



YAMAHA

www.legends-yamaha-enduros.com

YZ100J

SUPPLEMENTARY ASSEMBLY MANUAL



FOREWORD

This Supplementary assembly manual has been prepared to introduce the setup procedures and predelivery service for the YZ100J.

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.

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.
INTERNATIONAL DIVISION
YAMAHA MOTOR CO., LTD.

YZ100J SUPPLEMENTARY ASSEMBLY MANUAL

© 1981 by Yamaha Motor Corporation, U.S.A.

1st edition, November 1981

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.

LIT-11666-03-17

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 asterisk (*) parts are temporarily fitted on the machine.

www.legends-yamaha-enduros.com

SETUP PROCEDURES

NOTE:

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

CHAPTER 1: INTRODUCTION

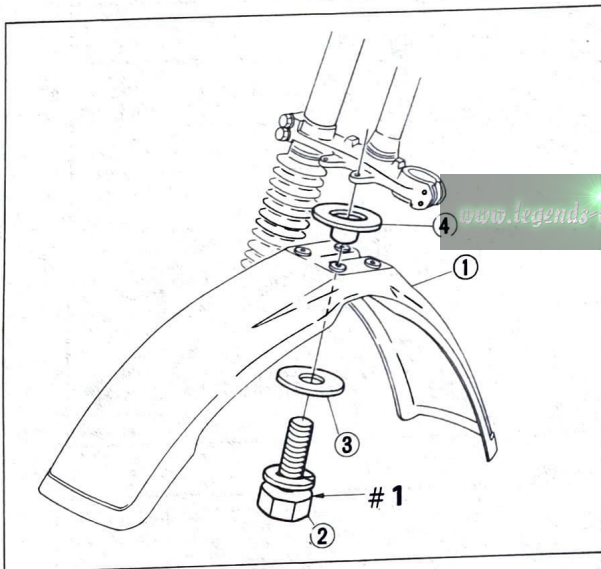
CHAPTER 2: SETUP AND PREDELIVERY CHECK

CHAPTER 3: TOOLS AND TORQUE SPECIFICATIONS

CHAPTER 4: CRATES

CHAPTER 5: INSTALLATION PROCEDURES

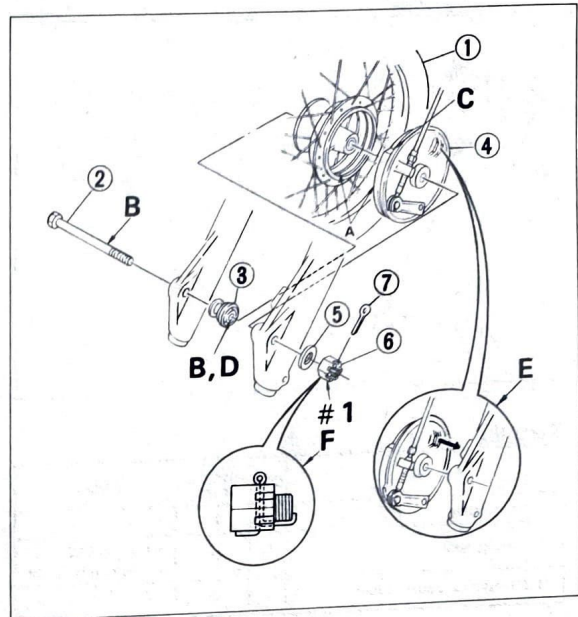
1 Front fender [F.F-A]



Parts list

No.	Part name	Q'ty	Locating mark	Remarks
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)
3	Plain washer	4	V	d = 6 mm (0.24 in)
4	Special washer	4	V	d = 6 mm (0.24 in)

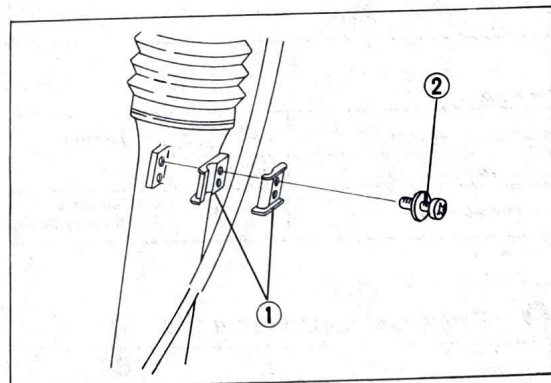
2 Front wheel [F.W-A]



Parts list

No.	Part name	Q'ty	Locating mark	Remarks
1	Front wheel	1	S	
2	Front wheel axle	1	*	d = 12 mm (0.47 in)
3	Wheel axle collar	1	V	d = 12 mm (0.47 in)
4	Brake shoe plate assembly	1	S	
5	Plain washer	1	*	d = 12 mm (0.47 in) D = 22 mm (0.86 in)
6	Castle nut	1	*	d = 12 mm (0.47 in)
7	Cotter pin	1	V	

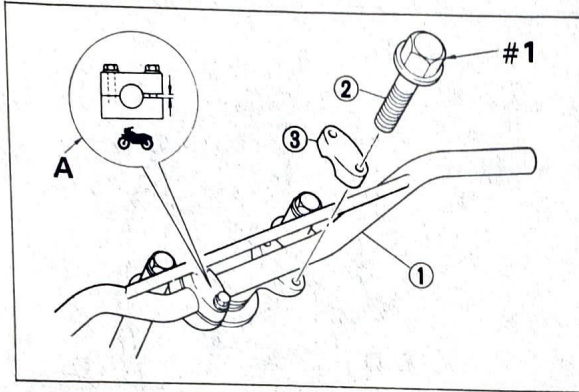
3 Cable holder (Left) [C.H.-E]



Parts list

No.	Part name	Q'ty	Locating mark	Remarks
1	Cable holder (Left and Right)	2	*	
2	Panhead screw with spring spring washer	2	*	d = 6 mm (0.24 in), ℓ = 15 mm (0.59 in)

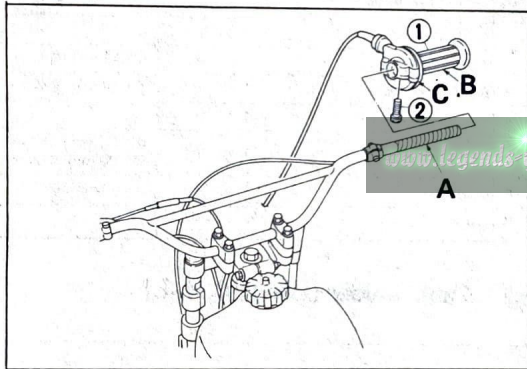
4 Handlebar [H.B-A]



Parts list

No.	Part name	Q'ty	Locating mark	Remarks
1	Handlebar	1	S	
2	Flange bolt	4	V	d = 8 mm (0.32 in), ℓ = 35 mm (1.38 in)
3	Handlebar upper holder	2	V	

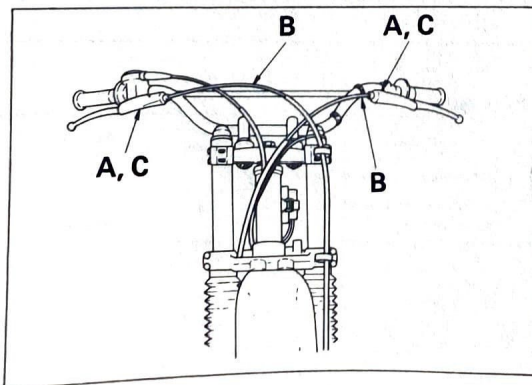
5 Throttle grip [T.G-B]



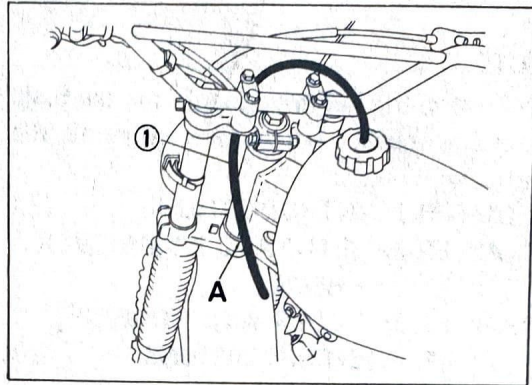
Parts list

No.	Part name	Q'ty	Locating mark	Remarks
1	Throttle grip	1	*	
2	Panhead screw	2	*	d = 5 mm (0.2 in), ℓ = 15 mm (0.59 in)

6 Brake and clutch cable [B.C-A]



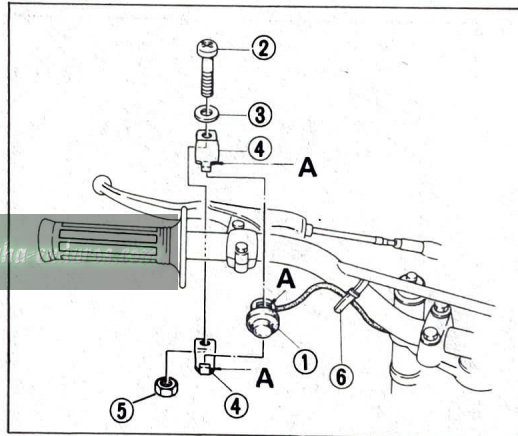
7 Fuel tank breather pipe [F.B-A]



Parts list

No.	Part name	Q'ty	Locating mark	Remarks
1	Fuel tank breather pipe	1	S	Rubber

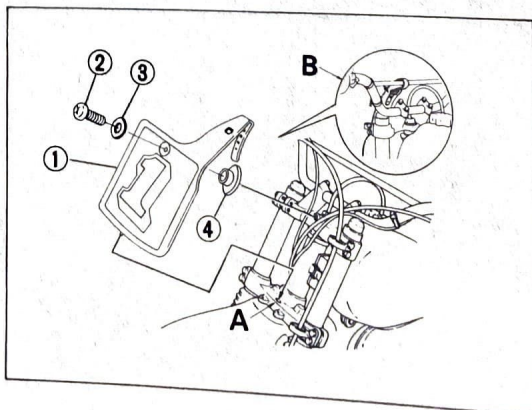
8 Engine stop switch [E.S-B]



Parts list

No.	Part name	Q'ty	Locating mark	Remarks
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 switch holder (Upper and Lower)	2	V	
5	Hexagon nut	1	V	d = 3 mm (0.12 in)
6	Handlebar band	2	V	Plastic

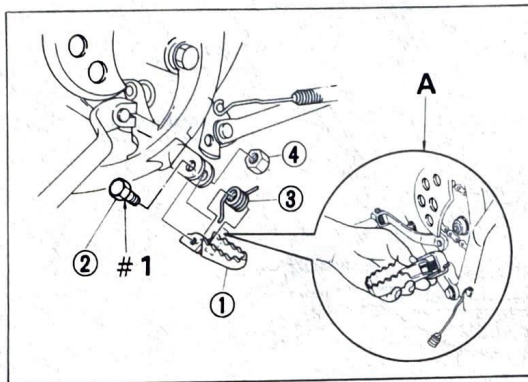
9 Number plate [N.P-E]



Parts list

No.	Part name	Q'ty	Locating mark	Remarks
1	Number plate	1	S	
2	Panhead screw	1	V	d = 6 mm (0.24 in), ℓ = 25 mm (0.98 in)
3	Plain washer	1	V	d = 6 mm (0.24 in)
4	Collar	1	V	

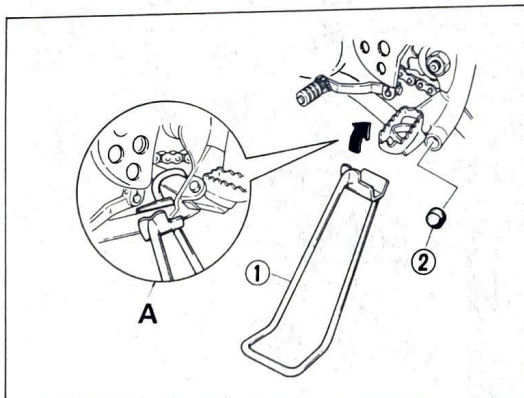
10 Footrest (Left) [F.R-C]



Parts list

No.	Part name	Q'ty	Locating mark	Remarks
1	Footrest (Left)	1	V	
2	Hexagon bolt	1	V	d = 8 mm (0.32 in), ℓ = 28 mm (1.1 in)
3	Return spring	1	V	
4	Self locking nut	1	V	d = 8 mm (0.32 in)

11 Side stand [S.S-B]



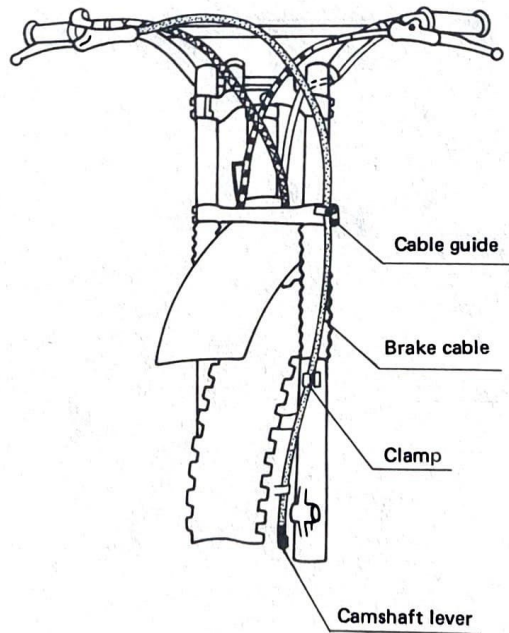
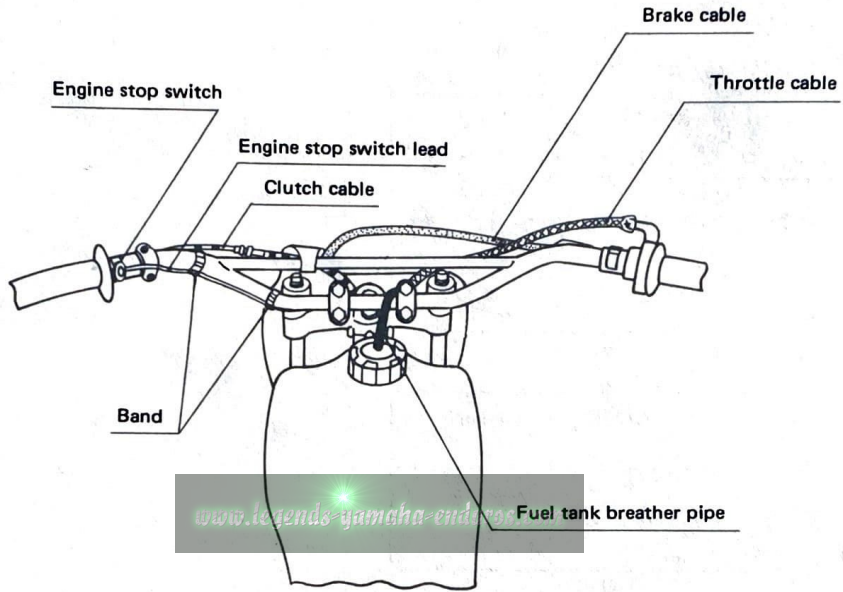
Parts list

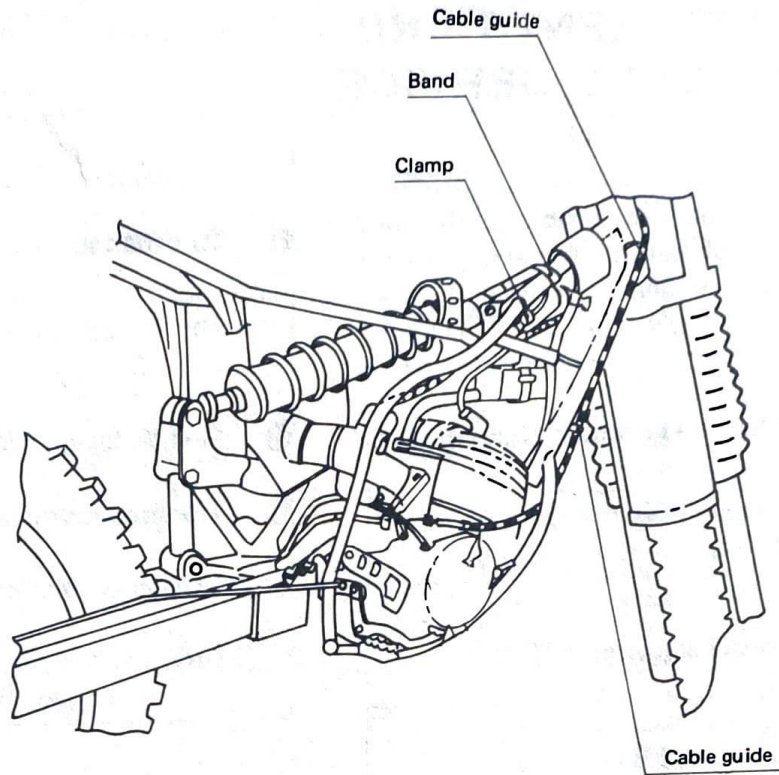
No.	Part name	Q'ty	Locating mark	Remarks
1	Side stand	1	S	
2	Blind plug	1	V	Rubber

CABLE ROUTING

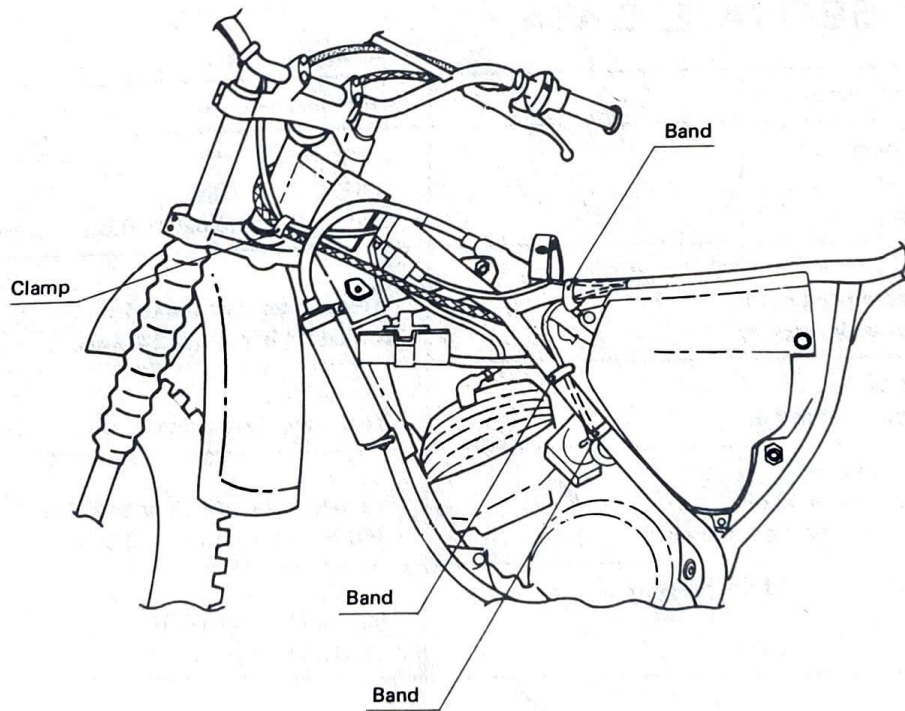
WARNING:

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





www.legends-yamaha-enduros.com



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]

Front brake lever free play:
5 ~ 8 mm (0.2 ~ 0.3 in)

② Rear brake adjustment [R.B-A]

Rear brake pedal free play:
20 mm (0.8 in)

③ Rear brake pedal position adjustment [R.P-A]

④ Clutch adjustment [C.A-A]

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

⑤ Throttle cable adjustment [T.C-A]

Throttle cable free play:
3 ~ 5 mm (0.12 ~ 0.21 in)

⑥ Fuel draining [F.D-A]

⑦ Transmission oil level check [T.L-A]

⑧ Drive chain tension check [D.C-A]

Drive chain deflection:
35 mm (1.47 in)

⑨ Troubleshooting [T.S-A]

www.legends-yamaha-enduros.com

SERVICE DATA

Idling engine speed:	As desired
Spark plug: Type Gap	N-84 (CHAMPION) 0.5 ~ 0.6 mm (0.020 ~ 0.024 in)
Fuel: Recommended fuel Fuel tank capacity	Premium gasoline (Mixed gas 24 : 1) 8.2 L (1.8 Imp gal, 2.2 US gal)
Engine oil: Recommended oil	Yamalube Racing 2-cycle oil (See Owner's manual)
Transmission oil: Recommended oil Oil quantity (Periodic oil change)	Yamalube 4-cycle oil or SAE 10W30 motor oil 550 ~ 650 cm ³ (0.58 ~ 0.69 US qt, 0.48 ~ 0.57 Imp qt)
Tire pressure (Cold tire pressure): Front Rear	98 kPa (1.0 kg/cm ² , 14 psi) 98 kPa (1.0 kg/cm ² , 14 psi)

TORQUE SPECIFICATION CHART

Parts to be tightened	Tightening torque		
	Nm	m·kg	ft·lb
Engine:			
Spark plug M14	20	2.0	14
Drain plug M12	20	2.0	14
Chassis:			
Front fender M6 (F.F-A #1)	5	0.5	3.6
Front wheel axle M12 (F.W-A #1)	73	7.3	53
Handlebar upper holder M8 (B.C-A #1)	23	2.3	17
Throttle grip M5 (T.G-B)	5	0.5	3.6
Footrest M8 (F.R-C #1)	15	1.5	11
Handle crown:			
Steering M14	53	5.3	38
Inner tube M8	23	2.3	16
Rear wheel axle M14	85	8.5	61
Pivot shaft M16	85	8.5	61
Rear shock absorber M10	31	3.1	22
Footrest bracket M10	63	6.3	45
M12	88	8.8	63
"L" shape arm and frame M16	85	8.5	61
Rear shock absorber and "L" shape arm M10	31	3.1	22
"L" shape arm and "I" shape arm M12	58	5.8	41

www.legend-yamaha-enduros.com

OWNER'S TOOL KIT

No.	Part name	Q'ty
1	Owner's tool bag	1
2	Special spanner (19-22)	1
3	Spark plug wrench (21)	1
4	Hexagon wrench (8)	1
5	Rotor puller	1
6	Special spanner (32)	1

www.legends-yamaha-enduros.com



YAMAHA MOTOR CO., LTD.

IWATA, JAPAN

PRINTED IN U.S.A.