



YAMAHA

2016

⚠ Read this manual carefully before operating this vehicle.

⚠ Il convient de lire attentivement ce manuel avant la première utilisation du véhicule.

⚠ Bitte lesen Sie diese Bedienungsanleitung sorgfältig durch, bevor Sie das Fahrzeug in Betrieb nehmen.

⚠ Leggere attentamente questo manuale prima di utilizzare questo veicolo.

**OWNER'S SERVICE MANUAL
MANUEL D'ATELIER DU
PROPRIETAIRE
FAHRER- UND
WARTUNGSHANDBUCH
MANUALE DI SERVIZIO DEL
PROPRIETARIO**

**YZ125
YZ125G2**

1SR-28199-34



YAMAHA

2016

⚠ Read this manual carefully before operating this vehicle.

OWNER'S SERVICE MANUAL

YZ125
YZ125G2

1SR-28199-34-E0

FOREWORD

INTRODUCTION

Congratulations on your purchase of a Yamaha YZ series. This model is the culmination of Yamaha's vast experience in the production of pacesetter racing machines. It represents the highest grade of craftsmanship and reliability that have made Yamaha a leader.

This manual explains operation, inspection, basic maintenance and tuning of your machine. If you have any questions about this manual or your machine, please contact your Yamaha dealer.

TIP

Yamaha continually seeks advancements in product design and quality. Therefore, while this manual contains the most current product information available at the time of printing, there may be minor discrepancies between your machine and this manual. If you have any questions concerning this manual, please consult your Yamaha dealer.

WARNING

PLEASE READ THIS MANUAL CAREFULLY AND COMPLETELY BEFORE OPERATING THIS MACHINE. DO NOT ATTEMPT TO OPERATE THIS MACHINE UNTIL YOU HAVE ATTAINED A SATISFACTORY KNOWLEDGE OF ITS CONTROLS AND OPERATING FEATURES AND UNTIL YOU HAVE BEEN TRAINED IN SAFE AND PROPER RIDING TECHNIQUES. REGULAR INSPECTIONS AND CAREFUL MAINTENANCE, ALONG WITH GOOD RIDING SKILLS, WILL ENSURE THAT YOU SAFELY ENJOY THE CAPABILITIES AND THE RELIABILITY OF THIS MACHINE.

IMPORTANT MANUAL INFORMATION

Particularly important information is distinguished in this manual by the following notations.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

WARNING

A WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

NOTICE

A NOTICE indicates special precautions that must be taken to avoid damage to the vehicle or other property.

TIP

A TIP provides key information to make procedures easier or clearer.

SAFETY INFORMATION

THIS MACHINE IS DESIGNED STRICTLY FOR COMPETITION USE, ONLY ON A CLOSED COURSE. It is illegal for this machine to be operated on any public street, road, or highway. Off-road use on public lands may also be illegal. Please check local regulations before riding.

- THIS MACHINE IS TO BE OPERATED BY AN EXPERIENCED RIDER ONLY.

Do not attempt to operate this machine at maximum power until you are totally familiar with its characteristics.

- THIS MACHINE IS DESIGNED TO BE RIDDEN BY THE OPERATOR ONLY.

Do not carry passengers on this machine.

- ALWAYS WEAR PROTECTIVE APPAREL.

When operating this machine, always wear an approved helmet with goggles or a face shield. Also wear heavy boots, gloves, and protective clothing. Always wear proper fitting clothing that will not be caught in any of the moving parts or controls of the machine.

- ALWAYS MAINTAIN YOUR MACHINE IN PROPER WORKING ORDER.

For safety and reliability, the machine must be properly maintained. Always perform the pre-operation checks indicated in this manual. Correcting a mechanical problem before you ride may prevent an accident.

- GASOLINE IS HIGHLY FLAMMABLE.

Always turn off the engine while refueling. Take care to not spill any gasoline on the engine or exhaust system. Never refuel in the vicinity of an open flame, or while smoking.

- GASOLINE CAN CAUSE INJURY. If you should swallow some gasoline, inhale excess gasoline vapors, or allow any gasoline to get into your eyes, contact a doctor immediately. If any gasoline spills onto your skin or clothing, immediately wash skin areas with soap and water, and change your clothes.
- ONLY OPERATE THE MACHINE IN AN AREA WITH ADEQUATE VENTILATION.

Never start the engine or let it run for any length of time in an enclosed area. Exhaust fumes are poisonous. These fumes contain carbon monoxide, which by itself is odorless and colorless. Carbon monoxide is a dangerous gas which can cause unconsciousness or can be lethal.

- PARK THE MACHINE CAREFULLY; TURN OFF THE ENGINE.

Always turn off the engine if you are going to leave the machine. Do not park the machine on a slope or soft ground as it may fall over.

- THE ENGINE, EXHAUST PIPE, MUFFLER, AND OIL TANK WILL BE VERY HOT AFTER THE ENGINE HAS BEEN RUN.

Be careful not to touch them or to allow any clothing item to contact them during inspection or repair.

- PROPERLY SECURE THE MACHINE BEFORE TRANSPORTING IT.

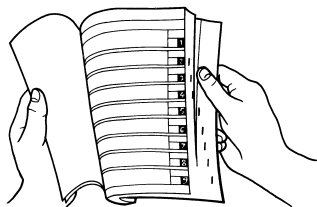
When transporting the machine in another vehicle, always be sure it is properly secured and in an upright position and that the fuel cock is in the "OFF" position. Otherwise, fuel may leak out of the carburetor or fuel tank.

HOW TO USE THIS MANUAL

FINDING THE REQUIRED PAGE

1. This manual consists of seven chapters; "General Information", "Specifications", "Regular inspection and adjustments", "Engine", "Chassis", "Electrical" and "Tuning"
2. The table of contents is at the beginning of the manual. Look over the general layout of the book before finding then required chapter and item.

Bend the book at its edge, as shown, to find the required fore edge symbol mark and go to a page for required item and description.



MANUAL FORMAT

All of the procedures in this manual are organized in a sequential, step-by-step format. The information has been compiled to provide the mechanic with an easy to read, handy reference that contains comprehensive explanations of all disassembly, repair, assembly, and inspection operations.

In this revised format, the condition of a faulty component will precede an arrow symbol and the course of action required will follow the symbol, e.g.,

- Bearings
Pitting/damage → Replace.

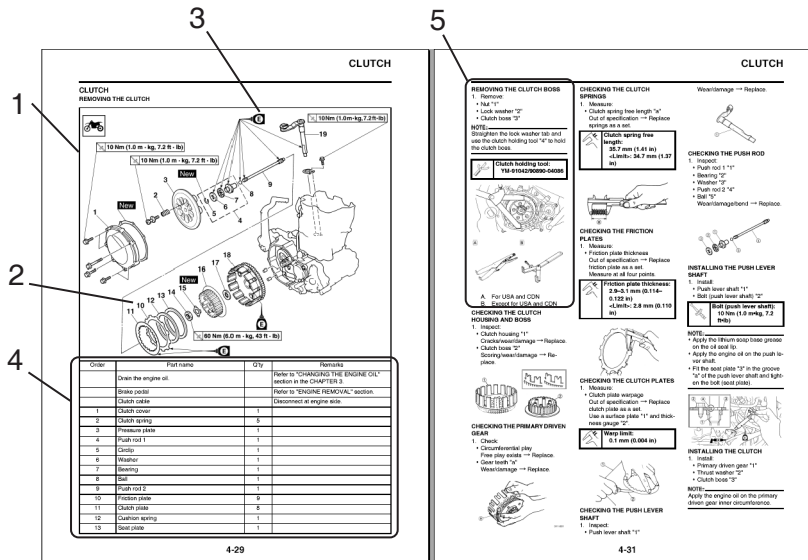
HOW TO READ DESCRIPTIONS

To help identify parts and clarify procedure steps, there are exploded diagrams at the start of each removal and disassembly section.

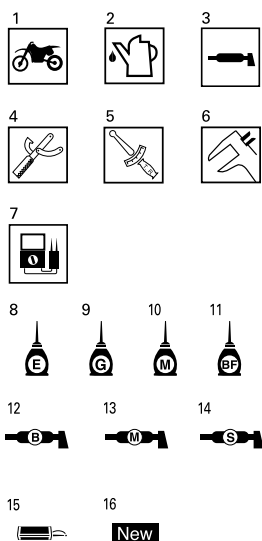
1. An easy-to-see exploded diagram "1" is provided for removal and disassembly jobs.

2. Numbers "2" are given in the order of the jobs in the exploded diagram. A number that is enclosed by a circle indicates a disassembly step.
3. An explanation of jobs and notes is presented in an easy-to-read way by the use of symbol marks "3". The meanings of the symbol marks are given on the next page.

4. A job instruction chart "4" accompanies the exploded diagram, providing the order of jobs, names of parts, notes in jobs, etc.
5. For jobs requiring more information, the step-by-step format supplements "5" are given in addition to the exploded diagram and job instruction chart.



ILLUSTRATED SYMBOLS (Refer to the illustration)



Illustrated symbols "1" to "7" are used to identify the specifications appearing in the text.

- With engine mounted
- Filling fluid
- Lubricant
- Special tool
- Tightening
- Specified value, Service limit
- Resistance (Ω), Voltage (V), Electric current (A)

Illustrated symbols "8" to "14" in the exploded diagrams indicate grade of lubricant and location of lubrication point.

- Apply engine mixing oil
- Apply transmission oil
- Apply molybdenum disulfide oil
- Apply brake fluid
- Apply lightweight lithium-soap base grease
- Apply molybdenum disulfide grease
- Apply silicone grease

Illustrated symbols "15" to "16" in the exploded diagrams indicate where to apply a locking agent and where to install new parts.

- Apply locking agent (LOCTITE®)
- Use new one

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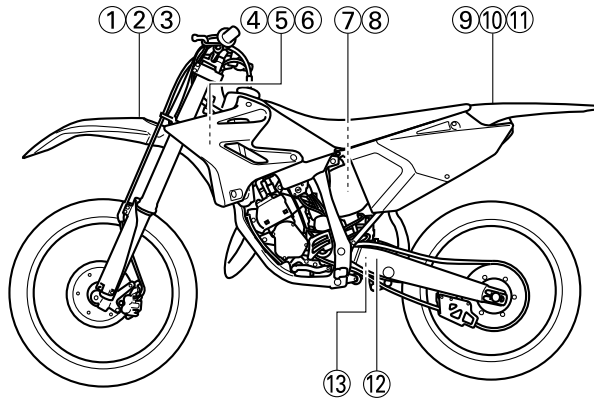
LOCATION OF IMPORTANT LABELS

1

GENERAL INFORMATION

LOCATION OF IMPORTANT LABELS

Please read the following important labels carefully before operating this vehicle.



CANADA

1

Use premium unleaded gasoline / oil premix only.
3XJ-2415E-A1

2

Utiliser de préférence un mélange huile/super sans plomb.
3XJ-2415E-B1

3


THIS VEHICLE IS A COMPETITION MOTORCYCLE AND IS FOR USE EXCLUSIVELY IN CLOSED COURSE COMPETITION AND IS NOT INTENDED FOR USE ON PUBLIC HIGHWAYS.
CE VÉHICULE EST UNE MOTORCYCLETTE DE COMPÉTITION DONT L'USAGE EST RÉSERVÉ AUX COMPÉTITIONS EN CIRCUITS FERMÉS ET NON DESTINÉ AUX VOIES PUBLIQUES.
4SR-2416E-00

4

MFD. BY YAMAHA MOTOR CO., LTD. MM / YY MADE IN JAPAN
COMPETITION MOTORCYCLE
FABRIQUÉ YAMAHA MOTOR CO., LTD. MM / YY FABRIQUÉ AU JAPON
MOTORCYCLETTE DE COMPÉTITION

4SR-21186-01

5


This spark ignition system meets all requirements of the Canadian Interference Causing Equipment Regulations.
Ce système d'allumage par étincelle de véhicule respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.
3JK-82377-10

7

▲WARNING
This unit contains high pressure nitrogen gas. Mishandling can cause explosion.
• Read owner's manual for instructions.
• Do not incinerate, puncture or open.
▲AVERTISSEMENT
Cette unité contient de l'azote à haute pression. Une mauvaise manipulation peut entraîner d'explosion.
• Voir le manuel d'utilisateur pour les instructions.
• Ne pas brûler ni perforer ni ouvrir.
4AA-22258-70

LOCATION OF IMPORTANT LABELS

9

⚠ WARNING

- BEFORE YOU OPERATE THIS VEHICLE, READ THE OWNER'S MANUAL AND ALL LABELS.
- NEVER CARRY A PASSENGER. You increase your risk of losing control if you carry a passenger.
- NEVER OPERATE THIS VEHICLE ON PUBLIC ROADS. You can collide with another vehicle if you operate this vehicle on a public road.
- ALWAYS WEAR AN APPROVED MOTORCYCLE HELMET, eye protection, and protective clothing.
- EXPERIENCED RIDER ONLY.

5PA-2118K-00

12

TIRE INFORMATION

Cold tire normal pressure should be set as follows.
 FRONT: 100kPa, {1.00kgf/cm²}, 15psi
 REAR : 100kPa, {1.00kgf/cm²}, 15psi

3RV-21668-A0

10

⚠ AVERTISSEMENT

- LIRE LE MANUEL DU PROPRIETAIRE AINSI QUE TOUTES LES ETIQUETTES AVANT D'UTILISER CE VEHICULE.
- NE JAMAIS TRANSPORTER DE PASSAGER. La conduite avec passager augmente les risques de perte de contrôle.
- NE JAMAIS ROULER SUR DES CHEMINS PUBLICS. Vous pourriez entrer en collision avec un autre véhicule.
- TOUJOURS PORTER UN CASQUE DE MOTOCYCLISTE APPROUVE, des lunettes et des vêtements de protection.
- EXCLUSIVEMENT POUR L'USAGE D'UN CONDUCTEUR EXPERIMENTE.

5PA-2118K-10

13

INFORMATION SUR LES PNEUS

La pression des pneus à froid doit normalement être réglée comme suit.
 AVANT : 100kPa, {1.00kgf/cm²}, 15psi
 ARRIERE : 100kPa, {1.00kgf/cm²}, 15psi

3RV-21668-B0

EUROPE

6





CE

YAMAHA MOTOR CO., LTD.
 SHIZUOKA JAPAN

YAMAHA 4GB-2155A-00

11

⚠

100 kPa 100 kPa
 1.00 kgf/cm² 1.00 kgf/cm²
 15 psi 15 psi

5PG-2816R-00

8



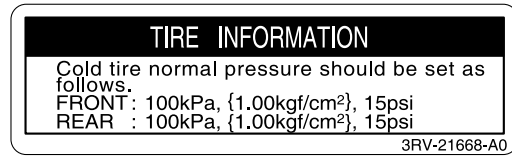
LOCATION OF IMPORTANT LABELS

AUS, NZ, ZA

8



12









9

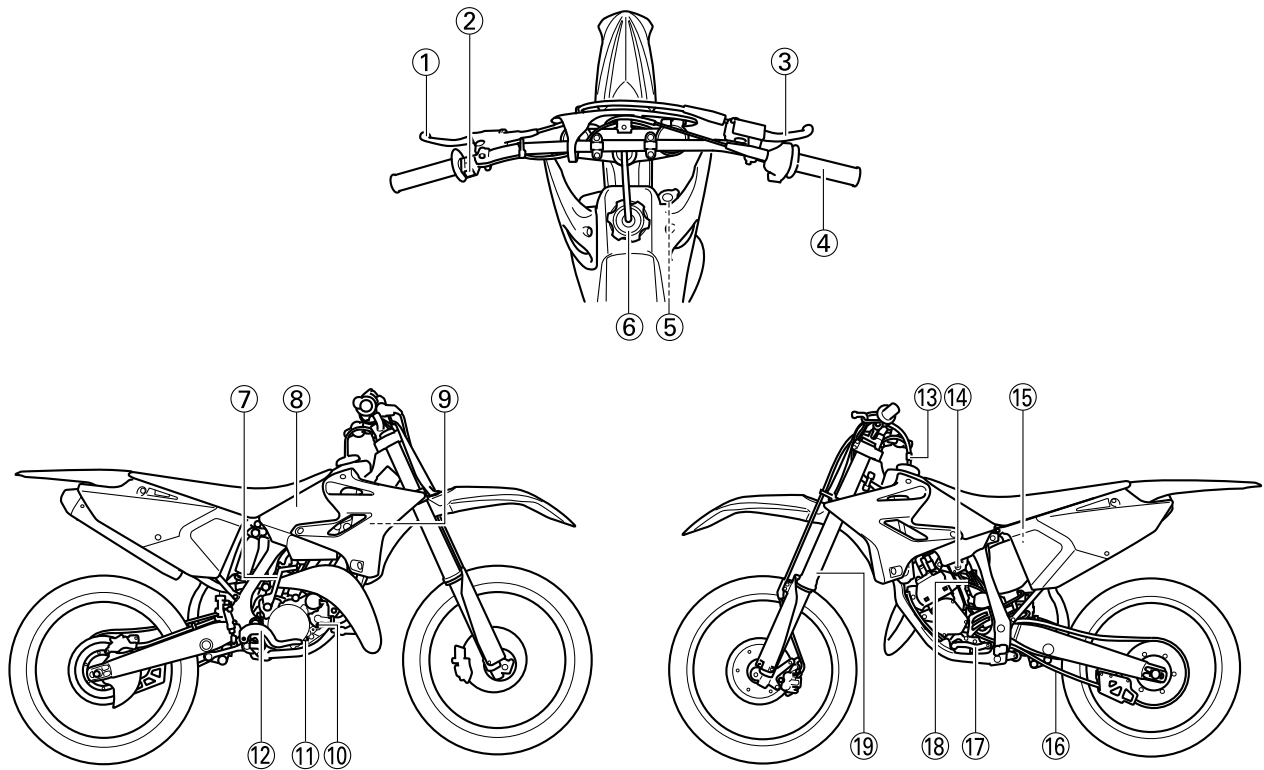


LOCATION OF IMPORTANT LABELS

Familiarize yourself with the following pictograms and read the explanatory text.

	Read Owner's service manual.
	This unit contains high-pressure nitrogen gas. Mishandling can cause explosion. Do not incinerate, puncture or open.
	Turn off the main switch after riding to avoid draining the battery.
	Use unleaded gasoline only.
	Measure tire pressure when tires are cold.
 *** kPa *** kPa +..+ kgf/cm ² +..+ kgf/cm ² ** psi ** psi	Adjust tire pressure. Improper tire pressure can cause loss of control. Loss of control can result in severe injury or death.

DESCRIPTION



- | | |
|---|------------------|
| 1. Clutch lever | 14. Fuel cock |
| 2. Engine stop switch | 15. Air filter |
| 3. Front brake lever | 16. Drive chain |
| 4. Throttle grip | 17. Shift pedal |
| 5. Radiator cap | 18. Starter knob |
| 6. Fuel tank cap | 19. Front fork |
| 7. Kickstarter lever | |
| 8. Fuel tank | |
| 9. Radiator | |
| 10. Coolant drain bolt | |
| 11. Check bolt (Transmission oil level) | |
| 12. Rear brake pedal | |
| 13. Valve joint | |

TIP

- The machine you have purchased may differ slightly from those shown in the following.
- Designs and specifications are subject to change without notice.

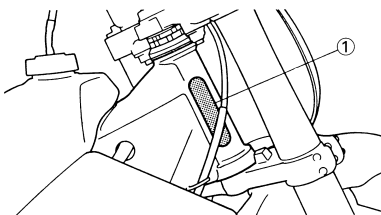
CONSUMER INFORMATION

There are two significant reasons for knowing the serial number of your machine:

1. When ordering parts, you can give the number to your Yamaha dealer for positive identification of the model you own.
2. If your machine is stolen, the authorities will need the number to search for and identify your machine.

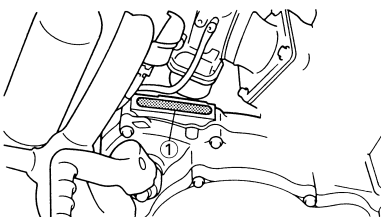
VEHICLE IDENTIFICATION NUMBER

The vehicle identification number "1" is stamped on the right of the steering head pipe.



ENGINE SERIAL NUMBER

The engine serial number "1" is stamped into the elevated part of the right-side of the engine.



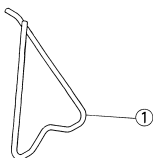
INCLUDED PARTS

DETACHABLE SIDESTAND

This sidestand "1" is used to support only the machine when standing or transporting it.

⚠ WARNING

- Never apply additional force to the sidestand.
- Remove this sidestand before starting out.

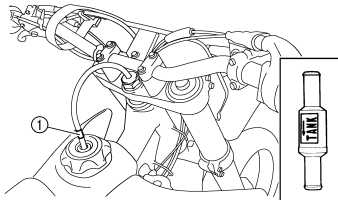


VALVE JOINT

This valve joint "1" prevents fuel from flowing out and is installed to the fuel tank breather hose.

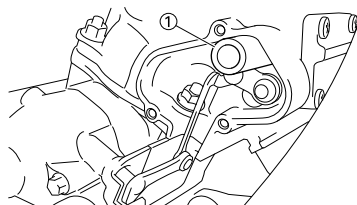
NOTICE

In this installation, make sure the arrow faces the fuel tank and also downward.



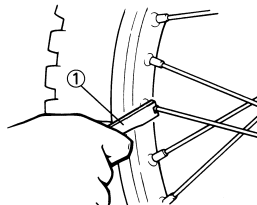
COLLAR (tool for YPVS)

This collar "1" is used to remove and install the push rod of the engine.



NIPPLE WRENCH

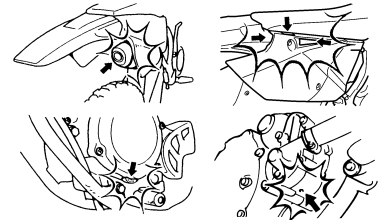
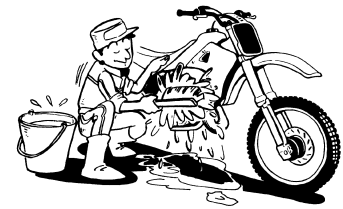
This nipple wrench "1" is used to tighten the spoke.



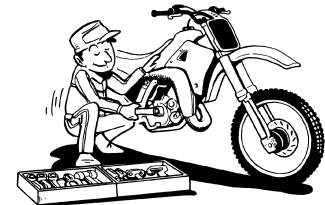
IMPORTANT INFORMATION

PREPARATION FOR REMOVAL AND DISASSEMBLY

1. Remove all dirt, mud, dust, and foreign material before removal and disassembly.
 - When washing the machine with high pressured water, cover the parts follows.
 - Silencer exhaust port
 - Side cover air intake port
 - Crankcase cover hole at the bottom
 - Water pump housing hole at the bottom
 - End of each hose



2. Use proper tools and cleaning equipment. Refer to "SPECIAL TOOLS" section.



3. When disassembling the machine, keep mated parts together. They include gears, cylinders, pistons, and other mated parts that have been "mated" through normal wear. Mated parts must be reused as an assembly or replaced.



4. During the machine disassembly, clean all parts and place them in trays in the order of disassembly. This will speed up assembly time and help assure that all parts are correctly reinstalled.



5. Keep away from fire.

CHECKING OF CONNECTION

ALL REPLACEMENT PARTS

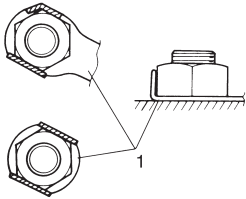
1. We recommend to use Yamaha genuine parts for all replacements. Use oil and/or grease recommended by Yamaha for assembly and adjustment.

GASKETS, OIL SEALS AND O-RINGS

1. All gaskets, oil seals, and O-rings should be replaced when an engine is overhauled. All gasket surfaces, oil seal lips, and O-rings must be cleaned.
2. Properly oil all mating parts and bearings during reassembly. Apply grease to the oil seal lips.

LOCK WASHERS/PLATES AND COTTER PINS

1. All lock washers/plates "1" and cotter pins must be replaced when they are removed. Lock tab(s) should be bent along the bolt or nut flat(s) after the bolt or nut has been properly tightened.

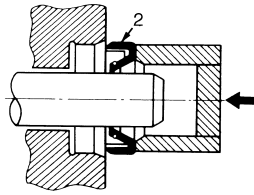
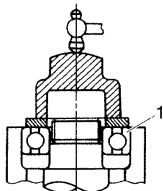


BEARINGS AND OIL SEALS

1. Install the bearing(s) "1" and oil seal(s) "2" with their manufacturer's marks or numbers facing outward. (In other words, the stamped letters must be on the side exposed to view.) When installing oil seal(s), apply a light coating of lightweight lithium base grease to the seal lip(s). Oil the bearings liberally when installing.

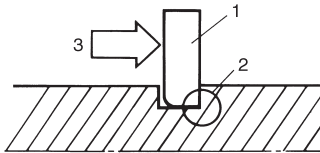
NOTICE

Do not use compressed air to spin the bearings dry. This causes damage to the bearing surfaces.



CIRCLIPS

1. All circlips should be inspected carefully before reassembly. Always replace piston pin clips after one use. Replace distorted circlips. When installing a circlip "1", make sure that the sharp-edged corner "2" is positioned opposite to the thrust "3" it receives. See the sectional view.



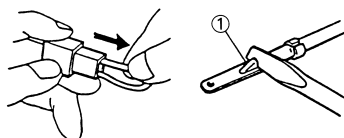
CHECKING OF CONNECTION

Dealing with stains, rust, moisture, etc. on the connector.

1. Disconnect:
 - Connector
2. Dry each terminal with an air blower.



3. Connect and disconnect the connector two or three times.
4. Pull the lead to check that it will not come off.
5. If the terminal comes off, bend up the pin "1" and reinsert the terminal into the connector.



6. Connect:
 - Connector

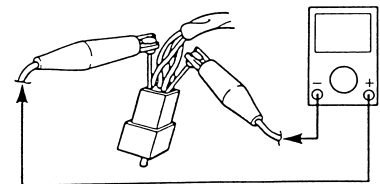
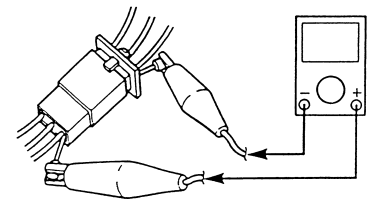
TIP

The two connectors "click" together.

7. Check for continuity with a tester.

TIP

- If there is no continuity, clean the terminals.
- Be sure to perform the steps 1 to 7 listed above when checking the wire harness.
- For a field remedy, use a contact revitalizer available on the market.
- Use the tester on the connector as shown.



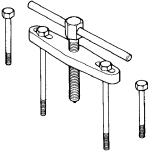
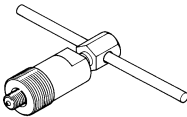
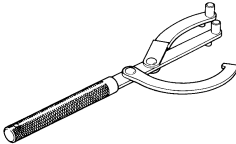
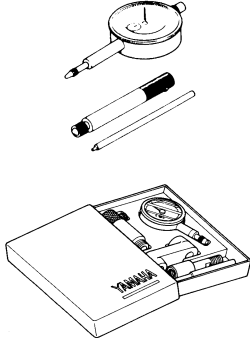
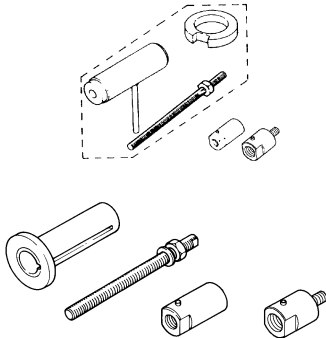
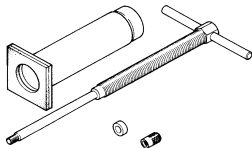
SPECIAL TOOLS

SPECIAL TOOLS

The proper special tools are necessary for complete and accurate tune-up and assembly. Using the correct special tool will help prevent damage caused by the use of improper tools or improvised techniques. The shape and part number used for the special tool differ by country, so two types are provided. Refer to the list provided to avoid errors when placing an order.

TIP

- For U.S.A. and Canada, use part number starting with "YM-", "YU-" or "ACC-".
- For others, use part number starting with "90890-".

Tool name/Part number	How to use	Illustration
Crankcase separating tool YU-01135-B, 90890-01135	These tool is used to remove the crankshaft from either case.	
Flywheel puller YM-01189, 90890-01189	This tool is used to remove the flywheel magneto.	
Rotor holding tool YU-01235, 90890-01235	This tool is used when loosening or tightening the flywheel magneto securing nut.	
Dial gauge and stand YU-03097-B, 90890-01252 Stand YU-01256	These tools are used to check each part for runout or bent.	
Crankshaft installing tool Crankshaft installing pot YU-90058, 90890-01274 Crankshaft installing bolt YU-90060, 90890-01275 Adapter YU-90063, 90890-01278 Adapter YU-01499, 90890-01499	These tools are used to install the crankshaft.	
Piston pin puller set YU-01304, 90890-01304	This tool is used to remove the piston pin.	

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