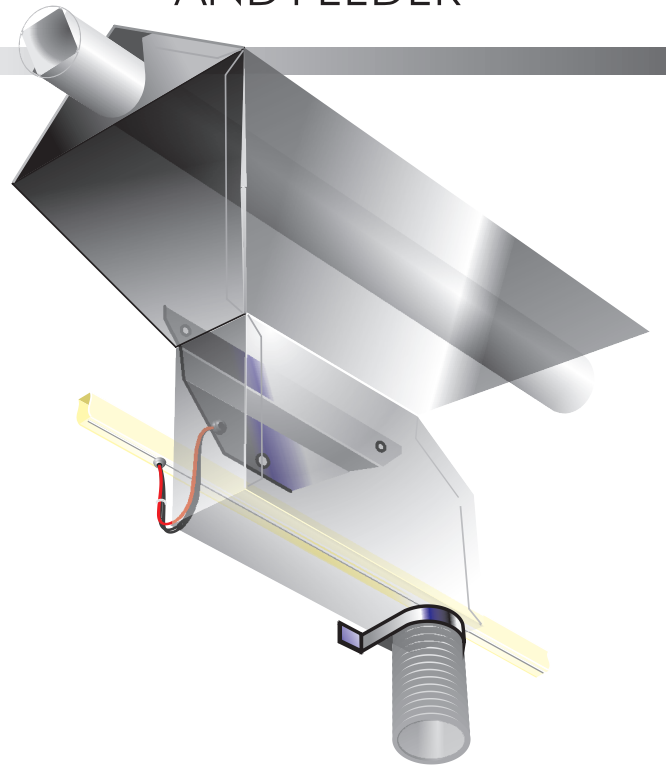




AUGER HOPPER MARK 2: AND FEEDER



ATL Agricultural Technology Limited

Place Farm Kirtling Newmarket

Suffolk CB8 9PA U.K.

Telephone: (01638)731212

International: (+44)1638 731212

Fax: (01638)731174

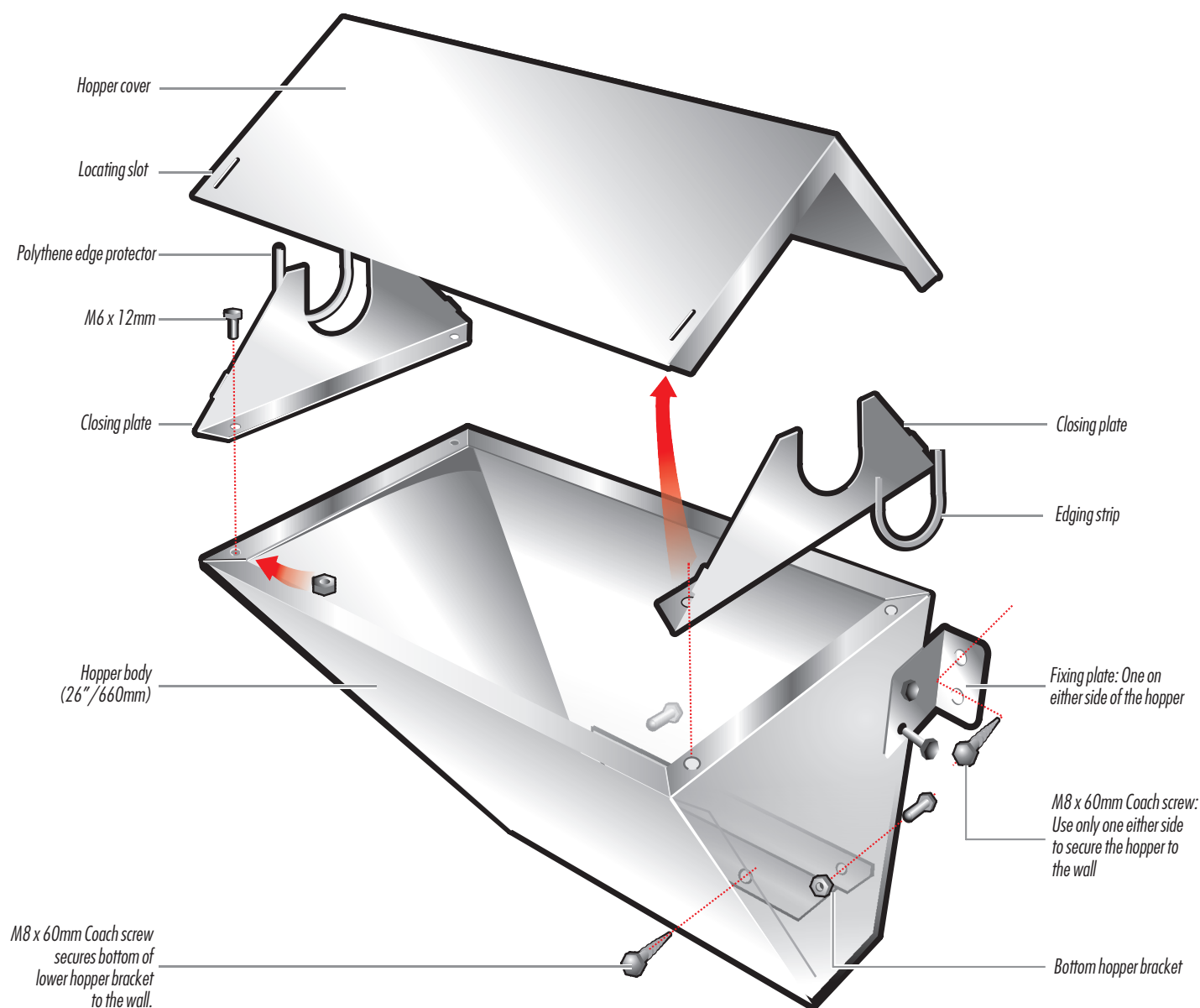
International: (+44) 1638 731174

E-mail: info@agricultural-technology.co.uk

Internet: www.agricultural-technology.co.uk



AUGER HOPPER MARK 2: AND FEEDER: 1



- 1: Fit the bottom hopper bracket using 2 off M6 x 12mm set screws and nuts.
- 2: Fit the two hopper side brackets- one on each side- using 4 x M6 x 12mm set screws and nuts.
- 3: Fit the two closing plates, flange to flange using 4 x M6 x 12mm set screws and nuts.
- 4: Fit the polythene edging strip to both auger slots in the closing plates.
- 5: Offer up the hopper assembly, mark and drill the wall (3 x M8 plastic plugs) for the two side brackets (only one fixing per bracket) and the bottom hopper bracket.
- 6: With all of the hoppers in position, the auger can be laid in the slots.
- 7: Fit the feeders: See the following pages.
- 8: Test the system.
- 9: Fit the hopper covers ensuring that the retaining tabs locate in the slots in the cover.

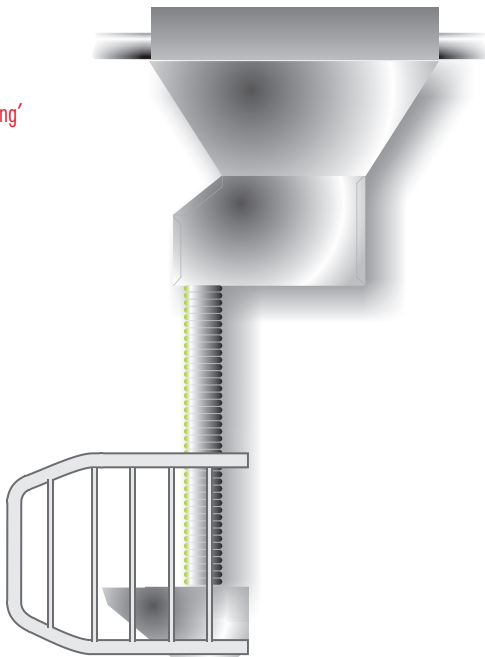


AUGER HOPPER MARK 2: AND FEEDER: 2

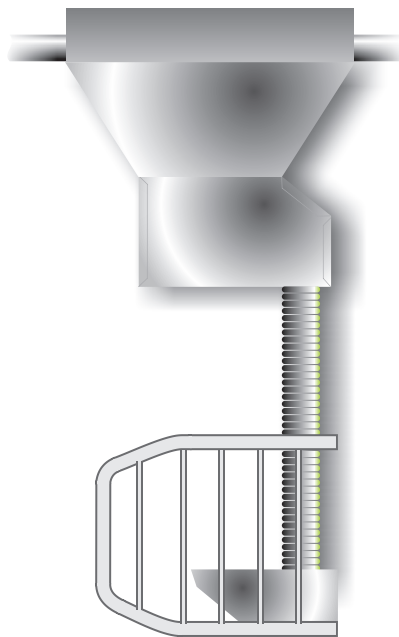
ATL Standard 12volt Timed Feeder: Hopper and Feeder arrangements:

Feeder and Auger Hopper offset from stall

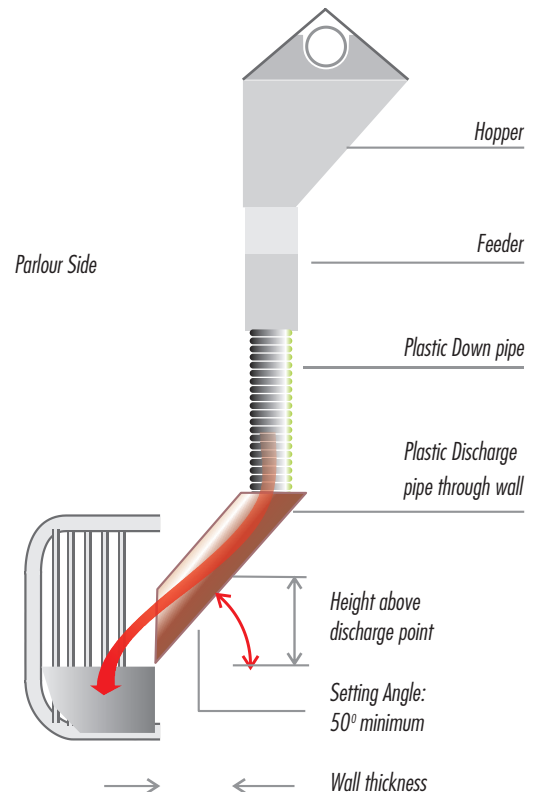
* Preferred option
prevents cows 'butting'
the feeder.



Feeder and Auger Hopper in line with stall



Feeder and Auger Hopper on the outside of the parlour



Where possible, mounting the feeders and hoppers outside the parlour reduces clutter, improves hygiene, prevents cows 'nibbling' at down pipes and from whacking feeders in the (vain) hope of dislodging a little extra cake!

But out of sight cannot mean out of mind. Fixings- especially the number of down pipe brackets must not be skimped because a hopper full of feed exerts a hefty load on the feeder.

With this arrangement, a short piece of flexible down pipe discharges into a length of slightly larger plastic pipe which is chamfered to follow the inside line of the wall and act as a 'scoop' at the outer end. The discharge into the manger must be flush with the wall.

The setting angle is important; less than 50° and cake will jam in the pipe and create a backlog. Follow the chart below for the optimum angle v wall thickness.

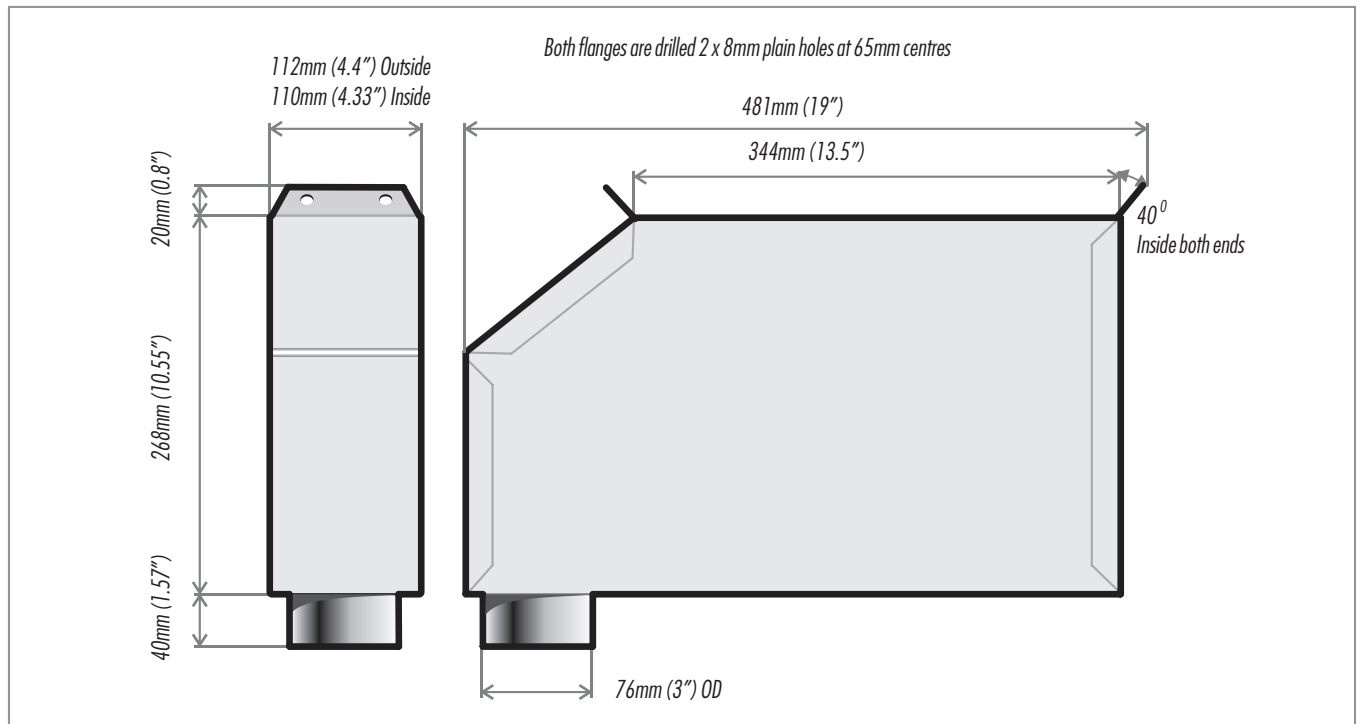
Wall Thickness:	Height above Discharge:
230mm (9")	274mm (10.8")
254mm (10")	305mm (12")
280mm (11")	335mm (13.2")
305mm (12")	365mm (14.4")
343mm (13.5")	411mm (16.2")



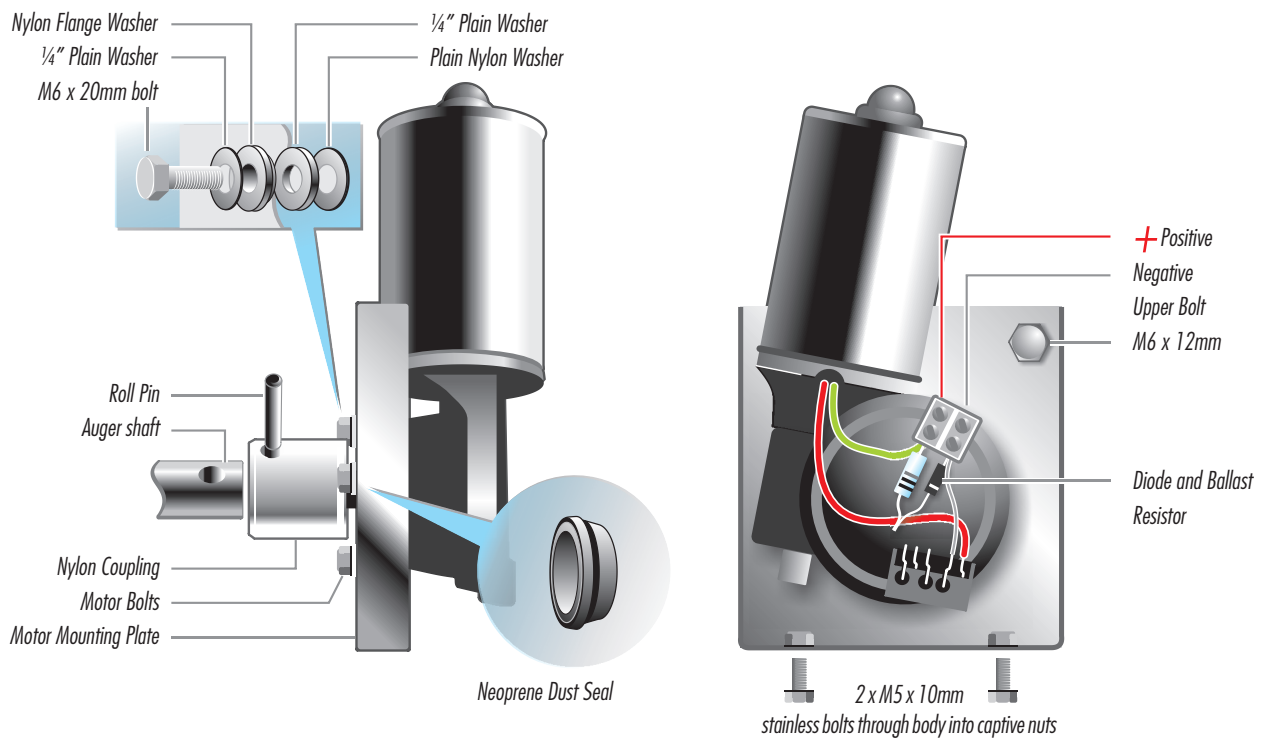
AUGER HOPPER MARK 2: AND FEEDER: 3

ATL Standard 12volt Timed Feeder.

All dimensions are nominal. For difficult, space critical installations please contact ATL before ordering.



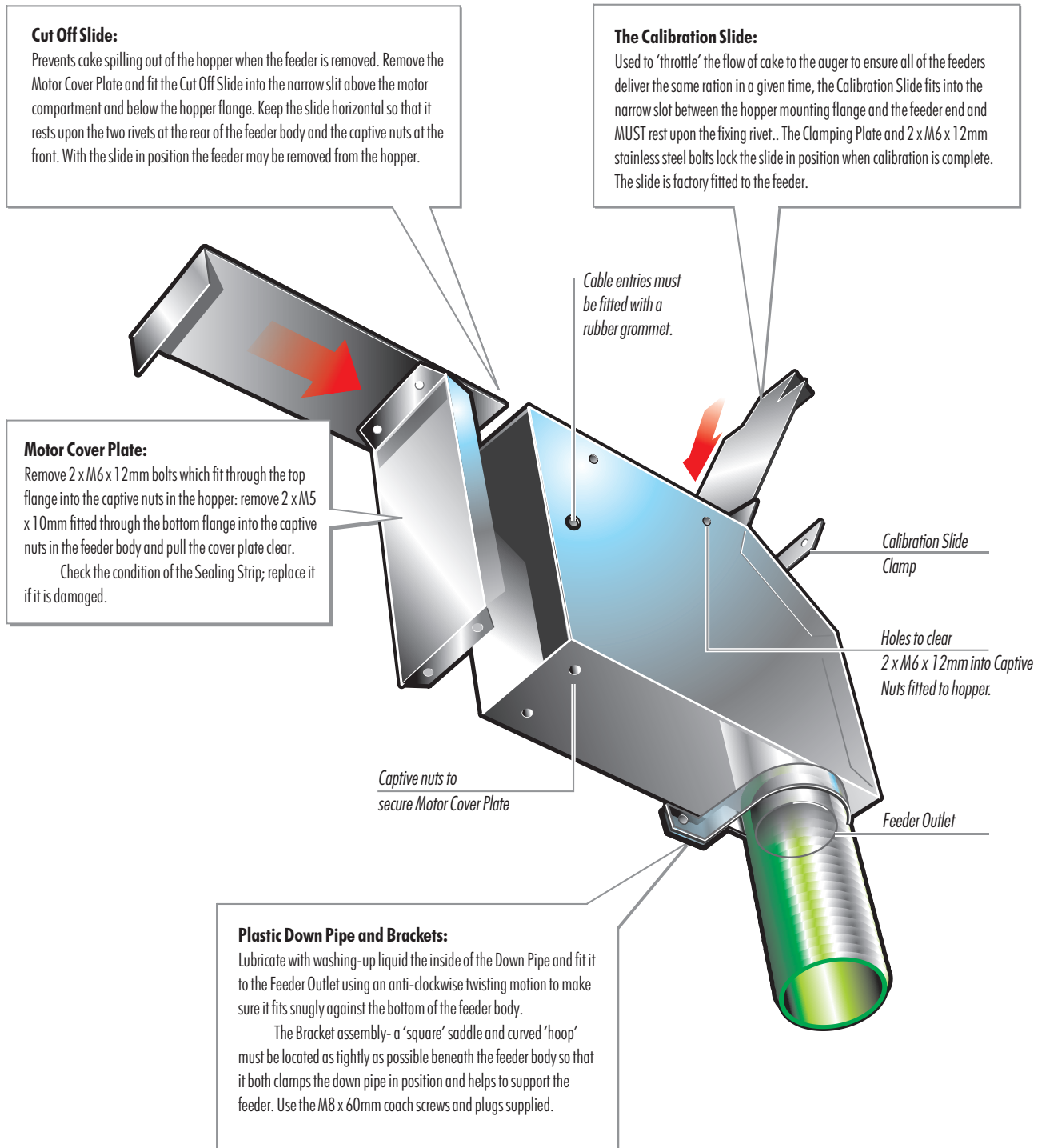
ATL Standard 12volt DC Feeder Motor Connections, Mounting Plate and Coupling details.





AUGER HOPPER MARK 2: AND FEEDER: 4

The ATL 12volt DC Electric Timed Feeder: Standard Body



ATL Standard Feeder-to-Hopper Fixing:

■ The grommet through which the feeder motor cables pass must be fitted into the side facing the wall. Do not drill additional holes through the motor cover plate.

■ Remove the motor cover plate and the calibration slide clamp plate (if fitted).

■ Offer up the feeder body and feed the motor cables through the grommet and into the motor compartment.

■ Tilt the feeder and locate the two holes in the casing rear over the two rivet heads that project from the rear of the hopper flange (A). *The hopper fits inside the feeder*

■ Straighten the feeder, align the two holes in the front top edge with the two captive nuts fitted to the hopper front flange (B).

■ Fit 2 x M6 x 12mm stainless steel screws through the feeder body and into the captive nuts.

■ Align the holes in the feeder end with the captive nuts fitted to the hopper end (D). Ease the calibration slide up so that the clamp plate can be fitted with 2 x M6 x 12mm stainless steel screws. Again, leave the screws finger tight.

■ The downpipes should be cut to the appropriate length. Smear a little washing up liquid around the inside edge of the downpipe and fit it to the feeder outlet using an anti-clockwise twisting motion. The pipe must fit tightly against the bottom face of the feeder body.

■ The top downpipe bracket must be fitted as close as possible to the underside of the feeder, clamping the downpipe and supporting the feeder. Each bracket comprises a 'square' support and a curved 'clamp' which are secured using the M8 x 60mm plugs and coach supplied.

■ Additional brackets must be fitted at no more than 500mm (20") intervals to provide acceptable support.

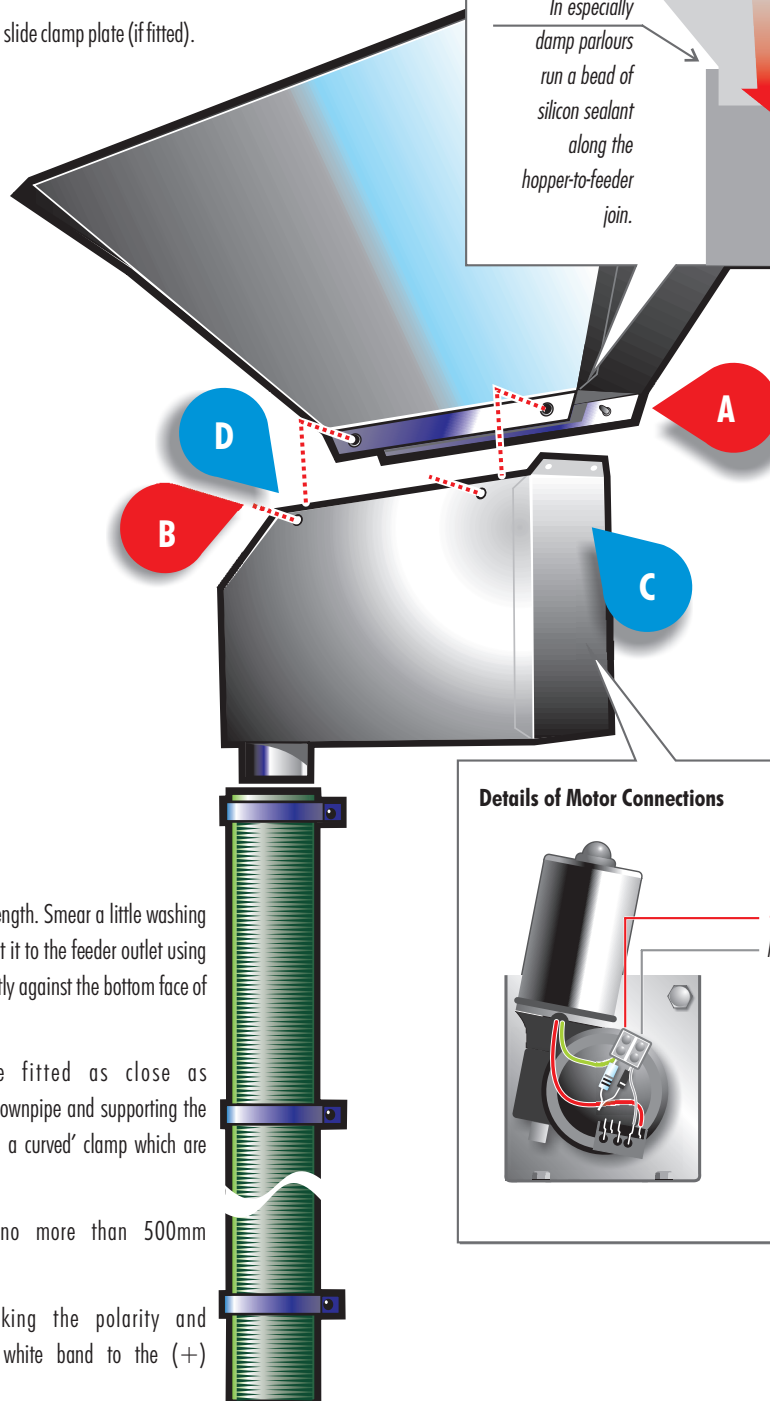
■ Connect the feeder motor cables checking the polarity and ensuring that diodes are in place and fitted correctly- the white band to the (+) supply.

■ Replace the motor cover plate securing it with 2 x M6 x 12mm (Top flange) and 2 x M5 x 10mm (Bottom flange) stainless steel screws.

■ Check that the whole assembly is 'true' and tighten all of the screws.

The Hopper ALWAYS fits INSIDE the Feeder

In especially damp parlours run a bead of silicon sealant along the hopper-to-feeder join.



Details of Motor Connections

