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1972 Triumph Bonneville Buyer's Guide

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1972 T120 Bonneville

Factory-Correct Restoration Guide

KEY FACTS AT A GLANCE

- **Model year covered:** 1972 only (T120 Bonneville; T120R in the US). The LAST year of the 649 cc Bonneville. This guide does not cover the 1971 T120 or the 1973 T140 except where differences are explicitly noted.
- **Engine:** 649 cc air-cooled OHV parallel twin; 71.0 mm x 82.0 mm bore x stroke; unit construction.
- **Fuel system:** Twin Amal Concentric carburetors.
- **Ignition:** Battery-and-coil breaker-point ignition.
- **Electrics:** 12-volt; turn indicators standard.
- **Transmission:** 4-speed standard; FIVE-SPEED OPTION new for 1972. Chain primary; wet multi-plate clutch; chain final drive.
- **Frame:** Oil-bearing frame (as 1971).
- **Brakes:** Conical front hub with twin-leading-shoe brake (Hagerty); rear drum.
- **Wheels/tires:** Wire-spoked wheels; 3.25 x 19 front, 3.50 x 18 rear (period fitment).
- **Frame/engine serials:** Alpha-numeric: month letter + model-year code + sequential from 00100. Model-year code for 1972 is G (Lowbrow Customs). Documented example: T120R GG38054 (Bonhams).
- **Power:** 54 bhp @ 6,750 rpm (Hagerty).
- **Documented color:** Gold and White with black lining — recorded in a period color reference compilation for 1972. Verify the full palette in the parts book.
- **Production context:** The last 649 cc T120. Hagerty: by the time the last one was sold in 1972, production had reached 250,000 units.

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This is a single-year guide. It covers the 1972 Triumph T120 Bonneville only. Other model years are discussed solely to mark differences — for a different year, use that year's IronHead guide.

1. Manufacturer history: Triumph

Triumph began as a bicycle and motorcycle maker in Coventry, England, founded by the German immigrant Siegfried Bettmann in the 1880s; the company built its first motorcycle in 1902. Through the 1920s Triumph was one of Britain's major motorcycle manufacturers, and in 1936 the arrival of designer Edward Turner changed the company's trajectory permanently: his 1937/38 Speed Twin — a 500 cc parallel twin — created the template (light, narrow, good-looking twin with real performance) that the whole British industry, and then the Japanese, would chase for the next forty years.

Bombing forced the move from Coventry to a new factory at Meriden in 1942, and in 1951 Triumph was sold to the BSA group. The 1950s and 1960s were the boom years: the 650 twins (Thunderbird, Tiger, Bonneville) sold in huge numbers, overwhelmingly to the United States — more than 65 percent of Bonneville production went to America, a figure Hagerty's marque history repeats across its model summaries. The American market's appetite for the big parallel twin is the reason the Bonneville exists in the form it does: tuned for US tastes, styled for US showrooms, and sold through legendary importers like Johnson Motors (JoMo) on the West Coast and the Triumph Corporation (TriCor) in the East.

The 1970s brought the collapse. Mismanagement, labor strife, and Japanese competition pushed BSA/Triumph to the brink; the 1973 creation of Norton Villiers Triumph (NVT) was followed by an 18-month workers' sit-in at Meriden (Hagerty), after which the factory continued as the Meriden Workers' Co-operative — owner-workers building essentially the same motorcycles with almost no development money. Production limped on until 1983, when the Meriden works closed and the rest of Triumph's motorcycle production ended with it. Businessman John Bloor bought the name and assets the same year; his new Hinckley company would eventually relaunch the Bonneville in 2001, but the Meriden-built line this guide covers died in 1983.

For the restorer, that history explains the parts landscape: enormous US sales mean used parts and pattern parts are plentiful for the popular years; the co-operative years (1975-1983) mean running changes, mixed fittings, and documentation gaps that demand verification against the factory parts books rather than memory.

2. Model history: the Bonneville

The Bonneville began in 1959 as the T120: a 650 cc pre-unit parallel twin, essentially a twin-carburettor Tiger 110, named for the land-speed records Johnny Allen set on the Bonneville Salt Flats in 1956 aboard a Triumph-powered streamliner. It was an instant hit in America, and for the next two decades the Bonneville was Triumph's flagship — the bike the company was known by.

Three mechanical generations matter for the restorer. The **pre-unit T120** (1959-1962) has a separate gearbox. The **unit 650** (1963-1972, covered by factory workshop manual 99-0883/0889 for 1963-1970) combines engine and gearbox in one crankcase casting — the engine most people picture when they hear "Bonneville." The **750 T140** (1973-1983) is a bored-and-developed descendant of the oil-in-frame 650, covered by the T140 factory repair manual. Within those generations, the year-to-year changes — carburetors, brakes, frames, electrics, shift side, paint — are exactly what this guide series isolates, one year at a time.

Two production facts anchor every guide in this series. First, Hagerty's marque history records that by the time the last 649 cc T120 was sold in 1972, production had reached **250,000 units** — the Bonneville was a mass-market machine, not an exotic. Second, the same source puts total T140 production at roughly **60,000 units** across 1973-1983. And more than 65 percent of all Bonneville production was sold in the United States, which is why US-specification details (US-only paint names, US-market fittings, the T120R designation for the US road model) dominate the restoration record.

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Designation	Years	What changed that matters
T120 Bonneville	1959-1962	650 cc pre-unit twin. Named for the 1956 Bonneville Salt Flats land-speed records.
T120 Bonneville (unit)	1963-1970	Unit construction (engine and gearbox in one casting) from 1963. 12-volt electrics from 1964. Amal Concentric carbs and 8-inch twin-leading-shoe front brake from 1968.
T120R/T120V (oil-in-frame)	1971-1972	Oil carried in the frame instead of a separate tank. 54 bhp @ 6,750 rpm. Five-speed option for 1972. Last of the 649 cc line: ~250,000 T120s built in total (Hagerty).
T140V Bonneville	1973-1978	750 twin (724 cc at launch, 744 cc shortly after). Five-speed, right-side shift to 1975, left-side shift and rear disc from 1976.
T140J Silver Jubilee	1977	Limited edition: 1,000 UK + 1,000 US machines (Bonhams).
T140E / T140D	1979-1980	E for emissions: parallel-port head, Amal MkII carbs, Lucas Rita electronic ignition. D Special: factory custom by Tom Higham.
T140ES Electro	1980-1983	Electric start alongside the kick starter.
T140LE Royal Wedding	1981	Limited edition for the Charles and Diana wedding; published build totals conflict (see Section 10).
T140AV	1981-1983	Anti-vibration rubber-mounted police/touring model.
T140 TSS / TSX	1982-1983	Eight-valve Weslake-derived head on the TSS (~60 bhp per Hagerty).
End of line	1983	Meriden closes. ~60,000 T140s built in total (Hagerty).

3. What makes the 1972 T120 Bonneville unique

The 1972 T120 is the end of the 650 line — the last Bonneville with the 649 cc engine that had powered the model since 1959, and the last before the 750 T140 arrived for 1973. It is also a boundary year in two directions: the five-speed gearbox appears as an option for the first time, and the conical front hub arrives. A factory-correct 1972 must be kept on the 650 side of both boundaries — no 750 parts, no assumed-standard five-speed.

1972-only details:

- **Last of the 649.** The 649 cc unit twin ends here. Hagerty's marque

history marks the moment: by the time the last 649 cc T120 was sold in 1972, production had reached 250,000 units. The engine is the final development of the 1963 unit design — 54 bhp @ 6,750 rpm (Hagerty).

- **Five-speed option.** The five-speed gearbox was offered as an option

for 1972 — the first appearance of the five-speed in the Bonneville line, and standard equipment on the 1973 T140 that followed. Verify which gearbox the bike was built with: a 1972 can be factory-correct with either the 4-speed or the optional 5-speed, and the cases, internals, and shift mechanism differ. Do not assume "all 1972s are five-speed" — the option/record distinction matters for originality.

- **Conical front hub.** Hagerty records the conical front hub (with the

twin-leading-shoe brake) for 1972 — a visible year identifier. The hub, brake plate, and fork fitment are 1972-specific.

- **Model-year code G** (Lowbrow Customs); documented example T120R

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GG38054 (Bonhams).

- **Oil-bearing frame continues**, with the same internal-cleanliness

discipline as 1971.

- **Gold and White with black lining** — period color reference

compilation; verify the full palette in the parts book.

1972 buyer cautions:

- **Gearbox verification.** Determine whether the bike left the factory

as a 4-speed or an optional 5-speed — the answer changes which internals, cases, and shift parts are correct. A 5-speed transplanted into a 4-speed bike is a modification, however desirable.

- **The 750 boundary.** 1973 T140 parts (top ends, gearboxes, electrics)

do not belong on a 1972, no matter how similar they look. The displacement change is the line.

- **250,000-unit context cuts both ways.** Huge production means parts

availability is good — but it also means a vast population of mixed-year bikes. Verify by the G-code serial, not by appearance.

4. Decoding your 1972 Bonneville

Alpha-numeric: **month letter + model-year code + sequential from 00100**, with **G as the 1972 model-year code** (Lowbrow Customs). Documented example: **T120R GG38054** (Bonhams). Engine number: left crankcase below the barrel. Frame number: steering head. Match expected. Verify code tables against Lowbrow's guide — published tables vary.

5. Engine — technical restoration data

The table below is the 1972 T120 Bonneville's technical core. Every figure is sourced; where no verified factory figure was found in the sources checked, the table says so explicitly rather than printing a plausible number. Use the factory workshop manual for your exact model as the final authority.

Specification	Detail
Engine	649 cc air-cooled OHV parallel twin, unit construction (LAST year of the 649)
Bore x stroke	71.0 mm x 82.0 mm
Compression ratio	Not printed: no verified 1972 factory figure found in the sources checked (8.6:1 was quoted for 1971; do not assume it carries over — use the manual).
Carburetion	Twin Amal Concentric
Ignition	Battery-and-coil, breaker points
Power	54 bhp @ 6,750 rpm (Hagerty)
Gearbox	4-speed standard; 5-speed OPTIONAL for 1972 (first year of the option)
Clutch / primary	Wet multi-plate clutch; chain primary drive
Final drive	Chain
Frame	Oil-bearing frame (as 1971)

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Specification	Detail
Front suspension	Telescopic fork
Rear suspension	Twin Girling shock absorbers
Front brake	Conical hub, twin-leading-shoe (Hagerty)
Rear brake	Drum
Wheels	Wire-spoked, steel rims
Tires (period)	3.25 x 19 front, 3.50 x 18 rear
Electrics	12-volt; turn indicators standard
Fuel capacity	Not printed: verify against the factory parts book for the year.

6. Transmission, clutch and primary drive

The 1972 runs a 4-speed standard; 5-speed OPTIONAL for 1972 (first year of the option). Wet multi-plate clutch; chain primary drive. Final drive is by Chain. Rebuild practice is standard unit-twin work: inspect gear dogs and slots for rounding, replace bearings and seals as a set, check clutch-plate flatness and basket notching, and set the primary-chain tension and clutch adjustment to the factory manual before judging gearbox behavior.

7. Frame, suspension, wheels and brakes

Frame: Oil-bearing frame (as 1971). Front suspension: Telescopic fork. Rear: Twin Girling shock absorbers. Brakes: Conical hub, twin-leading-shoe (Hagerty) front, Drum rear. Wheels: Wire-spoked, steel rims. Wheel and brake originality is checked as a set — hub, brake plate or caliper, and fork fitment must all agree with the year's specification in Section 3.

8. Electrics, ignition and instruments

Ignition: Battery-and-coil, breaker points. Carburetion: Twin Amal Concentric. Electrics: 12-volt; turn indicators standard. Fit a new wiring harness — original insulation is finished — rebuild or replace the switches, fit the correct battery, and test the charging system under load. Set timing to the factory manual before attempting any carburetion tuning.

9. Paint, trim and finishes

Documented: Gold and White with black lining, recorded in a period color reference compilation for 1972. Verify the complete 1972 palette against the factory parts book and period brochures before paint.

10. Production and rarity

Hagerty's marque history: by the time the last 649 cc T120 was sold in 1972, production had reached **250,000 units** — the figure covers the whole T120 run from 1959. No published model-year split for 1972 alone was found; the G-code allocation (from 00100) bounds the year.

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11. Corrosion and wear areas to inspect

Check every one of these before committing to the restoration — they are the places 1972 Bonnevilles hide their expensive surprises.

- **Frame interior:** oil-bearing top tube — flush and verify clean.
- **Conical hub:** check the hub and brake plate for cracks; alloy hub corrosion around the spoke holes.
- **Chrome:** rechroming expected.
- **Exhaust:** inside-out rot.
- **Tank interior:** borescope before paint.
- **Electrics:** replace connectors, grounds, indicator wiring.

12. Restoration sequence

Work in an order that never forces you to undo finished work. The sequence below is the standard professional order for a unit-twin Triumph; the notes flag where the 1972 T120 Bonneville needs special attention.

1. **Document everything first.** Photograph the complete bike from all sides,

then every assembly before you touch a fastener. Record the frame and engine numbers (see Section 4) and check them against the year ranges before spending money — a mis-described year is the most expensive restoration mistake.

2. **Assess, don't strip.** Inventory what's original, what's period-correct,

what's wrong-year, and what's missing. On a 1972, pay particular attention to gearbox identification (4-speed vs optional 5-speed) and the oil-frame's internal cleanliness.

3. **Engine and gearbox out; frame inspection.** Check the frame for crash

damage, cracks at the steering head and swingarm pivot, and previous repairs. Oil-in-frame: flush and verify the top tube internally before engine installation, as for 1971.

4. **Engine rebuild.** Split only as far as needed. Measure everything:

bore, crank journals, cam bushings, valve guides. Rebores on these barrels are routine, but match pistons to the measured clearance, not to the catalogue's optimism. Replace the sludge-trap plug's staking on the crank — a loose sludge trap destroys cranks.

5. **Gearbox and clutch.** Inspect dogs and slots for rounding, replace

bearings and seals as a set, check clutch-plate flatness and basket notching.

6. **Cycle parts.** Rebuild forks with new seals and correct oil; rebuild

shocks or replace with correct-pattern units. Wheel rebuilds: new spokes and nipples, rims trued — chrome rims that are pitted will not take a lasting polish.

7. **Brakes.** Conical-hub TLS front: inspect hub for cracks and spoke-hole corrosion; full brake strip. Rear drum as usual. Rebuild hydraulics completely on disc models:

seals, hoses (replace, don't reuse), master-cylinder bore inspection.

8. **Electrics.** New wiring harness (the original insulation is done),

rebuilt or replaced switches, correct battery, charging-system test under load. 12-volt with indicators: new harness, rebuilt switches, charging test under load.

9. **Paint and plating.** Paint last among the major jobs, after all

trial-fitting is done. Gold and White with black lining is documented in a period reference — verify the complete 1972 palette in the parts book before paint.

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