WHYTE
PERFORMANCE BY DESIGN

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Mudguard Assembly Instructions

⚠ CAUTION

Whilst fitting these mudguards:

- Confirm they are large enough for the tyres fitted to your bicycle. "38mm" mudguards are suitable for Whyte Cambridge, Cambridge Varsity, Carnaby, Charing Cross, Cornwall, Devon, Dorset, Kings Cross, Pimlico, Portobello, Shoreditch, Somerset, Stirling, Suffolk, Sussex, Victoria & Whitechapel models (Rigid forks). "46mm" mudguards are suitable for Whyte Caledonian, Chiltern, Coniston, Malvern & Ridgeway models (Suspension Forks) and Fairfield (Rigid forks). The Montpellier & Stowe models have no suitable mounting points for mudguards.

- Check that there will be at least 6mm clearance around the tyre when they are fitted correctly.

- It is recommended to apply Loctite 243 Thread-Locker or similar thread adhesive to the threads of all screws that hold the stays to either the fork or frame. This will help to ensure they will not come loose. Carefully follow Loctite's own assembly instructions.

- **SAFETY CHECK – CONFIRM THE CORRECT OPERATION OF THE BRAKES AND GEARS AFTER FITTING THE MUDGUARDS.** If in doubt either consult the manufacturer's user instructions or contact your Whyte Bikes dealer.

Before each and every ride:

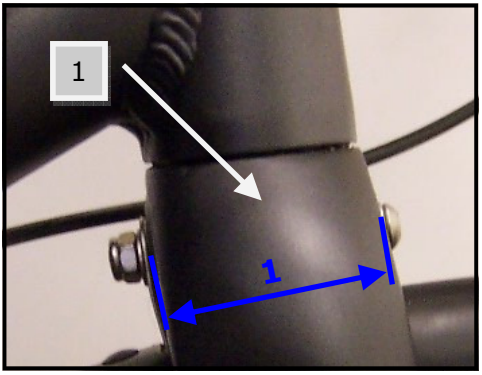
- Check that all the fasteners holding the mudguards in place are still tight.

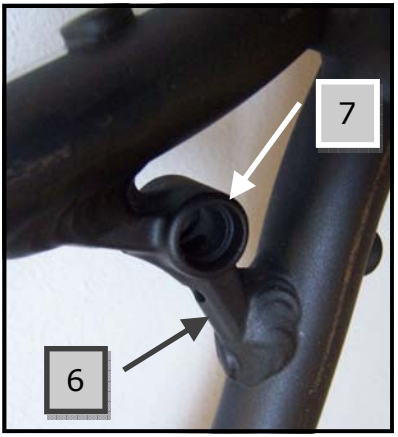
- If necessary, clean and dirt or road debris from the inside of the mudguard, since this will reduce the clearance to the tyre.

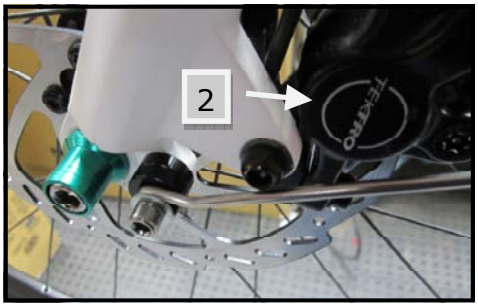
WHYTE Mudguard Assembly Instructions

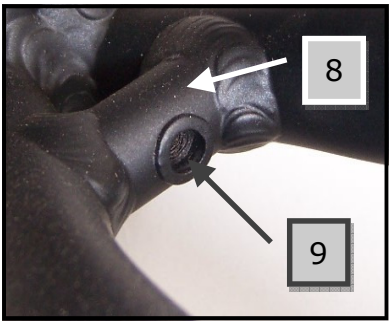
Terminology

1. Front Fork Crown & Thickness.
2. Disc Brake Caliper.
3. Seat-stay.
4. Chain-stay.
5. Rear drop-out.
6. Seat-stay bridge.
7. Stepped seat-stay bridge hole.
8. Chain-stay bridge.
9. Threaded chain-stay bridge hole.









Side Stay Lengths:

300mm long for 46mm wide mudguards.

315mm long for 38mm wide mudguards.

WHYTE Mudguard Assembly Instructions

Mounting Hardware:

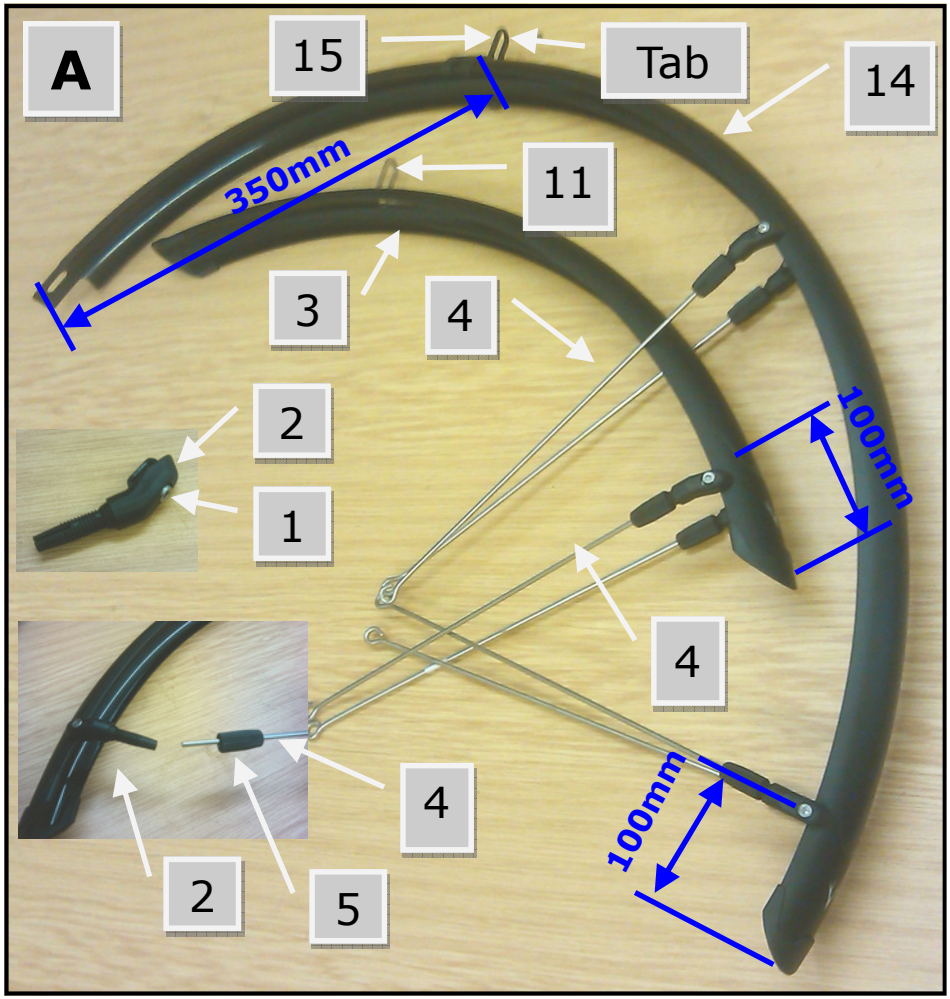
38mm Wide Mudguards		
Description	Reference	Quantity
Button head cap-screw M5 x 25 long	26	1
Button head cap-screw M5 x 35 long	24	1
Button head cap-screw M6 x 12 long	12	1
Button head cap-screw M6 x 30 long	16	1
Button head cap-screw M6 x 50 long	8	1
Button head cap-screw M6 x 60 long	8	1
Cap-screw M5 x 12 long	6	3
Cap-screw M5 x 16 long	21	4
Cap-screw M5 x 20 long	22	1
Cap-screw M6 x 65 long	8	1
Cycle brake nut M6 thread x 10mm long	18	1
Nut M6 Nylock	10	2
Spacer Ø6.2 hole x Ø15 outside x 5 long	23	2
Spacer Ø5.2 hole x Ø10 outside x 10 long	25	1
Washer Ø5 hole x Ø13 outside x 0.8 thick	7	13
Washer Ø6 hole x Ø12 outside x 1.6 thick	9	3
Washer Ø6 hole x Ø18 outside x 1.6 thick	17	1

46mm Wide Mudguards		
Description	Reference	Quantity
Button head cap-screw M6 x 12 long	12	2
Button head cap-screw M6 x 35 long	19	1
Cap-screw M5 x 12 long	6	2
Cap-screw M5 x 16 long	21	2
Cycle brake nut M6 thread x 10mm long	18	1
Nut M6 Nylock	10	2
Spacer Ø6.2 hole x Ø15 outside x 5 thick	23	1
Washer Ø5 hole x Ø13 outside x 0.8 thick	7	4
Washer Ø6 hole x Ø12 outside x 1.6 thick	9	3
Washer Ø6 hole x Ø18 outside x 1.6 thick	17	1

WHYTE Mudguard Assembly Instructions

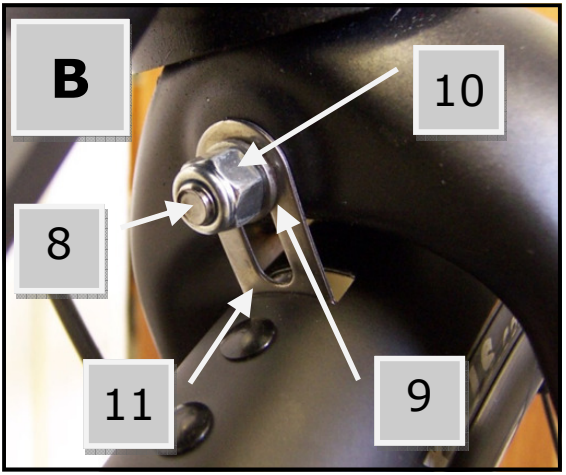
Assembling the Front Mudguard:

- Reference figure A. Using a 3mm A/F Allen Key, undo the M4 screw (1) in one stay bracket (2) by no more than one rotation. Clip the stay bracket (2) onto the side of the front mudguard (3). Position the stay bracket (2) approximately 100mm above the mudguard end. Re-tighten the stay bracket screw according to the torque value shown in the table on page 15.

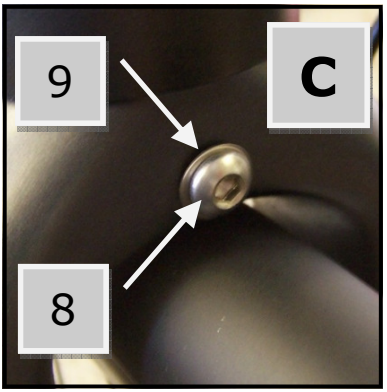


WHYTE Mudguard Assembly Instructions

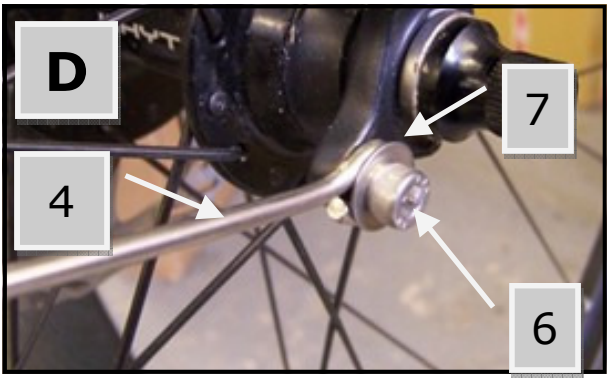
- Insert a single side-stay (4) through the threaded sleeve (5) and also into the end of the stay bracket (2). Screw the sleeve (5) into the end of the stay bracket (2) and lightly tighten. Repeat this process for the other items (1, 2, 4 & 5) on the other side of the mudguard (3). Do not firmly tighten the sleeves (5) just yet, as the side-stays (4) may need to be adjusted later.



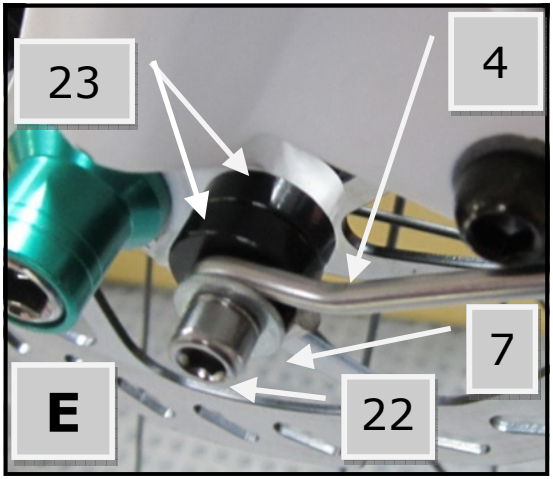
- Remove the front wheel from the bicycle (refer to page 15 of the Whyte General Instruction Manual on how to do this).



- *For Rigid Forks*
  - ◊ Reference figures B & C. Depending on the thickness of the front fork crown (see Terminology), use either an M6 x 65 capscrew or an M6 x 60 long or 50 long button head cap-screw (8), plus two small washers with Ø6 holes (9) and an M6 Nylock hex nut (10) to attach the bridge bracket (11) to the rear of the crown of the front fork.
  - ◊ Reference figure D. Using an M5 x 12 long cap-screw (6) and a washer with a Ø5 hole (7), attach the looped end of the side-stay (4) to the threaded hole in each of the front fork legs.

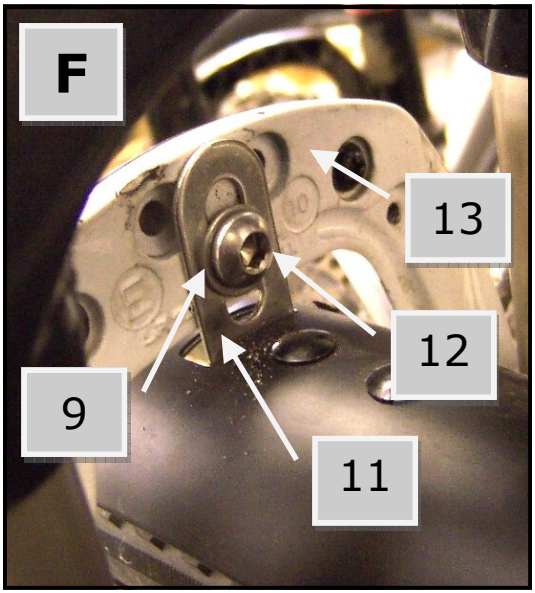


WHYTE Mudguard Assembly Instructions

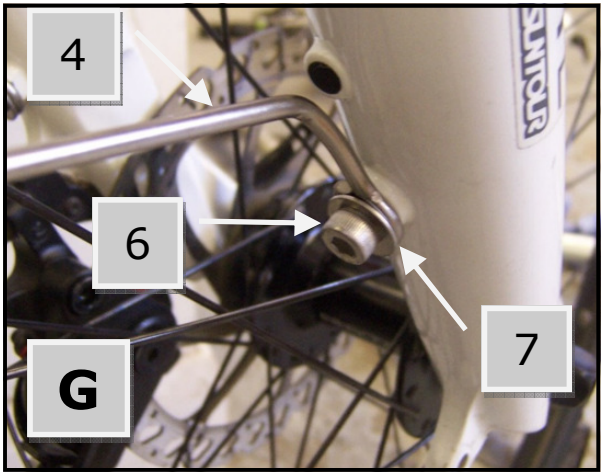


◊ Reference figure E. Using an M5 x 20 long cap-screw (22), a washer with a Ø5 hole (7) & two 5mm thick spacers (23), attach the looped end of the side-stay (4) to the threaded hole in the left front fork leg. For the threaded hole adjacent to the axle, two spacers (23) are required to allow the side-stay (4) to clear the disc brake caliper (see Terminology). Some other forks have a threaded hole further up the side of the fork. In this case no spacers (23) are required.

- *For Suspension Forks*
  ◊ Reference figure F. Using an M6 x 12 long button head cap-screw (12) and a small washer with a Ø6 hole (9), attach the bridge bracket (11) to the rear of the lower leg bridge of the front fork (13).



◊ Reference figure G. Using an M5 x 12 long cap-screw (6) and washer with a Ø5 hole (7), attach the looped end of the side-stays (4) to the threaded holes in each of the front fork legs.



- Refit the front wheel (refer to page 15 of the Whyte General Instruction Manual on how to do this).

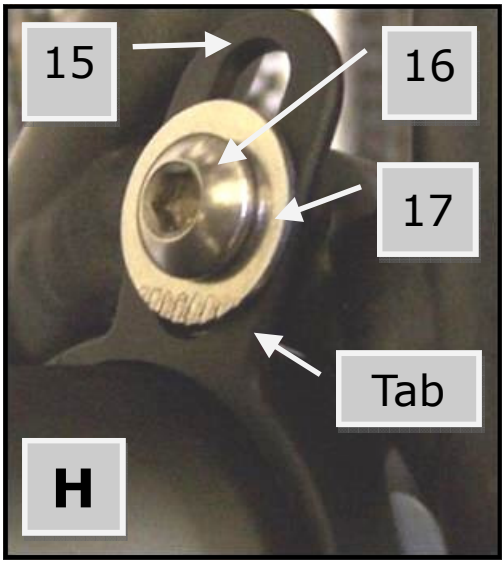
- Carefully adjust all the fixing points until the mudguard sits evenly and centrally around the front tyre, with a minimum clearance of 6mm. Also check there is enough clearance from the mudguard to your foot when in the pedal rotated fully forwards. Then tighten the fasteners according to the torque values shown in the table on page 15.

Assembling the Rear Mudguard:

- Slide the bridge bracket (15) onto & around the outside of the rear mudguard (14) with the tab towards the rear of the frame. Position the bridge bracket (15) approximately 350mm above the forward mudguard end (see Figure A on page 6). Check that it is a tight fit on the mudguard (14).

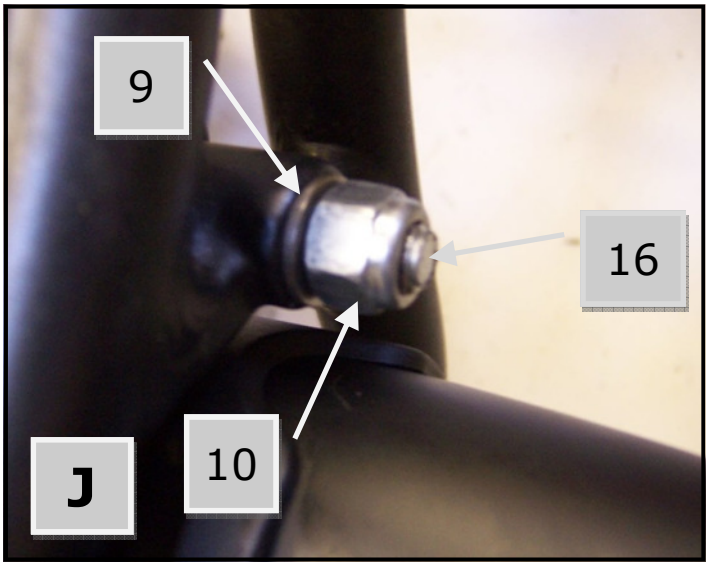
- Reference figure A on page 6. Using a 3mm A/F Allen Key, undo the M4 screw (1) in one stay bracket (2) by no more than one rotation. Clip the stay bracket (2) onto the side of the bare rear mudguard (14). Position the four stay brackets (2) approximately as shown in image A, ie: the two lower stays approximately 100mm above the mudguard end and the two upper stays approximately equal distances between the mudguard end and the location of the bridge bracket (15). Insert a side-stay (4) through the threaded sleeve (5) and also

into the end of the stay bracket (2). Screw the sleeve (5) into the end of the stay bracket (2) and lightly tighten. Repeat this process for the other items (1, 2, 4 & 5) on the other locations of the mudguard (14). Do not firmly tighten the sleeves (5) just yet, as the side-stays (4) may need to be adjusted later.



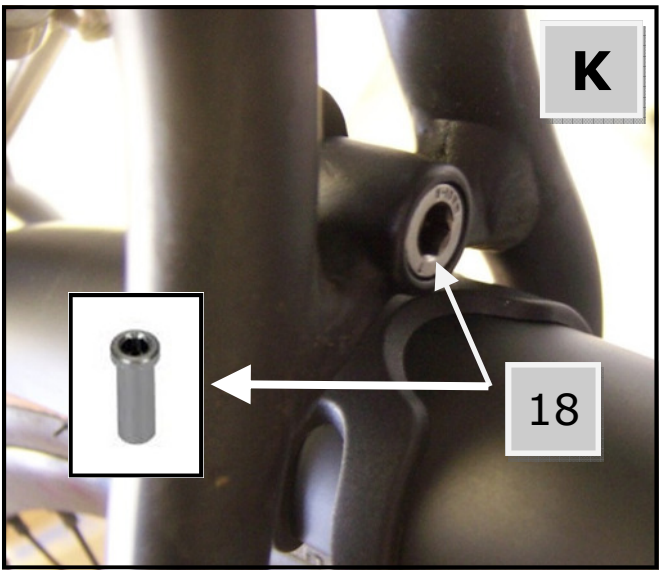
- Remove the rear wheel from the bicycle (refer to page 15 of the Whyte General Instruction Manual on how to do this).

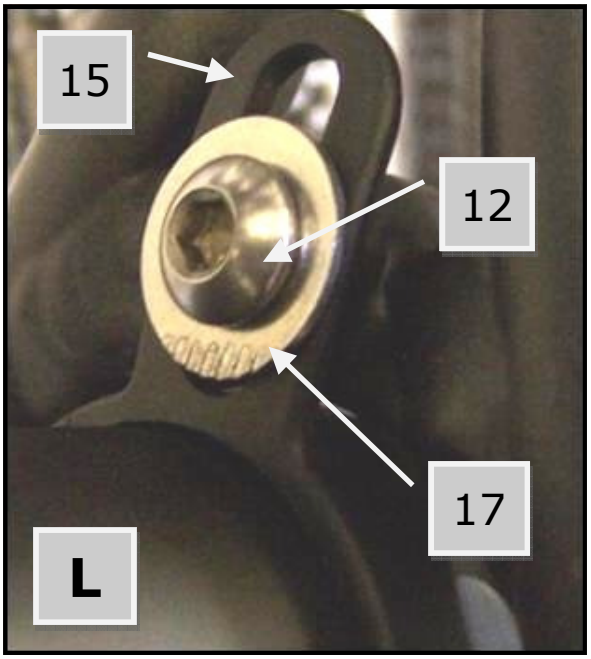
- Reference figures H & J. For a frame without a step in the seat-stay bridge hole (see Terminology). Using an M6 x 30 long button head cap-screw (16), a small washer with a Ø6 hole (9), a large washer with a Ø6 hole (17) and an M6 Ny-lock hex nut (10), attach the bridge bracket (15) to either the front or rear of the seat-stay bridge (see Terminology).



WHYTE Mudguard Assembly Instructions

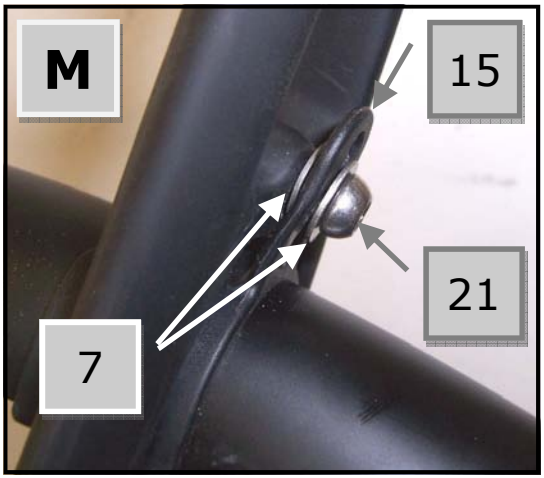
- Reference figures K & L. For a frame with a step in the seat-stay bridge hole (see Terminology). Using an M6 x 12 long button head cap-screw (12), a large washer with a Ø6 hole (17) and an M6 x 10 long cycle brake nut (18), attach the bridge bracket (15) to the rear of the seat-stay bridge (see Terminology).



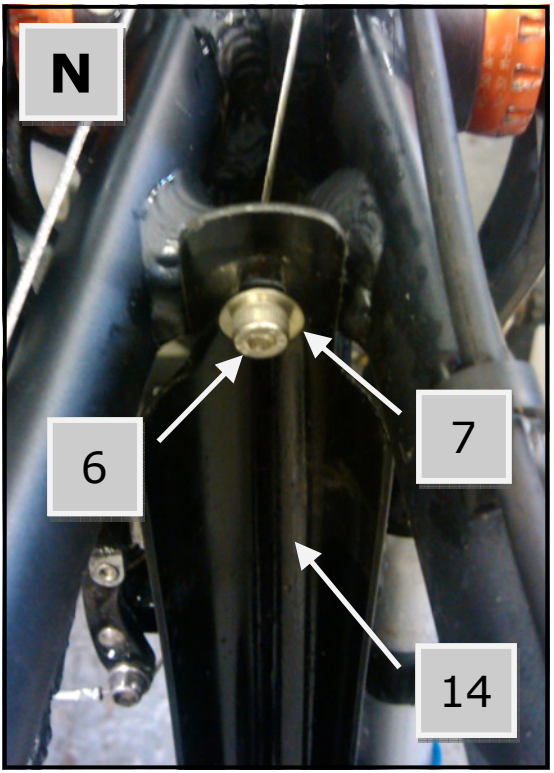


WHYTE Mudguard Assembly Instructions

- Reference Figure M. For a frame with an M5 rivet nut in the rear of the seat-stay bridge (eg: Cornwall). Slide the bridge bracket (15) on-to & around the outside of the rear mudguard (14) with the tab towards the front of the frame. Using an M5 x 16 long button head cap-screw (21) and two washers with a Ø5 hole (7), attach the bridge bracket (15) to the rear of the seat-stay bridge (see Terminology). One washer (7) should be placed either side of the bridge bracket (15).

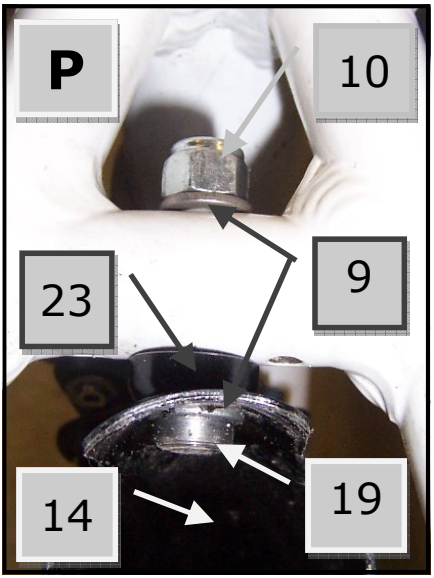


- Reference figure N. For a frame with a threaded chain-stay bridge boss (see Terminology). Using an M5 x 12 long cap-screw (6) and a washer with a Ø5 hole (7), attach the front end of the mud-guard (14) to the thread-ed hole in rear of the chain-stay bridge (see Terminology).

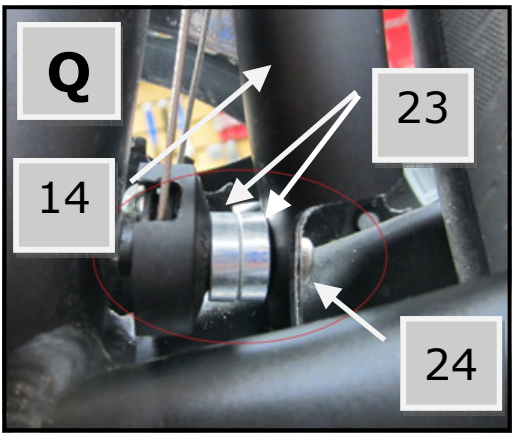


WHYTE Mudguard Assembly Instructions

- Reference figure P. For a frame with a non-threaded chain-stay bridge boss (see Terminology). Using an M6 x 35 long button head cap-screw (19), two small washers with Ø6 holes (9), a 5mm thick spacer (23) and an M6 nylock hex nut (10), attach the front end of the mudguard (14) to the open hole in the chain-stay bridge (see Terminology). Use the spacer between the bridge and the mudguard to provide clearance between the mudguard and the front derailleur (see Terminology).

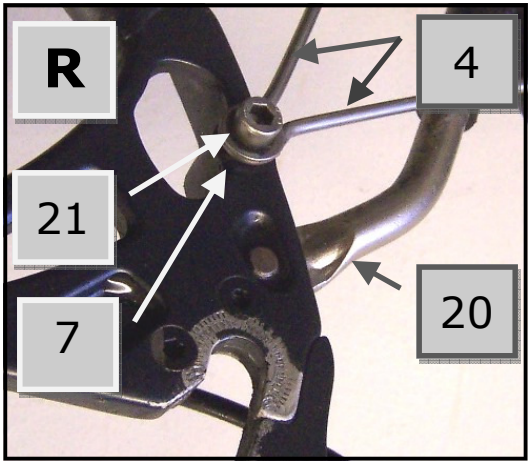


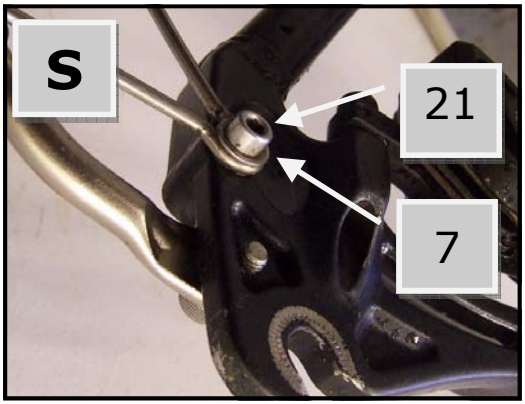
- Reference figure Q. For a frame without a chain-stay bridge, but which has a roller for the front derailleur cable (eg: 2013 Kings Cross or 2013 Charing Cross). Using an M5 x 35 long button head cap-screw (24), a washer with a Ø5 hole (7) & two 5mm thick spacers (23), attach the front end of the mudguard (14) to the seat tube through the roller.



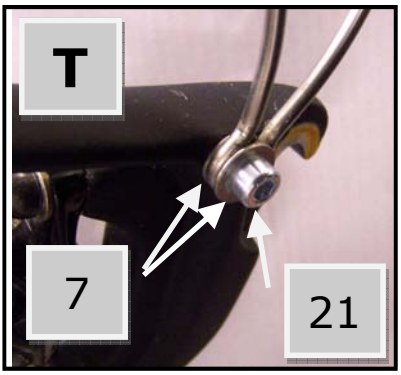
WHYTE Mudguard Assembly Instructions

- Reference figures R & S (showing the inside of each rear drop-out. Q = right side & R = left side). For frames with two M5 threaded holes in each drop-out, the side-stays (4) should be mounted on the *INSIDE* of rear drop-outs alongside the M5 threaded holes. This will allow a rear luggage carrier (20) to be fitted to the bicycle alongside the M5 threaded holes further down the drop-out.





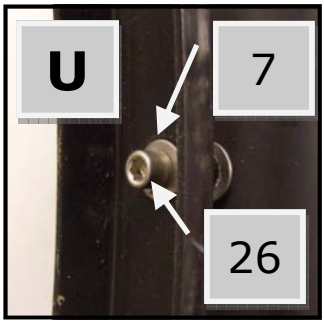
Using an M5 x 16 long button head cap-screw (21) and washer with a Ø5 hole (7), attach the looped end of the side-stays (4) to the threaded holes in each of the rear drop-outs. Ensure that the side-stays (4) are in the correct location on the mudguard (14) and then tighten both M5 x 16 long button head cap-screw (21) into the drop-outs, *BEFORE* the rear wheel is re-fitted.

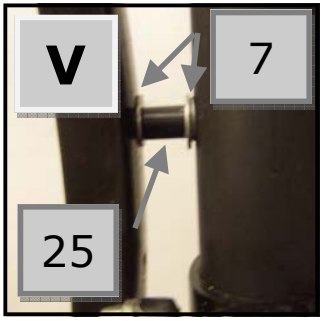


Reference figure T. For frames with one M5 threaded hole in each drop-out, the side-stays (4) should be mounted on the OUTSIDE of rear drop-outs alongside the M5 threaded holes. Also, for carbon fibre frames, fit a washer with a Ø5 hole (7) to both sides of each side-stay (4).

WHYTE Mudguard Assembly Instructions

- Reference figures U & V. For a frame with an M5 rivet nut in the rear of the seat tube (eg: Cornwall). Using an M5 x 25 long button head cap-screw (26), three washers with a Ø5 hole (7) & a 10mm long spacer (25), attach the front end of the mudguard (14) to the seat tube. One washer (7) is placed onto the head of the cap-screw (26), then passed through the upper slot in the mudguard. Then another washer (7), the spacer (25) and the third washer is placed onto the cap-screw (26) from the outside of the mudguard. Then thread the cap-screw (26) into the seat-tube rivet. Tighten the cap-screw (26) *BEFORE* the rear wheel is re-fitted.





- Refit the rear wheel (refer to page 15 of the Whyte General Instruction Manual on how to do this).

- Carefully adjust the remaining loose fixing points until the mudguard (14) sits evenly and centrally around the rear tyre, with a minimum clearance of 6mm. Then tighten the loose fasteners according to the torque values shown in the table below.

Item	Description	Torque
1	M4 x 10 long cap-screw	2.5 Nm 1.8 lbs.ft
6, 21, 22, 24 or 26	M5 x 12/16/20/25/35 long screws	5.0 Nm 3.7 lbs.ft
8	M6 x 65/60/50 long screws	10 Nm 7.4 lbs.ft
12, 16 or 19	M6 x 12/30/35 long screws	5.0 Nm 3.7 lbs.ft