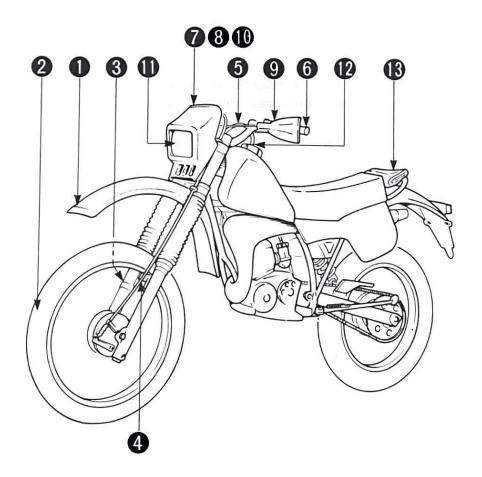


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IT490K/IT250K SUPPLEMENTARY ASSEMBLY MANUAL



26A-28107-10

FOREWORD

This Supplementary assembly manual has been prepared to introduce the setup procedures and predelivery service for the IT490K/IT250K.

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 procedures easier or clearer.

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:

SERVICE DEPT. Www.legends-yamaha-enduros.com/INTERNATIONAL DIVISION YAMAHA MOTOR CO., LTD. IT490K/IT250K SUPPLEMENTARY ASSEMBLY MANUAL 1982 by Yamaha Motor Corporation, U.S.A. 1st edition, OCTOBER 1982 All rights reserved. Any reprinting or unauthorized use without the written permission of Yamaha Motor Corporation, U.S.A., is expressly prohibited. Printed in U.S.A. P/N LIT-11666-03-72

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

					2	F
No.	Part name	Q'ty	Locating mark	Remarks	3	H h
1	I. Front fende	r		5 F.F-A		7.
1	Front fender	1	S		-	_
2	Hexagon bolt with spring washer	4	v	d = 6 mm (0.24 in), l = 20 mm (0.79 in)	8	8.
3	Plain washer	4	v	d = 6 mm (0.24 in)	1	E
4	Special washer	4	v	d = 6 mm (0.24 in)	2	P
2	2. Front whee			5 F.W-H	3	E
1	Front wheel	1	S			a
2	Front wheel axle	Ĩ	*	d = 15 mm (0.59 in)	5	H
3	Speedometer cable housing	1	s		2	9.
4	Brake shoe plate assembly	1	s	www.legends=yama	haie	E (
5	Plain washer	1	*	d = 15 mm (0.59 in)	2	P
6	Unut	1	*	d = 14 mm (0.55 in)		V
7	Hexagon bolt	1	*	d = 8 mm (0.32 in), t = 30 mm (1.18 in)	3	F
8	Spring washer	1	*	d = 8 mm (0.32 in)		-
9	Speedometer cable	1	S		10).
-	. Cable holde		light)	5 C.H-B	1	N
		a (r	ugiit/	5 C.II-B		F
1	Cable holder	1	С		2	s p
2	Panhead screw	1	v	d = 5 mm (0.2 in), l = 18 mm (0.71 in)	11	1
3	Plain washer	1	v	d = 5 mm (0.2 in)		
4	Hexagon nut	1	V	d = 5 mm (0.2 in)	1	TF

Parts list

No.	Part name	Q'ty	Locating mark	Remarks
4	. Cable holde	er (L	eft)	5 C.H-F
1	Cable holder (Left and right)	2	*	
2	Hexagon socket head bolt	2	*	
3	Plain washer	2	*	d = 6 mm (0.24 in)
5	5. Throttle gri	р		5 T.G-B
1	Throttle grip	1	*	
2	Panhead screw	2	*	d = 5 mm (0.2 in), l = 16 mm (0.63 in)
6	. Handlebar			5 H.B-B
1	Handlebar	1	S	1 S S
2	Flange bolt	4	v	d = 8 mm (0.32 in), L = 35 mm (1.38 in)
3	Handlebar upper holder	2	V	
7	. Brake and c	luto	h cabl	e 5 B.C-A
8	. Engine stop	sw	itch	5 E.S-C
1	Engine stop switch	1	*	
2	Panhead screw	1	v	d = 3 mm (0.12 in)
3	Plain washer	1	V	d = 3 mm (0.12 in)
4	Engine stop swtich holder (Upper and Lower)	2	v	
5	Handlebar band	2	С	Plastic
9	. Bush guard			5 B.G-A
a ₁ e	Bush guard (Left and Right)	2	с	
2	Panhead screw with plain washer	2	v	d = 6 mm (0.24 in), l = 16 mm (0.63 in)
3	Plain washer	2	V	d = 6 mm (0.24 in)
4	Hexagon nut	2	V	d = 6 mm (0.24 in)
10	. Meter asser	nbl	У	5 M.A-A
1	Meter assembly	1	S	
2	Hexagon bolt with spring washer and plain washer	2	v	d = 6 mm (0.24 in), L = 12 mm (0.47 in)
11	. Headlight			5 H.L-B
1	Headlight assembly	1	S	

Parts list

No.	Part name	Q'ty	Locating mark	Remarks
12	2. Fuel tank	breat	her pip	5 F.B-F
1	Fuel tank breather pipe	1	с	Rubber
13	3. Took kit			5 T.K-D
1	Carrier box	1	S	
2	Panhead screw	4	v	d = 6 mm (0.24 in), l = 20 mm (0.79 in)
3	Plain washer	4	V	d = 6 mm (0.24 in)
4	Carrier box bracket	1	s	Y.,
5	Plain washer	4	v	d = 6 mm (0.24 in)
6	Hexagon nut	4	v	d = 6 mm (0.24 in)
7	Tool kit	1	С	

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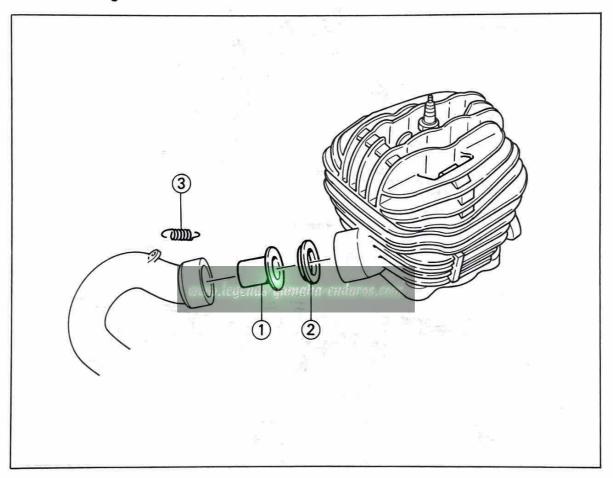
OFF-ROAD RIDING KIT

An off-road riding kit is provided with each vehicle to comply with noise level and spark arrester laws and regulations.

IMPORTANT NOTICE: _____

Always check the local regulations governing the areas where you will ride. An 86 dB(A) silencer spark arrestor kit is provided with this vehicle for use where required. Installation of kit will reduce performance substantially. This vehicle may not be legally operated public streets, roads or high-ways. Such use is prohibited by law.

OFF-road riding kit



Parts list

No.	Part name	Q'ty	Locating mark	Remarks
1	Choke pipe	1	C	
2	Exhaust pipe gasket	1	*	
3	Coil spring	3	*	

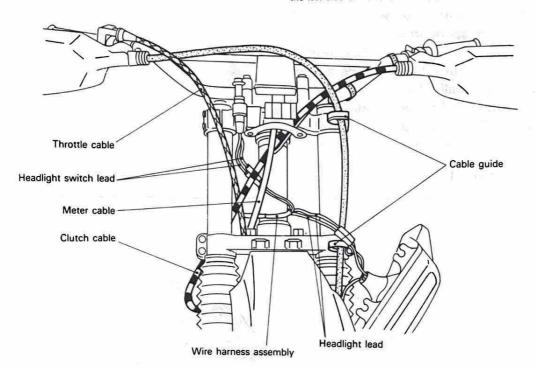
CABLE ROUTING

WARNING:

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

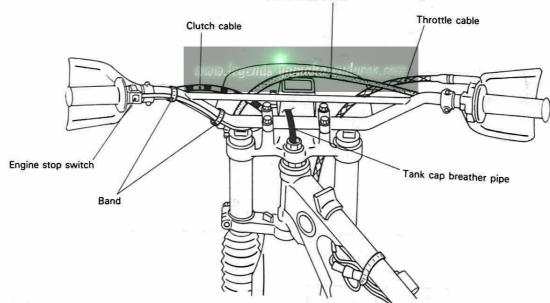
Front brake wire

Right lever \rightarrow Behind the throttle wire \rightarrow Wire guides (on the left side of handle crown \rightarrow on the left side of under-bracket) \rightarrow Through the hose clamp and tighten the clamp screw (on the left side of front fork boss) \rightarrow cam shaft lever.



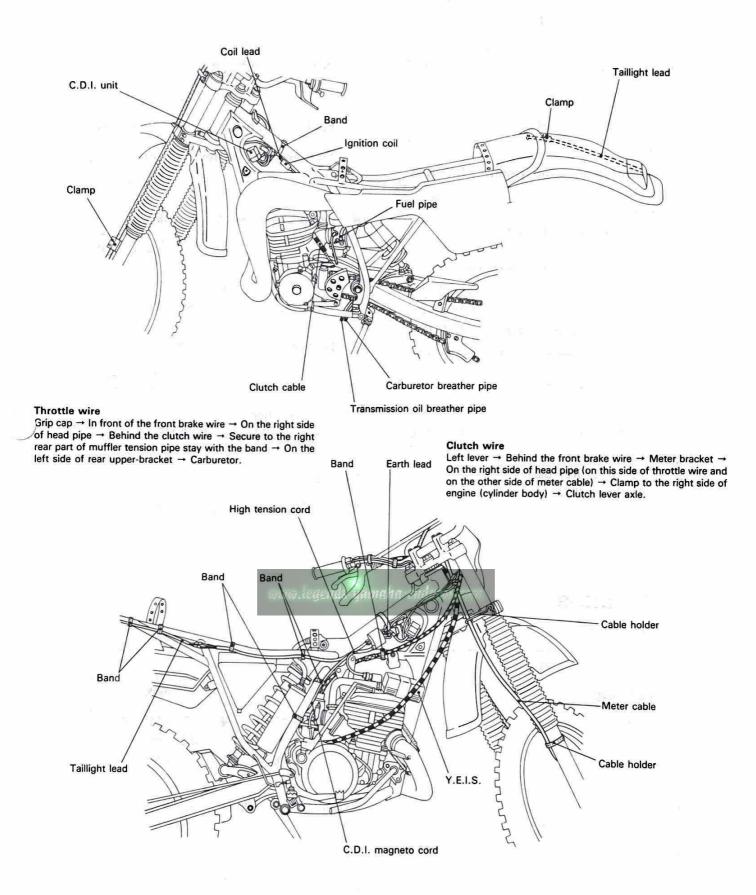
Use care so that the engine stop switch lead is not crushed by the holder.

Front brake cable



Engine stop switch lead

Secure to the handlebar with bands (at two places) \rightarrow Route over the handle crown \rightarrow Through the meter bracket \rightarrow On the right side of head pipe (behind the clutch wire and meter cables) \rightarrow Connect to the lead (coming from the CDI unit) on the right side of main pipe and secure to the main pipe with the band.



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 6 F.B-A

Front brake lever free play: $5 \sim 8 \text{ mm} (0.2 \sim 0.3 \text{ in})$

- 2. Rear brake pedal position adjustment
- 3. Rear brake adjustment

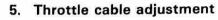


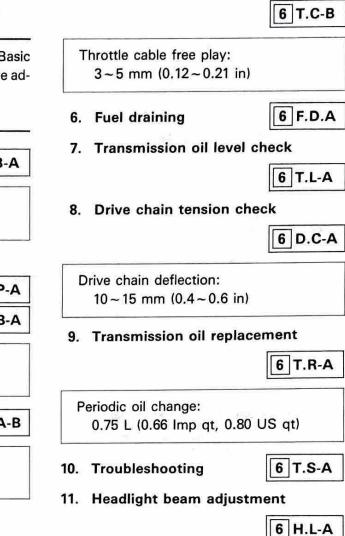
Rear brake pedal free play: $20 \sim 30 \text{ mm} (0.8 \sim 1.2 \text{ in})$

4. Clutch adjustment

6 C.A-B

Clutch lever free play: 2~3 mm (0.08~0.12 in)





APPENDICES

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SERVICE DATA

Idling engine speed:	As desired		
Spark plug:	ІТ490К	IT250K	
Туре Gap	N-3C (CHAMPION) 0.7~0.8 mm (0.028~0.031 in)	N-86 (CHAMPION) 0.5~0.6 mm (0.02~0.024 in)	
Fuel: Recommended fuel Fuel tank capacity	Premium gasoline (Mixed gas 24 : 1) 13.5 L (3.6 US gal, 3.0 Imp gal)		
Engine oil: Recommended oil		Yamalube Racing 2-cycle oil (See Owner's manual)	

Transmission oil:	
Recommended oil	Yamalube 4-cycle oil or
	SAE 10W30 type SE motor oil
Oil quantity (Total)	0.80 L (0.85 US qt, 0.70 Imp qt)
Tire pressure (Cold tire pressure):	
Front	98 kPa (1.0 kg/cm ² , 14 psi)
Rear	98 kPa (1.0 kg/cm ² , 14 psi)

TORQUE SPECIFICATION CHART

Parts to be tightened		Bolt/Nut size	Tigh	tening to	rque
		Bolt/ Nut size	Nm	m∙kg	ft · lb
Engine:					
Spark plug		M14×1.25	25	2.5	18
Drain plug		M12×1.5	20	2.0	14
Chassis:				1000	2.0
Front fender	(F. F-A#1)				
Front wheel axle and nut	(F.W-H#1)	M14×1.5	60	6.0	43
Handle crown and inner tube		M 8×1.25	23	2.3	17
Handle crown and steering shaft		M22×1.0	130	13.0	94
Handle crown and upper handlebar holder	(H.B-A#1)	M 8×1.25	23	2.3	17
Front wheel axle pinch bolt	(F.W-H #2)	M 8×1.25	15	1.5	11
Meter assembly	(M.A-A #1)	M 6×1.0	5	0.5	3.6
Carrier box	(T.K-D # 1)	M 6×1.0	5	0.5	3.6
Steering shaft and ring nut		M25×1.0	10	1.0	7.2
Engine mount and frame		M 8×1.25	30	3.0	22
Engine mount and engine:			2012	000000	
Front		M 8×1.25	30	3.0	22
Rear		M10×1.25	65	6.5	47
Rear wheel axle and nut		M18×1.5	100	10.0	72
Sprocket wheel and clutch hub		M 8×1.25	30	3.0	22
Rear shock absorber and frame		M10×1.25	60	6.0	43
Pivot shaft and nut		M16×1.5	85	8.5	61
Camshaft lever and camshaft		M 6×1.0	10	1.0	7.2
Relay arm and swingarm		M12 × 1.25	60	6.0	43
Relay arm and rear shock absorber a legen	ds-yamaha-endur	M10 × 1.25	45	4.5	32
Relay arm and connecting rod		M10 × 1.25	45	4.5	32
Frame and connecting rod		M10×1.25	60	6.0	43
Footrest and frame		M12×1.25	60	6.0	43
		M10×1.25	60	6.0	43

OWNER'S TOOL KIT

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No.	Part name	Q'ty
1	Owner's tool bag	1
2	Spanner (10 - 12)	1
3	Spanner (14 – 17)	1
4	Spoke nipple wrench	1
5	Screwdriver grip	1
6	Screwdriver cap	1
7	Screwdriver bit (Phillips head)	1

No.	Part name	Q'ty
8	Screwdriver bit (Phillips-head and Slotted-head)	1
9	Pliers	1
10	Hexagon wrench (8)	1
11	Special spanner (22-24)	1
12	Special spanner	1
13	Spark plug wrench	1

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