ECU Mounting Bracket Installation

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<th>Item</th>
<th>Component</th>
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<td>1.</td>
<td>Bracket, ECU Mounting</td>
<td>202-0497-01</td>
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<td>2.</td>
<td>Coupling, M6 x 38mm</td>
<td>519-0033-01</td>
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<td>3.</td>
<td>Standoff, M5 x 30 Male-Female</td>
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Overview

These instructions provide the suggested location and procedure for installing the ECU Mounting Bracket on qualified vehicles for the easiest installation and best performance. The ECU Mounting Bracket can be used to mount various types of ECU devices such as the GeoSteer Control Unit (GCU) or ECU4. Use these instructions for the basic explanation of how and where to mount the ECU Mounting Bracket and then attach the required ECU as needed.

Note: The installer can mount the ECU in alternative locations than the one suggested by the manufacturer so long as the mounting point is firmly attached to the frame of the vehicle, square with the direction of travel of the vehicle at all axes, located where it will not interfere the driver or normal operation of the vehicle, and protected from being damaged. If the ECU is mounted in an alternative location, verify the proper orientation is selected in the AutoSteer setup steps when required.

Note: Always refer to your AutoSteer system documentation to ensure this ECU Mounting Bracket Kit meets the mounting requirements (ex. orientation, ECU device) for your device and use case.

Supported Vehicles

The following models have been confirmed to be compatible with this ECU Mounting Bracket Kit:

Supported Make, Models, and Year Model was First Released | Page
--- | ---
Challenger MT515D, MT525D, MT535D, MT545D, MT555D, MT565D, MT575D, MT585D (2012 -) | 3
Challenger MT525B, MT535B, MT545B, MT555B, MT565B, MT575B (2004 -) | 3
Challenger MT585B, MT595B (2011 -) | 3
Challenger MT635B, MT645B, MT655B, MT665B (2005 -) | 3
Custom Installations on Non-Supported Vehicles | 6
Massey Ferguson 7465, 7475, 7480, 7485, 7490, 7495 (2004 -) | 3
Massey Ferguson 7497, 7499 (2009 -) | 3
Massey Ferguson 7619, 7620, 7622, 7624 (2012 -) | 3
Massey Ferguson 8450, 8460, 8470, 8480 (2004 -) | 3
Install ECU Mounting Bracket

1. Locate the bottom window at the rear of the cab.
2. Identify the two screws on at the rear window latch at the top and the two nuts holding the bottom, rear window in that will be used to hold the ECU Mounting Bracket.
3. Remove the two M5 screws with a T-20 Torx driver.
4. Attach two M5 threaded standoffs.
5. Tighten the standoffs with an 8mm socket and ratchet.
6. Remove the two nuts holding the bottom brackets on the rear window with a 10mm socket and ratchet.
7. Attach a M6 standoff to each of the screws.
8. Tighten the standoffs with an 11mm socket and ratchet.

9. Place the ECU Mounting Bracket over the four standoffs.
10. Attach the top part of the bracket with the two M5 screws removed earlier.
11. Attach the bottom part of the bracket with two M6 x 1.0 x 20mm hex bolts and M6 flat washers.
12. Tighten the top screws with a T-20 Torx driver.
13. Tighten the hex bolts with a 10mm socket and ratchet.

14. Verify that the threaded inserts are orientated correctly.

Note: The wide part of the threaded insert should be on the bottom side of the ECU Mounting Bracket so the screws have to go through the bracket to attach. Attaching the screws to the wrong side may allow the inserts to be pulled out from the bracket.
15. Attach the ECU device to the mounting bracket with four 8-32 x 3/4” Hex Screws using a 1/4” nut driver. Do not over tighten.

**Note:** The connectors should face the right side of the vehicle.

16. Attach the required cables and harness to the ECU device to complete this portion of the installation.

**Note:** GeoSteer Control Unit showed installed for reference.
Custom Installations on Non-Supported Vehicles

This ECU Mounting Bracket can be modified as necessary to fit other vehicles not covered in this manual or mounted in alternative locations on the vehicle. The ECU Mounting Bracket can be modified by drilling new mounting holes in the bracket to match hole patterns on the machine. When installing the ECU Mounting Bracket in a custom location always keep in mind the following requirements:

- Confirm that the ECU device is mounted square in all directions (horizontally, vertically, and front to back) to the direction of travel of the vehicle after it is installed. The ECU device must be mounted within 2 degrees of square in all angles for best vehicle performance.
- If mounted by the seat, confirm that there is sufficient clearance around the seat to accommodate the ECU Mounting Bracket and ECU device as the seat suspension moves up-and-down even with the seat at its lowest level (ex. all the air removed).
- If mounted by the seat, confirm that there is sufficient clearance to allow the seat to rotate at all heights without interfering with the ECU Mounting Bracket and ECU device.
- If mounted outside the cab, confirm that the ECU Mounting Bracket and ECU device are protected from damage from crops while in operation.
- Confirm that the ECU Mounting Bracket and ECU device do not interfere with any of the vehicle’s control levers, knobs or other components.
- Confirm that the ECU Mounting Bracket and ECU device do not interfere with the operator’s visibility while operating the vehicle.
- Confirm that the ECU Device when mounted will not be damaged by falling objects or placed where other material can be piled on top of it.
- Confirm that the ECU Mounting Bracket is firmly secured to the vehicle.