

# YZ125J

## 1982 SERVICE DATA

|   |  |     |
|---|--|-----|
| <b>MODEL - IBM I.D. NUMBER</b>                        | YZ125J   | 5X4 |
| Initial Engine Number / Frame Number                  | 5X4-000101 / 5X4-000101  |     |
| Basic Color(s)  | Competition Yellow   |     |
| Fuel Type / Fuel Tank Capacity / Reserve Capacity     | Premium / 8.2 Lit. / $\emptyset$   |     |
| Dry Vehicle Weight                                    | 91 kg  |     |
| <b>ENGINE TYPE</b>                                    | 2-Stroke, Reed Valve, YPVS   |     |
| Bore/Stroke/Number Cylinders/Displacement (cc)        | 56mm / 50mm / 1 / 123cc  |     |
| Compression Ratio/Compression Pressure Min~Max        | 7.7 ~ 9.8:1 / $\emptyset$  |     |
| Piston Skirt Clearance New / Max                      | 0.070 ~ 0.075mm / 0.1mm  |     |
| Ring End Gap Top / 2nd / 3rd                          | 0.35 ~ 0.50mm / $\emptyset$ / $\emptyset$                                  |     |
| Valve Clearance (Cold) Intake / Exhaust               | $\emptyset$  |     |
| Oil Pressure Hot / rpm                                | $\emptyset$  |     |
| Oiling System   | Premix 24:1 Using Yamalube R*  |     |
| Capacity: Dry   | $\emptyset$  |     |
| Oil and Filter Change                                 | $\emptyset$  |     |
| Oil Change  | $\emptyset$  |     |
| Lubricant: Temp. Above 5°C (40°F)                     | Yamalube R*  |     |
| Temp. Below 15°C (60°F)                               | Yamalube R*  |     |
| Cooling System / Capacity                             | Liquid / 1.0 Lit.  |     |
| Coolant / Mixing Ratio                                | Ethyl Glycol-Water / 1:1   |     |
| <b>AUTOLUBE - Min Stroke / Color Code</b>             | $\emptyset$  |     |
| Minimum Output @ 200 Cycles                           | $\emptyset$  |     |
| Maximum Output @ 200 Cycles                           | $\emptyset$  |     |
| <b>CARBURETOR - Mfr. / Type / I.D. Number</b>         | Mikuni / VM34SS / 5X4-00   |     |
| Main Jet / Pilot Jet                                  | 260 / 65   |     |
| Needle Jet / Jet Needle-Clip Position                 | Q-0 / 6F21-3   |     |
| Slide Cutaway or Throttle Valve                       | 2.5  |     |
| Float Level / Fuel Level                              | 23.5 $\pm$ 1.0mm / 36.5 $\pm$ 1.0mm  |     |
| Idle rpm  | $\emptyset$  |     |
| Max CO <sup>e</sup> / Max HC <sup>e</sup> / Set CO    | $\emptyset$  |     |
| <b>SUSPENSION</b>                                     |  |     |
| Front Forks: Oil Type / Level / Qty                   | 10 Wt. Fork Oil* / 150mm With Forks Compressed / $\emptyset$               |     |
| Gas Pressure  | 0 kg/cm <sup>2</sup>   |     |
| Spring Length Std                                     | 658mm  |     |
| Monoshock: Oil Type / Qty                             | Not Rebuildable  |     |
| Gas Pressure  | 8 kg/cm <sup>2</sup>   |     |
| Minimum Brake Lining Thickness                        | Front: 2.0mm      Rear: 2.0mm  |     |
| Tire Size (Nominal Pressure)                          | F:3.00-21 (1.0 kg/cm <sup>2</sup> )    R:4.10-18 (1.0 kg/cm <sup>2</sup> ) |     |
| <b>TRANSMISSION - Oil Type/Qty Chg/Qty Reassemble</b> | SAE 10W30 SE / 800cc / 850cc   |     |
| Primary Drive Type / Teeth / Ratio                    | Helical Gear / 62-18 / 3.444   |     |
| Secondary Drive Type / Teeth / Chain                  | Chain / 46-12 / DK520DS-104L   |     |
| Clutch Friction Plate Thickness Std ~ Min             | 3.0 ~ 2.7mm  |     |
| Clutch Spring Length Std ~ Min                        | 36 ~ 35mm  |     |
| Middle Gear Case Capacity                             | $\emptyset$  |     |
| Final Gear Case Capacity                              | $\emptyset$  |     |
| Gear Case Lubricant: Temp. Above 5°C (40°F)           | $\emptyset$  |     |
| Temp. Below 15°C (60°F)                               | $\emptyset$  |     |
| All Weather Conditions                                | $\emptyset$  |     |

|  |                                   |
|--|-----------------------------------|
| <b>CHARGING SYSTEM</b>                           | Flywheel Magneto                  |
| Battery: Model / Specific Gravity / Charge Rate  | ∅                                 |
| Maximum Output                                   | ∅                                 |
| <b>TROUBLESHOOTING</b>                           |                                   |
| Field Coil Color Code / Ω                        | ∅                                 |
| Charge Coil Color Code / Ω                       | ∅                                 |
| <b>IGNITION SYSTEM</b>                           | Capacitor-Discharge Ignition      |
| Ignition Timing                                  | 1.88mm BTDC                       |
| Spark Plug Type                                  | Champion N-84                     |
| Spark Plug Gap / Torque / Cap Ω                  | 0.5 ~ 0.6mm / 2.5 m-kG / 0 Ω      |
| Point Gap / Condenser Capacitance                | ∅ / ∅                             |
| <b>TROUBLESHOOTING</b>                           |                                   |
| Ignition Coil Test Gap / Primary Ω / Secondary Ω | 6mm / 0.60 Ω ± 10% / 6.2K Ω ± 20% |
| Pulser Coil or Pickup Coil Color Code / Ω        | Red ~ Wht-Red / 270 Ω ± 10%       |
| Source Coil Color Code / Ω                       | Brn ~ Red / 1437 Ω ± 10%          |
| <b>LIGHTING SYSTEM</b>                           |                                   |
| Headlight / Taillight / Signal Rating            | ∅                                 |
| <b>TROUBLESHOOTING</b>                           |                                   |
| Lighting Coil Color Code / Ω                     | ∅                                 |
| <b>TORQUE VALUES</b>                             |                                   |
| Front Axle Nut                                   | 14 x 1.5: 5.0 m-kG                |
| Front Axle Holder Nut                            | 8 x 1.25: 1.0 m-kG                |
| Rear Axle Nut                                    | 16 x 1.5: 8.5 m-kG                |
| Rear Axle Pinch Bolt                             | ∅                                 |
| Clutch Nut                                       | 14 x 1.5: 8.0 m-kG                |
| Drain Plug                                       | 12 x 1.25: 2.0 m-kG               |
| Cylinder Head Cover                              | ∅                                 |
| Cylinder Head:                                   | Nut 8 x 1.25: 2.5 m-kG            |
|  | Stud 8 x 1.25: 1.3 m-kG           |
| Engine Mounting Bolts: Front, Upper              | 8 x 1.25: 2.8 m-kG                |
| Upper  | 8 x 1.25: 2.3 m-kG                |
| Lower  | 8 x 1.25: 2.8 m-kG                |
| Pivot Shaft                                      | 16 x 1.50: 8.5 m-kG               |

∅ = Does Not Apply To This Model  
 NA = Information Not Available

\* Available From Yamaha Parts Distributors Inc.  
 \* For Diagnostic Use Only

### SERVICE LITERATURE

| PUBLICATION                                 | PART NUMBER                        | REMARKS                                      |
|---|------------------------------------|--|
| Owner's / Service Manual<br>Assembly Manual | LIT-11626-03-16<br>LIT-11666-03-16 | Supp. to YZ/IT Basic Assembly Manual (03-31) |