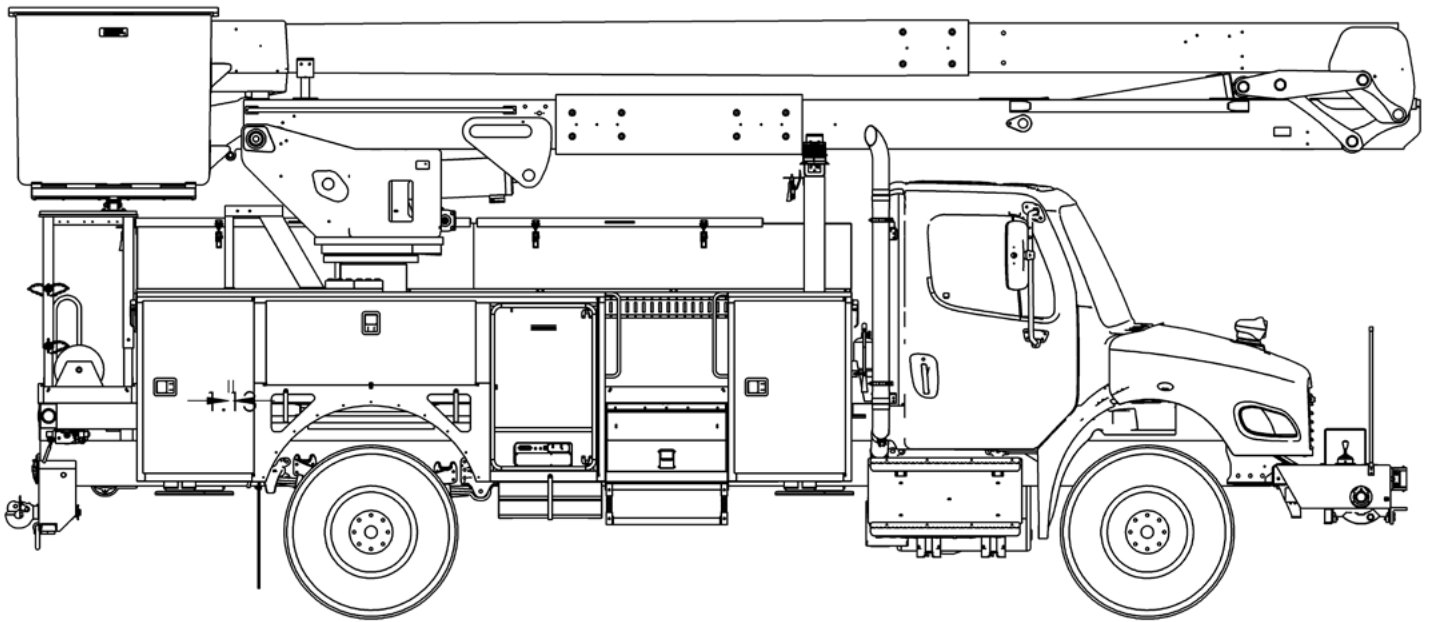




TECH TIPS

IDENTIFYING A TEREX CHASSIS CONTROLLER

NO. 39



SERVICE CALL:
IDENTIFYING A TEREX CHASSIS
CONTROLLER



MODEL(S):
ALL TEREX UTILITIES EQUIPMENT



TOOLS NEEDED:
NONE

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.



TECH TIP 39 | RELEASED 03.24.2022 | VERSION 1.0
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STEP 1

Locate the Terex Chassis Controller. This is usually installed behind the driver's seat or underneath the passenger seat.

STEP 2

There are seven different types of systems used to integrate the mounted equipment with the truck chassis or track vehicle.

1. **International or Freightliner proprietary systems**
2. **Wired-Rite**
3. **DTS-50 system (Light Duty System)**
4. **IFM System**
5. **DTS-51 system (Combo Controller)**
6. **Canview 4 system**
7. **Mini Combo Controller**

INTERNATIONAL OR FREIGHTLINER

Most International Truck chassis will not have a Terex Chassis Controller installed. Exceptions would be units with a 48-volt HyPower™ system.

Some of our installing dealers have also used the system on Freightliner to integrate the unit and chassis.

WIRED-RITE

The Wired-Rite system, sometimes referred to as a mini-box, is no longer used in production units. Pictures of the typical switch panel and the controller are shown below.



Note: Documentation for these systems can be found at <https://wiredrite.com/store/page12.html>

DTS-50 SYSTEM (LIGHT DUTY SYSTEM)

The “Light Duty” system was used on Ford 550, Dodge 5500 and smaller chassis. Exceptions are larger chassis (including International with Diamond Logic) equipped with some Terex HyPower hybrid systems, and larger chassis with limited options.

The switch panels shown will be seen in most installations. Due to additional options or customer requirements, they may be different than the ones shown below.

As of the start of 2021, this system is no longer used in production.



FIGURE 3 - Dodge Switch Panel

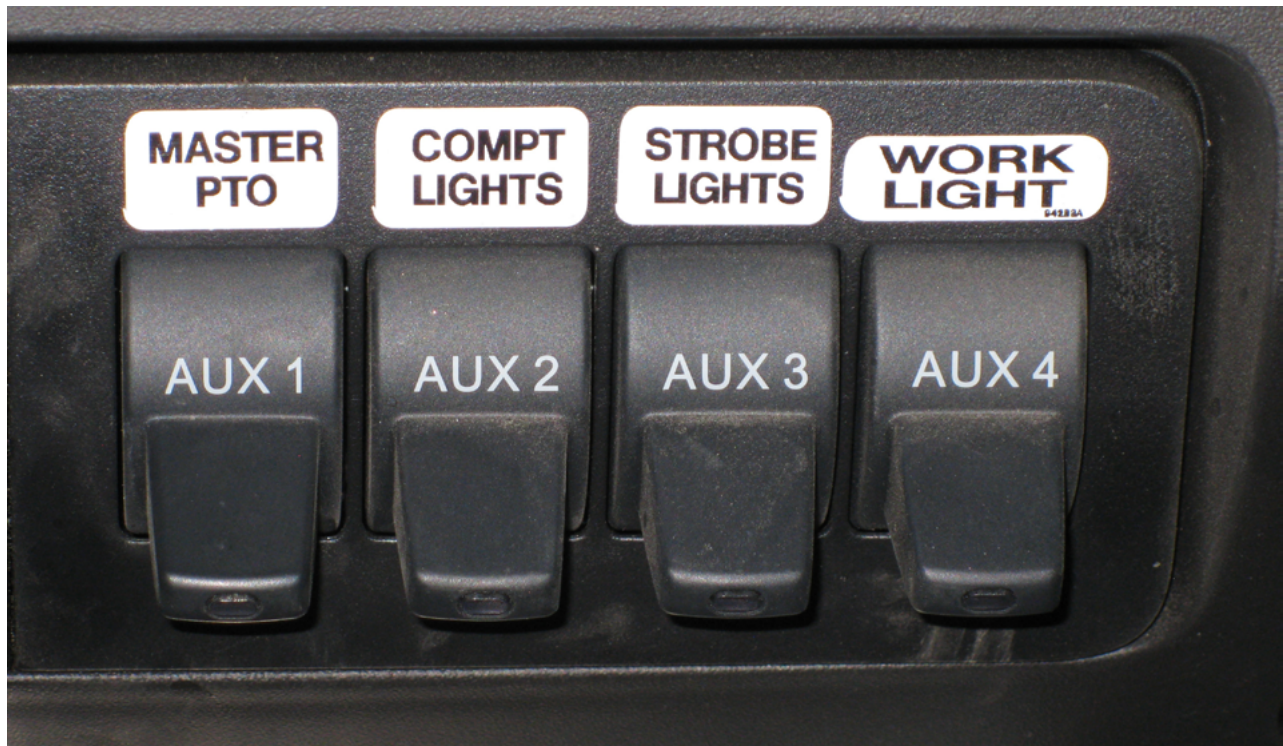


FIGURE 4 - Ford Switch Panel

The light duty control is usually installed behind the driver's seat.

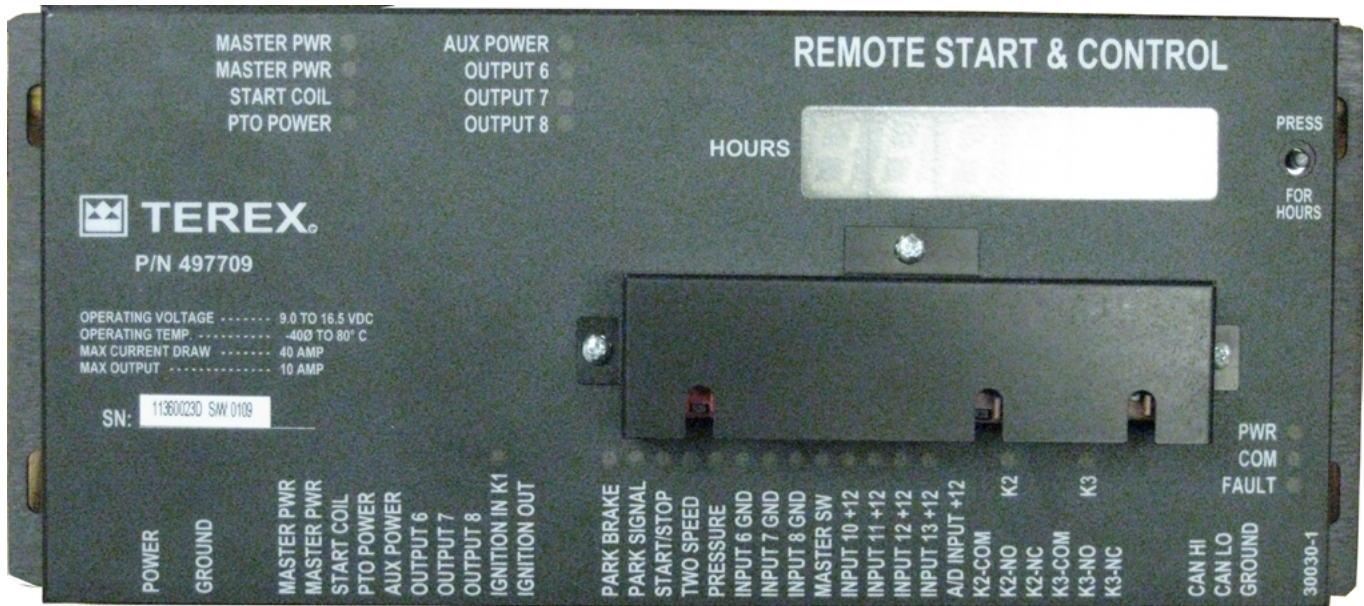


FIGURE 5 - Light Duty Controller

IFM System

The "IFM System" was installed on most chassis larger than Ford 550 or Dodge 5500. This will include International without Diamond Logic, as well as International chassis equipped with Diamond Logic and equipped with the Terex HyPower™ 48-volt hybrid system. This system was phased out of production in 2014.

The switch panel shown will be seen in most installations. Due to options or equipment requirements, they may be different than the one shown below. One example is an IFM Controller using the factory Dodge switches located in the dash.



FIGURE 6 - Display Panel (6 Switch)

The IFM Panel is typically mounted behind the driver's seat.

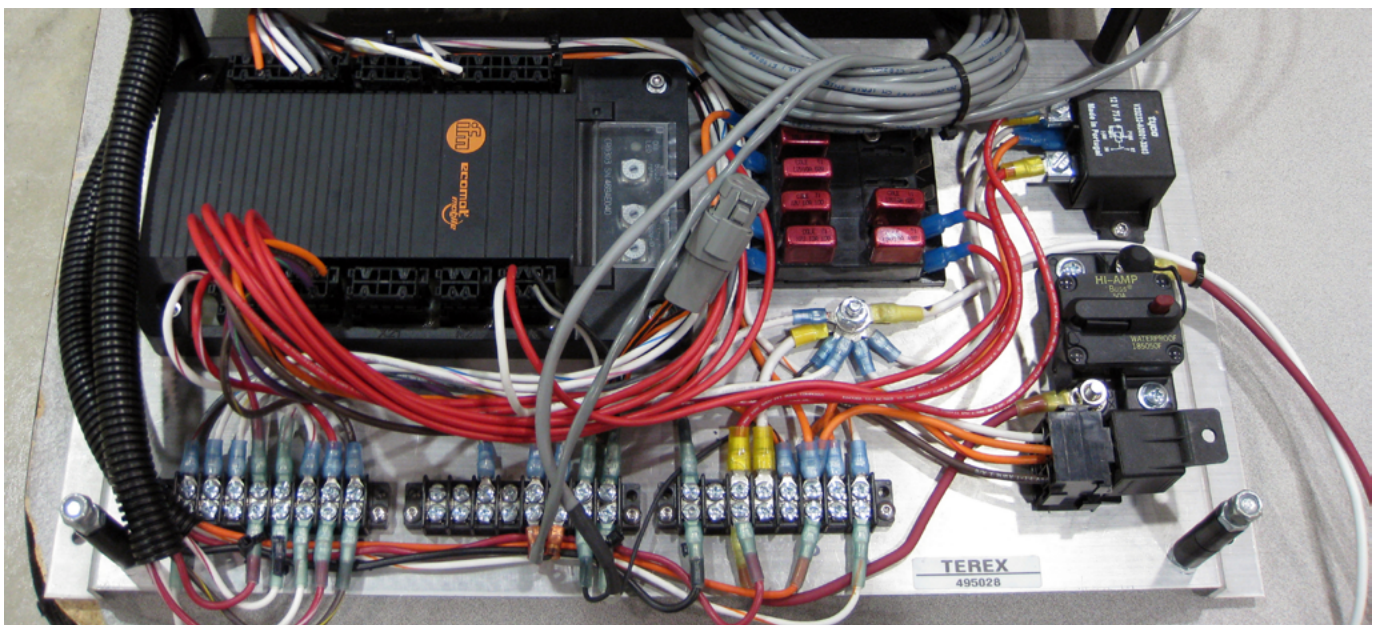


FIGURE 7 - IFM Panel

COMBO CONTROLLER

The “Combo Controller” system is now the current controller on all chassis larger than Ford 550 or Dodge 5500. This will include International without Diamond Logic, as well as International chassis equipped with Diamond Logic if equipped with Terex HyPower 48 volt hybrid system.



FIGURE 8 - Switch and display panel, usually with 8 switches

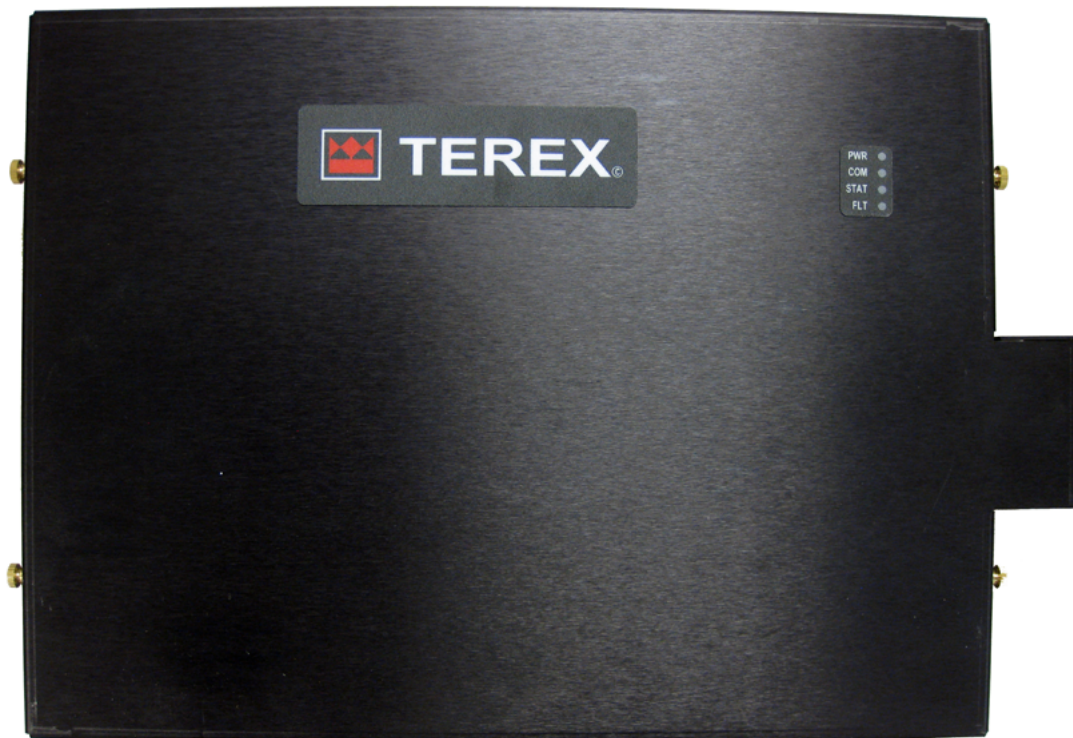


FIGURE 9 - Combo Controller (usually behind driver's seat)

CANVIEW 4 SYSTEM

Canview 4 is used in current production, using a digital display with the standard combo controller. The screen is what holds all the programming. This allows the user to change settings on the fly without having to wait for an updated program to be sent.

The system was rolled out to production in 2 phases.

Phase 1 had no programming ability through the switch panel.

Phase 2 is current and has the ability to be programmed. If a settings option is available, it is a phase 2 controller.



FIGURE 10 - Digital Display

MINI COMBO CONTROLLER

The Mini Combo Controller is also currently used today in production, typically on smaller chassis or stock trucks. This controller is also used with the Canview 4 screen.

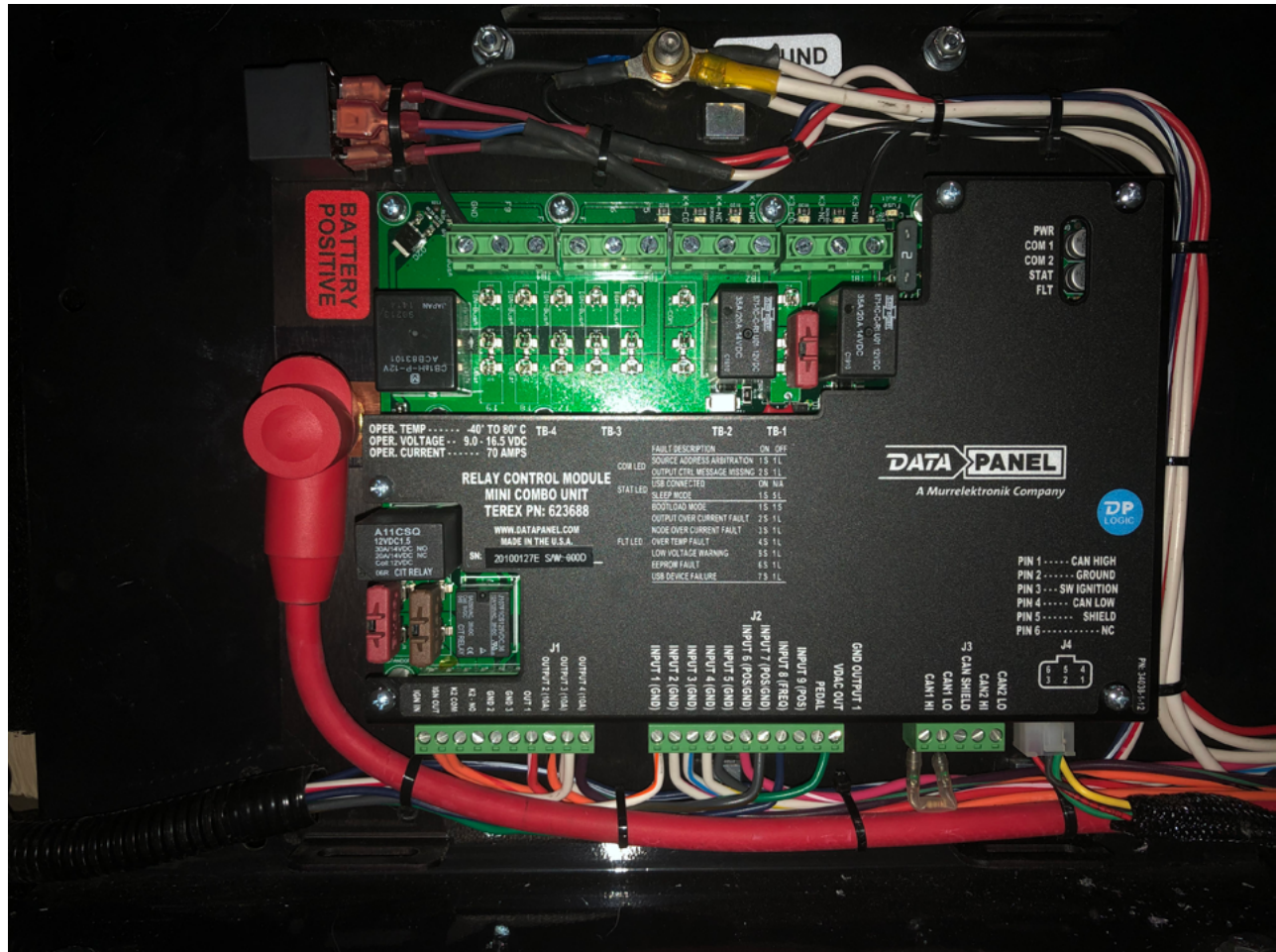


FIGURE 11 - Mini Combo Controller

CONCLUSION

See the appropriate Tech-Tip, Maintenance Manual, or Chassis Controller Manual for the individual Chassis Controller to continue troubleshooting.



FOR FURTHER ASSISTANCE,
CONTACT THE TEREX UTILITIES TECHNICAL SUPPORT TEAM
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