MOPED MOTEL — TWO-STROKE GARAGE WALL CHEAT SHEET

Premix Ratios • Spark Plug Specs • Fastener Torque Specs • 5-Minute Diagnostics

TECHNICAL REFERENCE
mopedmotel.com

1. PREMIX QUICK RATIO TABLE

GAS / OIL MIX

RATIO	1 GAL GAS	2.5 GAL	5 GAL	BEST ENGINE USE
50:1 (2.0%)	2.6 oz (76ml)	6.4 oz	12.8 oz	Stock 50cc + Synthetic
40:1 (2.5%)	3.2 oz (95ml)	8.0 oz	16.0 oz	70cc Kits / High RPM
32:1 (3.1%)	4.0 oz (118ml)	10.0 oz	20.0 oz	Break-In / Bushing Rods

Mixing Rule: Pour half gas first, add 2-stroke oil, shake can, then top off gas. Never mix oil directly inside moped gas tank.

2. SPARK PLUG & IGNITION

SPARK SPECS

Standard Plug Gap:	**0.020" – 0.024" (0.5 – 0.6 mm)**
Points Gap (Ignition):	**0.014" – 0.016" (0.35 – 0.40 mm)**
NGK B6HS:	**Stock 50cc / Cool Weather**
NGK B7HS:	**Mild Tuning / Warm Weather**
NGK B8HS:	**70cc Big Bore Kits / High Heat**

White = Lean | Tan/Brown = Dialed | Wet Black = Rich

3. COMMON ENGINE TORQUE & FLUID SPECIFICATIONS

TORQUE & FLUIDS

COMPONENT / FASTENER	PUCH E50 / ZA50	TOMOS A35 / A55	HONDA HOBBIT PA50	MOTOBECANE AV7 / AV10
Cylinder Head Nuts	8 – 10 ft-lbs (Cross pattern)	8 – 10 ft-lbs (Cross pattern)	7 – 9 ft-lbs (Cross pattern)	8 – 10 ft-lbs (Cross pattern)
Spark Plug	15 – 18 ft-lbs	15 – 18 ft-lbs	14 – 17 ft-lbs	15 – 18 ft-lbs
Flywheel / Magneto Nut	25 – 30 ft-lbs	25 – 30 ft-lbs	22 – 26 ft-lbs	~25 ft-lbs (Left-Hand Thread!)
Transmission / Gear Oil	ATF Type F (~200–250 ml)	ATF Type F (~220 ml)	10W-30 / 80W-90 (~90 ml)	N/A (Dry Belt Drive)

4. 5-MINUTE "WON'T START" DIAGNOSTIC

TROUBLESHOOTING

1. **Switches & Petcock:** Verify kill switch is RUN. Ensure petcock ON/RES with fuel flowing in line.
2. **Spark Test:** Ground plug threads to head fins & crank. Looking for bright blue spark. No spark? Check points & ground wire.
3. **Fuel Delivery:** Dry plug = clogged main jet or stuck float needle. Wet plug = flooded engine (crank WOT with gas OFF).
4. **Air Leaks:** Spray carb cleaner at intake & base gaskets while idling. If RPM shifts, fix seal leak.

5. BREAK-IN & STORAGE CHECKLISTS

MAINTENANCE

70cc Big Bore Kit Break-In:

- ☐ Up-jet carb +8 to +15 main jet sizes before first start.
- ☐ Run 3 stationary 5-min heat cycles (cool completely between).
- ☐ Vary throttle for first 50 miles; re-torque cylinder head.

Winterization Storage:

- ☐ Add fuel stabilizer & top off metal tanks (stops rust).
- ☐ Drain carburetor float bowl to prevent green jet varnish.
- ☐ Pour 1 tsp 2-stroke oil into plug hole & crank twice to fog ring walls.