

SAFETY RECALL

This modification has top priority. This bulletin must be performed immediately to ensure customer safety.

NOTE: Bulletins that announce a recall will have an "R" at the end of the bulletin number.

CERTAIN 2022-2024 XSR900, 2021-2025 MT-09, 2021-2025 MT-09 SP, 2021-2022 TRACER 9 GT, 2024 TRACER 9 GT+, 2022-2025 MT-10, AND 2022-2025 MT-10 SP MOTORCYCLES

FACTORY MODIFICATION CAMPAIGN – ECU Programming Error



INTRODUCTION

Yamaha Motor Company, Ltd. has decided that a defect exists in certain 2022-2024 XSR900, 2021-2025 MT-09, 2021-2025 MT-09 SP, 2021-2022 Tracer 9 GT, 2024 Tracer 9 GT+, 2022-2025 MT-10, and 2022-2025 MT-10 SP motorcycles.

In affected motorcycles, brushes inside the Throttle Position Sensor (TPS) will slide excessively due to improper ECU programming. While the motorcycle is driven, this excessive sliding generates abrasion particles that can accumulate on the contact points in the TPS. This illuminates the malfunction indicator light (engine trouble warning light) while displaying a P2135 fault code on YDT. This can also cause unstable idling and engine stalling, potentially resulting in loss of control and a crash with severe injury or death.



To correct this issue, Yamaha is initiating a Factory Modification Campaign. Affected motorcycles that are new and unsold must have the ECU reprogrammed ("reflashed") with the latest updated version. Motorcycles that have been sold or used as demo vehicles must have both the ECU reprogrammed and the TPS replaced with a new one. Yamaha is notifying all registered owners of affected motorcycles by mail. A copy of this letter is included in this bulletin. The customer should take this letter along with the affected vehicle to an authorized Yamaha dealer for modification.

NOTE: ECU reprogramming DOES NOT alter any emissions certification settings.

If your dealership was invoiced for one or more affected vehicles, a computer report listing all affected motorcycles invoiced to your dealership is included with a mailed copy of this bulletin. Use the list to help ensure all motorcycles are modified. All sold motorcycles that have been registered with Yamaha will show the customer's name and address.

Your dealership must notify the owner of any affected motorcycle that was actually sold but listed as "unsold" in the report. You must modify all affected motorcycles in your inventory as well as all customer-owned motorcycles brought to you for this service. Any affected motorcycle that you purchase from Yamaha in the future may also require modification. If you purchase an affected motorcycle from another dealer or Yamaha, check to see if the procedures in this bulletin have already been performed before you sell the vehicle.

Motorcycles that are affected should be modified as soon as possible. It is a violation of Yamaha policy for your dealership to deliver any affected vehicle to customers until the procedures in this bulletin are performed.



DEALER ACTION SUMMARY

Unsold & Sold Units:

Unsold units only require ECU reprogramming (“reflashing”). Sold units (including those registered as demo vehicles) also require TPS replacement.

Parts: Yes, but only if the unit has been sold or used for demos.

Warranty: Factory Modification Campaign. See the *Warranty Information* section of this bulletin. This modification applies to all affected units regardless of ownership or warranty status.

Notify

Customers: Yes, you must immediately contact any customer whose motorcycle shows _____ on the report enclosed with the mailed copy of this bulletin. Yamaha has sent letters to customers whose motorcycles were registered with Yamaha



AFFECTED RANGE

The affected unit range for this issue is:

Year	Model	Vehicle Identification Number (VIN)	
		From	To
2022	MT-09 Tracer GT	JYARN74E1NA001100	JYARN74E8NA001286
2021-2025	MT-09 SP	JYARN72E0MA000358	JYARN95E5SA001185
2021-2025	MT-09	JYARN71E6MA001225	JYARN94E4SA002524
2022-2023 & 2025	MT-10 SP	JYARN81E9NA000318	JYARN81E2SA000737
2022-2024	MT-10	JYARN79E5NA000301	JYARN79E1RA001354
2022-2024	XSR900	JYARN80E1NA000332	JYARN80E7RA002494



SERVICE PROCEDURE

Have the following tools ready before performing the reprogramming procedure:

1. Yamaha Diagnostics Tool (YDT) Version 3 (P/N: 90890-03274-00) application (2) installed on the computer (1)



2. Yamaha Diagnostic Tool (A/I) (P/N: 90890-03273-00 or 90890-03262-00)



3. Yamaha Diagnostic Tool Sub Harness (6P) (P/N: 90890-03266-00)



NOTE:

- YDT A/I (P/N: 90890-03273-00) includes YDT sub-harness 6P (P/N: 90890-03266-00). If you have YDT A/I (P/N: 90890-03262-00), you will need to purchase YDT sub-harness 6P (P/N: 90890-03266-00) separately.
- Make sure the battery is well-charged or connect a battery charger if necessary. Otherwise, the reprogramming process may stop and not complete.
- The ECU program cannot be rewritten back to the previous program.
- Reprogramming is not available in Quick Check.
- Reprogramming is not available with a wireless connection (Bluetooth).
- ECU reprogramming should be performed when the engine is stopped and the ambient temperature is between 32°F–122°F (0°C–50°C).
- Please turn off the screen saver function of your PC while reprogramming.
- After reprogramming, fault codes (DTC) may be detected in some models, but this is not abnormal. Erase all fault codes in the "Diagnosis of malfunction" menu. If one cannot be deleted, it may be malfunctioning and will require further repair.
- If you reprogram the ECU, the fault codes (DTC) will be cleared, so there is a possibility that you will not be able to troubleshoot. Please have the repair work done in advance.
- After reprogramming, be sure to turn the main switch off. Do not start the engine without turning the main switch off.

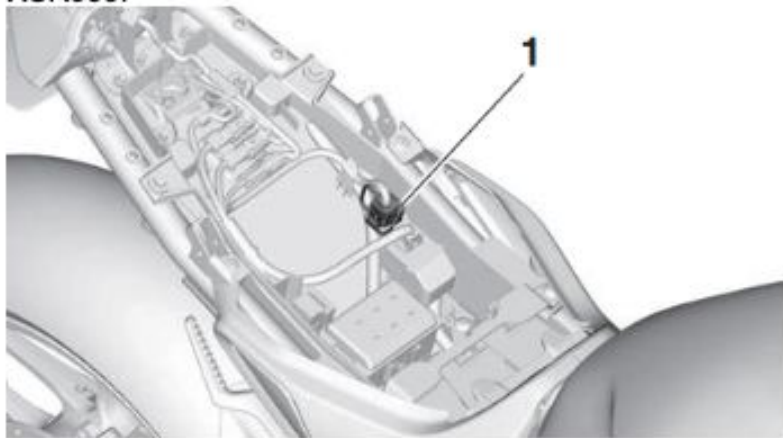
ALL AFFECTED UNITS

Perform the ECU reprogramming procedure using the correct software for the corresponding model.

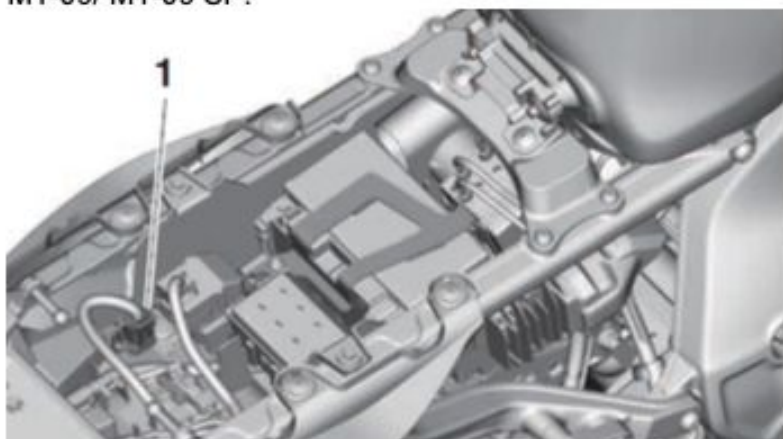
Year	Model	Model code	ECU part number	ECU software number		ECU software version		File name
				Before	After	Before	After	
2022~2024	XSR900	BEA2 BEAA BEAF	BEA-8591A-11 BEA-8591A-10	12551041 12551040	12551042	01 00	02	202411_BEA2_01_FIECU.rpf
2022~2024	XSR900 CA	BEA3 BEAB BEAG	BEA-8591A-61 BEA-8591A-60	12551181 12551180	12551182	01 00	02	202411_BEA3_01_FIECU.rpf
2021~2023	MT-09	B7N4 B7NF B7NP	B7N-8591A-12 B7N-8591A-11 B7N-8591A-10	121DE042 121DE041 121DE040	121DE043	02 01 00	03	202411_B7N4_02_FIECU.rpf
2024~2025	MT-09	BME3 BMEK	BME-8591A-10	12755040	12755041	00	01	202411_BME3_01_FIECU.rpf
2021~2023	MT-09 CA	B7N5 B7NG B7NR	B7N-8591A-62 B7N-8591A-61 B7N-8591A-60	121DE182 121DE181 121DE180	121DE183	02 01 00	03	202411_B7N5_02_FIECU.rpf
2024~2025	MT-09 CA	BME4 BMEL	BME-8591A-60	12755180	12755181	00	01	202411_BME4_01_FIECU.rpf
2021~2023	MT-09 SP	BAM4 BAMB BAMK	BAM-8591A-12 BAM-8591A-11 BAM-8591A-10	1245D042 1245D041 1245D040	1245D043	02 01 00	03	202411_BAM4_02_FIECU.rpf
2024~2025	MT-09 SP	BMM4 BMMG	BMM-8591A-10	1275D040	1275D041	00	01	202411_BMM4_01_FIECU.rpf
2021~2023	MT-09 SP CA	BAM5 BAMC BAML	BAM-8591A-62 BAM-8591A-61 BAM-8591A-60	1245D182 1245D181 1245D180	1245D183	02 01 00	03	202411_BAM5_02_FIECU.rpf
2024~2025	MT-09 SP CA	BMM5 BMMH	BMM-8591A-60	1275D180	1275D181	00	01	202411_BMM5_01_FIECU.rpf
2021~2022	Tracer 9 GT	BAP5 BAPD	BAP-8591A-12 BAP-8591A-11 BAP-8591A-10	12460042 12460041 12460040	12460043	02 01 00	03	202411_BAP5_02_FIECU.rpf
2021~2022	Tracer 9 GT CA	BAP6 BAPE	BAP-8591A-62 BAP-8591A-61 BAP-8591A-60	12460182 12460181 12460180	12460183	02 01 00	03	202411_BAP5_02_FIECU.rpf
2024	Tracer 9 GT+	BLG4	BLG-8591A-10	12717040	12717041	00	01	202412_BLG4_01_FIECU.rpf
2024	Tracer 9 GT+ CA	BLG5	BLG-8591A-60	12717180	12717181	00	01	202412_BLG5_01_FIECU.rpf
2022~2025	MT-10 MT-10 CA MT-10 SP MT-10 SP CA	B5Y3 B5YH BGG3 BGGB BGGF B5YA B5Y2 B5Y9 B5YG BGG2 BGG A BGGE B5YN B5YP BGGP BGG R	B5Y-8591A-10	12169040	12169041	00	01	202412_B5Y2_01_FIECU.rpf

1. Locate the YDT connection based on the models below. Remove the protective cap 1 from the YDT coupler and connect the YDT to the coupler.

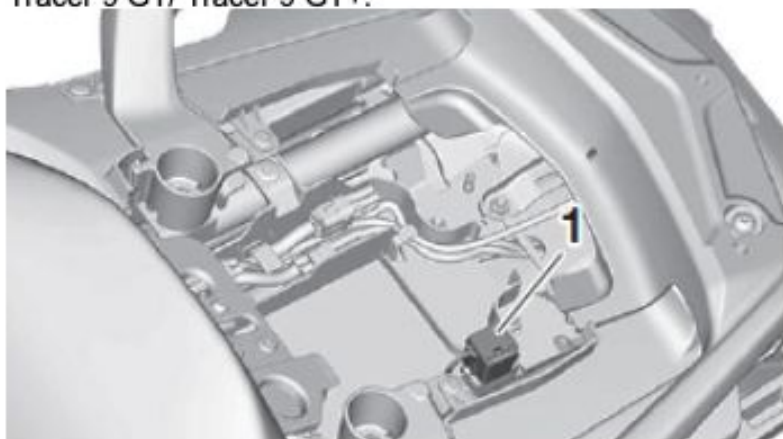
XSR900:



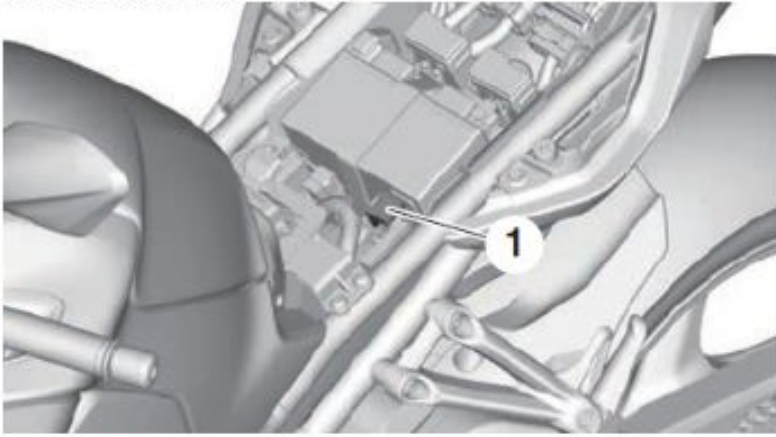
MT-09/ MT-09 SP:



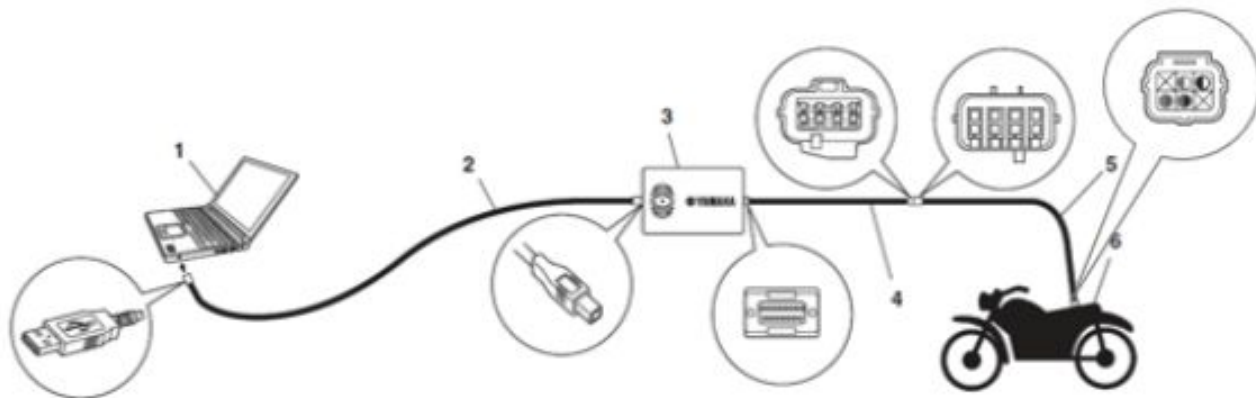
Tracer 9 GT/ Tracer 9 GT+:



MT-10/ MT-10 SP:

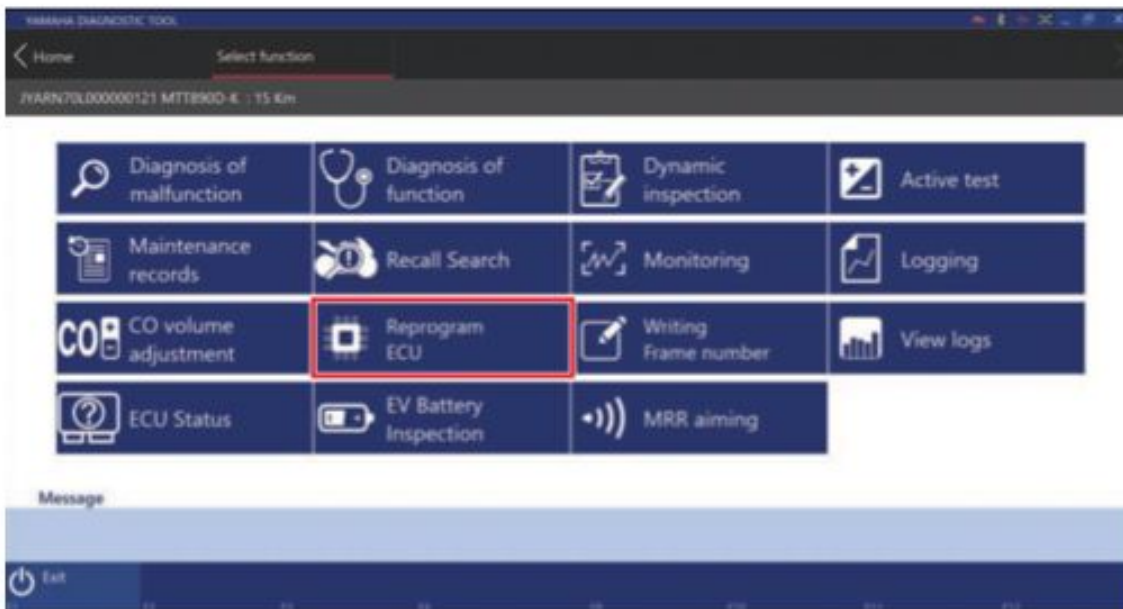


Refer to the connection diagram below:



1. PC
2. USB cable
3. A/I
4. Vehicle communication cable
5. YDT Sub harness (6P)
6. Vehicle

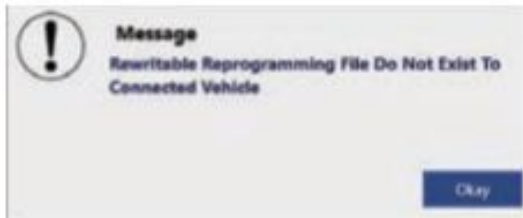
1. Initiate the ECU program rewriting. Start the YDT application and click "Reprogram ECU" on the function selection screen.



- If there are several ECU reprogramming files available, the files will be displayed. Refer to the ECU reprogramming file for the corresponding model (refer to page 4 or 5 in this bulletin).



NOTE: If the applicable file is not found, an error message will be displayed.



- Click "Start Reprogram." The ECU rewriting process will begin, and the status (progress) will be displayed. When the ECU reprogramming is complete, the message "Reprogramming completed." will be displayed. Click "Okay."

202412_BLG4_01_FIECU.rpf

FILE: ST06P11_RPG.rpf

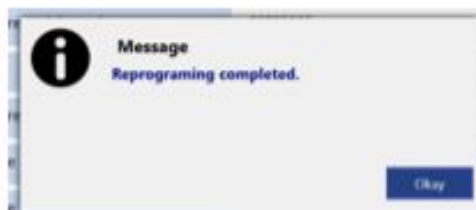
ECU information	Before reprogram	After reprogramming
ECU hardware serial number	FFFFFFFF	
VIN/PID		
ECU hardware		
ECU software		
ECU software version number	00	
ECU model code	BLG4	
Protocol version	0C010005	
Total ECU conduction time	164:51:38	
Total number of main switch operation	525	

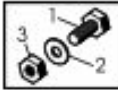
Remain time: 00:00
Result: Succeeded
02/25/2025 15:39

Forbidden actions during reprogramming

- Execute the other application
- Unplug the cable

Software verification: **Start reprogram**:





PARTS INFORMATION

Replace the Throttle Sensor Assy ONLY on units that have been sold or used as a demo.

PART NUMBER	KIT PART NAME	APPLICABLE MODELS	DEALER COST
90891-30169-00	THROTTLE SENSOR ASSY MT09 SERIES	ALL	\$16.07



IDENTIFICATION PROCEDURE

After modifying a unit, make sure to properly record and submit the special warranty claim



WARRANTY INFORMATION

The owner of each registered vehicle will receive a letter announcing this campaign.

The modification is authorized for all affected motorcycles, both sold and unsold, regardless of ownership or warranty status. You do not need the customer's letter to perform the modification or to file for reimbursement.

Submit a Recall Claim as described below

NEW/UNSOLD VEHICLES

Submit a recall claim for ECU reprogramming.

The labor allowance is **0.3 hours** for all models.

SOLD/DEMO VEHICLES

Submit a recall claim for Throttle Position Sensor replacement and ECU reprogramming.

The labor allowance is as follows:

- XSR900 models: **1.2 hours**
- MT-09 models: **1.2 hours**
- Tracer 9 GT/ GT+ models: **1.5 hours**
- MT-10 models: **1.4 hours**