FREE SAMPLE

The opening pages of

1974 Harley-Davidson Shovelhead Buyer's Guide

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IRONHEAD

The 1974 Harley-Davidson Shovelhead Buyer & Restoration Guide

KEY FACTS AT A GLANCE

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Manufacturer History

The Shovelhead story starts in 1966. Harley-Davidson needed more power from its Big Twin to move the heavy Electra Glide dresser, and the answer was the Power Pac: new aluminum cylinder heads with larger valves and ports on the existing Panhead-style lower end, with the rocker boxes shaped like the business end of a coal shovel — the name every Harley fan knows today.

The first Shovelhead generation runs from 1966 through 1969: the generator (slabside) years. The generator hangs off the front of the engine cases, the ignition is breaker points, and ownership identification is the engine serial number. In 1970 the motor changed fundamentally — the alternator replaced the generator inside a redesigned cone-shaped timing case, the ignition points moved into the nose cone, and a nine-character VIN appeared. That cone motor is the second Shovelhead generation, and it runs all the way to 1984.

The model line grew with the motor. The 1971 FX Super Glide — Willie G. Davidson's factory custom combining the FL frame and 74-ci engine with a Sportster front end and the boat-tail rear — invented the cruiser category. The line expanded through the 1970s: electric-start FXE, the FXS Low Rider (mid-1977), the FXEF Fat Bob (1979), the belt-drive FXB Sturgis and FXWG Wide Glide and the all-new FLT Tour Glide (1980). Displacement grew from 74 cubic inches to an 80-ci option (mid-1978) and then the all-1340 line (1981). Carburetion moved from Linkert (1966) to Tillotson (1967–1970) to Bendix (1971–1975) to Keihin (1976 on). Breaker points gave way to Prestolite electronic ignition late in 1978. The 17-digit federal VIN arrived for 1981, and in June 1981 Harley's executives bought the company back from AMF. The FXR chassis (1982) brought rubber mounting and a 5-speed to the FX line, and in 1984 the Evolution engine arrived — ending the Shovelhead era that this guide covers.

Model History

This guide covers one model year only. The Shovelhead Big Twin line for the covered year is described in the key-facts section; model codes, carburetion, ignition, and chassis details are year-specific and must be verified against the year parts book. The through-line of the era is the cone motor introduced for 1970 (alternator, nose-cone points, nine-character VIN), refined year by year until the 1984 split between the final Shovelheads and the first Evolutions.

What Is Unique About 1974

FXE INTRODUCED — electric starting comes to the Super Glide: the FXE joins the kick-only FX. Verify the 9D model code — FXE claims on re-stamped or converted FXs are a known fraud point.

FLH rear disc — the Electra Glide gains the rear disc with the 1974 models (Cycle World’s September 1973 new-season test shows discs at each wheel), ending the 1972–1973 front-disc/rear-drum era.

Still Bendix, still right-shift — 1974 keeps the Bendix carburetor (the 1976 Keihin is two years out) and right-foot shift (the DOT left-side mandate hits for 1975). A Keihin or left-shift on a claimed-1974 is a later swap.

What 1974 Did Not Have

- No Keihin carburetor (1976 — the factory service bulletin is explicit: Bendix through 1975); no left-foot shift (1975); no FXS Low Rider (mid-1977).
- No single-piece FX tank change for 1974 — the single 3.5-gallon tank arrived on the FX for 1973.
- **Model year covered:** 1974 only (FL, FLH, FX, and the new FXE). The electric-start Super Glide year.
- **Engine:** 1,207 cc (74 cu in) air-cooled 45-degree OHV V-twin; 3.4375 x 4.00 in bore x stroke; 8.0:1 compression; cone motor with alternator.
- **Fuel system:** Bendix carburetor (all models — the Keihin does not arrive until 1976).
- **Ignition:** 12-volt battery and coil; breaker points in the nose cone.

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- **The FXE:** Electric starting joins the Super Glide line — the FXE is the electric-start Super Glide alongside the kick-only FX.
- **Brakes:** The FL/FLH gain the rear disc for 1974 — disc brakes at each wheel across the line (verify on the bike; the change arrived with the 1974 models).
- **Starting:** Electric (FL/FLH/FXE); kick only (FX).
- **Transmission:** 4-speed constant-mesh; right-foot shift (the DOT left-side mandate follows for 1975); chain final drive; dry multi-plate clutch.
- **Identification:** 9-character VIN (9D = FXE-1200); year code H4.
- **Key 1974-only features:** First-year FXE; first-year FLH rear disc; last year of right-foot shift.

1974 Technical Specification

- **Models covered:** the FL, FLH Electra Glide, FX Super Glide, and the new FXE
- **Engine:** 1,207 cc (74 cu in) air-cooled 45-degree OHV V-twin (Shovelhead)
- **Bore x stroke:** 3.4375 x 4.00 in (87.3 x 100.8 mm)
- **Compression ratio:** 8.0:1
- **Power:** 58 bhp @ 5,150 rpm (period spec-sheet data)
- **Carburetion:** Bendix
- **Ignition:** 12-volt battery and coil; breaker points in the nose cone
- **Starting:** Electric starter (FL/FLH/FXE); kick starter (FX)
- **Transmission:** 4-speed constant-mesh; right-foot shift; chain final drive; dry multi-plate clutch
- **Brakes:** Disc brakes at each wheel (all models)
- **Wheels:** FL/FLH: 16-inch wire-spoked wheels; FX/FXE: 19-inch front, 16-inch rear wire wheels

Identification: Engine Serial and VIN

For 1966 through 1969, ownership identification is the engine serial number stamped on the left engine case. From 1970, Harley-Davidson used a nine-character VIN: the first two characters identify the model, the next five are the production sequence, and the last two are the model year (H0–H9 = 1970–1979, J0 = 1980). From 1981, the federal 17-digit VIN applies (10th character = model year).

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Nine-character VIN model codes (1970-1980 era)

Code	Model	Years
1A	FL-1200	1966–1973 (74 ci dresser)
2A	FLH-1200	1966–1980 (74 ci Electra Glide)
2C	FX-1200	1971–1974 (74 ci Super Glide)
2D	FX-1200	1975–1976 (74 ci Super Glide)
2E	FX-1200	1977 (74 ci Super Glide)
9D	FXE-1200	1974–1977 (74 ci Super Glide, electric start)
2F	FXS-1200	1977–1978 (74 ci Low Rider)
4F	FXS-80	1979–1980 (80 ci Low Rider)
6F	FXEF	1979 (Fat Bob)
7F	FXEF-80	1979–1980 (80 ci Fat Bob)
5F	FXE-80	1979–1980 (80 ci Super Glide)
3G	FLH-80	1978–1984 (80 ci Electra Glide)
5G	FLT-80	1980–1983 (80 ci Tour Glide)
6G	FXE-80	1981 (80 ci Super Glide)
7G	FXWG-80	1980–1984 (80 ci Wide Glide)
8G	FXB-80	1980–1982 (80 ci Sturgis)

Nine-character year codes: 1970 = H0, 1971 = H1, 1972 = H2, 1973 = H3, 1974 = H4, 1975 = H5, 1976 = H6, 1977 = H7, 1978 = H8, 1979 = H9, 1980 = J0.

Federal 17-digit years: The 10th character of the 17-digit federal VIN is the model-year code: 1981 = B, 1982 = C, 1983 = D, 1984 = E.

What to Check Before You Buy

FXE verification. The FXE premium depends on the 9D VIN and factory electric-start hardware — converted kick FXs are common; check the primary, starter, and wiring against the parts book.

Brake-system mixing. 1974 is the rear-disc changeover year — verify calipers, master cylinders, and rotors are the correct early-disc parts, not later swaps.

Right-shift riders. The 1974 right-foot shift catches out riders raised on left-shift bikes — a safety note, not a defect.

Paint and Finishes

- Verify the bike's original color against the year parts book (Painted Parts section); repaint in a non-factory color is the single biggest value deduction on a restored bike.
- **Hidden original paint:** check under the seat, inside the side covers, and behind badges for the original finish before trusting any color claim.

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Production

No reliable model-year production total for 1974 was found in the sources consulted. Do not trust round-number "production figures" quoted without a factory or marque-archive citation.

The Technical Restoration Content

Casting and date codes

Engine cases, cylinders, and heads carry casting numbers and date codes. A factory-correct restoration matches casting numbers to the model year and checks date codes against the build date — parts cast months after the bike's assembly date are replacements. Photograph every casting number before disassembly; the year parts book lists the correct numbers.

Torque specs

Do not use torque values from memory or from generic charts. Head bolts, case bolts, and critical fasteners are torque-to-yield or angle-sensitive on these engines, and published values vary between sources. Use the year-correct Harley-Davidson factory service manual for every torque value, and follow its sequence. If you cannot verify a number, follow the factory manual procedure — a wrong torque value breaks cases.

Gaskets and seals

Shovelheads mark their territory. A restoration that aims at correctness uses the right gasket materials for the year (cork, paper, or composition as the parts book specifies), and a restoration that aims at riding replaces every seal in the primary, the rocker boxes, and the pushrod tubes as a matter of course. Budget for it; there is no cheap way around it.

The top end

The Shovelhead's aluminum heads are its glory and its weakness. Check valve guides, seats, and the head gasket surface before committing to machine work. Overheating history shows in discolored fins and pulled head-bolt inserts — both are repairable, both cost money, and both should be found before paint.

The bottom end

The 1966–1969 generator lower end and the 1970-on cone lower end share the Shovelhead top end but differ in the timing chest, oiling, and charging system — parts do not freely interchange between the generations. Verify the case casting against the model year before buying a "rebuilt" engine.

Rust-prone areas

Check the frame at the steering head and swingarm pivot, the inside of the gas tanks, the fender mounting points, and the floorboard/forward-control brackets. Chrome that looks tired is usually telling the truth about the metal underneath — budget for re-chroming, not polishing.

Restoration sequence

1. Verify numbers (engine serial / VIN, title, model codes) before spending anything.
2. Assess the engine: compression, leak-down, oil pressure history.
3. Frame and sheet metal: straighten, repair, then paint — never paint before the mechanical assessment.
4. Rebuild the engine and transmission to the year-correct specification.
5. Re-chrome and re-plate to the year-correct finish.
6. Reassemble with the year parts book open — fasteners, clamps, and finishes are year-specific.

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7. Final verification: every number, every code, every finish against the book.

Shop the Supplies

The parts and tools for this restoration are covered in the IronHead parts-and-tools box at ironheadguides.com. Buy the year-correct factory service manual first — it is the single most valuable tool in a Shovelhead restoration.

Sources

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