

START-STOP BATTERIES

ALL YOU NEED TO KNOW



Despite having been in existence for a number of years now, start-stop batteries often cause confusion, particularly when it comes to their replacement.

So as one of Europe's leading manufacturers of this technology, we've prepared a simple overview of both AGM and EFB batteries, arming you with all you need to know: what they are, what they do, and how should they be replaced.

And given that we are preferred original equipment supplier of this technology to such leading automotive manufacturers as **Audi, Aston Martin, BMW/Mini, Caterham, Lotus, Mercedes, Morgan, Porsche, Seat, Skoda, Volvo and VW**, you can have confidence in ensuring that you know all there is to know.



WHAT THEY ARE?

Start-stop batteries are either AGM (Absorbed Glass Matt) that are completely sealed, or EFB (Enhanced Flooded Battery) that can be topped up.

WHAT THEY DO?

AGM and EFB batteries are used for start-stop systems fitted to over 90% of today's cars, and those that require smart or brake regeneration charging.

HOW THEY SHOULD BE REPLACED?

A start-stop car requires a start-stop battery. Simple. And to find out which one, simply use Banner's online portal – www.bannerbatteryfinder.co.uk

Enter the relevant vehicle registration into a novel 'number plate' shaped window and the search facility does the rest.

ADDITIONAL FAQs

Q: Are AGM/EFB batteries only used on start-stop cars?

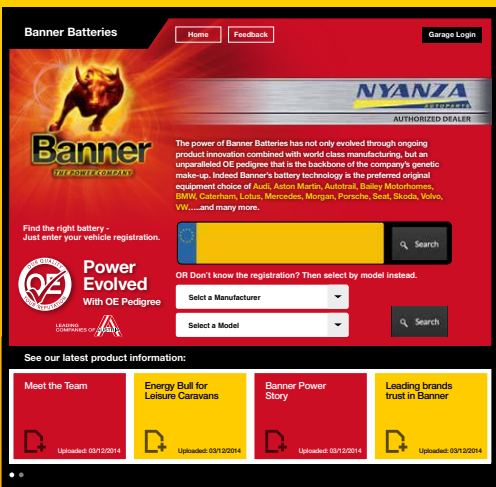
A: **Not always, as they also feature on cars with smart charging and those featuring significant electronics.**

Q: Can a normal lead acid battery be used to replace an AGM or EFB?

A: **The simple answer is NO! This is because the charging system on a vehicle fitted with AGM/EFB is different and will damage a standard type battery in a few months.**

Q: My car has an AGM battery fitted as Original equipment, which are very expensive, so can I put a cheaper EFB on it?

A: **No. An AGM can only be replaced with AGM, however an EFB can be upgraded with an AGM.**



A START/STOP CAR REQUIRES A START/STOP BATTERY

	Conventional Flooded Battery	RUNNING BULL EFB	RUNNING BULL AGM
Number of Engine Starts	up to 30,000	up to 270,000	up to 360,000
Start / Stop System	No	Yes	Yes
Brake Energy Recuperation	No	No	Yes
Lower CO ₂ Emissions	No	Up to +5%	Up to +8%
Improved Fuel Consumption	No	Up to +5%	Up to +8%
On-board power supply	Yes	BEST	VERY BEST
Improved Cycle Life Span	No	2x	3x
Leak Protection	Up to 55° angle	Up to 55° angle	100%