

The Ace Cafe & the London Motorcycle Museum

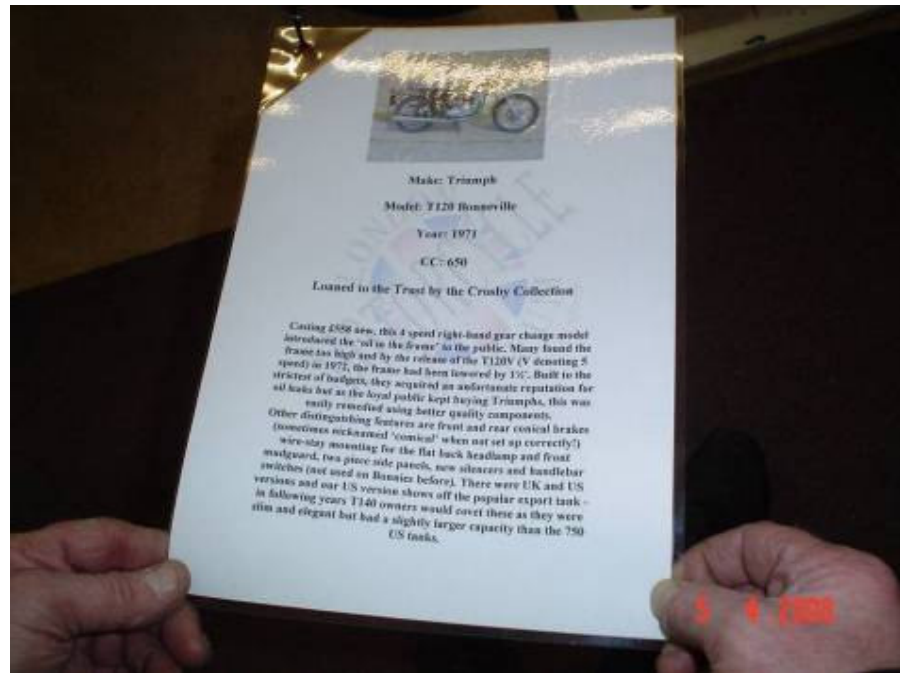
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Essex Region















1965 TRIUMPH PI

The Trident & Rocket Three Owners Club successfully tracked down and subsequently purchased the Triumph 'PI' Triple engine, albeit in a neglected and rough state. The club took the decision to return it to its original mid 1960's guise and over many months, during 1993, numerous devotees and TR3OC Members set about this daunting task. The engine was completely rebuilt and fitted into period 1965 cycle parts. The TR3OC will be forever grateful to all those involved in accomplishing this painstaking task that resulted in the motorcycle you now see today. It remains the registration number of the original machine.

Doug Hele was the Design & Development Chief, Alan Barrett his right hand man and occasional Test Rider. Harry Woolridge was the regular Test Rider. During development of the engine, July - November 1965, the main issues revolved around crankcase breathing, cooling of the exhaust and replacing the original cast iron cylinder barrels with aluminium versions. The general arrangement of the PI engine was subsequently developed into the 'P2' machine that became known as the 'Trident'.



The Triumph PI with the works line-up. Doug Hele 2nd from right

Specification

- 1965 T120 frame modified to accept engine
- Bore & Stroke: 63mm x 80mm giving 748cc Capacity
- Cast iron barrels later changed to aluminium due to overheating problems
- Cylinder head cast aluminium with hemispherical combustion chambers
- Valve angle: 45 degrees
- Compression ratio: 8:1
- Crankshaft with crankpins set at 120°
- Carburation: 3 x 27mm Amal
- Ignition: single coil and distributor
- Primary drive: geared with timing chain
- Final drive: chain and sprockets
- Power: 58 b.h.p. @ 6300 rpm



