

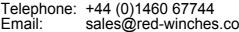
VIPER - SINGLE MOTOR WINCH WORKSHOP MANUAL WITH DRAWINGS



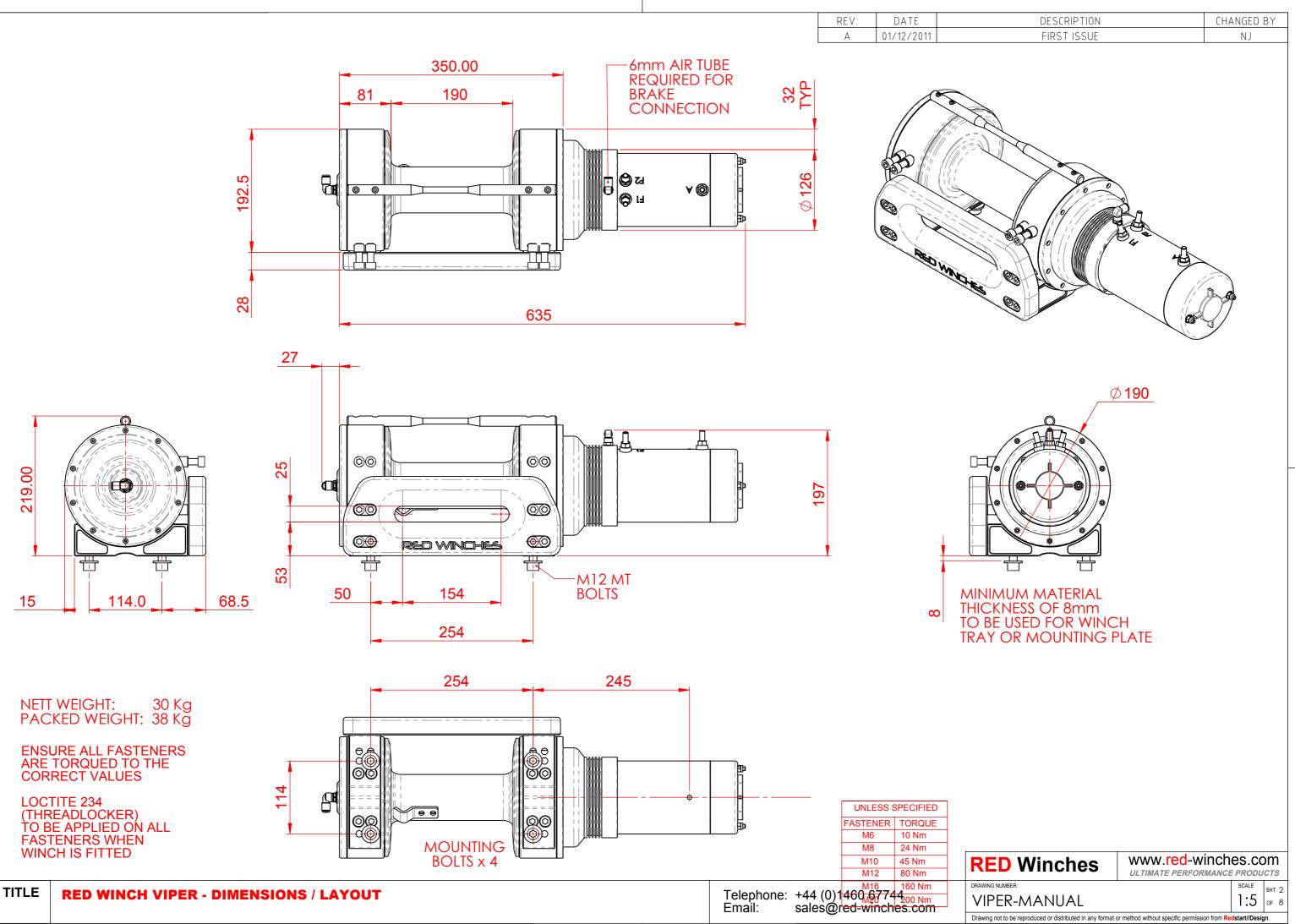
ET 1: FRONT COVER T 2: DIMENSIONS T 3: FUNCTIONS T 4: MOUNTING OPTIONS ET 5: EXPLODED VIEW ET 6: ELECTRICAL SETUP ET 7: PARTS LIST SHEET 8: LUBRICATION

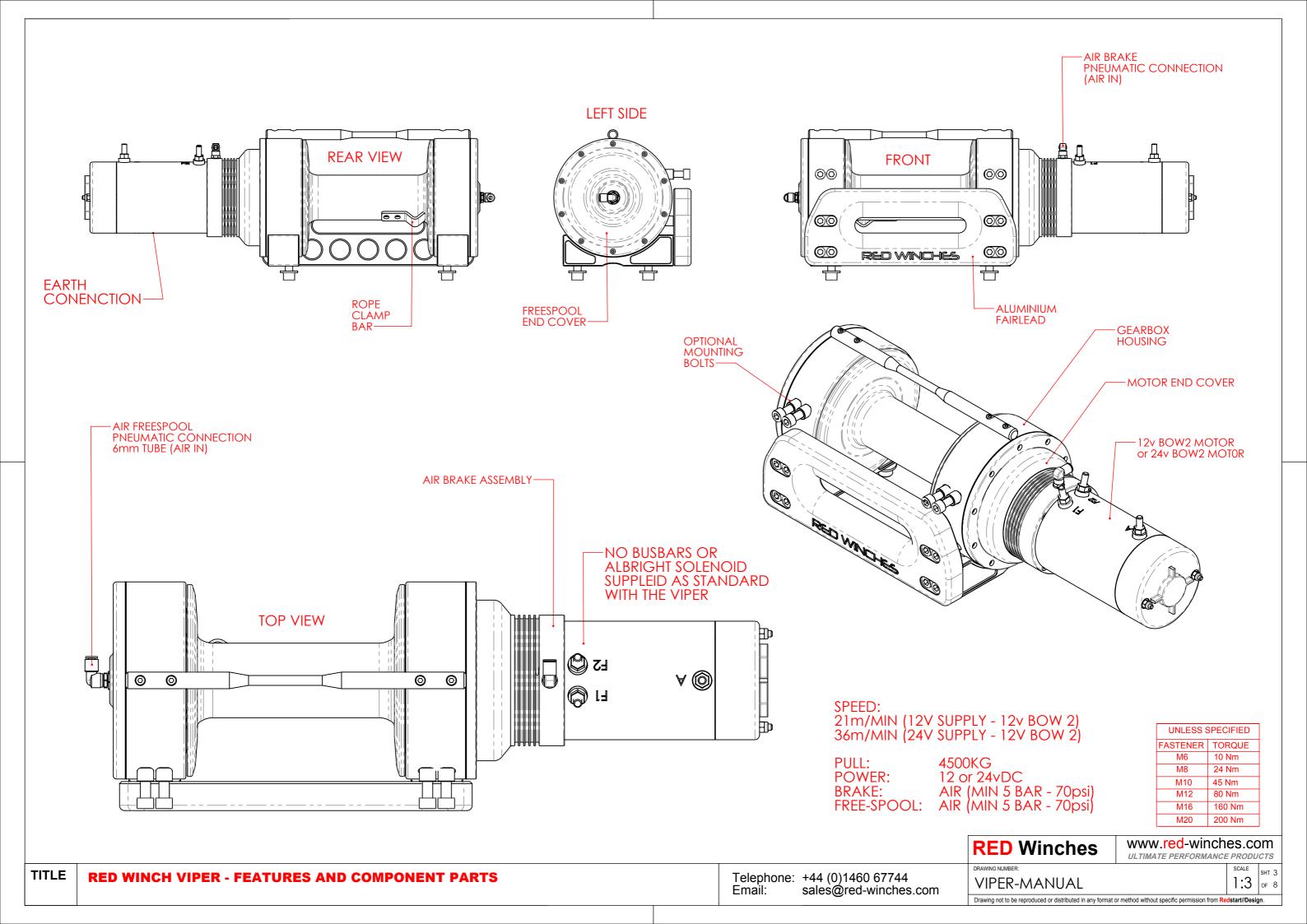
This winch is part of a group of winches whose designs have undergone extensive testing. The end user can now enjoy a professional highly engineered high performance electric winch capable of operating in the most demanding of situations. The small compact size combined with its pulling power make it an ideal winch for maximum impact when faced with minimal installation space.

TITLE	RED WINCH VIPER - TITLE PAGE	Teleph
	SINGLE MOTOR - HIGH PERFORMANCE WINCH	Email:

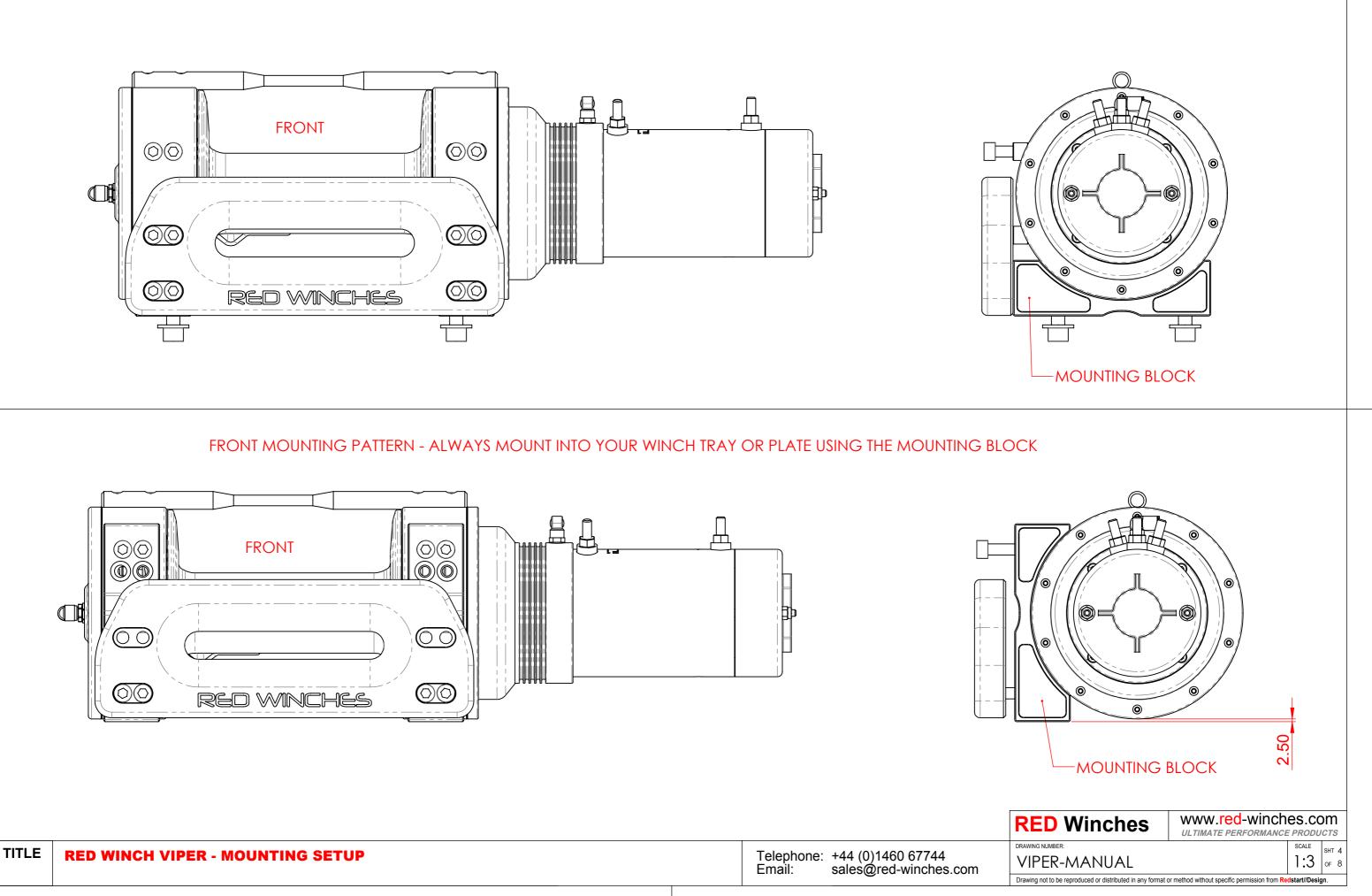


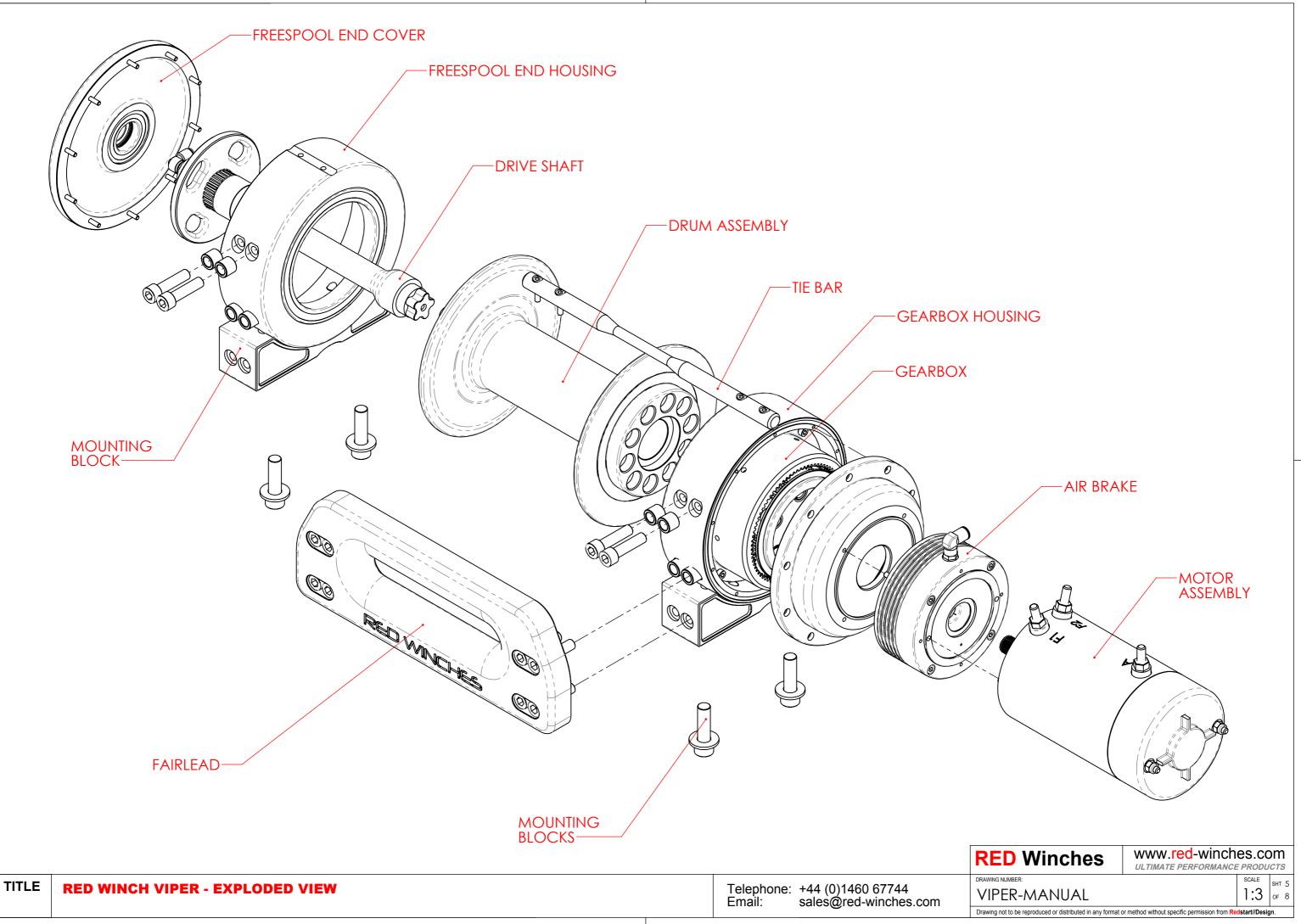
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А	01/12/2011	

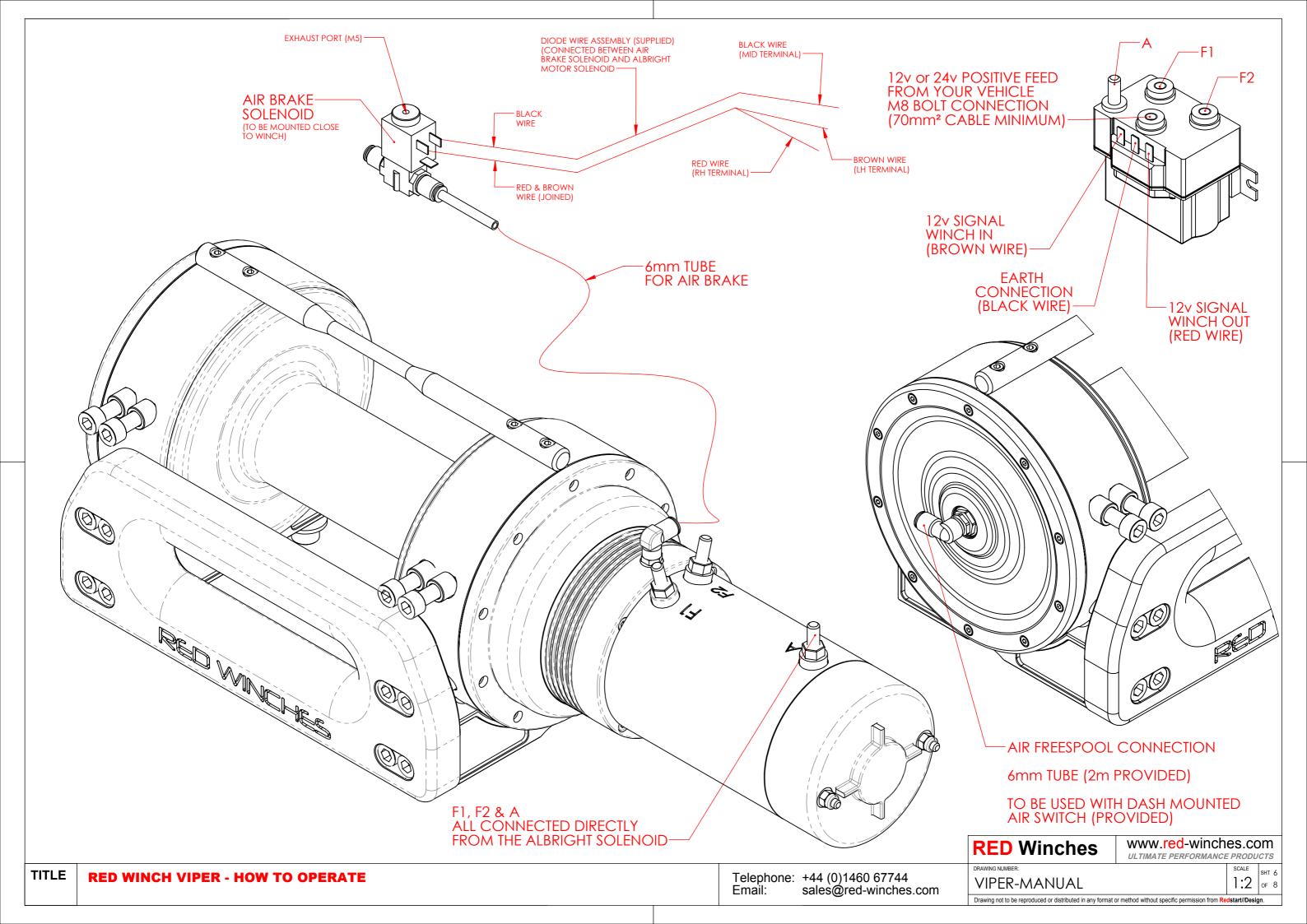




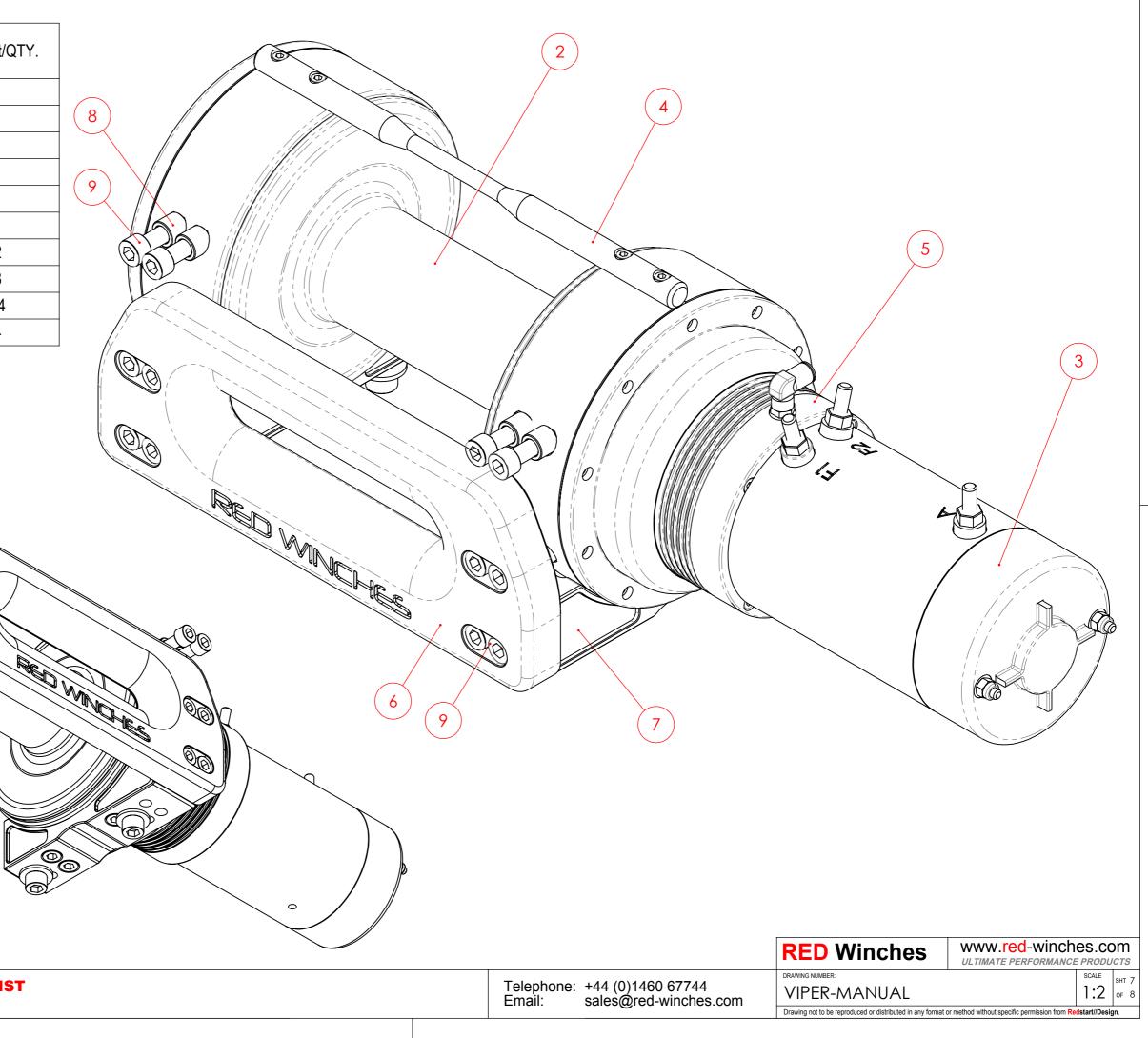
STANDARDMOUNTING PATTERN - ALWAYS MOUNT INTO YOUR WINCH TRAY OR PLATE USING THE MOUNTING BLOCK







ITEM NO.	PART / DRG NUMBER	Default/QTY.
1	VIPER-MA-12_2	1
2	VIPER-MA-14_2	1
3	VIPER-MA-17	1
4	VIPER-MA-19	1
5	VIPER-MA-22	1
6	VIPER-MD-41_2	1
7	VIPER-MD-149	2
8	VIPER-MD-150	8
9	M10 x 40	24
10	M12 FORM C	4



10

9

Lubrication Details

Grease Specification: Gearbox Castrol Spherol L-EP 2 or BP Energrease LS-EP 2

Grease Specification: Freespool Shaft Duck Oil for internal Piston Copper Grease for External Spline

As a guide Grease must be applied to the gears in the end housing and air freespool clutch plate as per the following:

The lubrication frequency is based on constant winch usage in hours per month:

1-4 Hrs - Add grease and cover gears every 6 Months 4-12 Hrs - Add grease and cover gears every 4 Months

This is based on dry above water level conditions. If winch has been used within water or wet muddy ground for more than 50% of the hours specified the greasing frequency needs to be increased to half of those shown in the above chart. Every 12 months the internals of the winch gearbox and freespool should be cleaned and the grease should be replaced.

Important: Freespool must be cleaned and internal parts sprayed with duck oil after the winch has been submerged in mud or water for long periods of time. The gearbox must also be inspected for water ingress and greased if necessary.



RED Winches RAWING NUMBER VIPER-MANUAL

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