

MOBILE BRAKE CONTROLLER INSTALLATION MANUAL

BEFORE YOU BEGIN

⚠ WARNING Read and follow installation manual carefully. Failure to do so could result in damage to the brake controller unit, loss of trailer brakes or poor brake performance.

- The vehicle must have +12V, ground and turn signals connected to the 7-way socket. Brake output to the 7-way socket is not required.
- See 'Vehicle-Specific Requirements'.
- An existing aftermarket or factory brake controller will not function if Mobile Brake Controller brake controller is installed.
- No special wiring or connectors are required for use.
- Mobile Brake Controller
- Mobile Brake Controller **IS NOT** compatible with Apple CarPlay or Android Auto. However, it will not interfere with these features.
- Mobile Brake Controller is designed to provide a Bluetooth connection, without obstruction, up to 50 ft. Connection may also be limited by the Bluetooth signal of your phone.

⚠ WARNING Avoid distracted driving. Only make adjustments when the vehicle is stationary.

⚠ WARNING Do not mount the Mobile Brake Controller near the exhaust pipe. Failure to do so may result in heat damage, loss of functionality and risk of fire.

NOTICE Prior to driving, test all trailer lights while the trailer is plugged into the Mobile Brake Controller

VEHICLE-SPECIFIC REQUIREMENTS

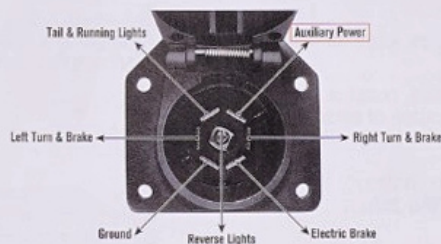
NOTICE If your vehicle comes with a trailering app or towing prep package, it may be necessary to activate a tow / haul mode using a push button or in-dash screen menu. This allows power at the 7-way connector of the vehicle.

See the vehicle owner's manual to enable this feature.

- The Mobile Brake Controller uses the 7-way connector's +12V connection to power the brakes, and it shares this power with the trailer. Ensure the fuse for this connection is rated for 30 amps.
- See the vehicle owner's manual to determine the fuse location.

If the LED on the Mobile Brake Controller does not light when plugged into the 7-way connector, the +12V power pin may not have power from the vehicle. A wire with a diameter of 12AWG needs to be drawn from the positive terminal of the battery and connected to the power supply port of the 7-way connector on the vehicle. The power pins of the 7-way connector are as shown in the picture.

Power supply port diagram of the 7-pin connector



- Clean and store the Mobile Brake Controller in a safe, dry place when not in use. We recommend applying dielectric grease to the terminals.

Some vehicles may require a trailer to be connected to detect a load and activate the +12V power.

Consult the vehicle owner's manual for vehicle-specific details if you are having trouble diagnosing the issue. Known vehicle-specific requirements are listed below:

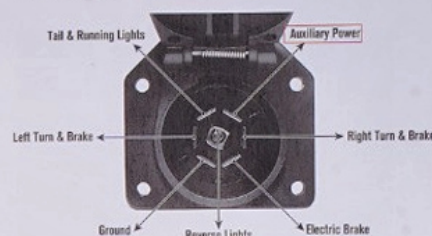
Ford F-150 (2018 to Current)

- Requires tow / haul mode activation and / or load detection on 7-way before the +12V output is activated on the 7-way connector.
- Activate tow mode and connect trailer before attempting Bluetooth connection to the Mobile Brake Controller. The LED on the Mobile Brake Controller must be on.

Ford F-150 (15 - 17)

- These vehicles may turn off the +12V output to the 7-way connector when in park or during gear shifting, making the existing vehicle wiring incompatible with the Mobile Brake Controller. To use Mobile Brake Controller with these vehicles, A wire with a diameter of 12 AWG needs to be drawn from the positive terminal of the battery and connected to the power supply port of the 7-way connector on the vehicle. The power pins of the 7-way connector are as shown in the picture.

Power supply port diagram of the 7-pin connector



DOWNLOAD THE MOBILE APPLICATION

Mobile applications are available for Apple and Android OS. They can be accessed in the App Store or Google Play by scanning the respective QR code below or searching for 'Smart Controller Pro'. The icon of the APP is as shown in the following picture.

- Apple OS Requires IOS 5 or higher
- Android OS requires Android 4.3 or higher
- Bluetooth must be enabled on your device for pairing to occur
- After the app is installed, follow the prompts for setup



App icon



INITIAL SETUP FOR BLUETOOTH CONNECTION

NOTICE The vehicle needs to be running or the ignition in the 'ON' position with the vehicle in park.

NOTICE At any moment during setup, if the LED on the Mobile Brake Controller is red, stop and refer to the 'Troubleshooting Guide'.

1. Enable Bluetooth in your mobile device settings.

NOTICE DO NOT pair the Mobile Brake Controller through your phone's Bluetooth menu. Bluetooth connection will be done through the app in step 3.

2. Prior to insertion you will need to install the safety strap.

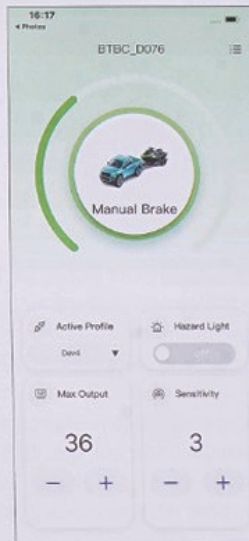
NOTICE The safety strap is located inside the cap of the Mobile Brake Controller unit.

See 'Installing Safety Strap' on adjacent page.

Once the strap and Mobile Brake Controller installed and inserted into the vehicle's 7-way, the LED will flash blue. The Mobile Brake Controller is now ready to be connect with the mobile application.

3. Launch the app and scan for the Mobile Brake Controller. Once the Mobile Brake Controller is visible, select it. Click the link and wait for the connection to be successful. After the connection is successful, the LED light will be solid blue.

4. Plug the trailer's 7-way connector into the Mobile Brake Controller while parked on a level surface. After waiting for 5 to 8 seconds, the lights of the trailer controller will turn green and remain on constantly. Once the device is calibrated the LED will turn solid green.



INSTALLING THE SAFETY STRAP

1. Place the adhesive side of the Velcro tape facing the palm, and insert it through the right buckle of the Mobile Brake Controller.



2. Move the metal snap ring of the Velcro tape to the right snap ring of the Mobile Brake Controller.



3. Insert the Mobile Brake Controller into the 7-way connector of the car.



4. Thread the Velcro fastener tape along the lower end of the Mobile Brake Controller, passing through the left buckle of the Mobile Brake Controller.



5. Wrap the Velcro tape around the seven-way cover and pass it through the metal buckle of the Velcro tape.



6. Tighten the Velcro tape and stick it in the reverse direction onto the application section. After the installation is completed, please refer to the content in Step 2 of the "Bluetooth Initial Setup".



CONFIGURING PROFILE SETTINGS

After successfully connecting to the Mobile Brake Controller, the APP will automatically navigate to the 'Active Profile'. In your 'Active Profile', you can make adjustments to the relevant settings

1. Manual Brake Activation

Activate manual braking, press and hold the manual break.

Manual brake controller activation is used in situations where a slow reduction in speed is desirable. As the manual control is activated, the Mobile Brake Controller begins to apply the trailer brakes. Manual output can be activated by pressing and holding the manual brake button in the app.

2. Brake Output Indicator

The green ring indicates current brake output level.

The green ring is a visual indicator of the current level of power being applied to the trailer brakes. When the vehicle's brakes are fully applied, the level of power and position of the ring is determined by your Max Output setting.

3. Max Output

The maximum level of the brake controller.

The output control establishes the max amount of power available to the trailer brakes when braking. The output should be adjusted during initial setup, when trailer load changes, when different trailers are used or when adjustment is needed for changing road or driving conditions.

4. Sensitivity Level

The sensitivity of the braking power.

The sensitivity level adjusts trailer aggressiveness when activated during braking. Sensitivity adjustment has no effect on the manual brake controller. The sensitivity can be adjusted for individual driver preference, trailer load changes or changing road conditions.

5. Vehicle Hazard Lights

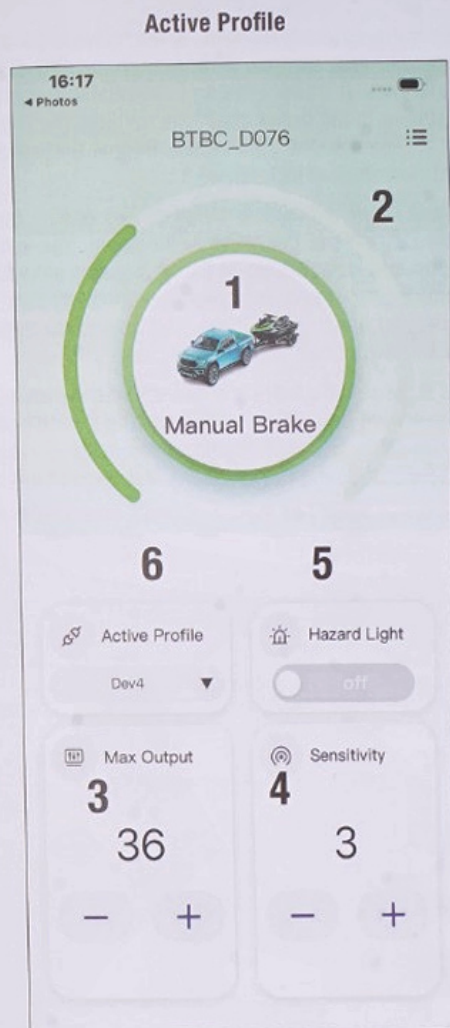
Turn on any time the vehicle's hazard lights are active.

When the vehicle's hazard lights are activated, the trailer brakes may pulse on and off as the lights flash. To prevent this from happening, toggle the switch on any time the vehicle's hazard lights are active.

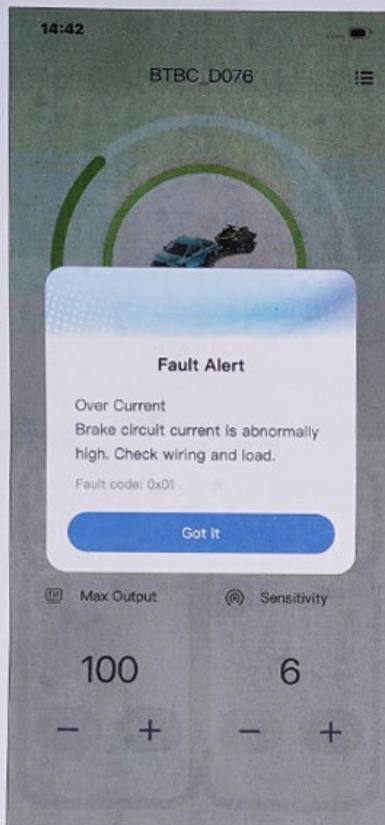
6. User curve selection

The user configuration can be changed according to different weights of user parameters.

The internal of the mobile braking controller can store 5 different user parameters. Users can customize the Max Output and Sensitivity Level to the different weights of the trailers.



CONDITION NOTIFICATIONS



⚠ WARNING If the Mobile Brake Controller detects an overload to the trailer brakes a warning will pop up on your screen. Safely stop the vehicle, disconnect and reconnect the trailer 7-way. If the message reappears, a trailer wiring inspection is recommended.

When an overload fault occurs, the automatic output of the Mobile Brake Controller will maintain a braking force output that will not damage the Mobile Brake Controller, in order to ensure that the user does not lose braking power.



⚠ DANGER If the trailer 7-way has become disconnected from the vehicle a warning will pop up on your screen. Safely stop the vehicle and reinstall your connection. Once connections has been restored, the application will resume with the most recently programmed settings.

TROUBLESHOOTING GUIDE

Condition	Problem Cause	Possible Solution
LED does not light	No power to brake controller, no ground on vehicle 7-way Mobile Brake Controller is in a low-power state	Check vehicle power and ground wiring Trailer mode not activated for vehicle Vehicle requires trailer to activate 7-way power Step on the brake to wake up Mobile Brake Controller.
Unable to connect to mobile devices	No power to brake controller, no ground on vehicle 7-way	Check Mobile Brake Controller LED status for power Enable Bluetooth or grant permissions Check smartphone compatibility
Solid red LED for more than 10 seconds	Hardware fault	Contact the dealer for after-sales service
Flashing red LED	Contamination in trailer plug socket	Check for clean and dry trailer plug
	Short in trailer brake wiring	Locate and correct short
	Accelerometer error	Unplug the brake controller and plug it back in
	Short or overload in trailer brakes	Troubleshoot trailer brake circuit per brake manufacturer's instructions
No trailer brakes, pedal or manual	Mis-wired 7-way connector Improper or corroded trailer wiring Weak or missing ground	Confirm vehicle and trailer 7-way connections
No trailer brakes, pedal or manual (device notification of error)	Loss of trailer connection, unplugged or bad wiring	Confirm vehicle and trailer 7-way connections
No response on manual override or brake output	Mis-wired 7-way connector Improper or corroded trailer wiring No or intermittent power to brake controller Weak or missing ground Wireless connectivity error	Confirm vehicle and trailer 7-way connections Check Bluetooth and application settings
Reduced braking power on manual override or brake output	Weak or missing ground Improper max power or sensitivity settings Improper or corroded trailer wiring	Confirm vehicle and trailer 7-way connections Check Bluetooth and application settings Increase max power or sensitivity settings
Trailer brakes on all the time (LED shows red)	Mis-wired 7-way trailer connector	Confirm vehicle and trailer 7-way connections
App signals 'low voltage'	Low battery voltage	Check vehicle battery and replace if needed Confirm vehicle 7-way connections and wiring
App signals a 'disconnect'	Trailer connector is disconnected	Reconnect the trailer connector Confirm vehicle 7-way connections and wiring
App signals 'overcurrent'	Trailer brakes are overloaded	Reconnect the trailer connector Confirm vehicle 7-way connections and wiring Check trailer brake wiring for short circuits

TEST DRIVE & ADJUSTMENT

Both the output and sensitivity can be adjusted to achieve smooth, firm stops. Output and sensitivity adjustments should only be made while stopped, with the transmission in park or neutral, parking brake applied, foot off the brake pedal, and no manual control actuation. **Note:** Perform the adjustments in a safe environment with minimal vehicle traffic.

Starting with the output adjustment, drive forward on a dry and level paved or concrete surface. At approximately 25 mph, apply the vehicle's brakes. If trailer braking is insufficient, increase the max output setting in the brake controller application. If the trailer brakes lock up, decrease the max output. Repeat this process until stops are firm, just short of lock up.

Once the output is set, adjust the sensitivity by driving forward at approximately 25 mph and press the brake pedal. The vehicle and trailer should make a smooth stop. If the stop seems slow and more aggressive braking is desired, increase the sensitivity level through the brake controller application. If the stop seems too aggressive, decrease the sensitivity level in the application.

Make several stops at various speeds and adjust the sensitivity until stops are smooth and firm. Slight adjustment to the output control may also be desirable. **Note:** If any problems occur during setup, refer to the 'Troubleshooting Guide' on the last page of this manual.

LED STATUS INDICATOR

A single LED on top of the Mobile Brake Controller shows the status of the brake controller unit. Refer to the icons and descriptions below.



No Mobile connected,
no trailer connected
(flashing blue)



Mobile connected,
no trailer connected
(solid blue)



Calibrating Mobile
Brake Controller
(flashing yellow)



No Mobile connected,
trailer connected
(flashing green)



Mobile connected,
trailer connected
(solid green)



Wiring error
(flashing red)



Hardware fault
(solid red)



No power
(no light on)

Indicator	Status
Flashing blue	No Mobile connected, no trailer connected
Solid blue	Mobile connected, no trailer connected
Flashing yellow	Calibrating Mobile Brake Controller
Flashing green	No Mobile connected, trailer connected
Solid green	Mobile connected, trailer connected
Flashing red	Wiring error
Solid red	Hardware fault

AUTOMOBILE REAR LIGHT WIRING INSPECTION FUNCTION

This vehicle braking controller has the function of detecting the wiring of the car rear light. You can access the settings interface of the application by clicking on the upper right corner. In the settings interface of the application, select this function option to use this feature.

When the corresponding vehicle's light are turned on, the corresponding table box in the APP will change from a red "x" to a green "√".

