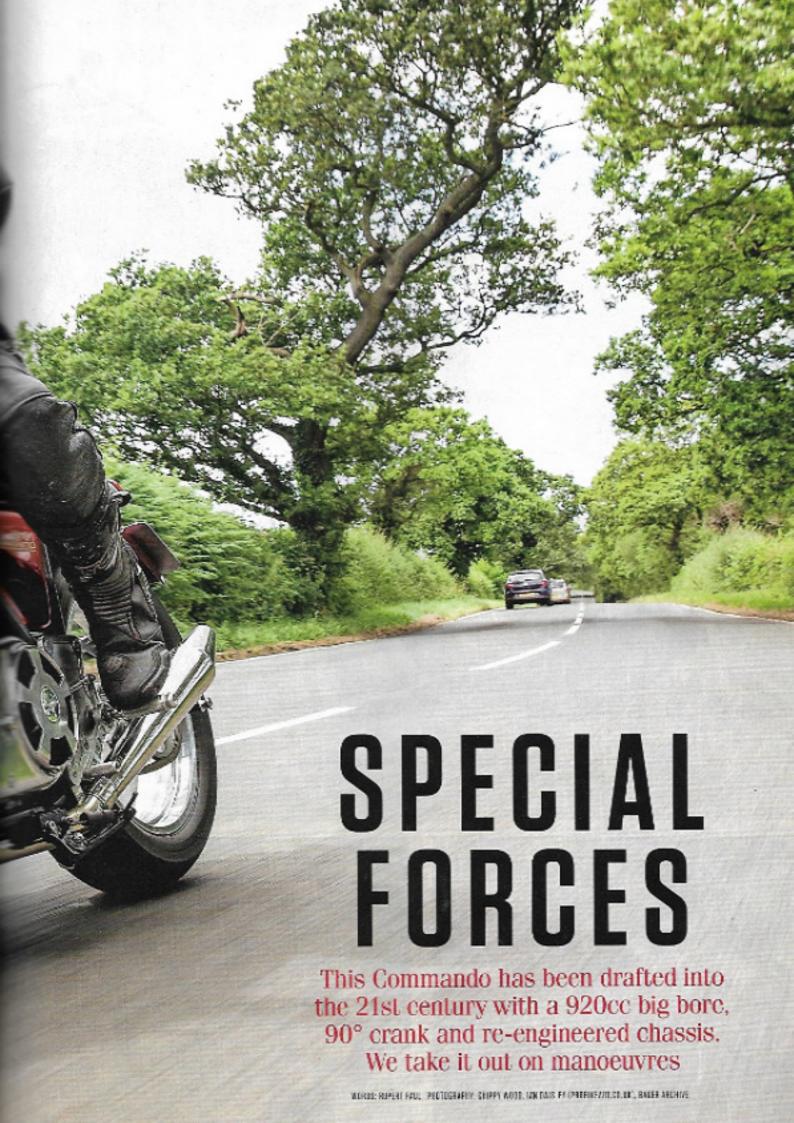


GOLD WING RACER | 1926 TRIUMPH IN FRANCE | SPANISH COLLECTOR





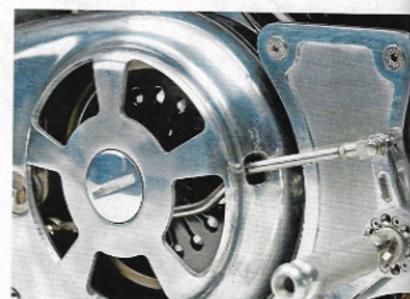


ABOVE: Peashopter 'stlenders' are misnamed; quieter ones are planned. Corbin seat is a Commando aftermarket part.

BELOW: Clocks are Smiths electronic flows; milling the clemps off the Buell top yoke left handy holes for charge/neutral lights and clock manu swirches.

MkIII 850 gearbox, built brand new with Quarte five-speed internals, has the gearchange was on the 'modern' side in keeping with the ethos of the bike











Jerry (right) and his co-builder Roy (Left) resplendent in appropriately-branded casual wear

iding a bike that's taken someone years to build is always an honour - and, for obvious reasons, also a bit of a nervejangler. But meeting Jerry Hutchinson and his 920 Commando Roadster felt like going on a modern manufacturer's press launch. Not

only was there a detailed spec sheet and professionally produced brochure, Jerry and his co-builder Roy Chappell also wore 920 Commando shirts and served us tea in 920 Commando mugs.

And I've got to say their pride is totally justified. I mean, just look at the pictures. It's even finished like a production bike. Or rather, as Jerry puts it: "It's what Norton would probably have done if they hadn't crashed."

This is one of those rare specials that bring the looks and character of a 1970s classic into the 21st century. And, as Jerry explains, it almost never happened.

"When my dad died in 2009, I wanted something that would be a tribute to him. He was a mechanical engineer and loved old British cars and bikes, so I thought a Britishengineered product would fit the bill. Norton were starting up, so I thought I'd get one of those. I ordered one and paid

the full £12,500 for it.

"In those days you could watch your bike being built at the factory, or even join in. Rey and I went along and actually started putting parts on the frame under the instruction of the guy building ir. I was full of enthusiasm: soon I'm going to have my own Commando!

"Two years later it still

hadn't appeared, and even the sales director advised me to get my money back, which I did. But I still wanted a special Norton. So I said to Malcolm one day: "Have you ever done a Norton special?" He said: 'No, but I'd love to'. And that's where this bike came from."

The Malcolm that Jerry mentions is Malcolm Shepherdson, boss of Shropshire engineering shop Metal Malarkey. They'd met in 2008 at the Stafford show when Jerry had noticed one of Malcolm's earlier creations, a Bonneville he had co-built with serial customer Bill Gysin.

Jerry remembers the moment well. "I thought: 'Whoa! That's a nice Bonneville!' And we got talking." It looked like a Bonnie, but had a custom frame, proper running gear and all the period half-arsed design details ironed out.

With Malcolm's help Jerry went on to build his own C

Triumph twin – a flat-track-style road bike. So by the time he decided on the Commando in 2014, their collaborative working relationship was already fully formed. Egged on by Roy, who also likes his Nortons, Jerry began to work out what sort of bike would make a suitable tribute to his dad.

"I wanted a newer interpretation of the 1970s Commando Roadster. It would have modern suspension, wheels, brakes and chassis but also obvious design DNA from the original bike," he explains.

Malcolm's computer-aided design service helped them plan how the bike would look, even down to details like the forks, shocks and footrest hangers. And Jerry had already decided he would switch to a 270° crank, which virtually all modern parallel twins use. The irregular firing interval would sound excellent, and having the crankpins 90° apart would reduce the vibration which obliged Norton to adopt rubber mounting on the original Commandos.

"With the 270° crank and a reed-valve engine breather we felt we could get away without any Isolastics, getting rid of a hell of a lot of clutter," remembers Malcolm. "I suggested a 14-gauge cold-drawn tube for the frame—a little heavier than usual, but we weren't sure exactly how much the engine would vibrate. We didn't want it ringing like a tuning fork."

So how can an engine breather damp down vibration? "It means the engine is running free rather than pumping that volume of air around," Malcolm explains. "It makes quite a big difference—Yamaha and BMW have used similar systems."

With the main styling decisions taken, Malcolm could assemble the frame tubes to suit the engine, tank and side panels. Using 17in wheels and 43mm forks would let the hike turn quickly, so Jerry went for a 24° head angle and 90mm of trail – the same as a 1999 Honda FireBlade (stock Commandos were 27/28°). Wheelbase, thanks to the '60s pre-unit engine design, would be 1435mm, against about 1410mm for a typical early-2000s Japanese sports bike.

Jerry's second key collaborator was Mick Hemmings, who ran a wonderful Norton shop in Northampton until semi-retiring recently. Mick supplied (and still can supply)

SPECIFICATION

SPECIFICA	
ENGINE/TRAN	ISMISSION
Type	Air-cooled, 4v pushrad train
Crank	90° billet, 54% balance
	factor
Capacity	917cc
Bore x stroke	81.0 x 89mm
Carburation	35mm Keihin PWK
Clutch	Hemmings dry, multiplate
Camshaft	PW3 profile
Gearbox/final driv	e Queife five-speed/chain
CHASSIS	AND THE RESERVE AND A
Frame	Bronze welded CDS by
	Metal Malarkey
Swingarm	Malarkey eval section
Suspension	43mm Buell Cyclone forks,
	Hagon Nitro shocks
Brakes	Front: 320mm Braking disc,
	Harrison six-pot callper.
	Rear: 250mm Braking disc,
	Harrisonowo-poticaliper
Wheels	Morad rims, Talon hubs
Tyres	Bridgestone T30: 120/70-17
	front, 150/90-17 rear
DIMENSIONS	
Dry weight	346lb (157kg)
Wheelbase	56.5in (1435mm)
Seat height	30in [762mm] est
Fuel capacity	2.5 gallons (11 littre) est
PERFORMANC	[
Peak power	80bhp at 6000rpm (est)
Quarter mile	12 hs at 90mph (est)
Fuel consumption	50mpg (est)
Price (our guess)	£30,000

the Quaife five-speed gearbox and belt primary drive, and he built up the 'box and bottom end. The 850 MkIII Commando the bike is based on had a left-side gearchange, which Jerry wanted. He says: "The gearchange rod going in through the back of the primary case was my idea (based on a photo of a bike in the US); Malcolm loved it too, so that's what we went with. It took some adapting because we used the earlier primary case. But it looks really crick!

"Mick has been so helpful," Jerry adds. "He's sent me engine plates to use as patterns. Like Malcolm, he's become a good friend."

The all-important engine breather came from Pete Lovell in Birmingham. Mick provided a one-way oil feed to eliminate wet sumping, and the light 90° crank which was machined from solid in Birmingham. That, in turn, needed a special camshaft and Tri-Spark ignition, plus the new crankcases (also from Mick), 920cc barrels and pistons from Sueve Maney, and 40mm inlet valves for the 850 head.

It sounds easy, but it wasn't. "If I told you the full story about just the camshaft you'd be here until tomorrow," Jerry warns. Setting up the carburation was another long job. Malcolm machined the ignition pick-ups to suit the firing order, and

suggested many small improvements such as the Harleystyle oil drain pipe which is P-clipped in the upright position under the seat. To change the oil, you just undo the clip, remove the bung and direct the pipe into a suitable container.

Jerry did the electrics, using a Motogadget M. Unit and, largely, through-the-frame wiring. The bike passed its first MoT in March 2018, then spent 12 months being quietly refined and developed. Eventually, it was ready enough.

On its 17in wheels it looks long, low and crouched. As with the Gysin bikes that inspired it (see below), the Norton looks like your idea of what the original bike was – because your brain doesn't remember the annoying bits. There are no ugly brackets, Heath Robinson switches, oil leaks or crappy cable runs. There's no key, either (it uses a Motogadget RFID chip instead). The clutch (with a hydraulic lift C

GIVING BRIT CLASSICS A MODERN VIBE

Re-engineering a British classic. Could you do it? It's a mammoth task – re-imagining the whole thing using a better frame, suspension, brakes, electrics, while retaining (or even enhancing) the essential beauty of the original. Not many people manage it, because projects like this cost a bomb and demand huge levels of imagination, skill and persistence. They take years to build and sort out – but when they're ready, we usually feature them in CB. You can see the 920 Commando, and the three Gysin brothers' bikes, on malarkeyengineering, co.uk Here's a gallery of the bikes we've been provid to feature in our pages...



MALARKEY TRIDENT Classic Bilte December 2011 By: Bill Gysin



T150 TRITON Classic Bike August 2013 By: Jim Hodges



MALARKEY BSA A65 Classic Bike March 2014 By: Jim Gysin

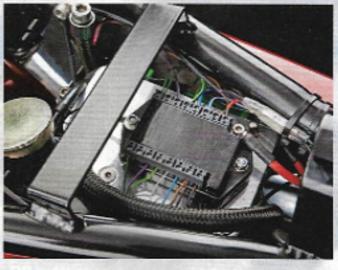


650 TRITON Classic Bike March 2015 By: Jim Hodges

Owner Jerry did all the electrics himself – this Motogadget M-Unit is the heart of the neat and tidy set-up

Discs by Braking and calipers by Harrison make for amazingly strong brakes - only one fingor required





'THERE ARE NO UGLY BRACKETS, HEATH ROBINSON SWITCHES, OIL LEAKS OR CRAPPY CABLE RUNS' Trident kickstart and RGM knuckle give extra leverage. Fold the footrest and brake pedal away first, though...





Stock tank has been reshaped underneath, with the front and rear outputs filled. The 17in wheels give a low, long and crouched attitude – this Commando looks ready for maximum attack....







ABOVE: Roll-on, roll-off bend-swinging is this Commando's lorté, accompanied by a raucous soundtrack. Switches, linkages and pegs heap style on top of function

'THERE'S HEAPS OF DRIVE AT 5500rpm, ENOUGH TO SMASH PAST ANY CAR'

mechanism from Colorado Norton Works) and throttle are light, and there's decent suspension, excellent brakes, good chassis stiffness, and more than adequate tyre grip. But don't get the idea it's been sanitised.

Today's retro-minded riders have plenty of modern parallel twins to choose from. But every one of those hikes feels like a wilted lettuce compared to a bigbore, high-compression Commando

with a lightened crank. Jerry has thoughtfully fitted a Trident kickstart for its extra length, but you still need to fold the footrest and brake pedal out of the way, hold the throttle half open, summon the blood, and swing the damn thing with enough heft to wake the engine up.

The result, should you succeed, is the usual low-rpm snarl of a Commando, rendered positively scary by peashooter silencers and a 270° firing order. Within a few seconds it'll

tick over happily while you get your breath back, but its round-town behaviour is a bit like taking a T-Rex for a walk. Even from 2500 rpm it just wants to lunge forward, savagely. This is not helped by the riding position, which in a 30 mph limit is quite challenging. The bars are fairly wide, the rearsets tip you forward, and with the dry clutch only 330 miles old it's got a non-linear feel. In 1000 miles or so it'll be fine. Meanwhile, the Quaife gearbox shifts nicely, and you can hit neutral as long as you're still rolling.

Head outen town, case your wrist back three degrees and you've effortlessly summoned a 60-70mph breeze to lean into. Now the bike starts to make sense. Higher gears take the snap out of the power delivery and replace it with the kind of showe that suits mile after mile of roll-on, roll-off hend swinging. Hanging on to 5500 gives heaps of drive, enough to smash past any car. Not much of a rev range, you may think. But it covers a lot of road speed in the high gears. Jerry likens the delivery to his old Ducati 996. I'd say it's more like a Harley V-Rod – lusty, noisy and very strong. Vibes peak at 4000, but unless you're especially sensitive they're OK.

Jerry has chosen soft springs and light damping, so the ride quality is as good as a twin-shocker gets. The bike steers neutrally, as you'd expect, and feels good leaned over (modern tyres are wonderful things). The Corbin seat is wide, with a cup-shaped recess and edges. It's great for comfort and perfectly follows the curves of the tank, though it would slightly impede you if you're a hanging-off type of rider. Braking is amazingly strong—one linger is enough.

As with any bespoke bike, there are still jobs to do. Though the motor pulls beautifully, Jerry plans a dyno session after a few more miles, and he's keeping a beady

> eye on the engine breather system as the revs increase on the still-young motor. He'll also be toning-down the exhaust volume a bit. More pressingly, the sidestand bracket decks out on lefthanders. A solution is already in train.

> Perhaps the bike's greatest quality is the consistency of how it looks – the degree of polishing, the similarity of fasteners used, the way the paint finishes march, the lack of chatter. To some people it just looks 'normal' – but if you've tried building your own bike, you will know that level of finish is anything but. Jerry agrees, but insists he is just doing his thing. "I build the bikes I build because I like them. If someone else likes them too, that's fine. But I build what I want it to be."

