

Technical BULLETIN

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2021 MT-09 AND MT-09 SP

Service Manual Correction - IMU Lubrication Points, Rear Wheel Assembly Procedure, Clutch Damper Springs Installation Direction, Relay Unit Inspection and Inspection Procedure of the Regulator/Rectifier.



INTRODUCTION

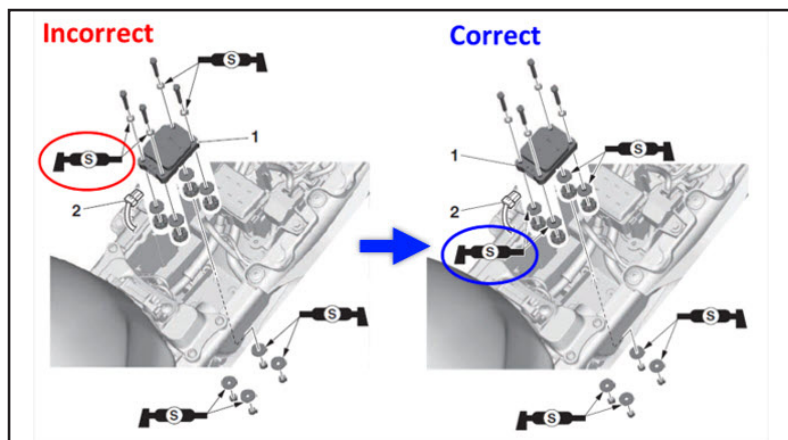
The 2021 MT-09 and MT-09 SP Service Manual has been revised to correct several errors. The manual in the Knowledge Center on the Yamaha Dealer System (YDS) has been updated to show the correct and complete information. If you previously saved copies of the Service Manual to your local computer, check the applicable pages identified in this Technical Bulletin to be sure they have the updated information as shown on the following pages. If not, please download the file again and replace your file copies.

Location of Revision

Model	Service Manual Number	Chapter	Location	Applicable Page(s)
2021 MT-09 / MT-09 SP	LIT-11616-34-61	General Chassis	Installing the IMU	4-8
		General Chassis	Assembling the Rear Wheel	4-22
		Engine	Checking the Clutch Springs	5-51
		Electrical System	Checking the Relay Unit	8-58
		Electrical System	Checking the Regulator Rectifier	8-61

Page 4-8

The new illustration shows the correct lubrication points for the IMU (Inertial Measurement Unit) which will be done to the grommets beneath the IMU.



Page 4-22

The process for assembling the Rear Wheel has changed; it now incorporates a specific process for installing the wheel bearings for right and left sides.

Incorrect
EAC01913
ASSEMBLING THE REAR WHEEL
EAC01914

NOTICE

- Do not drop the wheel sensor rotor or subject it to shocks.
- If any solvent gets on the wheel sensor rotor, wipe it off immediately.

1. Install:

- Wheel bearing (right side) **New**
- Wheel bearing (left side) **New**
- Oil seal **New**

Refer to "ASSEMBLING THE FRONT WHEEL" on page 4-14.

Correct
EAC01913
ASSEMBLING THE REAR WHEEL
EAC01915

NOTICE

- Do not drop the wheel sensor rotor or subject it to shocks.
- If any solvent gets on the wheel sensor rotor, wipe it off immediately.

1. Install:

- Wheel bearing **New**
- Oil seal **New**

a. Install the new wheel bearing (right side).

NOTICE
EAC01916
Do not contact the wheel bearing inner race "1" or balls "2". Contact should be made only with the outer race "3".

TIP
Use a socket "4" that matches the diameter of the wheel bearing outer race.

G088898

b. Install the spacer.

c. Install the new wheel bearing (left side).

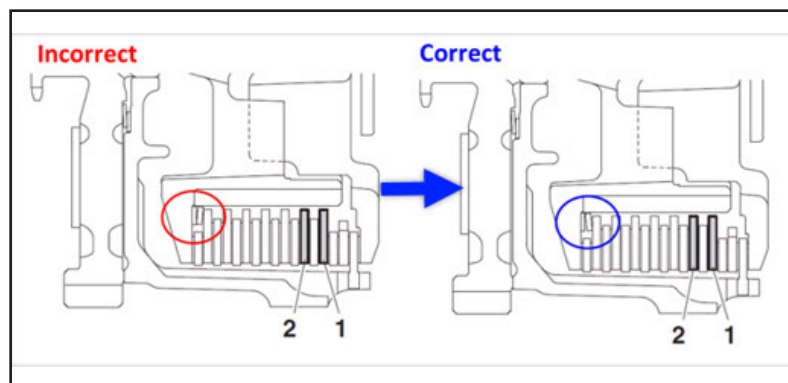
TIP
Place a suitable washer "1" between the socket "2" and the bearing so that both the inner race "3" and outer race "4" are pressed at the same time, and then press the bearing until the inner race makes contact with the spacer "5".

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d. Install the new oil seals.

Page 5-21

The illustration for the installation of the clutch damper springs has been corrected to show the proper direction that they should face when installed.



Page 8-58

The diagnostic table for checking the relay unit has been changed to show the correct results when performing the diagnostic checks.

Incorrect	Correct
 Continuity Positive tester probe sky blue "1" Negative tester probe black "2" No continuity Positive tester probe black "2" Negative tester probe sky blue "1" Continuity Positive tester probe sky blue "1" Negative tester probe blue "3" No continuity Positive tester probe blue "3" Negative tester probe sky blue "1" Continuity Positive tester probe sky blue "1" Negative tester probe sky blue/white "4" No continuity Positive tester probe sky blue/white "4" Negative tester probe sky blue "1" Continuity Positive tester probe blue/black "5" Negative tester probe blue "3" No continuity Positive tester probe blue "3" Negative tester probe blue/black "5"	 No continuity Positive tester probe sky blue "1" Negative tester probe black "2" Continuity Positive tester probe black "2" Negative tester probe sky blue "1" No continuity Positive tester probe sky blue "1" Negative tester probe blue "3" Continuity Positive tester probe blue "3" Negative tester probe sky blue "1" No continuity Positive tester probe sky blue "1" Negative tester probe sky blue/white "4" Continuity Positive tester probe sky blue/white "4" Negative tester probe sky blue "1" No continuity Positive tester probe blue/black "5" Negative tester probe blue "3" Continuity Positive tester probe blue "3" Negative tester probe blue/black "5"

The inspection procedure of the Rectifier/Regulator has been corrected to show the recommended procedure and setting to use on your multimeter when testing the charging system voltage.

Incorrect

CHECKING THE RECTIFIER/REGULATOR

1. Check:

- Rectifier/regulator input voltage
Out of specification → Correct the stator coil condition.
Refer to "CHECKING THE STATOR COIL" on page 8-61.

Rectifier/regulator input voltage
above 14 V at 5000 r/min

a. Connect the digital circuit tester (AC V) to the rectifier/regulator coupler as shown.

Digital circuit tester (CD732)
90890-03243
Model 88 Multimeter with tachometer
YU-A1927

- Positive tester probe white "1"
- Negative tester probe white "2"

- Positive tester probe white "1"
- Negative tester probe white "3"

- Positive tester probe white "2"
- Negative tester probe white "3"

b. Start the engine and let it run at approximately 5000 r/min.
c. Measure the rectifier/regulator input voltage.

2. Check:

- Rectifier/regulator output voltage
Out of specification → Replace the rectifier/regulator.

Regulated voltage (DC)
14.3–14.7 V

a. Connect the digital circuit tester (DC V) to the battery as shown.

Digital circuit tester (CD732)
90890-03243
Model 88 Multimeter with tachometer
YU-A1927

- Positive tester probe → Positive battery terminal
- Negative tester probe → Negative battery terminal

b. Start the engine and let it run at approximately 5000 r/min.
c. Measure the charging voltage.

Correct

CHECKING THE RECTIFIER/REGULATOR

1. Check:

- Battery charging voltage
Out of specification → Check the stator coil condition. If the stator coil does not have a problem, replace the rectifier/regulator.
Refer to "CHECKING THE STATOR COIL" on page 8-61.

Battery charging voltage
above 14 V at 5000 r/min

~~a. Connect the digital circuit tester (AC V) to the battery terminal.~~

a. Connect the digital circuit tester to the battery terminal.

Digital circuit tester (CD732)
90890-03243
Model 88 Multimeter with tachometer
YU-A1927

- Positive tester probe → Battery positive terminal
- Negative tester probe → Battery negative terminal

b. Start the engine and let it run at approximately 5000 r/min.
c. Measure the battery charging voltage.