

944 Turbo Cup mechanical restoration (Toshiba, ex-Bill Adam)

Date	Odometer	Description	Amount
8/19/2020	18604	Mechanical refurbishment: battery, engine leakdown test, compression test, replace spark plugs, oil pressure gauge, sending unit, oil level sender, engine oil service, install correct 8R oil pan and sending unit, replace connecting rod, bearings and hardware, engine air filter & fuel filter, Gates Racing cam belt, balance shaft belt, ignition rotor, steering belts, coolant flush/refill. Install missing upper radiator mounts, turbo system cutoff valve (upgrade to 993T type), service front wheel bearings, replace rear wheel bearings, service rear axle assemblies and replace CV boots, replace inner CV joint (driver side), replace front sway bar bushings with Delrin type, adjust rear sway bar to soft setting, perform transaxle service, install missing bell housing and torque tube plugs, check gearshift linkage, replace gearshift inner boot, replace remote ABS switch and wire harness, clean ABS sensors, install DOT stainless steel brake hoses, replace rear brake rotors, refinish front brake rotor hats, install brake pads (PAGID street), remove and replace frozen right front brake caliper bleeder valves, flush/renew brake fluid (ATE Type 200), repair broken wire at brake level sensor, install missing center & rear exhaust heat shields including fuel tank mounting strap, reinstall unibody brace, install PMR stock exhaust with B&B stainless rear muffler to pass Texas State inspection (race exhaust retained and shipped with car), install required exhaust mounting hardware for stock exhaust. Install missing engine undershields, qualify all fuses and relays, replace inoperable wiper motor and replace wiper blades, install cowl plastic, install complete headlamp assemblies (Porsche parts) and operating mechanisms, straighten front sheet metal at headlamp openings to allow popup operation replace rear bulbs, replace reverse light switch, install Schroth 6-point harness (driver seat).	\$18,394.04
12/14/2020	18865	Replace plastic odometer gear in speedometer	\$255.08
4/9/2021	19715	R&R clutch master cylinder, flush clutch hydraulic system, tightened loose starter, brake flush.	\$1,383.20
6/1/2021	19715	Replace all lines in engine due to age: intake, vacuum lines, turbo plumbing, cooling system, electrical. Replace O2 sensor, Carrera chain tensioner seal ring, transmission ball cup, Aux fan switch, various rings, seals and gaskets.	\$5,158.70
6/14/2021	20361	Replace fuse panel, replace Gates Racing turbo with spare OEM rebuilt turbo, copy/rewrite DME and KLR chips from second 944 Turbo Cup car, replace ECU chip with factory chip verified with other 944 Turbo Cup; fuel pressure regulator, fule control line, oil change, power steering fluid change. Fabricate 944 Turbo S oil pan to match 944 Turbo Cup magnesium race pan (including baffles and "trap door") to minimize oil starvation in extreme cornering.	\$9,861.31
8/11/2022	21509	Diagnose internal blower motor not operating and replaced blower resistor with Porsche OE part, system check to diagnose weak boost pressure (adjust fuel quality switch positions, fuel pressure test, fuel volume test), R&R spark plugs, re-assemble DME chip to mounts. Replace right front headlamp. Oil change and coolant flush.	\$4,602.08
10/31/2022	21517	Diagnose clutch system and adjust boost spring; R&R clutch master cylinder and clutch slave cylinder (Porsche OE parts); R&R clutch and flywheel (Porsche Sachs parts), replace engine rear main seal, cross shaft bearings, replace clutch hoses at reservoir, brake fluid flush (ATE Type 200).	\$6,138.85
11/21/2022		Diagnose oil leak (valve springs, injection rail, distributor, timing belt and camshaft housing); remove cylinder head and disassemble/inspect; retainer springs failed; head sent out for machining; top-end rebuild, reassemble engine, install missing altitude capsule, install rebuilt wastegate, install racing version head gasket with fire ring, vacuum integrity test; replace sway bar drop link bushings.	\$11,645.42
5/8/2023		R&R wastegate (test valve opening), repair intake manifold (#4 intake runner), inspect exhaust and install new seal ring, replace faulty turbo charger (failed cartridge bearing), R&R fuel rail, ignition wires, intake manifold, air filter assembly; reassemble and install rebuilt turbo charger. Nut & bolt check of entire engine. Upgrade to Teflon lined oil feed, drain/refill coolant, oil change. (\$5250 labor waived)	\$1,455.56
3/14/2024		Brake fluid change (ATE Type 200); replace fuel sending unit, diagnose fuel gauge,	\$1,106.86
			<b>\$60,001.10</b>