and/or technical specifications referenced below have been applied*:**

- χ BS EN 60204-1:2006 / IEC 60204-1:2005: Safety of machinery – Electrical equipment of machines-Part 1: General requirements.
- χ EN ISO 12100-1:2003:Safety of Machinery – Basic Concepts, General Principles of Design Part 1: Basic Terminology and Methodology
- χ EN ISO 12100-2:2003:Safety of Machinery – Basic Concepts, General Principles of Design Part 2: Technical principles
- χ EN 13021:2003+A1- Winter service machines - Safety requirements
- χ EN 61000-6-2: 2005. Generic standards – Immunity for Industrial Environments.
- χ EN 61000-6-4:2005. Generic emission standard, Part 2: Industrial environment.

Year of CE Marking:

***Manufacturer*:**

Signature---
Position---ENGINEERING MANAGER
Date---5-14-2010
Place---CLEVELAND, OHIO

***Authorized Representative in the community*:**

Signature ---
Position---
Date---
Place---