

# YFM7FGPX YFM7FGX

# SERVICE INFORMATION

3B4-28197-E1-SI

## FOREWORD

This Service Information has been prepared to introduce new service and data for the YFM7FGPX/ YFM7FGX. For complete service information procedures it is necessary to use this Service Information together with the following manual.

#### YFM7FGPX/YFM7FGX SUPPLEMENTARY SERVICE MANUAL: 3B4-28197-E1 YFM7FGPW SERVICE INFORMATION: 3B4-28197-E0-SI

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## NOTICE

This manual was produced by the Yamaha Motor Company 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 vehicle has a basic understanding of the mechanical ideas and the procedures of vehicle repair. Repairs attempted by anyone without this knowledge are likely to render the vehicle unsafe and unfit for use.

This model has been designed and manufactured to perform within certain specifications in regard to performance and emissions. Proper service with the correct tools is necessary to ensure that the vehicle will operate as designed. If there is any question about a service procedure, it is imperative that you contact a Yamaha dealer for any service information changes that apply to this model. This policy is intended to provide the customer with the most satisfaction from his vehicle and to conform to federal environmental quality objectives.

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: .

- This Service Manual contains information regarding periodic maintenance to the emission control system. Please read this material carefully.
- Designs and specifications are subject to change without notice.

#### EBS00003 IMPORTANT INFORMATION

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

- The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!
- A WARNING Failure to follow WARNING instructions <u>could result in severe injury or death</u> to the vehicle operator, a bystander or a person checking or repairing the vehicle.
- **CAUTION:** A CAUTION indicates special precautions that must be taken to avoid damage to the vehicle.

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

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## HOW TO USE THIS MANUAL

#### MANUAL ORGANIZATION

This manual consists of chapters for the main categories of subjects. (See "SYMBOLS".)

1st title ①: This is the title of the chapter with its symbol in the upper right corner of each page.

2nd title ②: This title indicates the section of the chapter and only appears on the first page of each section. It is located in the upper left corner of the page.

3rd title ③: This title indicates a sub-section that is followed by step-by-step procedures accompanied by corresponding illustrations.

## **EXPLODED DIAGRAMS**

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 ④ is provided for removal and disassembly jobs.
- 2. Numbers (5) 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 marks⑥. The meanings of the symbol marks are given on the next page.
- 4. A job instruction chart ⑦ 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 (a) are given in addition to the exploded diagram and the job instruction chart.





# SYMBOLS

The following symbols are not relevant to every vehicle.

Symbols 1 to 0 indicate the subject of each chapter.

- ① General information
- ② Specifications
- ③ Periodic checks and adjustments
- ④ Engine
- ⑤ Cooling system
- 6 Fuel injection system
- ⑦ Drive train
- (8) Chassis
- ④ Electrical④ Translate the action
- 1 Troubleshooting

Symbols (1) to (18) indicate the following

- (1) Can be serviced with engine mounted
- 12 Filling fluid
- 13 Lubricant
- (1) Special tool
- 15 Torque
- 16 Wear limit, clearance
- ① Engine speed
- (18) Electrical data ( $\Omega$ , V, A)

Symbols (19) to (26) in the exploded diagrams indicate the types of lubricants and lubrication points.

- (19) Apply engine oil
- ② Apply gear oil
- Apply molybdenum disulfide oil
- 2 Apply brake fluid
- Apply wheel bearing grease
- Apply lithium-soap-based grease
- ② Apply molybdenum disulfide grease
- ② Apply silicone grease

Symbols O to B in the exploded diagrams indicate where to apply a locking agent O and when to install a new part B.

- ② Apply the locking agent (LOCTITE<sup>®</sup>)
- 28 Replace

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YFM7FGPX/YFM7FGX 2008 WIRING DIAGRAM (for CDN)

YFM7FGPX/YFM7FGX 2008 WIRING DIAGRAM (for Europe and Oceania)

# GENERAL SPECIFICATIONS



EBS01001

## **SPECIFICATIONS**

#### **GENERAL SPECIFICATIONS**

Item	Standard
Model code	3B4E, 3B4J, 3B4N, 3B4S (YFM7FGPX) (for CDN) 3B4F, 3B4K, 3B4P (YFM7FGPX) (for Europe) 3B4G, 3B4R (YFM7FGPX) (for Oceania) 5C02, 5C06 (YFM7FGX) (for CDN) 5C04 (YFM7FGX) (for Oceania)
Oil type or grade	
Engine oil	
For CDN	API service, SG type or higher, JASO standard
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	MA
Final gear oil	SAE 80 API GL-4 Hypoid gear oil
Differential gear oil	SAE 80 API GL-4 Hypoid gear oil

# GENERAL SPECIFICATIONS

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SPEC	<b>U</b>
------	----------

Item		Standard			
Transmission					
Primary reduction system		V-belt			
Secondary reduction system		Shaft drive			
Secondary reduction ratio		41/21 × 24/18 × 33/9 (9.544)			
Transmission type		V-belt automatic			
Operation		Left hand operation			
Single speed automatic		2.380 ~ 0.700 : 1			
Sub transmission ratio	low	31/16 (1.938)			
	high	31/27 (1.148)			
Reverse gear		23/14 × 28/23 (2.000)			
Bulb voltage/wattage $\times$ quantity					
Headlight		12 V 35.0 W/35.0 W × 2			
Tail/brake light		12 V 5.0/21.0 W × 1			
Indicator light					
Neutral indicator light		LED			
Reverse indicator light		LED			
Coolant temperature warning lig	ht	LED			
Engine trouble warning light		LED			
EPS warning light		LED (YFM7FGPX only)			
Park indicator light		LED			
On-command four-wheel drive/differential		LCD			
gear lock indicator					
High-range indicator light		LED			
Low-range indicator light		LED			
Differential gear lock indicator lig	jht	LED			

# ENGINE SPECIFICATIONS

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#### EBS01002 ENGINE SPECIFICATIONS

Item	Standard	Limit
Valve spring		
Free length		
Intake	40.38 mm (1.59 in)	38.36 mm
		(1.51 in)
Exhaust	40.38 mm (1.59 in)	38.36 mm
		(1.51 in)
Installed length (valve closed)		
Intake	35.00 mm (1.38 in)	
Exhaust	35.00 mm (1.38 in)	
Compressed spring force (installed)		
Intake	171 ~ 197 N	
	(17.44 ~ 20.09 kgf, 38.44 ~ 44.29 lb)	
Exhaust	171 ~ 197 N	
	(17.44 ~ 20.09 kgf, 38.44 ~ 44.29 lb)	
Spring tilt *		
+ + *		
111111111		
Intake		2.5°/1.80 mm
		(2.5°/0.071 in)
Exhaust		2.5°/1.80 mm
		(2.5°/0.071 in)
Winding direction (top view)		
Intake	Clockwise	
Exhaust	Clockwise	

# CHASSIS SPECIFICATIONS



# CHASSIS SPECIFICATIONS

Item	Standard	Limit
Front wheel		
Туре	Panel wheel	
Rim size	12 × 6.0 AT	
Rim material	Aluminum (YFM7FGPX)	
	Steel (YFM7FGX)	
Maximum radial wheel runout		2.0 mm
		(0.08 in)
Maximum lateral wheel runout		2.0 mm
		(0.08 in)
Rear wheel		
Туре	Panel wheel	
Rim size	12 × 7.5 AT	
Rim material	Aluminum (YFM7FGPX)	
	Steel (YFM7FGX)	
Maximum radial wheel runout		2.0 mm
		(0.08 in)
Maximum lateral wheel runout		2.0 mm
		(0.08 in)

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# ELECTRICAL SPECIFICATIONS

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# ELECTRICAL SPECIFICATIONS

Item	Standard	Limit
ECU		
Model/manufacturer	F8T83472/MITSUBISHI	
Ignition coil		
Model/manufacturer	2JN/YAMAHA	
Minimum ignition spark gap	6.0 mm (0.24 in)	
Primary coil resistance	2.16 ~ 2.64 Ω at 20 °C (68 °F)	
Secondary coil resistance	8.64 ~ 12.96 kΩ at 20 °C (68 °F)	
Circuit breaker		
Circuit breaker type	Fuse	
Fuses		
Main fuse	40.0 A	
Headlight fuse	15.0 A	
Signaling system fuse	5.0 A	
Ignition fuse	10.0 A	
Auxiliary DC jack fuse	15.0 A	
Fuel injection system fuse	15.0 A	
Four-wheel-drive motor fuse	10.0 A	
EPS fuse	40.0 A (YFM7FGPX only)	
Radiator fan motor fuse	15.0 A	
Spare fuse	40.0 A	
	15.0 A	
	10.0 A	
	5.0 A	

## TIGHTENING TORQUES



#### EBS01005 TIGHTENING TORQUES

#### **ENGINE TIGHTENING TORQUES**

Item	Part name	Thread	O'ty	Tight	ening to	Bomarke	
	i an name	size	Qiy	Nm	m ∙ kg	ft · lb	i icinalită
Oil filter cartridge union bolt	Union bolt	M20	1	30	3.0	22	Ġ
Exhaust pipe	Nut	M8	4	14	1.4	10	
Middle drive pinion gear nut	Nut	M22	1	190	19.0	140	Stake.

EBS01006

#### **CHASSIS TIGHTENING TORQUES**

Part to be tightened	Throad size	Tight	ening to	Bomarke	
r art to be lightened	Thead Size	Nm	m · kg	ft · lb	TICHIAINS
Steering stem bracket and frame	M10	51	5.1	37	4
Steering stem support and frame (YFM7FGX only)	M8	30	3.0	22	Ð
EPS control unit and frame (YFM7FGPX only)	M8	30	3.0	22	-6
Pitman arm nut (YFM7FGX)	M14	190	19.0	140	
Pitman arm nut (YFM7FGPX)	M16	210	21.0	150	
Steering stem joint bolt (YFM7FGPX only)	M8	35	3.5	25	-
Steering stem bearing and frame (YFM7FGPX only)	M10	51	5.1	37	Ð
Steering stem bearing nut (YFM7FGPX only)	M22	125	12.5	90	
EPS motor cover (YFM7FGPX only)	M6	7	0.7	5.1	

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- ① Coolant reservoir hose
- ② Radiator fan motor breather hose
- ③ Differential gear case breather hose
- ④ EPS motor breather hose (YFM7FGPX only)
- (5) Ground lead
- 6 Coolant reservoir breather hose
- ⑦ Throttle cable
- (8) Fuel injector lead
- (9) Final gear case breather hose

- (1) Speed sensor lead
- (1) Crankshaft position sensor lead
- 12 Differential gear motor lead
- BEPS torque sensor lead (YFM7FGPX only)
- (4) Fast idle plunger outlet hose
- (5) Horn switch lead (for Europe and Oceania)
- 16 Radiator outlet hose
- Gear position switch lead
- 18 Reverse switch lead





- (19) Shift control cable
- ② Starter motor lead
- A Face the end of the coolant reservoir breather hose downward.
- B Route the ground lead, radiator fan motor breather hose, differential gear case breather hose, and EPS motor breather hose to the inside of the fast idle plunger outlet hose.
- C Pass the radiator fan motor breather hose through the larger diameter guide.

- Route the coolant reservoir breather hose to the outside of the fast idle plunger outlet hose.
- E Route the fuel injector lead under the fuel hose.
- F Fasten the radiator outlet hose to the frame with the plastic band, making sure to face the end of the band inward.
- G Route the EPS motor breather hose under the coolant reservoir hose.



- H Place the EPS torque sensor lead and differential gear motor lead in the holder, and then insert the ends of the holder into the hole in the stay on the frame.
- I Route the differential gear case breather hose to the inside of the frame.
- J Fasten the differential gear case breather hose to the frame with the plastic band, making sure to face the end of the band inward.
- K Attach the ground lead terminal to the frame using the bolt.



- □ Route the radiator fan motor breather hose, differential gear case breather hose, and horn switch lead to the inside of the fast idle plunger outlet hose and radiator outlet hose.
- Make sure that the catch of the holder is facing outward.
- $\ensuremath{\mathbb{N}}$  Face the end of the plastic band inward.
- O Route the fuel tank drain hose and position the end of the hose as shown in the illustration.





- P Pass the speed sensor lead, AC magneto lead, and final gear case breather hose through the guide in the order listed.
- Q Route the speed sensor lead, AC magneto lead, and final gear case breather hose to the right of the reverse switch.
- R Route the final gear case breather hose above the reverse switch lead and ground leads.
- S Route the shift control cable under the gear position switch lead, speed sensor lead, and crankshaft position sensor lead.

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- ① Wire harness
- ② Fuel injector lead
- ③ Fuel hose
- ④ Intake air temperature sensor lead
- (5) Final gear case breather hose
- 6 Ground lead
- ⑦ Starter motor lead
- $\textcircled{\sc 8}$  Air filter case breather hose
- (9) Main switch lead
- 1 Auxiliary DC jack lead
- (1) EPS motor lead (YFM7FGPX only)



- Differential gear motor lead
- (3) EPS torque sensor lead (YFM7FGPX only)
- (4) Radiator fan motor lead
- 15 Radiator inlet hose
- (6) EPS motor breather hose (YFM7FGPX only)
- ⑦ Spark plug lead
- (18) Rear brake cable
- (19) Shift control cable
- ② Fuel tank drain hose
- (2) Gear position switch lead
- AC magneto lead





- ③ Speed sensor lead
- 2 Coolant temperature sensor lead
- ② EPS motor lead coupler (YFM7FGPX only)
- ② EPS torque sensor lead coupler (YFM7FGPX only)
- A Route the fuel hose between the wire harness and the fuel tank drain hose.
- B Route the coolant temperature sensor lead above the fast idle plunger inlet hose.
- C Route the final gear case breather hose above the V-belt cooling duct 1.
- Route the radiator fan motor lead between the electrical components tray and the radiator inlet hose.
- E Fasten the radiator fan motor lead to the frame with the plastic band, making sure to face the end of the band inward.



- F Route the fuel tank drain hose to the inside of the leads and fuel hose, making sure to position the end of the drain hose as shown in the illustration.
- G Fasten the final gear case breather hose, ground lead, starter motor lead, fuel injector lead, coolant temperature sensor lead, AC magneto lead, and wire harness with the plastic band, making sure to position the band near the split in the wire harness.



- H Route the fuel injector lead and coolant temper- ature sensor lead to the inside of the ground lead, starter motor lead, final gear case breather hose, and wire harness.
- I Face the end of the plastic band inward.
- J Pass the plastic band through the hole in the plastic cover, and then fasten the leads and hose with the band, making sure to face the end of the band downward.
- K Insert the projection on the coupler into the hole in the frame from the inside of the frame.





- L Face the end of the plastic band inward.
- M Fasten the spark plug lead with the larger diameter section of each holder.
- N YFM7FGPX
- O YFM7FGX



- ① Left headlight lead
- 2 Negative battery lead
- ③ Right headlight lead
- ④ EPS (electric power steering) control unit (YFM7FGPX only)
- 5 Radiator fan motor lead
- 6 EPS control unit lead (YFM7FGPX only)
- ⑦ Auxiliary DC jack lead
- $\circledast$  Main switch lead
- $(\ensuremath{\mathfrak{9}}$  Final gear case breather hose
- 1 Starter motor lead



- (1) Differential gear motor lead
- 12 Ignition coil lead
- 13 Meter lead

- 15 -

- (4) Lean angle sensor lead
- (5) Coolant reservoir breather hose
- 16 Main fuse
- ⑦ EPS fuse (YFM7FGPX only)
- 18 Positive battery lead
- (19) Horn switch lead (for Europe and Oceania)
- ② Coolant reservoir hose
- 2) EPS motor breather hose (YFM7FGPX only)





- ② Differential gear case breather hose
- Radiator fan motor breather hose
- ② Ground lead
- 25 Relay lead
- 26 Wire harness
- ⑦ Joint coupler lead
- A To left headlight
- B Connect the headlight coupler, and then fasten the coupler with the holder on the electrical components tray.
- C Route the negative battery lead along the guide on the electrical components tray.
- D To right headlight
- E Place the couplers on the inside of the electrical components tray.
- $\ensuremath{\mathbb{F}}$  To main switch and auxiliary DC jack
- G Fasten the left handlebar switch lead, on-command four-wheel-drive motor switch and differential gear lock switch lead, front brake light switch lead, and rear brake light switch lead with the clamp.





- H Fasten the joint coupler lead and horn switch lead (for Europe and Oceania) with the clamp.
- ☐ Pass the coolant reservoir breather hose through the guides on the plastic cover and electrical components tray and route it under the positive battery lead and starter motor lead.
- J Route the hoses under the positive battery lead, and then route them upward, to the inside of the coolant reservoir breather hose.
- K Fasten the coolant reservoir breather hose with the holder on the electrical components tray.

# □ Fasten the coolant reservoir hose with the holder on the electrical components tray.

- M Pass the hoses, ground lead, and horn switch lead through the opening in the electrical components tray.
- N Route the coolant reservoir breather hose above the other hoses.
- O Route the hoses to the inside of the bolt.
- P YFM7FGPX
- Q YFM7FGX





- 1 Throttle cable
- ② Rear brake hose
- ③ Rear brake cable
- 4 Front brake hose
- (5) Negative battery lead
- 6 Final gear case breather hose
- ⑦ Starter motor lead
- ⑧ Throttle body breather hose
- (9) Engine idling speed adjusting cable
- 1 Intake air pressure sensor lead

- Breather hose (air filter case to fast idle plunger unit)
- 12 TPS lead
- (13) Intake air temperature sensor lead
- (4) Fuel injector lead
- (5) Coolant temperature sensor lead
- 16 Rectifier/regulator lead
- ① AC magneto lead
- 18 Fuel hose
- 19 Tail/brake light lead
- ② Fuel pump lead





- 2) Fast idle plunger outlet hose
- 2 Wire harness
- A Route the final gear case breather hose on top of the leads.
- B Route the intake air pressure sensor lead to the front of the breather hose (air filter case to fast idle plunger unit) and above the engine idling speed adjusting cable.
- C To engine
- D To air filter case

- E Route the fuel injector lead and coolant temperature sensor lead to the outside of the frame.
- F Pass the tail/brake light lead through the hole in the rear fender.
- G Fasten the tail/brake light lead with the holder, making sure that the coupler is positioned to the rear of the holder.
- H Route the throttle cable under the plastic cover.
- Route the fast idle plunger outlet hose above the plastic cover.



- J Pass the throttle cable through the guide on the plastic cover.
- K Insert the projection on the wire harness holder into the hole in the plastic cover.





#### INTRODUCTION/PERIODIC MAINTENANCE CHART FOR THE EMISSION CONTROL SYSTEM



EBS00029

## PERIODIC CHECKS AND ADJUSTMENTS

## INTRODUCTION

This chapter includes all information necessary to perform recommended checks and adjustments. These preventive maintenance procedures, if followed, will ensure more reliable vehicle operation and a longer service life. The need for costly overhaul work will be greatly reduced. This information applies to vehicles already in service as well as to new vehicles that are being prepared for sale. All service technicians should be familiar with this entire chapter.

## PERIODIC MAINTENANCE CHART FOR THE EMISSION CONTROL SYSTEM

#### NOTE:

- For ATVs not equipped with an odometer or an hour meter, follow the month maintenance intervals.
- For ATVs equipped with an odometer or an hour meter, follow the km (mi) or hours maintenance intervals. However, keep in mind that if the ATV isn't used for a long period of time, the month maintenance intervals should be followed.
- Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills.

							INITIAL	l	EVE	ERY
					month	1	3	6	6	12
N	0.	ITEM	NANCE JOB	Whichever comes first ∠>	km (mi)	320 (200)	1300 (800)	2500 (1600)	2500 (1600)	5000 (3200)
				7	hours	20	80	160	160	320
1	*	Fuel line	Check fuel hoses for cracks or other damage, and replace if necessary.					$\checkmark$	$\checkmark$	$\checkmark$
2		Spark plug	Check condition and clean, regap, or replace if nec- essary.				V	V	$\checkmark$	
3	*	Valves	Check valve clearance an	Check valve clearance and adjust if necessary.					$\checkmark$	
4	*	Fuel injection	Check and adjust engine	idle speed.		$\checkmark$			$\checkmark$	
5	*	Crankcase breather system	<ul> <li>Check breather hose for c and replace if necessary.</li> </ul>	racks or other d	lamage,			$\checkmark$	$\checkmark$	$\checkmark$
6	*	Exhaust system	<ul> <li>Check for leakage and repsary.</li> <li>Check for looseness and and joints if necessary.</li> </ul>	place gasket(s) i tighten all screw	if neces- / clamps				$\checkmark$	
7		Spark arrester	Clean.						$\checkmark$	$\checkmark$

# GENERAL MAINTENANCE AND LUBRICATION CHART

# GENERAL MAINTENANCE AND LUBRICATION CHART

Γ			INITIAL			EV	ERY			
					month	1	3	6	6	12
N	0.	ITEM	NANCE JOB	Whichever comes first	first km (mi)	320 (200)	1300 (800)	2500 (1600)	2500 (1600)	5000 (3200)
				ł	hours	20	80	160	160	320
1		Air filter element	Clean and replace if nece	ssary.		Every 2	0–40 hours	s (more of areas)	ten in wet	or dusty
2	*	Front brake	<ul> <li>Check operation and corr</li> <li>Check fluid level and ATV correct if necessary.</li> </ul>	ect if necessary ' for fluid leakag	e, and	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
			<ul> <li>Replace brake pads.</li> </ul>				Whenev	er worn to	the limit	
3	*	Rear brake	<ul> <li>Check operation and correct if necessary.</li> <li>Check brake pedal free play and adjust if necessary.</li> <li>Check fluid level and ATV for fluid leakage, and correct if necessary.</li> </ul>			$\checkmark$	V	$\checkmark$	$\checkmark$	$\checkmark$
			<ul> <li>Replace brake pads.</li> </ul>				Whenev	er worn to	the limit	
4	*	Brake hoses	<ul> <li>Check for cracks or other necessary.</li> </ul>	damage, and re	eplace if		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
			Replace.				E	very 4 yea	rs	
5	*	Rear brake hose protectors	<ul> <li>Check for wear, cracks or replace if necessary.</li> </ul>	other damage,	and	$\checkmark$	V	$\checkmark$	$\checkmark$	$\checkmark$
6	*	Wheels	<ul> <li>Check runout and for damessary.</li> </ul>	hage, and replac	ce if nec-	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$
7	*	Tires	<ul> <li>Check tread depth and for damage, and replace if necessary.</li> <li>Check air pressure and balance, and correct if necessary.</li> </ul>			$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$
8	*	Wheel hub bear- ings	<ul> <li>Check for looseness or da necessary.</li> </ul>	amage, and repl	ace if	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$
9	*	V-belt	<ul> <li>Check for wear, cracks or replace if necessary.</li> </ul>	other damage,	and	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$
10	*	Chassis fasteners	<ul> <li>Make sure that all nuts, be erly tightened.</li> </ul>	olts, and screws	are prop-	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
11	*	Shock absorber assemblies	<ul><li>Check operation and corr</li><li>Check for oil leakage and</li></ul>	ect if necessary replace if neces	ssary.			$\checkmark$	$\checkmark$	$\checkmark$
12	*	Stabilizer bushes	<ul> <li>Check for cracks or other necessary.</li> </ul>	damage, and re	eplace if			$\checkmark$	$\checkmark$	$\checkmark$
13	*	Rear knuckle piv- ots	Lubricate with lithium-soa	p-based grease				$\checkmark$	$\checkmark$	$\checkmark$
14	*	Steering shaft	<ul> <li>Lubricate with lithium-soa</li> </ul>	p-based grease				$\checkmark$	$\checkmark$	$\checkmark$
15	*	Steering system	<ul> <li>Check operation and repa</li> <li>Check toe-in and adjust if</li> </ul>	air or replace if c necessary.	lamaged.	$\checkmark$	V	$\checkmark$	$\checkmark$	$\checkmark$
16	*	Engine mount	<ul> <li>Check for cracks or other necessary.</li> </ul>	damage, and re	eplace if			$\checkmark$	$\checkmark$	$\checkmark$
17	*	Axle boots	<ul> <li>Check for cracks or other necessary.</li> </ul>	damage, and re	eplace if	$\checkmark$	V	$\checkmark$	$\checkmark$	$\checkmark$
18		Engine oil	<ul> <li>Change.</li> <li>Check ATV for oil leakage sary.</li> </ul>	<ul><li>Change.</li><li>Check ATV for oil leakage, and correct if necessary.</li></ul>				$\checkmark$	$\checkmark$	$\checkmark$
19		Engine oil filter cartridge	Replace.			$\checkmark$		$\checkmark$		$\checkmark$
20		Differential gear oil	<ul> <li>Change.</li> <li>Check ATV for oil leakage sary.</li> </ul>	e, and correct if	neces-	$\checkmark$				$\checkmark$

## **GENERAL MAINTENANCE AND LUBRICATION CHART**



					INITIAL		EV	ERY	
				month	1	3	6	6	12
NO	ITEM	NANCE JOB	Whichever comes first ∠>	km (mi)	320 (200)	1300 (800)	2500 (1600)	2500 (1600)	5000 (3200)
			~	hours	20	80	160	160	320
21	Final gear oil	<ul> <li>Change.</li> <li>Check ATV for oil leakage, and correct if necessary.</li> </ul>			$\checkmark$				$\checkmark$
22	Cooling system	Check coolant level and ATV for coolant leakage, and correct if necessary.			$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
		<ul> <li>Replace coolant.</li> </ul>			Every 2 years				
23 *	Moving parts and cables	Lubricate.				$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
24 '	Drive select lever safety system cable	Check operation and adju	<ul> <li>Check operation and adjust or replace if necessary.</li> </ul>				$\checkmark$	$\checkmark$	$\checkmark$
25 '	Throttle lever housing and cable	<ul> <li>Check operation and correct if necessary.</li> <li>Check throttle cable free play and adjust if necessary.</li> <li>Lubricate throttle lever housing and cable.</li> </ul>			$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
26 *	Front and rear brake switches	Check operation and correct if necessary.			$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
27 *	Lights and switches	<ul> <li>Check operation and corre</li> <li>Adjust headlight beams.</li> </ul>	ect if necessary		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	

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#### EBU23070

#### NOTE: .

• The air filter needs more frequent service if you are riding in unusually wet or dusty areas.

- Hydraulic brake service
  - Regularly check and, if necessary, correct the brake fluid level.
  - Every two years replace the internal components of the brake master cylinders and calipers, and change the brake fluid.
  - Replace the brake hoses every four years and if cracked or damaged.

#### YFM7FGPX/YFM7FGX 2008 WIRING DIAGRAM (for CDN)

- ① Crankshaft position sensor
- ② AC magneto
- ③ Rectifier/regulator
- ④ Main switch
- 5 Frame ground
- 6 Main fuse
- ⑦ EPS fuse
- 8 Battery
- Interpretent injection system fuse
- 1 Starter relay
- ① Starter motor
- 12 EPS torque sensor
- (3) EPS motor
- ④ EPS (electric power steering) control unit
- (5) EPS self-diagnosis signal connectors
- 16 Diode 1
- 17 Starting circuit cut-off relay
- 18 Fuel injection system relay
- 19 Diode 2
- ② Reverse switch
- 2 ECU (engine control unit)
- 2 Ignition coil
- 23 Spark plug
- 2 Fuel injector
- ② Intake air temperature sensor
- (26) Coolant temperature sensor
- ② Speed sensor
- ② TPS (throttle position sensor)
- ② Intake air pressure sensor
- 3 Lean angle sensor
- ③ Gear position switch
- ③ Meter assembly
- 3 Multifunction meter
- 3 Engine trouble warning light
- ③ Coolant temperature warning light
- 36 Park indicator light
- ③ Reverse indicator light
- 38 Neutral indicator light
- 39 High-range indicator light
- 40 Low-range indicator light
- ④ EPS warning light
- ④ Fuel sender
- 43 Fuel pump
- Four-wheel-drive motor relay 1
- 45 Four-wheel-drive motor relay 2
- G Four-wheel-drive motor relay 3
- ⑦ On-command four-wheel-drive motor switch and differential gear lock switch
- (48) Differential gear motor
- 49 Four-wheel-drive motor fuse
- 50 Auxiliary DC jack fuse
- S Auxiliary DC jack

52 Left handlebar switch 63 Light switch 64 Engine stop switch 65 Start switch 60 Override switch 3 Headlight relay 68 Headlight 59 Ignition fuse 60 Signaling system fuse (6) Headlight fuse 2 Rear brake light switch 63 Front brake light switch 64 Tail/brake light 65 Diode 3 66 Rear brake relay 67 Radiator fan motor 68 Radiator fan motor circuit breaker 69 Radiator fan motor relay ⑦ Radiator fan motor fuse A YFM7FGPX only

COLOR CODE B..... Black Br ..... Brown G ..... Green Gy ..... Grav L ..... Blue Lg ..... Light green O ..... Orange P.....Pink R ..... Red Sb..... Sky blue W..... White Y..... Yellow B/L..... Black/Blue B/R ..... Black/Red B/W ..... Black/White B/Y ..... Black/Yellow Br/B ..... Brown/Black Br/L ..... Brown/Blue Br/R ..... Brown/Red Br/W ..... Brown/White Br/Y ..... Brown/Yellow G/R..... Green/Red G/W ...... Green/White G/Y ..... Green/Yellow Gy/G..... Gray/Green L/B..... Blue/Black L/G ..... Blue/Green L/R ..... Blue/Red L/W..... Blue/White L/Y..... Blue/Yellow O/G ..... Orange/Green O/W ..... Orange/White R/B ..... Red/Black R/L ..... Red/Blue R/W ..... Red/White R/Y ..... Red/Yellow W/B ..... White/Black W/L..... White/Blue W/R ..... White/Red Y/B ..... Yellow/Black Y/G..... Yellow/Green Y/L..... Yellow/Blue Y/R ..... Yellow/Red Y/W ...... Yellow/White

#### YFM7FGPX/YFM7FGX 2008 WIRING DIAGRAM (for Europe and Oceania)

- Crankshaft position sensor
   AC magneto
- ③ Rectifier/regulator
- (4) Main switch
- 5 Frame ground
- 6 Main fuse
- (7) EPS fuse
- (8) Battery
- 9 Fuel injection system fuse
- 10 Starter relay
- (1) Starter motor
- (12) EPS torque sensor
- (13) EPS motor
- ④ EPS (electric power steering) control unit
- (5) EPS self-diagnosis signal connectors
- 16 Diode 1
- 17 Starting circuit cut-off relay
- (8) Fuel injection system relay
- (19) Diode 2
- ② Reverse switch
- 2 ECU (engine control unit)
- Ignition coil
- ② Spark plug
- ② Fuel injector
- ② Intake air temperature sensor
- ② Coolant temperature sensor
- ② Speed sensor
- ② TPS (throttle position sensor)
- ② Intake air pressure sensor
- 3 Lean angle sensor
- (3) Gear position switch
- 32 Meter assembly
- 3 Multifunction meter
- 3 Engine trouble warning light
- ③ Coolant temperature warning light
- 36 Park indicator light
- ③ Reverse indicator light
- 38 Neutral indicator light
- 39 High-range indicator light
- (1) Low-range indicator light
- (1) EPS warning light
- 42 Fuel sender
- (43) Fuel pump
- 4 Four-wheel-drive motor relay 1
- 45 Four-wheel-drive motor relay 2
- Four-wheel-drive motor relay 3
- ⑦ On-command four-wheel-drive motor switch and differential gear lock switch
- (48) Differential gear motor
- 49 Four-wheel-drive motor fuse
- 50 Auxiliary DC jack fuse
- (5) Auxiliary DC jack

62 Left handlebar switch 63 Light switch 64 Engine stop switch 65 Start switch 60 Override switch 3 Headlight relay 68 Headlight 59 Ignition fuse 60 Signaling system fuse (6) Headlight fuse 2 Rear brake light switch 63 Front brake light switch 64 Tail/brake light 65 Diode 3 66 Rear brake relay 67 Radiator fan motor 68 Radiator fan motor circuit breaker 69 Radiator fan motor relay ⑦ Radiator fan motor fuse (7) Horn switch 2 Horn A YFM7FGPX only

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- W/R ...... White/Red Y/B ...... Yellow/Black
- Y/G..... Yellow/Green
- Y/L..... Yellow/Blue
- Y/R ...... Yellow/Red Y/W ...... Yellow/White



2500 SHINGAI IWATA SHIZUOKA JAPAN

#### YFM7FGPX/YFM7FGX 2008 WIRING DIAGRAM (for CDN)

#### YFM7FGPX/YFM7FGX 2008 SCHÉMA DE CÂBLAGE (Canada)





#### YFM7FGPX/YFM7FGX 2008 WIRING DIAGRAM (for Europe and Oceania)

#### YFM7FGPX/YFM7FGX 2008 SCHÉMA DE CÂBLAGE (Europe et Océanie)

