

Fuse And Circuit Record

What fuse protects what, on a machine whose wiring diagram does not match anybody else's. Plus the blade fuse colours, from the manufacturers' datasheets.

BATTERY OFF BEFORE YOU START

Disconnect the negative battery lead before removing or inspecting fuses, except during the mapping exercise below, which by its nature has to be done with the key on. During mapping, do not touch anything but the fuses.

BLADE FUSE RATINGS AND COLOURS

Blade fuse colours, from the manufacturers' own datasheets. Ratings above 25A are omitted because we could not verify their colours to a datasheet — read the number stamped on top.

RATING	COLOUR	RATING	COLOUR
1 A	Black	7.5 A	Brown
2 A	Grey	10 A	Red
3 A	Violet	15 A	Blue
4 A	Pink	20 A	Yellow
5 A	Tan	25 A	Clear / natural

THE COLOUR IS A CROSS-CHECK, NEVER THE AUTHORITY

The rating is stamped on the top of the fuse and that is what counts. The colour code is shared across the standard ATO/ATC size and the smaller MINI size, but they are different families and not interchangeable in a holder — check the body size as well as the number. A fuse of the wrong rating fitted by a previous owner is exactly the fault you are hunting, and it will look perfectly normal until you read it.

MAPPING YOUR OWN CIRCUITS

1.

Key on, engine off. Switch on the lights, and have somebody watch or use a mirror.
2.

Pull one fuse. Note everything that stops working: lights, indicators, horn, dash, fuel gauge.
3.

Try the starter button as well — some circuits only reveal themselves under that load.
4.

Refit that fuse before pulling the next one, so you are only ever testing one at a time.
5.

Write it on the map below and leave the sheet with the machine.

FUSE POSITION	RATING STAMPED ON IT	COLOUR	WHAT STOPPED WORKING WHEN PULLED

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WHEN A FUSE KEEPS BLOWING

A FUSE THAT BLOWS AGAIN IS TELLING YOU SOMETHING

Never fit a larger fuse to stop one blowing, and never bridge a holder with foil or wire. The fuse is the cheapest component in the circuit and it is failing on purpose. A fuse that blows immediately points at a short to earth; one that blows after a few minutes points at something drawing more than it should as it warms up.

How quickly it blows narrows the fault

WHEN IT BLOWS	WHAT THAT SUGGESTS
Instantly, every time	A direct short to earth. Look for chafed insulation where the loom passes a frame edge or moves with the steering
After a few minutes of running	Something drawing more current as it warms — a failing component rather than a dead short
Only when a particular switch is used	The fault is in that branch. The mapping table above tells you which
Only over bumps or when the bars are turned	An intermittent short caused by movement. Follow the loom where it flexes

WHICH FUSE BLOWS	HOW QUICKLY	WHAT IS BEING USED WHEN IT DOES

WHERE TO LOOK FOR A SHORT

- ☐ Where the loom passes through the frame or over a sharp edge
- ☐ Behind the headlight, where the loom flexes with the steering
- ☐ At the swingarm or engine, where the loom moves with the suspension
- ☐ Any connector that has been apart before and may be mis-pinned
- ☐ Any aftermarket accessory, alarm or added wiring
Start here on a machine that has been modified
- ☐ Corrosion inside a multi-pin block, which is invisible while it is connected

THERE IS NO WIRING COLOUR STANDARD ON THESE MACHINES

This is not a gap in our research — it is the finding. Experienced owners describe factory loom colours as varying between machines of the same brand and the same model, and every widely circulated colour chart we examined disagrees with at least one other. So no branch on this sheet will ever tell you to find the yellow wire. Every step ends at something you measured: voltage present or absent, continuity or open circuit, changes when the key turns or does not.

WHAT YOU FOUND

Need to work out what you actually own?

The Scooter Parts Registry is a free public record of the Chinese factories behind US-market scooters, ATVs and go-karts — brand, engine family, VIN prefix, factory and related machines. No account, no email.

thescooterparts.com/identify