

POWER DS-100 HT DISC BRAKES



The following 2022 MERIDA models will be spec'd with the POWER DS-100HT disc brake set
- (Shimano RT-10 rotors will remain).

- Big Seven 15, 20, 50, 60
- Big Nine 15,20,60
- Matts 7.20 and 7.60
- Crossway 20, 40
- Matts J24 Disc
- Matts J20 Disc and Matts J20 Plus
- Matts J Champion



This decision to use the POWER brakes was based on availability as the earliest delivery from SHIMANO or TEKTRO was OCT 2022. Effectively meaning we wouldn't have any stock until November 2022. Testing by our design team in Germany showed that the performance was comparable to the Shimano MT200 brakes and all braking distances (wet and dry) were way shorter than required by ISO 4210.

Parts for POWER DS-100 HT DISC BRAKES

Brake pads (Resin only)

- Only resin pads are allowed to be used with Shimano RT-10 disc rotors.
- POWER resin pads will be available to purchase from Advance Traders shortly (webshop details TBA).
- JAGWIRE DCA716 resin brake pads (BWD 716 for bulk buy) have the same dimensions as the POWER pads and can be used – available from Bike Corp (link below).



DCA716

<https://www.bikecorp.com.au/parts-and-accessories/disc-brake-pads/jagwire-disc-shimano-lx-t675-deore-t615-m525-m515-sport-organic>

BWD716

<https://www.bikecorp.com.au/parts-and-accessories/disc-brake-pads/jagwire-disc-deore-mech-auriga-sport-organic>

Parts for POWER DS-100 HT DISC BRAKES

Brake rotors

MERIDA approves Shimano RT-10 disc rotors being used with POWER DS-100 HT running POWER resin pads.

Disc brake fluid

Classic hydraulic mineral oil for disc brakes can be used to bleed the brake system. Please note that the brake system should be flushed entirely during bleeding so that the old and new oil is not mixed

Disc brake hose

JAGWIRE Sport Mineral hydraulic hose with a straight-straight connection can be used as an alternative brake hose for servicing requirements.

HBKB302: Hydraulic hose replacement kit incl. hose and fittings

HBFB000: Hydraulic hose workshop box <https://www.bikecorp.com.au/parts-and-accessories/cables-accessories/jagwire-basic-brake-kit-black-2-x-slick-inners-double-ended-road-mountain-cex-housing?SearchID=1533690&SearchPos=1>

Brake hose connector

JAGWIRE insert-pin (HFA309) <https://www.bikecorp.com.au/parts-and-accessories/cables-accessories/jagwire-needle-10-pcs-per-bag-shimano-xtr-m985-m988?SearchID=1533686&SearchPos=1>

JAQWIRE barb (HFA305) <https://www.bikecorp.com.au/parts-and-accessories/cables-accessories/jagwire-compression-bushing-shimano-tektro-10-per-bag?SearchID=1533684&SearchPos=1>

Parts for POWER DS-100 HT DISC BRAKES

Bleeding tools

For bleeding the brake system, Clarks bleed kit from Bicycle Parts Wholesalers (C046) has the required connectors <https://www.bicyclepartswholesale.com.au/product/13973-bleed-kit-universal-compatible-with-avid-hayes-magura-clarks-shimano-tektro-hope-formula-and-more->



These are the two connectors to look out for. The lock is on the connection that goes onto the brake lever.

Clarks bleed kit from Bicycle parts wholesalers (C046)

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Bleeding tools



Lever bleed port cap (t10 tool) has 2 O-rings. Be sure both come out before attempting to bleed system. Use an O-ring pick (BZBM20ORINGP) if they're proving tricky



The larger O-ring goes on first, the smaller, on top of that.



Shimano bleed spacer BR-M575 (Y8FZ05000) gives an appropriate amount of space between the pistons to complete the bleed

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Bleeding process

The process is similar to bleeding SRAM / AVID brakes using 2 syringes. Remember to use **MINERAL OIL** & NOT DOT oil as used in the SRAM video. The Clarks bleed kit is also designed for mineral oil only.

<https://www.youtube.com/watch?v=nqdp7a7FXe8>

A few TIPS

- Use Mineral Oil only
- Remove the brake mounting bolt in front of the bleed port on the brake caliper as it fouls when removing the bleed port cap. Since you will not be putting stress on the caliper at any point, it may be easier to remove the brake caliper completely and remove any fasteners holding the hose in place. This will give you a better angle in which to insert the bleed syringe.
- Ensure the caliper bleed port is pointing uphill to aid the escape of air. If you are removing the brake caliper from the frame, then this is easily achieved.
- Be patient when bleeding the brake caliper (you want to ensure all the air has been bled from the system).