

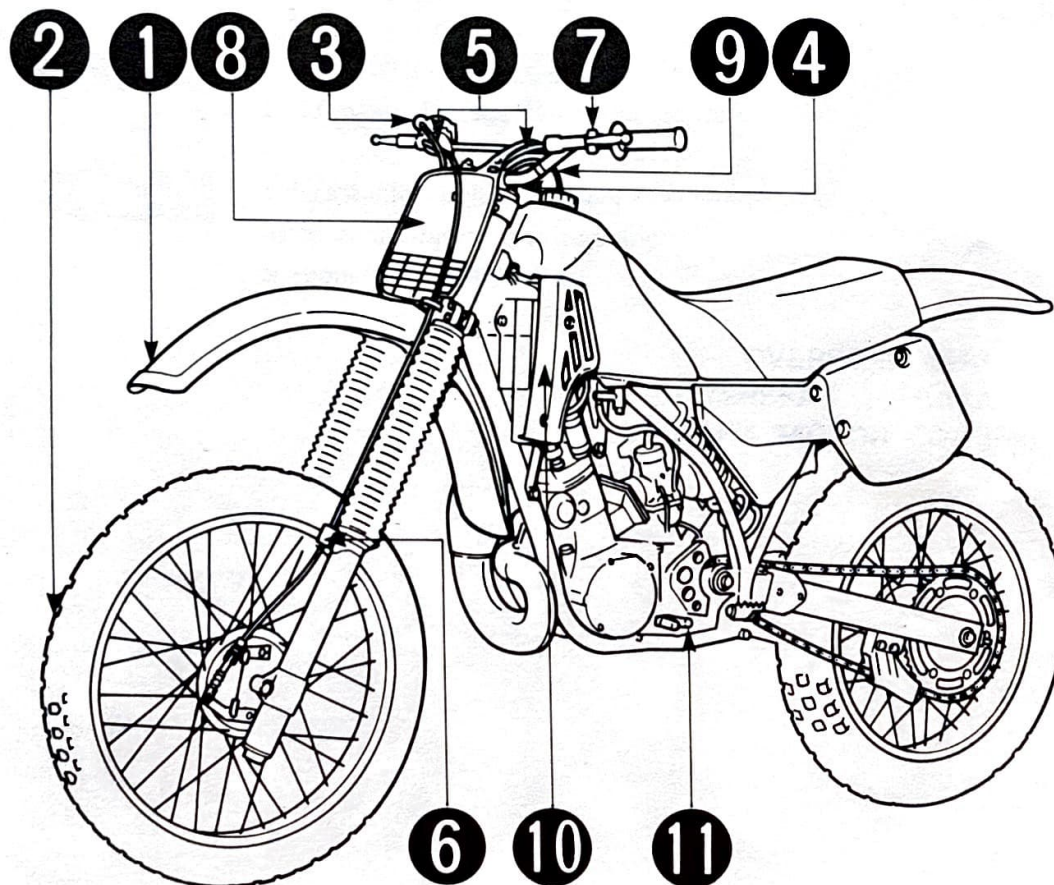


YAMAHA

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YZ250L

SUPPLEMENTARY ASSEMBLY MANUAL



FOREWORD

This Supplementary assembly manual has been prepared to introduce the setup procedures and predelivery service for the YZ250L.

For complete information, it is necessary to use the YZ/IT series Basic assembly manual (LIT-11666-03-31) together with this Supplementary assembly manual.

NOTICE

The service specifications given in this Supplementary assembly manual are based on the model as manufactured. Modifications and significant changes in specifications and/or procedures will be forwarded to Authorized Yamaha Dealers. The procedures below are described in the order that the procedures are carried out correctly and completely. Failure to do so can result in poor performance and possible harm to the machine and/or rider.

CONCERNING CRATE DAMAGE: _____

Follow the instructions in the Dealer warranty handbook, Procedure section.

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

NOTE:

A NOTE provides key information to make procedure easier or clearer.

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CAUTION:

A CAUTION indicates special procedures that must be followed to avoid damage to the machine.

WARNING:

A WARNING indicates special procedures that must be followed to avoid injury to a machine operator or person inspecting or repairing the machine.

**OVERSEAS SERVICE
OVERSEAS OPERATIONS
YAMAHA MOTOR CO., LTD.**

YZ250L
SUPPLEMENTARY ASSEMBLY MANUAL
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GLOSSARY

(Symbols most commonly used)

- C: The "C" marked parts are contained in the small carton box.
- S: The "S" marked parts are contained in the styrofoam tray (Upper or Lower).
- V: The "V" marked parts are contained in the vinyl bag.
- *: The asterisked (*) parts are temporarily fitted on the machine.

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SETUP PROCEDURES

NOTE: _____

Please read the following chapters in the Basic assembly manual before proceeding to the setup.

CHAPTER 1: INTRODUCTION

CHAPTER 2: SETUP AND PREDELIVERY CHECK

CHAPTER 3: TOOLS AND TORQUE SPECIFICATIONS

CHAPTER 4: CRATES

CHAPTER 5: INSTALLATION PROCEDURES

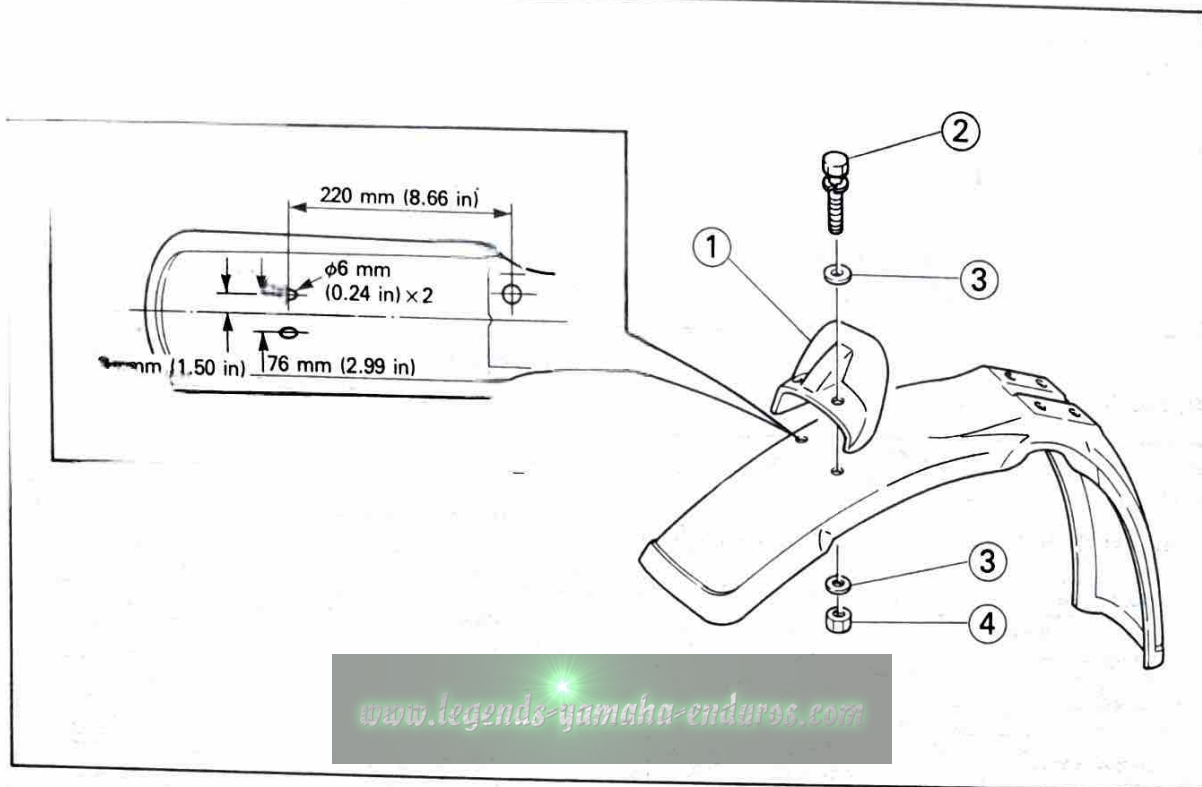
Parts list

No.	Part name	Q'ty	Locating mark	Remarks
1. Front fender F.F-A				
1	Front fender	1	S	
2	Hexagon bolt with spring washer	4	V	d = 6 mm (0.24 in), ℓ = 20 mm (0.78 in)
3	Plain washer	4	V	d = 6 mm (0.24 in), D = 20 mm (0.78 in)
4	Special washer	4	V	d = 6 mm (0.24 in), D = 18 mm (0.70 in)
2. Front wheel F.W-E				
1	Front wheel	1	S	
2	Front wheel axle	1	*	d = 15 mm (0.59 in), ℓ = 187 mm (7.29 in)
3	Wheel axle collar	1	V	d = 15 mm (0.59 in)
4	Brake shoe plate assembly	1	S	
5	Hexagon bolt	2	*	d = 8 mm (0.32 in), ℓ = 30 mm (1.18 in)
6	Spring washer	2	*	d = 8 mm (0.32 in)
3. Throttle grip T.G-B				
1	Throttle grip	1	*	
2	Panhead screw	2	*	d = 5 mm (0.20 in), ℓ = 15 mm (0.59 in)
4. Handlebar H.B-B				
1	Handlebar	1	S	
2	Flange bolt	4	V	d = 8 mm (0.32 in), ℓ = 35 mm (1.37 in)
3	Upper handlebar holder	2	V	
5. Brake and clutch cable B.C-A				

Parts list

No.	Part name	Q'ty	Locating mark	Remarks
6. Cable holder C.H-F				
1	Cable holder	2	*	
2	Plain washer	2	*	d = 7 mm (0.27 in), D = 11 mm (0.43 in)
3	Hexagon socket head bolt	2	*	d = 6 mm (0.24 in), ℓ = 15 mm (0.59 in)
7. Engine stop switch E.S-C				
1	Engine stop switch	1	*	
2	Panhead screw	1	V	d = 3 mm (0.12 in), ℓ = 14 mm (0.55 in)
3	Spring washer	1	V	d = 3 mm (0.12 in)
4	Engine stop switch holder	2	V	
5	Handlebar band	2	S	Plastic
8. Number plate N.P-G				
1	Number plate	1	S	
2	Panhead screw	1	V	d = 6 mm (0.24 in), ℓ = 12 mm (0.47 in)
3	Plain washer	1	V	d = 6 mm (0.24 in), D = 20 mm (0.78 in)
9. Fuel tank breather pipe F.B-F				
1	Fuel tank breather pipe	1	S	Rubber
10. Side stand S.S-B				
1	Side stand	1	S	
2	Blind plug	1	V	Rubber
11. Side cover S.C-G				
1	Special nut	6	V	d = 5 mm (0.20 in)
2	Side cover 1 (Right and Left)	2	S	
3	Panhead screw with spring washer and plain washer	2	V	d = 5 mm (0.20 in), ℓ = 16 mm (0.62 in)
4	Side cover 2 (Right and Left)	2	S	
5	Panhead screw with spring washer and plain washer	4	V	d = 5 mm (0.20 in), ℓ = 16 mm (0.62 in)

Fender plate
can be used
in the rain.



Parts list

No.	Part name	Q'ty	Locating mark	Remarks
1	Fender plate	1	V	
2	Hexagon bolt with spring washer	2	V	d = 6 mm (0.24 in), l = 20 mm (0.78 in)
3	Plain washer	4	V	d = 6 mm (0.24 in), D = 15 mm (0.59 in)
4	Self locknut	2	V	d = 6 mm (0.24 in)

Setup points

A: Drill two 6 mm (0.24 in) holes in front fender, as shown.

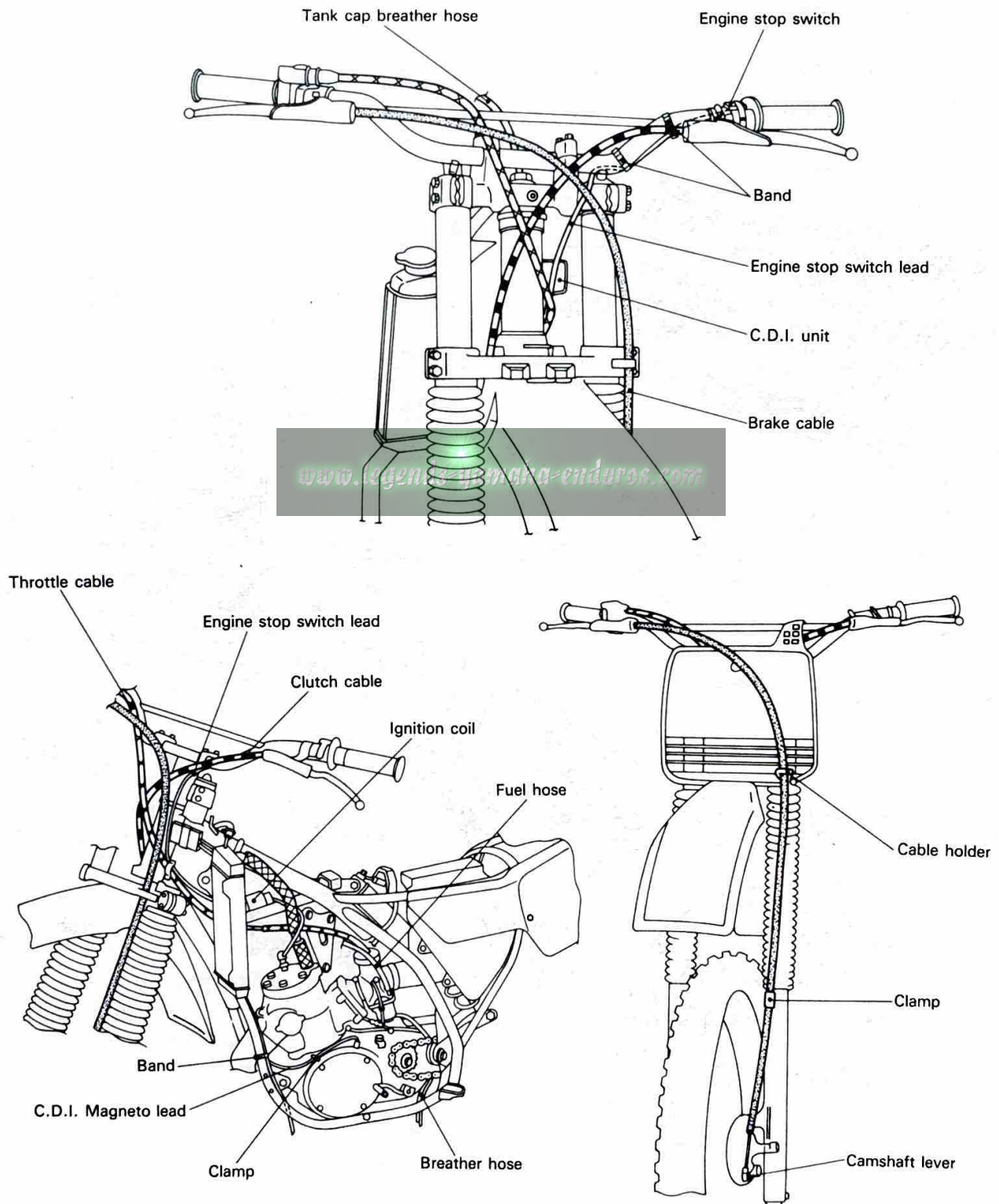
CAUTION:

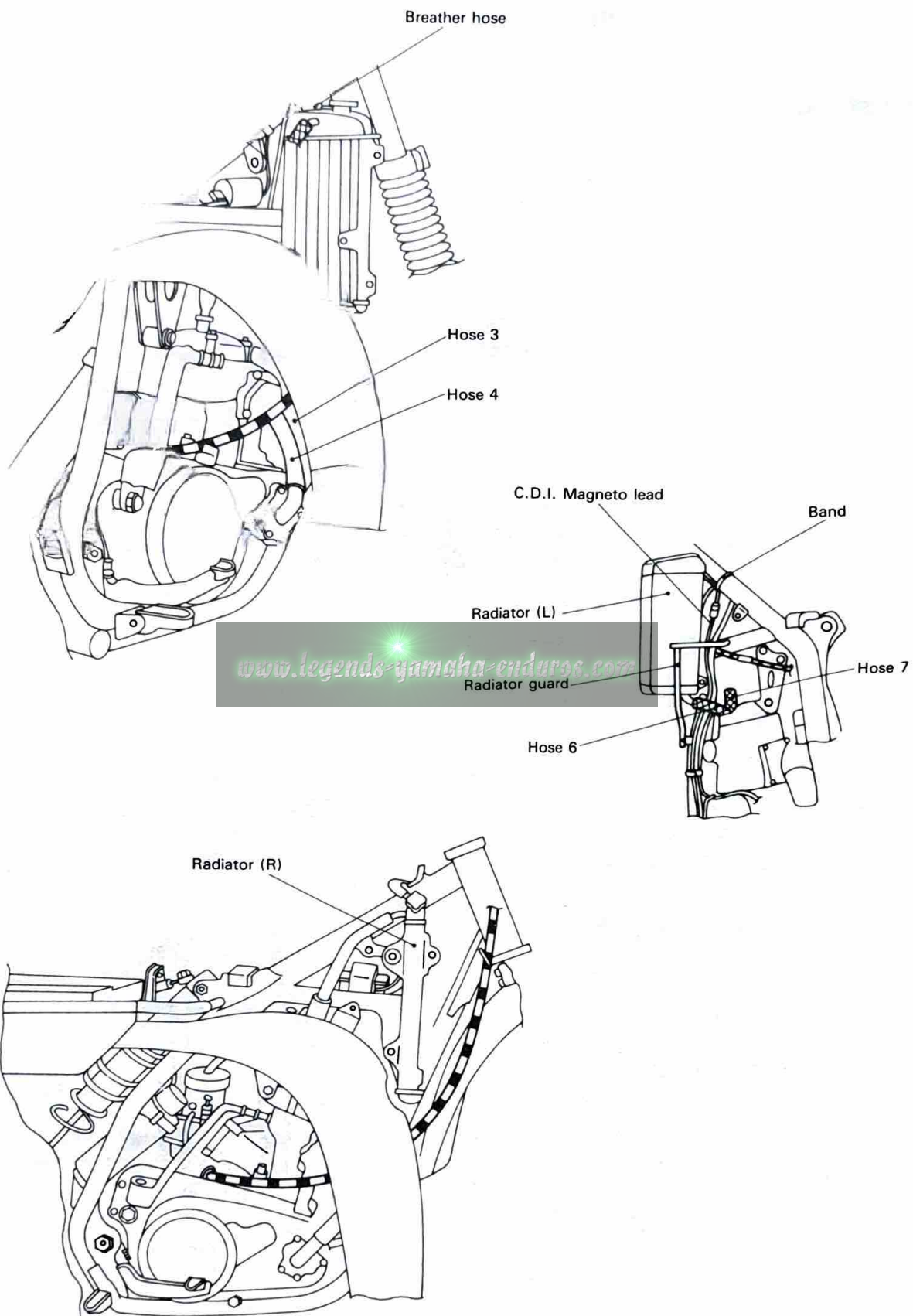
While drilling holes, hold the front fender steady.

CABLE ROUTING

CAUTION:

Proper cable and lead routing is essential to insure safe vehicle operation.





ADJUSTMENTS AND PREDELIVERY SERVICE

NOTE: _____

Please read the following chapter in the Basic assembly manual before proceeding to the adjustments and predelivery service.

CHAPTER 6: APPENDICES

1. Front brake adjustment

F.B-A

Free play: 5 ~ 8 mm (0.20 ~ 0.32 in)

2. Rear brake adjustment

R.B-A

Free play: 20 ~ 30 mm (0.8 ~ 1.2 in)

3. Rear brake pedal position
adjustment

R.P-A

4. Clutch adjustment

C.A-B

Free play: 2 ~ 3 mm (0.08 ~ 0.12 in)

5. Throttle cable adjustment

T.C-A

Free play: 3 ~ 5 mm (0.12 ~ 0.20 in)

6. Fuel draining

F.D-A

7. Transmission oil level
check

T.L-A

Recommended oil:

Yamalube 4-cycle oil or SAE 10W30
type SE motor oil or GL gear oil

Oil capacity

Periodic oil change:

0.85 L (0.75 Imp qt, 0.90 US qt)

Total amount:

0.9 L (0.79 Imp qt, 0.95 US qt)

8. Drive chain tension check

D.C-A

Chain deflection:

20 ~ 30 mm (0.8 ~ 1.2 in)

9. Troubleshooting

T.S-A

10. Coolant level check

C.L-A

Recommended coolant:

High quality ethylene glycol antifreeze
containing corrosion inhibitors for
aluminum engine

Coolant capacity:

1.0 L (0.88 Imp qt, 1.06 US qt)

Coolant and water mixed ratio:

1 : 1 (50% water, 50% coolant)

APPENDICES

SERVICE DATA

Idling engine speed:	As desired	
Spark plug: Type Gap	N-86 (CHAMPION) 0.5 ~ 0.6 mm (0.020 ~ 0.024 in)	
Fuel: Recommended fuel Fuel tank capacity	Premium fuel with an octane rating of at least 90. (Mixing ratio, 24 : 1) 8.5 L (1.9 Imp gal, 2.2 US gal)	
Engine oil: Recommended oil	Yamalube Racing 2-cycle oil (See Owner's service manual)	
Tire pressure (Cold tire pressure):	Front 98 kPa (1.0 kg/cm², 14 psi)	Rear 98 kPa (1.0 kg/cm², 14 psi)

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TORQUE SPECIFICATION CHART

Parts to be tightened	Bolt/nut size	Tightening torque		
		Nm	m · kg	ft · lb
Engine:				
Spark plug	M14 × 1.25	25	2.5	18.0
Engine oil drain bolt	M12 × 1.5	20	2.0	14.0
Change pedal	M 6 × 1.0	10	1.0	7.2
Chassis:				
Front fender (F.F-A #1)	M 6 × 1.0	5	0.5	3.6
Front wheel axle (F.W-E #1)	M14 × 1.5	60	6.0	43.0
Front wheel axle holder (F.W-E #2)	M 8 × 1.25	20	2.0	14.0
Handlebar holder (H.B-B #1)	M 8 × 1.25	23	2.3	17.0
Handle crown and inner tube	M 8 × 1.25	23	2.3	17.0
Handle crown and steering shaft	M22 × 1.0	130	13.0	94.0
Steering shaft and ring nut	M25 × 1.0	10	1.0	7.2
Engine mounting				
Engine stay (Front, upper) and frame	M 8 × 1.25	30	3.0	22.0
Engine stay (Front, upper) and engine	M 8 × 1.25	30	3.0	22.0
Lower	M 8 × 1.25	30	3.0	22.0
Engine stay (Rear, upper) and frame	M 8 × 1.25	30	3.0	22.0
Engine stay (Rear, upper) and engine	M10 × 1.25	65	6.5	47.0
Rear wheel axle	M18 × 1.5	100	10.0	72.0
Sprocket wheel and hub	M 8 × 1.25	30	3.0	22.0
Rear shock absorber and frame	M10 × 1.25	60	6.0	43.0
Pivot shaft	M16 × 1.5	85	8.5	61.0
Camshaft lever and camshaft				
Front brake	M 6 × 1.0	10	1.0	7.2
Rear brake	M 6 × 1.0	10	1.0	7.2
Relay arm-Swingarm	M12 × 1.25	60	6.0	43.0
-Rear shock	M10 × 1.25	45	4.5	32.0
-Connecting rod	M10 × 1.25	45	4.5	32.0
Frame-Connecting rod	M10 × 1.25	60	6.0	43.0

OWNER'S TOOL KIT

No.	Part name	Q'ty
1	Owner's tool bag	1
2	Spark plug wrench	1
3	Hexagon wrench	1
4	Spork nipple wrench	1
5	Special spanner	1
6	Air gauge	1
7	Rotor puller	1
8	Dowel pin	1

STANDARD EQUIPMENT

No.	Part name	Locating mark	Q'ty
1	Main jet (#300)	V	1
2	Main jet (#320)	V	1

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