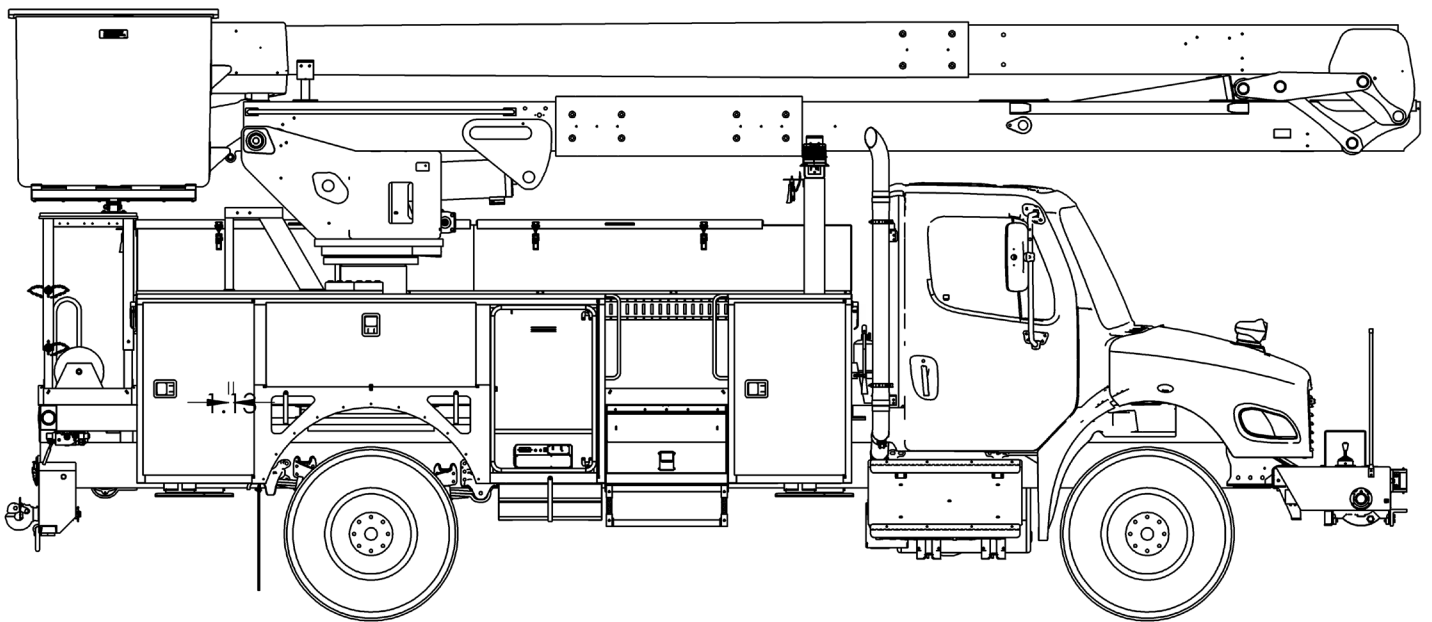




TECH TIPS

ADDING AN INVERTER CONTROLLED BY BUTTON OR IGNITION

NO. 199



SERVICE CALL:
ADDING AN INVERTER
CONTROLLED BY BUTTON OR
IGNITION



MODEL(S):
ALL TEREX UTILITIES EQUIPMENT



TOOLS NEEDED:
DRILL
DRILL BITS
ELECTRICAL TOOLS
SIMPLE HAND TOOLS

TEREX UTILITIES TECHNICAL SUPPORT TEAM

PHONE: 1-844-TEREX4U (1-844-837-3948) | EMAIL: UTILITIES.SERVICE@TEREX.COM



DANGER

Failure to obey the instructions and safety rules in the appropriate Operator's Manual and Service Manual for your machine will result in death or serious injury.

Many of the hazards identified in the Operator's Manual are also safety hazards when maintenance and repair procedures are performed.

DO NOT PERFORM MAINTENANCE UNLESS:

- ✓ You are trained and qualified to perform maintenance on this machine.
- ✓ You read, understand and obey:
 - manufacturer's instructions and safety rules
 - employer's safety rules and worksite regulations
 - applicable governmental regulations
- ✓ You have the appropriate tools, lifting equipment and a suitable workshop.

The information contained in this Tech Tip is a supplement to the Service Manual. Consult the appropriate Service Manual of your machine for safety rules and hazards.



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CONTENTS

TECH TIP#199

TOC

4

| Common Inverter P/N

| Connect positive and negative cables

INTRODUCTION
STEP 1 - STEP 3

5

| Install ground wire

STEP 4

6

| Trigger Wire

STEP 5 - STEP 6

8

| Wiring options

STEP 7 - STEP 9

INTRODUCTION

The common inverters used are 1800W Pure Sine (Terex PN 95295) and 2400W Pure Sine (Terex PN 65329837). This Tech Tip will cover installation of these inverters and programming of the Canview 4 controller.

Note: For older chassis controllers contact Terex Technical support to verify compatibility.

STEP 1

Find a location in the body compartments or truck cab that will protect the inverter from damage. Area should be well ventilated with clearance on all sides to allow airflow. Consult manufacturer's documentation for specific requirements.

STEP 2

Using 2/0 cables, connect the positive and negative (**Figure 1**) from the inverter to the chassis batteries.

Install a 400-amp fuse near the battery box on the positive cable for protection.

Note: Mark 2/0 cables with proper color codes. Red heat-shrink for all positive cables. Black heat-shrink for all negative cables.

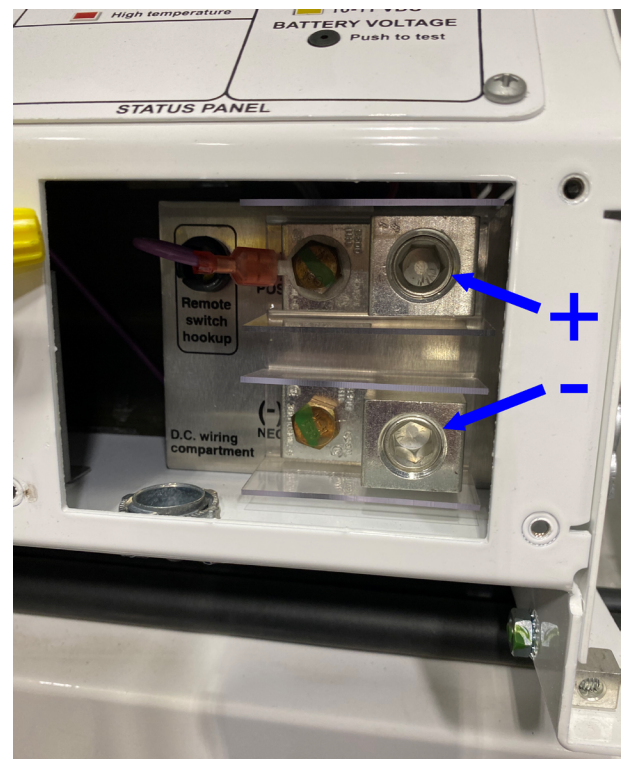


FIGURE 1

STEP 3

To get access to the screw lugs inside the inverter, the front plate will need to be removed first.



STEP 4

Install a ground wire from the ground location on the inverter to the chassis. **Figure 3**
An example drawing is shown on the next page in **Figure 4**.



FIGURE 3

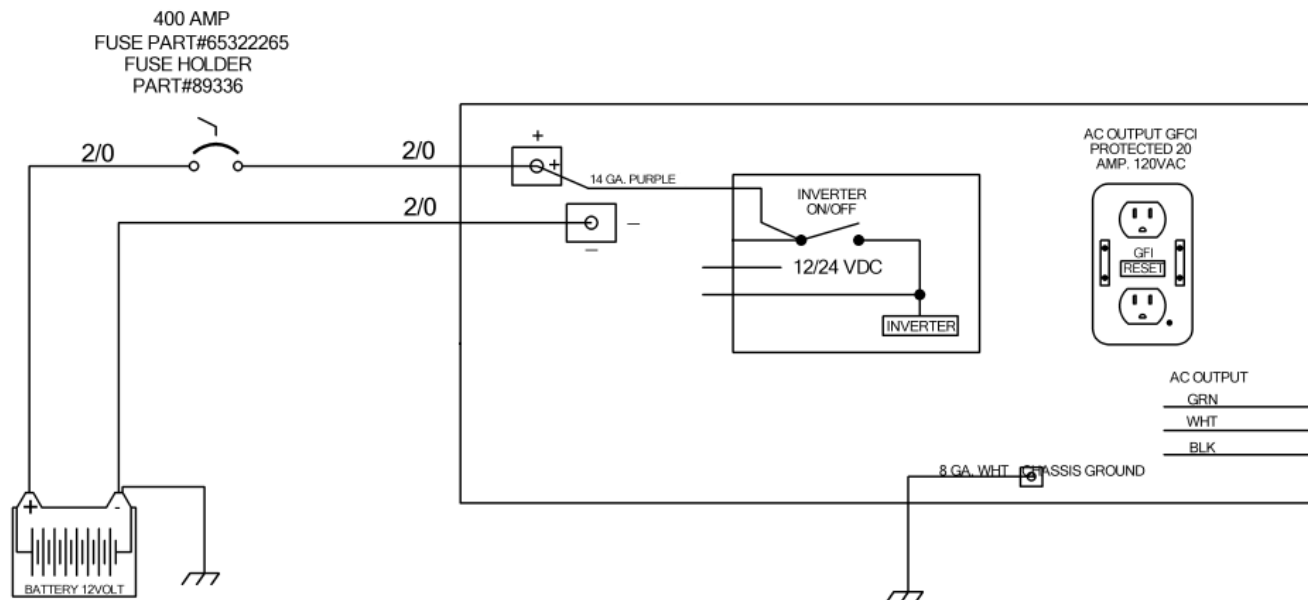


FIGURE 4

STEP 5

If using an external trigger wire, remove the purple wire from the 12v + terminal to the inverter on/off switch.

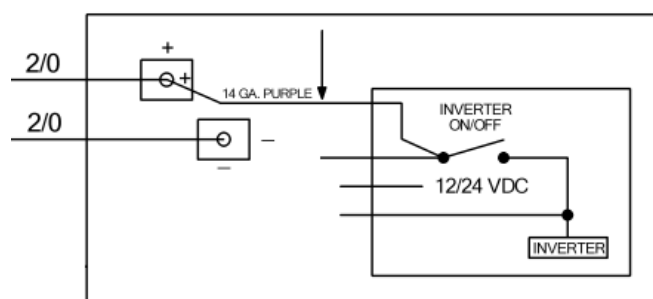


FIGURE 5

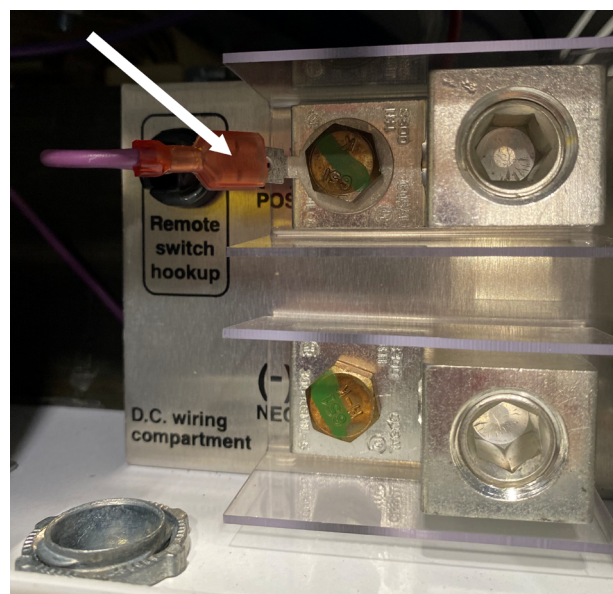


FIGURE 6

STEP 6

Run a 14-gauge purple wire from the combo controller to the purple wire in the inverter. A spade connection to connect the wires together.

The J2 connector (except output 11) will output 12V or an open K-Relay output on the bottom can be used. K-Relay output will require installation of a relay and fuse to operate the output. Either will work and choice will come down to open output circuits on the combo controller.

Note: The biggest deciding factor in choosing how to turn the inverter on usually comes down to operator preference. Do they want to have full control of when the inverter should be ON or OFF or should it turn ON with the key.

To turn the inverter on with ignition, use the fuse terminals on the combo controller. **Figure 7**

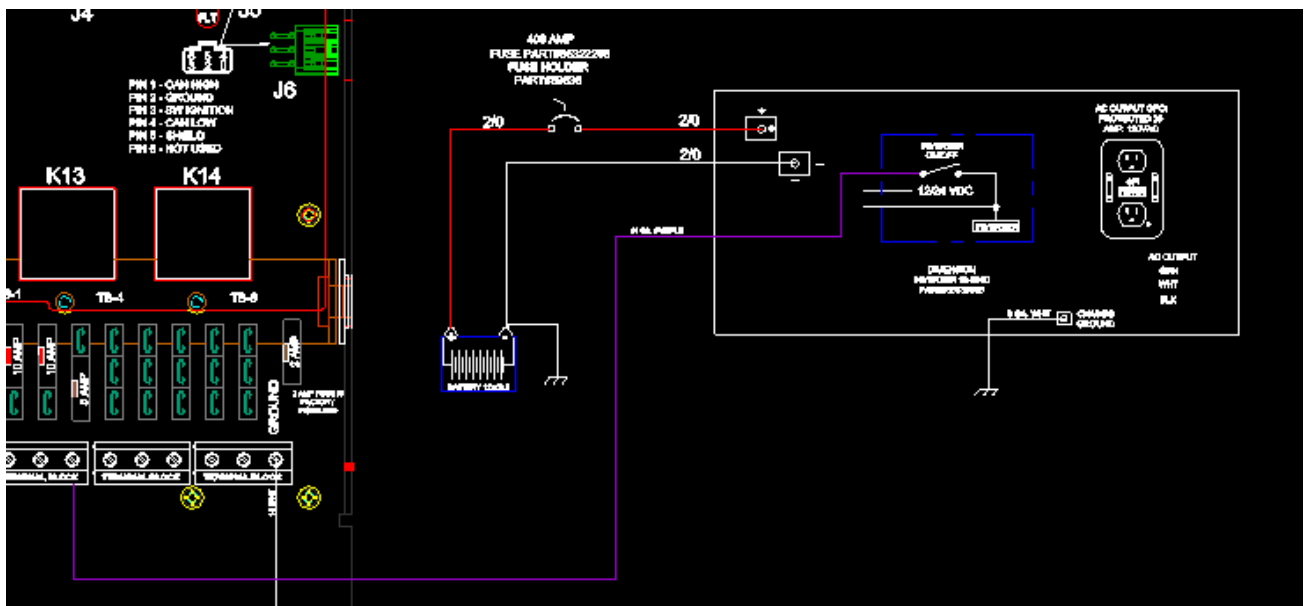


FIGURE 7 - Button Programming



If the option that does not require programming is used, a 5 amp fuse must be placed in a location that allows 12V output when the ignition is ON.

STEP 8

If needing to program an output, please contact Terex Technical support to unlock the Canview 4 screen and to program the button and output.

Note: If chassis controller is older than a Canview 4 controller, Terex will verify programming and send a new program as needed. Contact Terex Technical Support at 1-844-837-3948 for assistance.

STEP 9

If additional outlets are required to be installed, contact the inverter manufacturer for installation procedures.



FOR FURTHER ASSISTANCE,
CONTACT THE TEREX UTILITIES TECHNICAL SUPPORT TEAM
PHONE: **1-844-TEREX4U (1-844-837-3948)** | EMAIL: **UTILITIES.SERVICE@TEREX.COM**
