

# YZF-R6N YZF-R6NC

## SUPPLEMENTARY SERVICE MANUAL

LIT-11616-14-39 5GV-28197-E2

#### **FOREWORD**

This Supplementary Service Manual has been prepared to introduce new service and data for the YZF-R6N/YZF-R6NC. For complete service information procedures it is necessary to use this Supplementary Service Manual together with the following manual.

YZF-R6L/YZF-R6LC SERVICE MANUAL: LIT-11616-12-62 (5GV-28197-E0)
YZF-R6M/YZF-R6MC SUPPLEMENTARY SERVICE MANUAL: LIT-11616-13-43
(5GV-28197-E1)

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#### **NOTICE**

This manual was produced by the Yamaha Motor Company, Ltd. primarily for use by Yamaha dealers and their qualified mechanics. It is not possible to include all the knowledge of a mechanic in one manual, so it is assumed that anyone who uses this book to perform maintenance and repairs on Yamaha motorcycles has a basic understanding of the mechanical ideas and the procedures of motorcycles repair.

Repairs attempted by anyone without this knowledge are likely to render the motorcycles unfit for use.

Yamaha Motor Company, Ltd. is continually striving to improve all its models. Modifications and significant changes in specifications or procedures will be forwarded to all authorized Yamaha dealers and will appear in future editions of this manual where applicable.

NOTE:

Designs and specifications are subject to change without notice.

#### IMPORTANT INFORMATION

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

The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR

SAFETY IS INVOLVED!

\*\* WARNING Failure to follow WARNING instructions could result in severe injury or death to

the motorcycle operator, a bystander or a person inspecting or repairing the

motorcycle.

**CAUTION:** A CAUTION indicates special precautions that must be taken to avoid damage

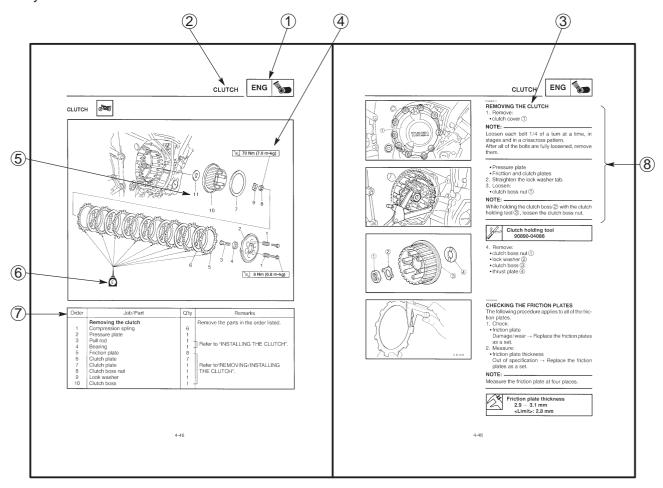
to the motorcycle.

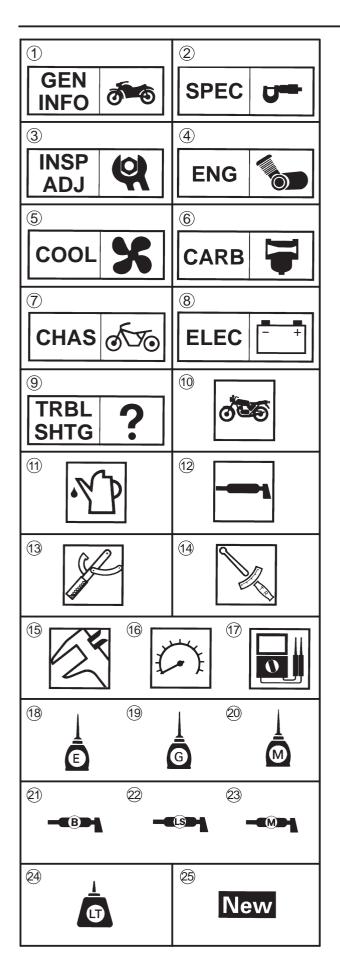
**NOTE:** A NOTE provides key information to make procedures easier or clearer.

#### **HOW TO USE THIS MANUAL**

This manual is intended as a handy, easy-to-read reference book for the mechanic. Comprehensive explanations of all installation, removal, disassembly, assembly, repair and inspection procedures are laid out with the individual steps in sequential order.

- 1 The manual is divided into chapters. An abbreviation and symbol in the upper right corner of each page indicate the current chapter. Refer to "SYMBOLS" on the following page.
- ② Each chapter is divided into sections. The current section title is shown at the top of each page, except in Chapter 3 ("Periodic Inspections and Adjustments"), where the sub-section title (-s) appear.
- (In Chapter 3, "Periodic Inspections and Adjustments", the sub-section title appears at the top of each page, instead of the section title.)
- 3 Sub-section titles appear in smaller print than the section title.
- ④ To help identify parts and clarify procedure steps, there are exploded diagrams at the start of each removal and disassembly section.
- ⑤ Numbers are given in the order of the jobs in the exploded diagram. A circled number indicates a disassembly step.
- (6) Symbols indicate parts to be lubricated or replaced (see "SYMBOLS").
- (7) A job instruction chart accompanies the exploded diagram, providing the order of jobs, names of parts, notes in jobs, etc.
- (8) Jobs requiring more information (such as special tools and technical data) are described sequentially.





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#### **SYMBOLS**

The following symbols are not relevant to every vehicle.

Symbols ① to ⑨ indicate the subject of each chapter.

- (1) General information
- (2) Specifications
- (3) Periodic checks and adjustment
- 4 Engine
- (5) Cooling system
- 6 Carburetor(-s)
- (7) Chassis
- (8) Electrical system
- (9) Troubleshooting

Symbols 10 to 17 indicate the following.

- (10) Serviceable with engine mounted
- (11) Filling fluid
- (12) Lubricant
- (13) Special tool
- (14) Tightening torque
- (15) Wear limit, clearance
- 16 Engine speed
- (17) Electrical data

Symbols ® to 3 in the exploded diagrams indicate the types of lubricants and lubrication points.

- (18) Apply engine oil
- (19) Apply gear oil
- 20 Apply molybdenum disulfide oil
- 21) Apply wheel bearing grease
- 22 Apply lightweight lithium-soap base grease
- 23 Apply molybdenum disulfide grease

Symbols 24 to 25 in the exploded diagrams indicate the following:

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

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#### **GENERAL SPECIFICATIONS**



#### **SPECIFICATIONS**

#### **GENERAL SPECIFICATIONS**

Item	Standard	Limit
Model code	YZF-R6N: 5MT5, 5MT8 (U.S.A.) YZF-R6NC:5MT6, 5MT9 (California)	•••
	YZF-R6N: 5MT7, 5MTA (Canada)	•••
Weight		
Wet (with oil and a full fuel tank)	186 kg (410 lb)	•••
	187 kg (412 lb) (California)	•••
Dry (without oil and fuel)	167 kg (368 lb)	•••
	168 kg (370 lb) (California)	•••
Maximum load (total of cargo, rider, passenger, and accessories)	375 kg (827 lb)	•••

#### **ENGINE SPECIFICATIONS**



#### **ENGINE SPECIFICATIONS**

Item	Standard	Limit
Camshafts Drive system Camshaft cap inside diameter Camshaft journal diameter Camshaft-journal-to-camshaftcap clearance	Chain drive (right) 23.000 ~ 23.021 mm (0.9055 ~ 0.9063 in) 22.967 ~ 22.980 mm (0.9042 ~ 0.9047 in) 0.028 ~ 0.062 mm (0.0011 ~ 0.0025 in)	0.08 mm (0.0031 in)
Carburetors  Model (manufacturer) × quantity Throttle cable free play (at the flange of the throttle grip)	CVRD37 (KEIHIN) $\times$ 4 6 $\sim$ 8 mm (0.24 $\sim$ 0.31 in)	•••
ID mark Main jet	5GV101, 5GV210 (California) Carburetors 1 and 4: #152, #148 (California) Carburetors 2 and 3: #148	•••
Main air jet Jet needle	#110 Carburetors 1 and 4: N7SB : N7SD (California)	•••
	Carburetors 2 and 3: N7SA : N7SE (California)	•••
Needle jet Pilot air jet	2.6 Carburetors 1 and 4: #105 Carburetors 2 and 3: #110	•••
Pilot outlet Pilot jet	0.9 #38, #35 (California)	•••
Bypass 1 Bypass 2 Bypass 3	0.8 0.8 0.8	•••
Valve seat size	1.2	•••

#### **CHASSIS SPECIFICATIONS**



#### **CHASSIS SPECIFICATIONS**

Item	Standard	Limit
Front tire Tire type Size Model (manufacturer)	Tubeless 120/60ZR17 (55W) MICHELIN Pilot SPORT B DUNLOP D207F·J	•••
Tire pressure (cold)  0 ~ 90 kg (0 ~ 198 lb)  90 ~ 189 kg (198 ~ 417 lb)  90 ~ 188 kg (198 ~ 415 lb) (California)  High-speed riding  Min. tire tread depth	250 kPa (2.5 kg/cm <sup>2</sup> , 36.3 psi) 250 kPa (2.5 kg/cm <sup>2</sup> , 36.3 psi) 250 kPa (2.5 kg/cm <sup>2</sup> , 36.3 psi) 250 kPa (2.5 kg/cm <sup>2</sup> , 36.3 psi) •••	••• ••• 1.0 mm (0.04 in)
Rear tire Tire type Size Model (manufacturer)  Tire pressure (cold) 0 ~ 90 kg (0 ~ 198 lb)	Tubeless 180/55 ZR17 (73 W) MICHELIN Pilot SPORT B DUNLOP D207·N  250 kPa (2.5 kg/cm², 36.3 psi)	•••
90 ~ 189 kg (198 ~ 417 lb) 90 ~ 188 kg (198 ~ 415 lb) (California) High-speed riding Min. tire tread depth	290 kPa (2.9 kg/cm <sup>2</sup> , 42.1 psi) 290 kPa (2.9 kg/cm <sup>2</sup> , 42.1 psi) 250 kPa (2.5 kg/cm <sup>2</sup> , 36.3 psi)	1.0 mm (0.04 in)
Drive chain Model (manufacturer) Link quantity Drive chain slack Maximum ten-link section	532ZLV KAI (DID) 116 40 ~ 50 mm (1.57 ~ 1.97 in) 150.1 mm (5.91 in)	•••

#### **ELECTRICAL SPECIFICATIONS**



#### **ELECTRICAL SPECIFICATIONS**

Item	Standard	Limit
Ignition system Ignition system type Ignition timing  Advanced timing Advancer type Pickup coil resistance/color Transistorized coil ignition unit model (manufacturer)	C.D.I.  10° BTDC at 1300 r/min  5° BTDC at 1300 r/min (California)  55° BTDC at 5250 r/min  Throttle position sensor and electrical  248 ~ 372 Ω/Gy-B  F8T383 (MITSUBISHI)	•••
Battery Battery type Battery voltage/capacity	GT9B-4 12 V/8 AH	•••
Bulbs (voltage/wattage × quantity) Headlight Tail/brake light Turn signal/position light Licence plate light Meter light	12 V 60 W/55 W × 2 13.5 V 6.1 W/0.6 W × 20 (LED) 12 V 27 W/8 W × 2 (front) 12 V 27 W × 2 (rear) 12 V 5 W × 1 12 V 1.4 W × 2	•••
Sidestand relay Model Coil resistance	G8R-30Y-M 162 ~ 198 Ω	•••
Fuel pump relay model (manufacturer) Resistance	G8R-30Y-M (OMRON) 162 ~ 198 Ω	•••
Fuses (amperage × quantity) Main fuse Headlight fuse Signaling system fuse Ignition fuse Radiator fan fuse Backup fuse (odometer) Reserve	30 A × 1 20 A × 1 20 A × 1 15 A × 1 7.5 A × 1 7.5 A × 1 30 A × 1 20 A × 1 15 A × 1 7.5 A × 1	•••

#### **TIGHTENING TORQUES**



#### **ENGINE TIGHTENING TORQUES**

Item	Fastener	Thread	Q'ty		ghtenir torque	Remarks		
		size		Nm	m•kg	ft•lb		
Cap bolt (timing chain tensioner)	Bolt	M6	1	7	0.7	5.1		
Neutral switch	Screw	M6	2	20	2.0	14		

#### **CABLE ROUTING**

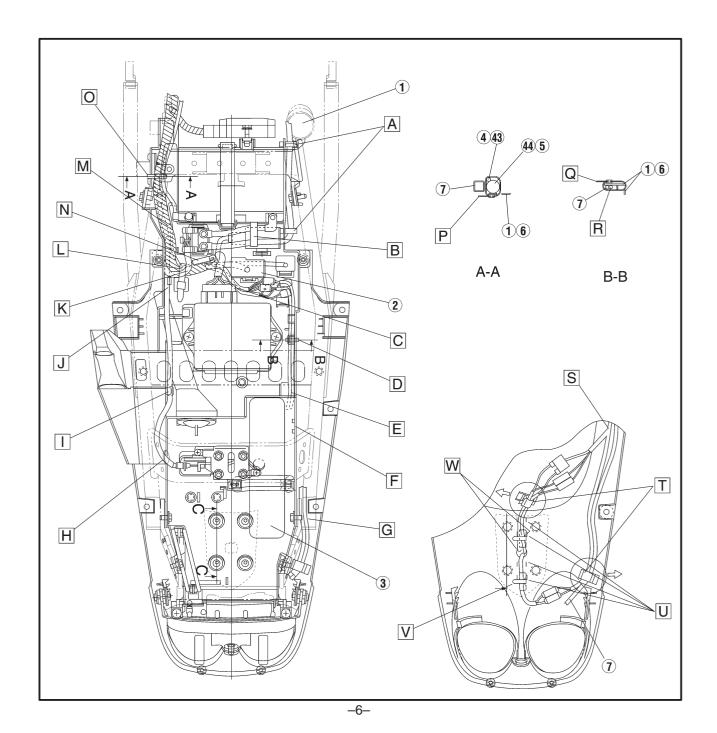
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#### **CABLE ROUTING**

- (1) Reservoir tank
- 2 Fuse box
- (3) Tool kit
- (4) Wire minus lead
- (5) Wire harness
- 6 Battery box
- 7 Frame

- A Fasten the battery box and starter motor lead with a plastic clamp.
- B Fasten the wire positive lead and starter motor lead with clamp at the end of the cover of the battery positive terminal.
  - The end of the clamp is facing frontward.
- C Route the under of the CDI unit coupler.
- D Clamp the lead at the rear of the two holes.
- E Route the leads into the hole.
- F Route the lead along the inside of the two ribs.
- G Route the license plate light lead and taillight lead along the outside of the battery box so that the leads do not get caught between the rib of the battery box and the fender.

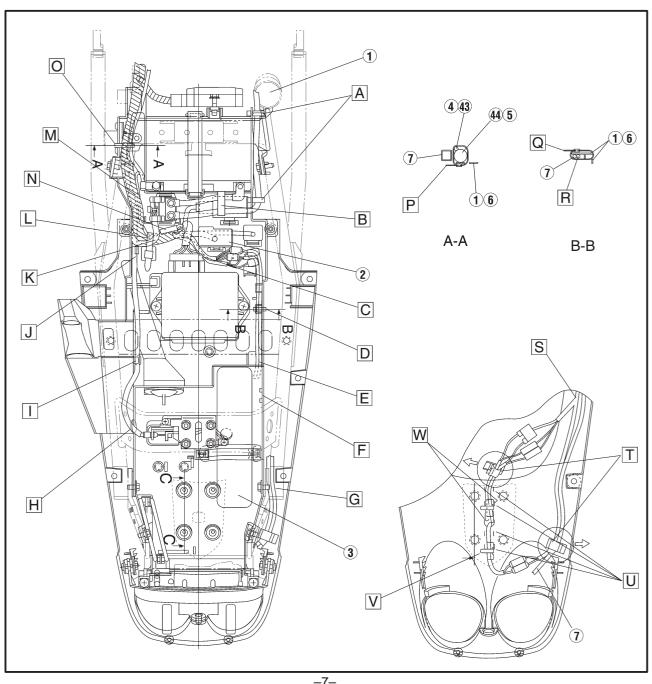


#### **CABLE ROUTING**



- H Route the seat lock cable into the hole of the frame. Mount the cable so that the side covered with a cable protector up the end is positioned at rear.
- The Fasten the seat lock cable with a steel clamp.
- J Do not fasten the seat lock cable.
- K Route the wire negative lead under the starter relay lead.
- L Fasten the main harness, starter relay lead and wire negative lead with a plastic clamp.
- M Route the wire negative lead under the main
- N Position the wire negative lead coupler under the main harness.

- O Fasten the main harness, ground lead and battery box with a plastic clamp.
- P The end of the clamp is facing upward.
- Q The end of the clamp is facing upward.
- R Licence and flasher light sub harness on the taillight unit.
- S Licence and flasher light sub harness on the taillight unit.
- T Clamp the leads.
- U Store the ends of all leads at the inside of the rib.
- V Fasten the licence light lead. And bend the licence light lead.
- W Fasten the flasher light lead. And bend the flasher light lead.





### PERIODIC CHECKS AND ADJUSTMENTS

#### CHASSIS

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#### CHECKING THE BRAKE FLUID LEVEL

1. Stand the motorcycle on a level surface.

#### NOTE: -

- Place the motorcycle on a suitable stand.
- Make sure that the motorcycle is upright.



brake fluid level
 Below the minimum level mark (a) → Add the recommended brake fluid to the proper level.



(a)

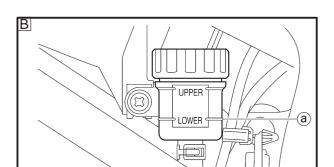
#### Recommended brake fluid DOT 4

A Front brake

B Rear brake

#### **A** WARNING

- Use only the designated brake fluid.
   Other brake fluids may cause the rubber seals to deteriorate, causing leakage and poor brake performance.
- Refill with the same type of brake fluid that is already in the system. Mixing brake fluids may result in a harmful chemical reaction, leading to poor brake performance.
- When refilling, be careful that water does not enter the brake fluid reservoir. Water will significantly lower the boiling point of the brake fluid and could cause vapor lock.



LOWER

CA	1 2		N

Brake fluid may damage painted surfaces and plastic parts. Therefore, always clean up any spilt brake fluid immediately.

NOTE: -

In order to ensure a correct reading of the brake fluid level, make sure that the top of the brake fluid reservoir is horizontal.

#### ADJUSTING THE FRONT FORK LEGS

CHK ADJ

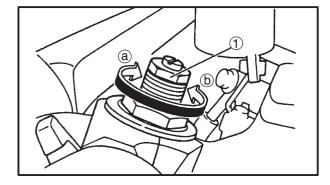
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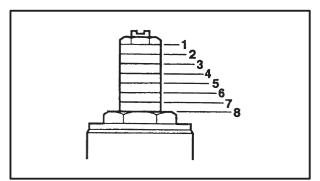
#### ADJUSTING THE FRONT FORK LEGS

The following procedure applies to both of the front fork legs.

#### **A** WARNING

- Always adjust both front fork legs evenly.
   Uneven adjustment can result in poor handling and loss of stability.
- Securely support the motorcycle so that there is no danger of it falling over.





#### Spring preload

#### **CAUTION:**

- Grooves are provided to indicate the adjustment position.
- Never go beyond the maximum or minimum adjustment positions.
- 1. Adjust:
  - spring preload

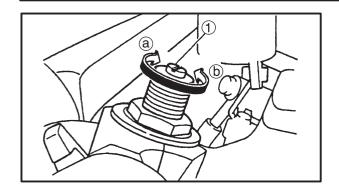
a. Turn the adjusting bolt ① in direction ② or ⑤.

Direction (a)	Spring preload is increased (suspension is harder).
Direction (b)	Spring preload is decreased (suspension is softer).

									S	tan	dard	<u> —</u>		$\neg$		
		Maximum (hard)							٧		imum oft)					
Adjusting position	1		2		3		4		5		6		7		8	

#### **ADJUSTING THE FRONT FORK LEGS**





#### Rebound damping

#### **CAUTION:**

Never go beyond the maximum or minimum adjusting positions.

- 1. Adjust:
- rebound damping
- a. Turn the adjusting screw 1 in direction a or b.

Direction (a)	Rebound damping is increased (suspension is harder).
Direction (b)	Rebound damping is decreased (suspension is softer).

Adjusting positions

Minimum: 10 clicks out\* Standard: 6 clicks out\* Maximum: 1 click out\*

\* From the fully turned-in position

Compression damping

#### **CAUTION:**

Never go beyond the maximum or minimum adjusting positions.

- 1. Adjust:
  - compression damping
- a. Turn the adjusting screw 1 in direction a or

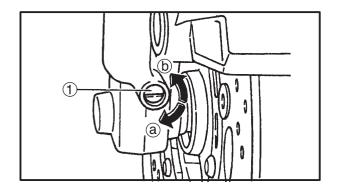
Direction (a)	Compression damping is increased (suspension is harder).
Direction (b)	Compression damping is decreased (suspension is softer).

**Adjusting positions** 

Minimum: 9 clicks out\* Standard: 6 clicks out\* Maximum: 1 click out\*

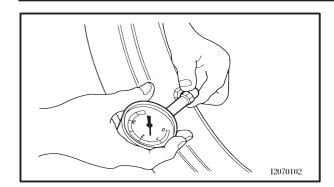
\* From the fully turned-in position

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#### **CHECKING THE TIRES**





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#### **CHECKING THE TIRES**

The following procedure applies to both of the tires

- 1. Measure:
  - tire pressure
     Out of specification → Regulate.

#### **A** WARNING

- The tire pressure should only be checked and regulated when the tire temperature equals the ambient air temperature.
- The tire pressure and the suspension must be adjusted according to the total weight (including cargo, rider, passenger and accessories) and the anticipated riding speed.
- Operation of an overloaded motorcycle could cause tire damage, an accident or an injury.

NEVER OVERLOAD THE MOTORCYCLE.

Basic weight (with oil and a full fuel tank)	186 kg (U.S.A.) 187 kg (California)		
Maximum	189 kg (U.S.A.)		
load*	188 kg (California)		
Cold tire pressure	Front	Rear	
Up to 90 kg	250 kPa	250 kPa	
(198 lb)	(2.5 kg/cm <sup>2</sup> ,	(2.5 kg/cm <sup>2</sup> ,	
load*	36.3 psi)	36.3 psi)	
90 kg (198 lb)	250 kPa	290 kPa	
~maximum	(2.5 kg/cm <sup>2</sup> ,	(2.9 kg/cm <sup>2</sup> ,	
load*	36.3 psi)	42.1 psi)	
High-speed riding	250 kPa (2.5 kg/cm <sup>2</sup> , 36.3 psi)	250 kPa (2.5 kg/cm <sup>2</sup> , 36.3 psi)	

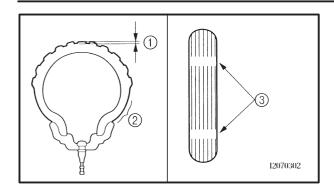
<sup>\*</sup> total of cargo, rider, passenger and accessories

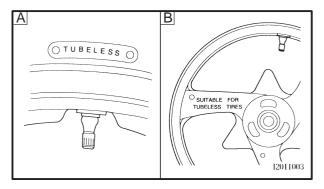
#### **WARNING**

It is dangerous to ride with a worn-out tire. When the tire tread reaches the wear limit, replace the tire immediately.

#### **CHECKING THE TIRES**







- 2. Check:
  - tire surfaces
     Damage/wear → Replace the tire.



Minimum tire tread depth 1.0 mm (0.04 in)

- 1 Tire tread depth
- 2 Side wall
- (3) Wear indicator

#### **A** WARNING

- Do not use a tubeless tire on a wheel designed only for tube tires to avoid tire failure and personal injury from sudden deflation.
- When using a tube tire, be sure to install the correct tube.
- Always replace a new tube tire and a new tube as a set.
- To avoid pinching the tube, make sure that the wheel rim band and tube are centered in the wheel groove.
- Patching a punctured tube is not recommended. If it is absolutely necessary to do so, use great care and replace the tube as soon as possible with a good quality replacement.

A Tire B Wheel

Tube wheel	Tube tire only
Tubeless wheel	Tube or tubeless tire

 After extensive tests, the tires listed below have been approved by Yamaha Motor Co., Ltd. for this model. The front and rear tires should always be by the same manufacturer and of the same design. No guarantee concerning handling characteristics can be given if a tire combination other than one approved by Yamaha is used on this motorcycle.

#### Front tire

Manufacturer	Size	Model
MICHELIN	120/60 ZR17 (55W)	Pilot SPORT B
DUNLOP	120/60 ZR17 (55W)	D207F•J

#### CHECKING THE TIRES/CHECKING THE WHEELS

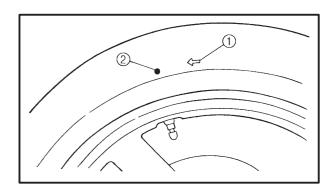


#### Rear tire

Manufacturer	Size	Model
MICHELIN	180/55 ZR17 (73W)	Pilot SPORT B
DUNLOP	180/55 ZR17 (73W)	D207•N

#### **A** WARNING

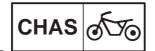
New tires have a relatively low grip on the road surface until they have been slightly worn. Therefore, approximately 100 km sould be traveled at normal speed before any highspeed riding is done.



NOTE: —

For tires with a direction of rotation mark 1:

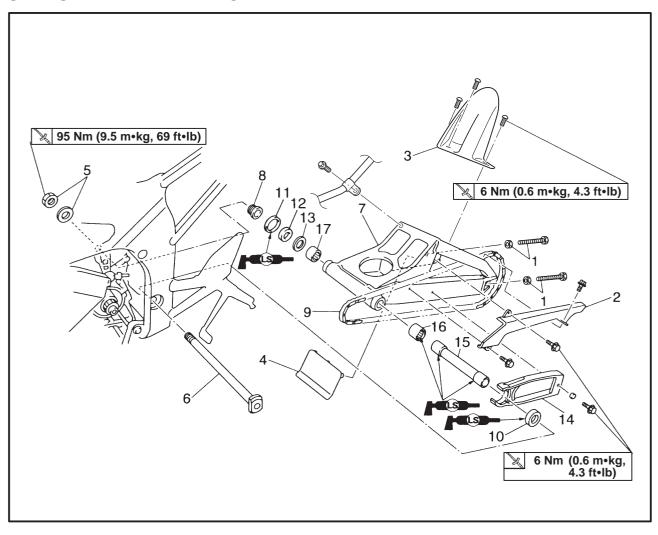
- Install the tire with the mark pointing in the direction of wheel rotation.
- Align the mark ② with the valve installation point.



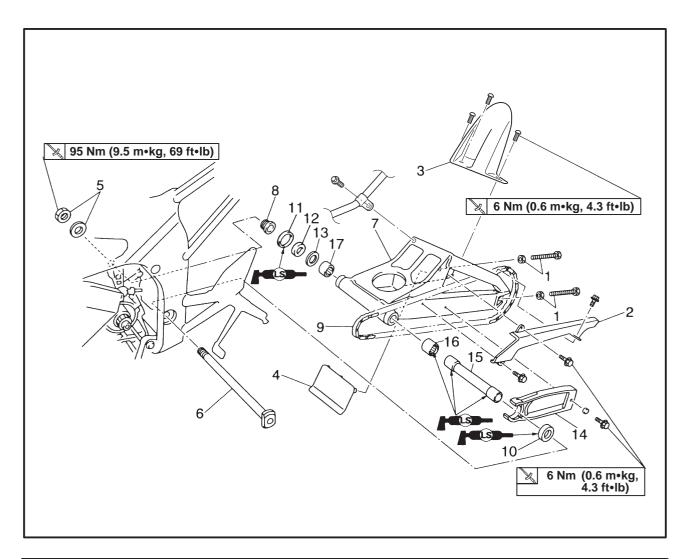
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#### **CHASSIS**

#### **SWINGARM AND DRIVE CHAIN**



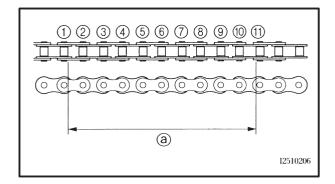
Order	Job/Part	Q'ty	Remarks
	Removing the swingarm and drive chain		Remove the parts in the order listed.
	Drive sprocket		Refer to "ENGINE" in chapter 4.
	Rear wheel		Refer to "REAR WHEEL, BRAKE DISC, AND REAR WHEEL SPROCKET".
	Rear shock absorber assembly		Refer to "REAR SHOCK ABSORBER ASSEMBLY".
1	Adjusting bolt/locknut	2/2	
2	Drive chain guard	1	
3	Rear fender	1	
4	Flap	1	
5	Pivot shaft nut/washer	1/1	
6	Pivot shaft	1	
7	Swingarm	1	



Order	Job/Part	Q'ty	Remarks
8	Pivot shaft adjust bolt	2	Refer to "REMOVING/INSTALLING THE SWINGARM".
9	Drive chain	1	
10	Dust cover	1	
11	Oil seal	1	
12	Bush	1	
13	Shim	1	
14	Drive chain guide	1	
15	Bush	1	
16	Left bearing	1	
17	Right bearing	1	
			For installation, reverse the removal procedure.

#### **SWINGARM AND DRIVE CHAIN**





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#### **CHECKING THE DRIVE CHAIN**

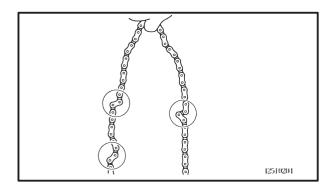
- 1. Measure:
  - ten-link section ⓐ of the drive chain
     Out of specification → Replace the drive chain.



Max. ten-link drive chain section 150.1 mm (5.91 in)

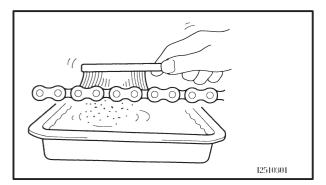
#### NOTE: —

- While measuring the ten-link section, push down on the drive chain to increase its tension.
- Measure the length between drive chain roller
  1) and (1) as shown.
- Perform this measurement at two or three different places.



#### 2. Check:

drive chain
 Stiffness → Clean and lubricate or replace.



#### 3. Clean:

drive chain

#### a. Wipe the drive chain with a clean cloth.

b. Put the drive chain in kerosine and remove any remaining dirt.

#### YZF-R6N/YZF-R6NC WIRING DIAGRAM (1) Main switch L/R Dg B Ch RYWYW Br GWDgRGGR GRRGDgGW L W BY RY 2 Fuse (back up) (3) Rectifier/Regulator (4) A.C. magneto MAIN HARNESS CORD HEAD LIGHT (5) Battery 6 Fuse (main) 7.5A (7) Starter relay 3 (8) Starter motor Starting circuit cut-off relay ww ·-�-:--�-<del>'</del> 10 Sidestand switch 1 Fuel pump 12 Throttle position sensor L/R L/WGW R/B L B/L W B/R L/WLGRWLBLY Sb B/Y SbW Y Sb WR L Y/BR/B - O BrB L/B W - BL B L/R Gy ---**\$** 13 Pickup coil (14) CDI unit 15 Ignition coil #1 16 Ignition coil #2 (17) Ignition coil #3 15 🛓 19 18 Ignition coil #4 19 Špark plug B 0B (BLACK) 20 Meter assembly 21) Fuel level indicator light 16 🛓 19 22 Oil level/coolant temperature warning light 23 Neutral indicator light G<sub>j</sub>(B)Gy (11) 24 Tachometer (BLACK) (BLACK) 25 Combination meter 17 ≟ 19 (BLACK) (B) 26 Hi beam indicator light Turn signal indicator light 28 Meter lights 29 Speed sensor 30 Neutral switch (31) Thermo unit 32 Fuel sender Right handlebar switch Front brake light switch Engine stop switch 20 \$\frac{1}{30} 36 Start switch 22 37 Left handlebar switch 43 Faw Br 55 20A 38 Dimmer switch 23 56 7.5A 39 Horn switch (40) Clutch switch \$ B (41) Turn signal switch 24 42 Horn 43 Flasher relay Dg — Ch Y BY LY WY Dg Y Ch LY BY (BLUE) <del>(</del> @ (40) (BROWN Frotn turn signal light (left) BrL (BROWN) 38 39 HI O+O OFF ON O+O 25 45 Front turn signal light (right) 46 Rear turn signal light (left) R/YB/W Br B BI Br 47 Rear turn signal light (right) **1** 26 48 Oil level switch 49 Headlight (BLUE) (BLUE) 69 27 (BLACK) 60 Rear brake light switch (42) 58 51) Tail/brake light **r**Dg ∰Dg 52 Licence light 53 Fuse (ignition) 64 Fuse (signal) G/W Ø G/W 55 Fuse (headlight) L -(B)-L/R-12V27/8W 56 Fuse (radiator fan motor) M8/ZZ/21 45 V BG BY□ B 57 Thermo switch GW 32 GREEN) 8 Radiator fan motor BG BY□ B 69 Headlight relay 7 @ V 467 **COLOR CODE** R ..... Red Br/W .. Brown/White R/B ... Red/Black B ..... Black GW B (GREEN Br ..... Brown Sb . . . . Sky blue G/R ... Green/Red R/L ... Red/Blue W ..... White G/W ... Green/White R/W ... Red/White Ch .... Chocolate R/Y ... Red/Yellow Y . . . . Yellow G/Y ... Green/Yellow Dg .... Dark green Sb/W . . Sky blue/White G ..... Green B/L.... Black/Blue Gy/B .. Gray/Black Gy .... Gray B/R ... Black/Red L/B . . . . Blue/Black W/G... White/Green L ..... Blue B/W ... Black/White L/R ... Blue/Red W/R ... White/Red Lg ..... Blue green L/W ... Blue/White B/Y ... Black/Yellow W/Y ... White/Yellow O ..... Orange Br/B . . . Brown/Black L/Y . . . Blue/Yellow Y/B ... Yellow/Black P . . . . Pink Br/L ... Brown/Blue O/B ... Orange/Black

