

TY 80B YAMAHA MINI TRIAL



www.legends-yamaha-enduros.com

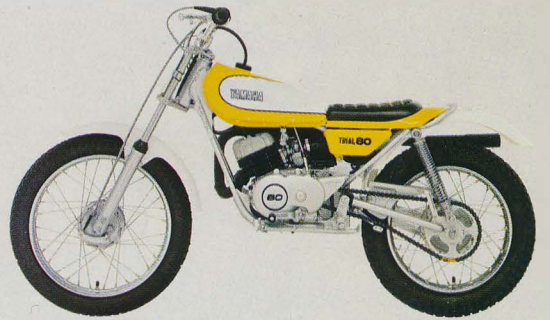
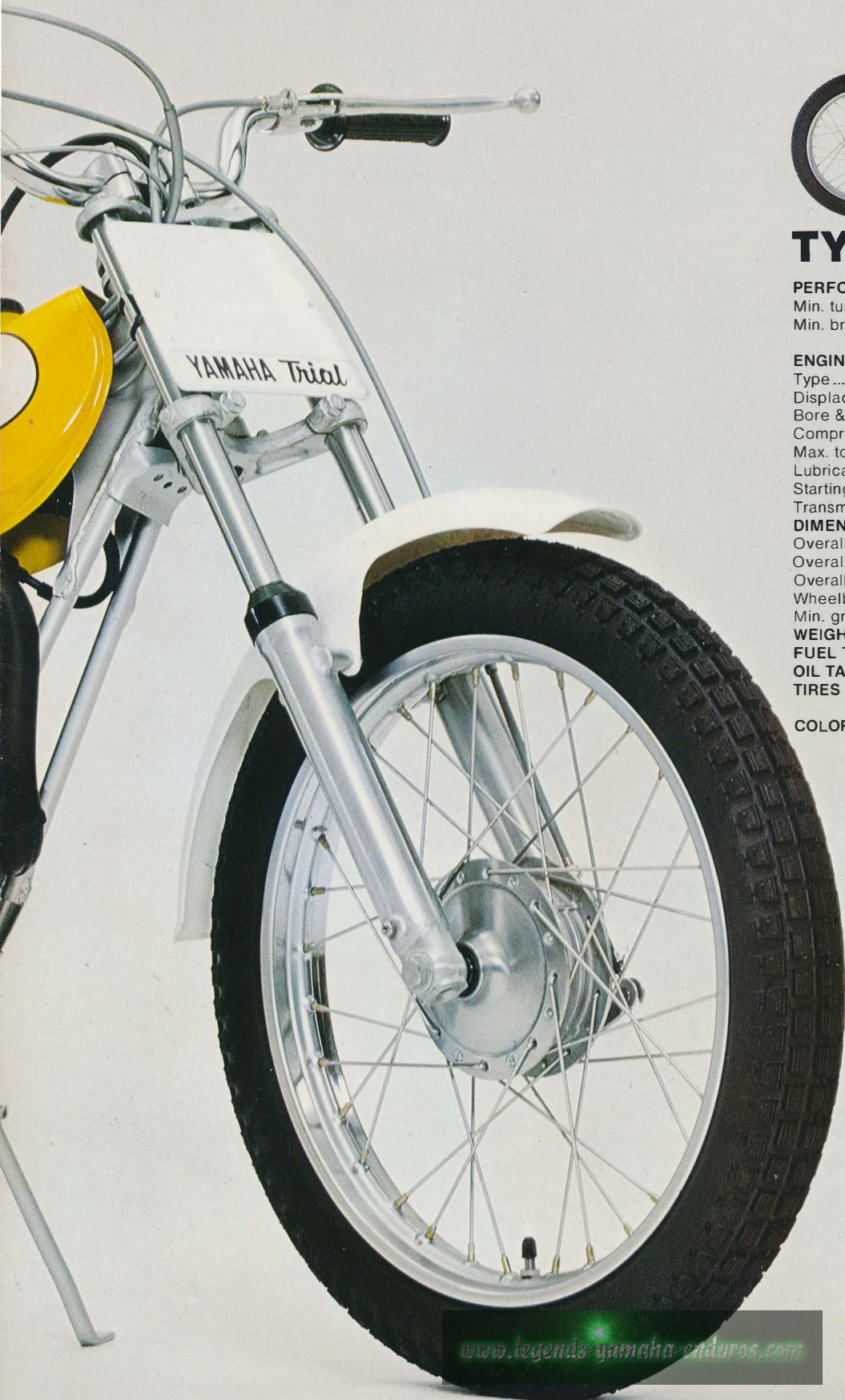
In order to view nature at her very best, one must oftentimes travel far from the main roads, and quite frequently the paths to follow are very near not being passable.

The Trial TY80B from YAMAHA was developed to be easily ridden over logs, rocks, and through water to take a wider age group on a more-exciting adventure through nature.

The TY80B, a scaled-down version of the larger TY250B Trials machine, is the ideal bike for children to learn good riding skills, and for the whole family to enjoy a closer look at nature.

Economical fun, and built to smoothly ride over all trials sections. . YAMAHA's own TY80B.





TY80B

PERFORMANCE

Min. turning radius L. R. 70°
 Min. braking distance 7.5 m @35 km/h
 (24.6 ft. @22 mph)

ENGINE

Type 2-stroke, Torque Induction®, Single
 Displacement 72 cc (4.39 cu. in.)
 Bore & Stroke 47 x 42 mm (1.575 x 1.563 in.)
 Compression ratio 7.0 : 1
 Max. torque 4.5 ft.-lb. @5,000 rpm
 Lubrication system Autolube
 Starting system Primary kick starter
 Transmission 4-speed gearbox

DIMENSIONS

Overall length 1,560 mm (61.4 in.)
 Overall width 690 mm (27.2 in.)
 Overall height 890 mm (35.0 in.)
 Wheelbase 1,025 mm (40.4 in.)
 Min. ground clearance 220 mm (8.7 in.)

WEIGHT (NET) 54 kgs. (119 lbs.)

FUEL TANK CAPACITY 2.5 lit. (0.7 U.S. gal.)

OIL TANK CAPACITY 0.2 lit. (0.2 U.S. qts.)

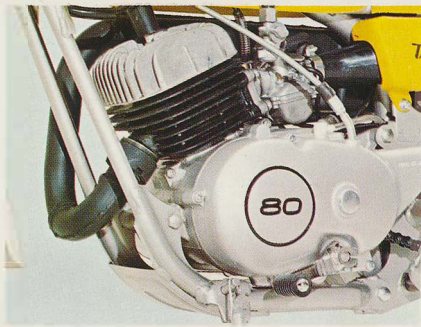
TIRES front 2.50-16-4PR

rear 3.00-14-4PR

COLORING White/Competition Yellow

* Specifications subject to change without prior notice.

Features



Torque Induction® engine

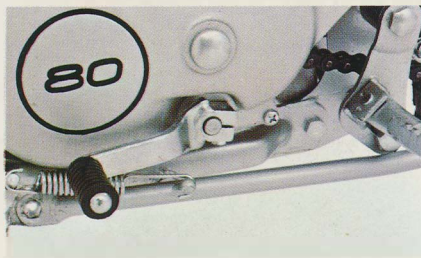
To improve the performance of off-the-road machines over the lower-and middle-speed ranges, YAMAHA developed the exclusive Torque Induction® system which provides more usable power for the rear wheel over this range of speeds. This is accomplished with a new porting arrangement working in conjunction with a reed-valve intake assembly. The porting design assures that all burned gases are removed from the combustion chamber for the most efficient operation, and the reed-valve supplies fuel on demand while eliminating "blow-back" through the carburetor.

Autolube®

In order to maintain a more efficient engine operation and eliminate the sometimes messy need to pre-mix the gasoline and the oil, YAMAHA has included their



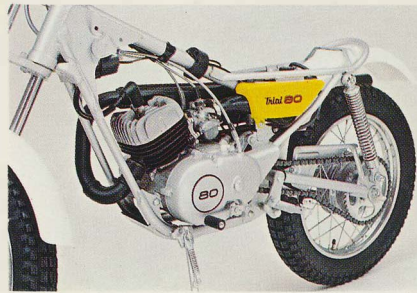
Autolube system on the TY80B. This system, which was the first on any trials bike last year, continually monitors the engine speed and throttle opening to supply exactly the right amount of oil, from a separate tank, to be mixed with the gasoline. With Autolube, the engine is cleaner burning and, therefore, longer lasting.



Transmission

The 4-speed transmission on the TY80B has been designed to have smoothly overlapping ranges for easier, comfortable shifting while utilizing the engines power band in the most effective manner. The lower gears are built to negotiate the roughest trials section while fourth gear allows the bike to be quickly ridden in between sections without over-revving the engine. Also,

the tool-hardened gears are built to closer tolerances to help eliminate back-lash when the bike is quickly accelerated.



Frame

The TY80B features a lightweight, double-cradle frame for durability and maximum machine stability. This high-tensile-strength, slender-tubular-steel frame is ideal for use on rugged trials sections where virtually any type of terrain might be encountered. This is due, primarily, to the more slender design which allows the frame to twist and flex so that it will be able to withstand severe road shocks plus the twisting and turning stresses that are incurred on the most rigorous trials sections.

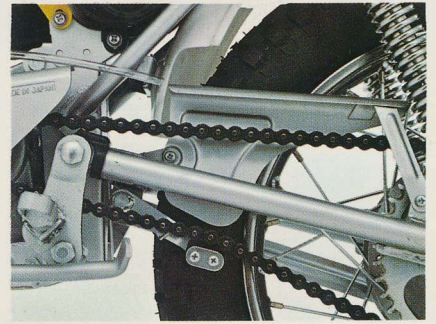


Front forks

The TY80B has inner-spring, hydraulically-damped front forks which are the result of long research at YAMAHA plus the comprehensive study of data obtained from some of the worlds most grueling race tracks. These forks are characterized by a longer, yet smooth, travel for maximum cushioning and comfort, and they yield a better maneuverability capability while not sacrificing any of the machine's inherent good stability characteristics.

Chain tensioner

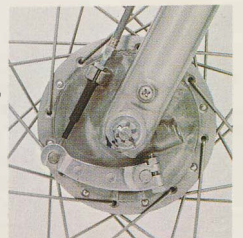
When riding over a rugged trials section, throttle response is important in order to maintain machine stability and have good maneuverability characteristics. The only problem generally associated



with fast throttle response is back-lash in the transmission and chain. YAMAHA has eliminated this problem on the TY80B by including a transmission with closer tolerances and installing a chain tensioner on the rear swing-arm. The chain tensioner maintains a constant tension on the chain at all times by taking up any chain slack that should occur.

Brakes

When riding through almost any trials section, the precise application of the brakes will make the difference whether points are lost or not, and since trials sections are comprised, in part, of some type of water hazard, the brakes must be waterproof. To assure that the brakes on the TY80B are dependable under all situations, their design includes a labyrinth seal to prevent water and dust from entering and affecting the operation. Also, they have very good heat-dissipating characteristics so that the brakes will not fade even under repeated, hard use.



Tires

The TY80B has been designed from the ground up to be an off-the-road machine, and to assure that the machine will operate more efficiently for the use intended, the tires, both front and rear, feature a knobby-tread design. These tires are built to obtain better traction when ridden over rough terrain, such as found in most trials sections, and they are able to withstand jumps, bumps, water, mud, rocks and stumps...all to assure a safer operation.



YAMAHA



SINCE 1887 YAMAHA MOTOR CO., LTD.
2500 SHINGAI IWATA-SHI SHIZUOKA-KEN JAPAN

www.legends-yamaha-enduros.com