

# ECU **Callsheet** for Bostig 2010

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The ECU for the Bostig 2010 has changed from the previous v1.0 and v2.0(up to Group 6) ECU.

The change was made for several reasons, chiefly so that the end user can source an ECU on their own should it need replacement. Prior to v2.0 Group 6, the ECU needed the Passive anti-theft key to be programmed to the ECU before the ECU would function. Additionally the older style SCT Xcal 2 could not be unlocked by the end user, so in the event of an ECU failure, the ECU, PATs key, and SCT handheld would all have to come here to be moved to a new ECU. With the v2.0 Group 6+ ECU, if the ECU is still able to communicate with the SCT it can be replaced by the end user without the need to send anything anywhere.

The ECU now being used is from **1998-2000 Ford Ranger trucks with 2.5 liter 4 cylinder engines and manual transmissions**. The ECU was chosen for it's ability to run our custom tune on the zetec, and for it's availability and therefore price.

Sourcing the ECU is done in two main steps:

- I. Find out who has one via car-part.com
- II. Call them, verify it is correct, and pay.

Sourcing the ECU is also best done through car-part.com:

1. For the year use 1998, 1999, or 2000.
2. For the vehicle select "Ford Ranger".
3. You can then choose to search by geographic area, or search all locations(ECUs are cheap to ship, so this is usually the best option).
4. Finally you'll choose "Sort by price/Select sort" to shows results by price.
5. You will then see a huge list of possible ECUs in a grey box, don't panic.
6. You are only interested in the results that match our criteria. Acceptable listings will appear as shown below:

OK {

NO-K {

- Elec Cont Unit (ECU), (R. Rr eng, thru firewall), 4-153 (2.5L), MT, std emis (Fed), ID F87F-SA
- Elec Cont Unit (ECU), (R. Rr eng, thru firewall), 4-153 (2.5L), MT, std emis (Fed), ID F87F-SB
- Elec Cont Unit (ECU), (R. Rr eng, thru firewall), 4-153 (2.5L), MT, std emis (Fed), ID F87F-SC
- Elec Cont Unit (ECU), (R. Rr eng, thru firewall), 4-153 (2.5L), MT, std emis (Fed), ID XL5F-DA
- Elec Cont Unit (ECU), (R. Rr eng, thru firewall), 4-153 (2.5L), MT, low emis, ID F87F-TC
- Elec Cont Unit (ECU), (R. Rr eng, thru firewall), 4-153 (2.5L), AT, std emis (Fed), ID F87F-UA
- Elec Cont Unit (ECU), (R. Rr eng, thru firewall), 4-153 (2.5L), AT, std emis (Fed), ID F87F-UB
- Elec Cont Unit (ECU), (R. Rr eng, thru firewall), 4-153 (2.5L), AT, low emis, ID F87F-VA
- Elec Cont Unit (ECU), (R. Rr eng, thru firewall), 4-153 (2.5L), AT, low emis, ID F87F-VB
- Elec Cont Unit (ECU), (R. Rr eng, thru firewall), 6-183 (3.0L), 4x2, MT, std emis (Fed), ID F87F-XA
- Elec Cont Unit (ECU), (R. Rr eng, thru firewall), 6-183 (3.0L), 4x2, MT, std emis (Fed), ID F87F-XB
- Elec Cont Unit (ECU), (R. Rr eng, thru firewall), 6-183 (3.0L), 4x2, MT, std emis (Fed), ID F8PF-EPA

Note the pattern:

4-153 (2.5L) ← Engine we want

MT ← Stands for manual transmission, also what we want

std emis ← doesn't mean a nasty medical condition from not using protection, it specifies standard federal emissions these are fine.

low emis ← means low or CA emissions, either std or low emissions will work fine.

ID XXXX-XX ← ECU ID, this is important, compare this number vs the table on the last page for verification. If it's there, you should be fine.

7. Select a listing that matches the criteria above. Write down the ID number before you click the search button.
8. The search results for ECUs will display. Immediately scroll all the way to the bottom of the page to see the pages returned. Click on the page with the "\*" next to it, as it will display the least expensive ECUs in those results. (pictured below, in this case page 7)

**Additional Result Pages ( \* - page with lowest/not priced part )**

1 2 3 4 5 6 **7** 8 9 10 11

**OR**

**Request a [Quote](#) from hundreds of recyclers**

9. On the page with the least expensive results, see if the pricing is acceptable (should be no more than \$50, they can be had as cheap as \$20), also look at the location, if they are too far away hit back in your browser a couple times and repeat steps 7-9 until you have a couple options that look good. If you can't find a price you like (unlikely), or really want to exhaust all possible listings, you can also start at step 1 and change the year, which will present a new set of ID listings to choose from to work steps 7-9 against.
10. Write down the name/number of the yard with the listings you're interested in.
11. Call the yard. They will likely answer the phone with the name of the yard. Tell them simply "I'm looking for an engine computer for a 1998(or whatever year you're using) Ford Ranger" say no more than this unless prompted.
12. Typically they will then ask you "I've got a bunch here, what transmission" or "Do you have the ID number", to this, reply with the ID option you chose in step 7.

TIP: it helps to read the ID with the radio alphabet(alpha, bravo, charlie, delta...) to prevent miscommunication, the cadence for the ID number is the first four characters of the ID then pause or insert "ending in" and the last two characters after the hyphen.

13. If they think they have it, they will either have it on a shelf, or it may still be in a vehicle. In either case, ask that someone verify the hardware ID on the white sticker on the main gray ECU connector before shipping it. ECUs are not returnable and sold as is, this is not usually a problem unless you get the wrong one! Yards are usually unfamiliar with the hardware ID, but it's easy to explain:

"The hardware ID is the code in the top line of the sticker above the barcode, it should read **ML2-712** if it does, I can use it."

Here is a picture of the sticker as an example of a usable ECU:



14. If they have to call you back after they check(common), make sure you get the name of the person you are talking to and write it down next to the yard info and number in case you need to follow up.

*Table of usable IDs on car-part.com*

XL5F-ARB	F87F-JA	F87F-SC	F87F-CBA	XL5F-BRA
XL5F-ARC	F87F-JB	F87F-TA	XL5F-ARA	XL5F-BRB
XL5F-BHB	F87F-JC	F87F-TB	XL5F-ARB	XL5F-BSA
XL5F-BHC	F87F-KA	F87F-TC	XL5F-ARC	XL5F-BSB
XL5F-BJB	F87F-KB	XL5F-ARB	XL5F-BHA	XL5F-BTA
XL5F-EC	F87F-KC	XL5F-ARC	XL5F-BHB	XL5F-BUA
XL5F-ED	F87F-KD	XL5F-BHB	XL5F-BHC	XL5F-DA
F87F-BMA	F87F-PA	XL5F-BHC	XL5F-BJA	XL5F-EA
F87F-BMB	F87F-PB	XL5F-BJB	XL5F-BJB	XL5F-EB
F87F-BMC	F87F-PC	XL5F-EC	XL5F-BKA	XL5F-EC
F87F-CAA	F87F-SA	XL5F-ED	XL5F-BLA	XL5F-ED
F87F-CBA	F87F-SB	F87F-CAA	XL5F-BPA	