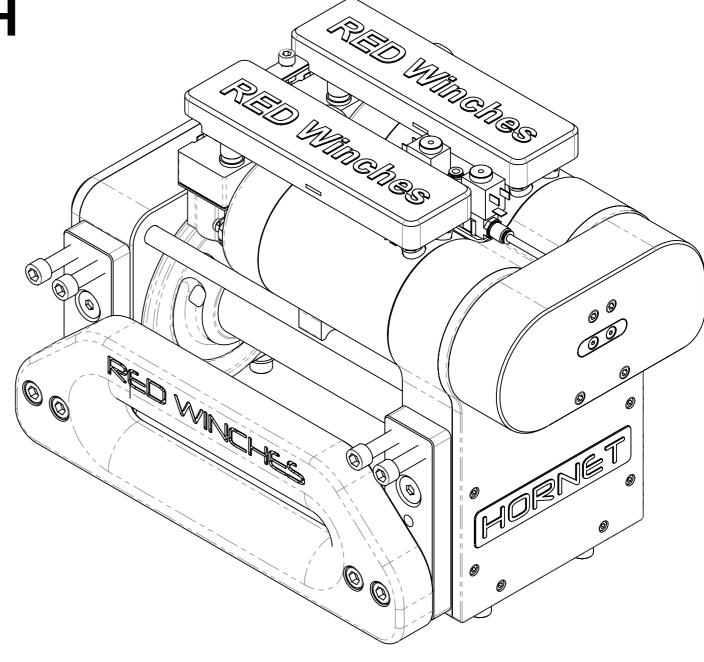
## **RED** Winches

**HORNET TWIN MOTOR WINCH WORKSHOP MANUAL WITH DRAWINGS** 



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

SHEET 1: FRONT COVER **DIMENSIONS** 

EET 3: MOTORS & BRAKE REMOVE EET 4: DRIVE SHAFT AND FREESPOOL

SHEET 5: AIR BRAKE ASSEMBLY SHEET 6: MOTOR ASSEMBLY EET 7: ELECTRICAL SCHEME

**SHEET 8: LUBRICATION** 

INSPECTION SHEET

**RED** Winches

www.red-winches.com ULTIMATE PERFORMANCE WINCH

**WINCH** TYPE

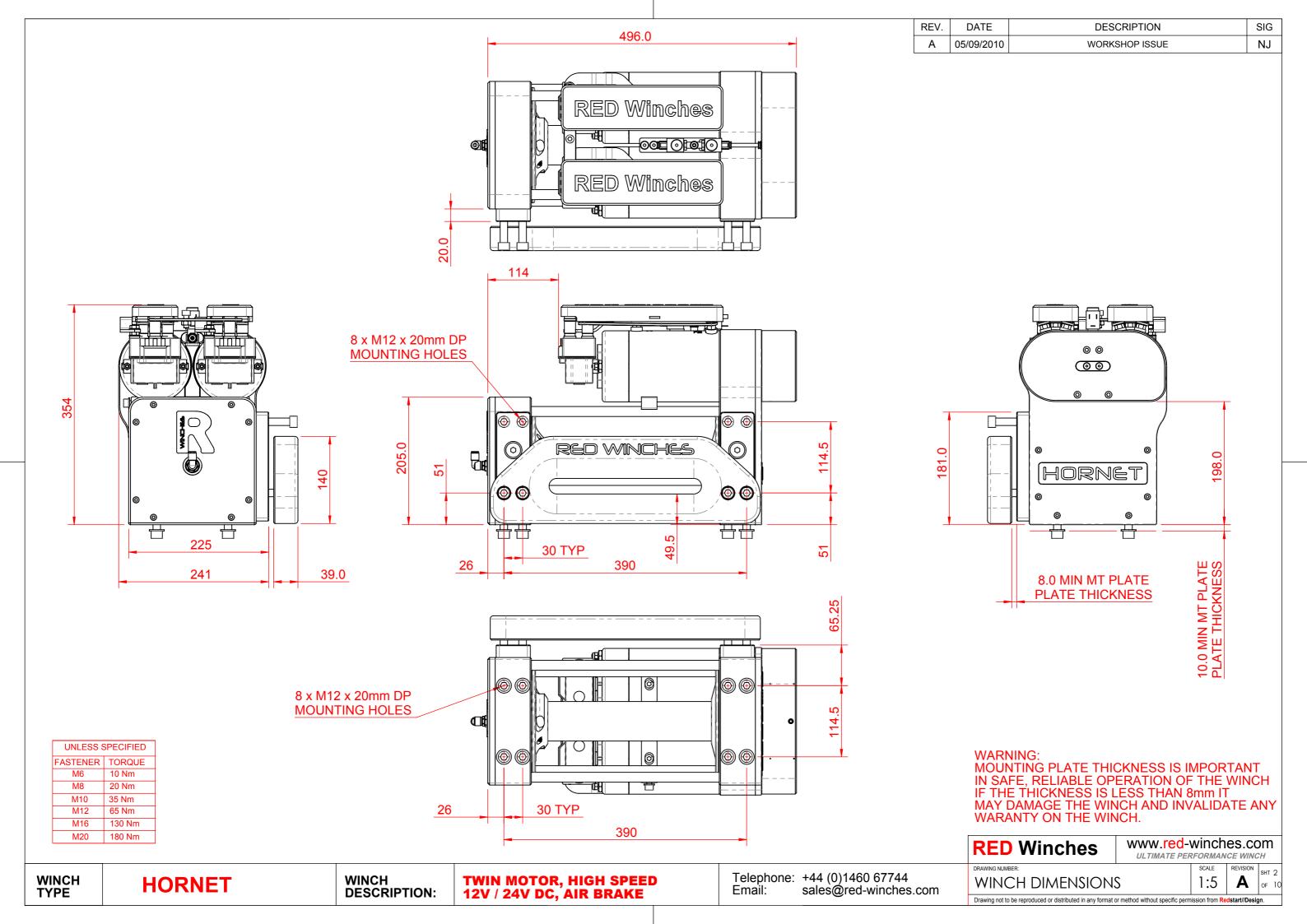
**HORNET** 

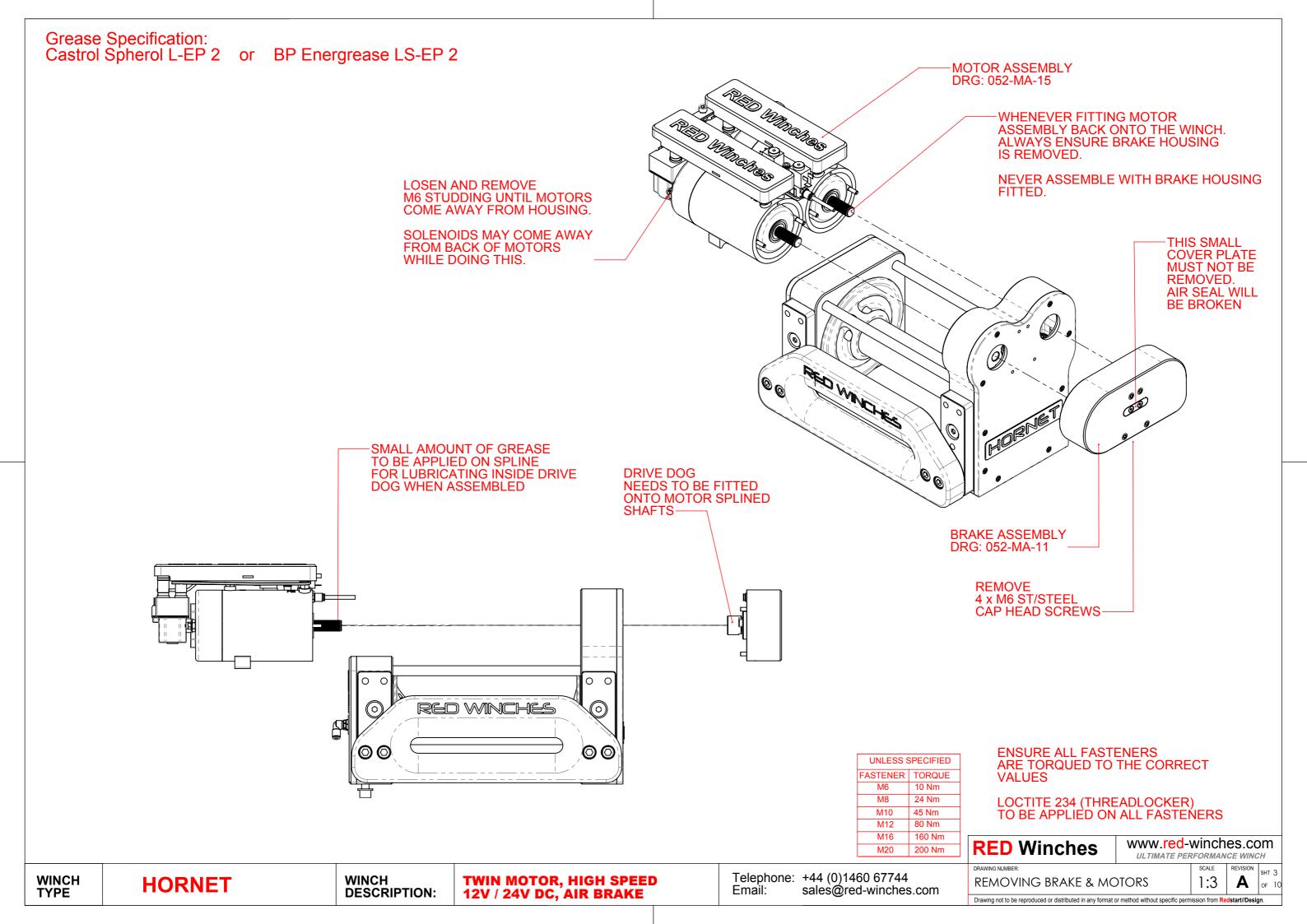
**WINCH DESCRIPTION:**  TWIN MOTOR, HIGH SPEED 12V / 24V DC, AIR BRAKE

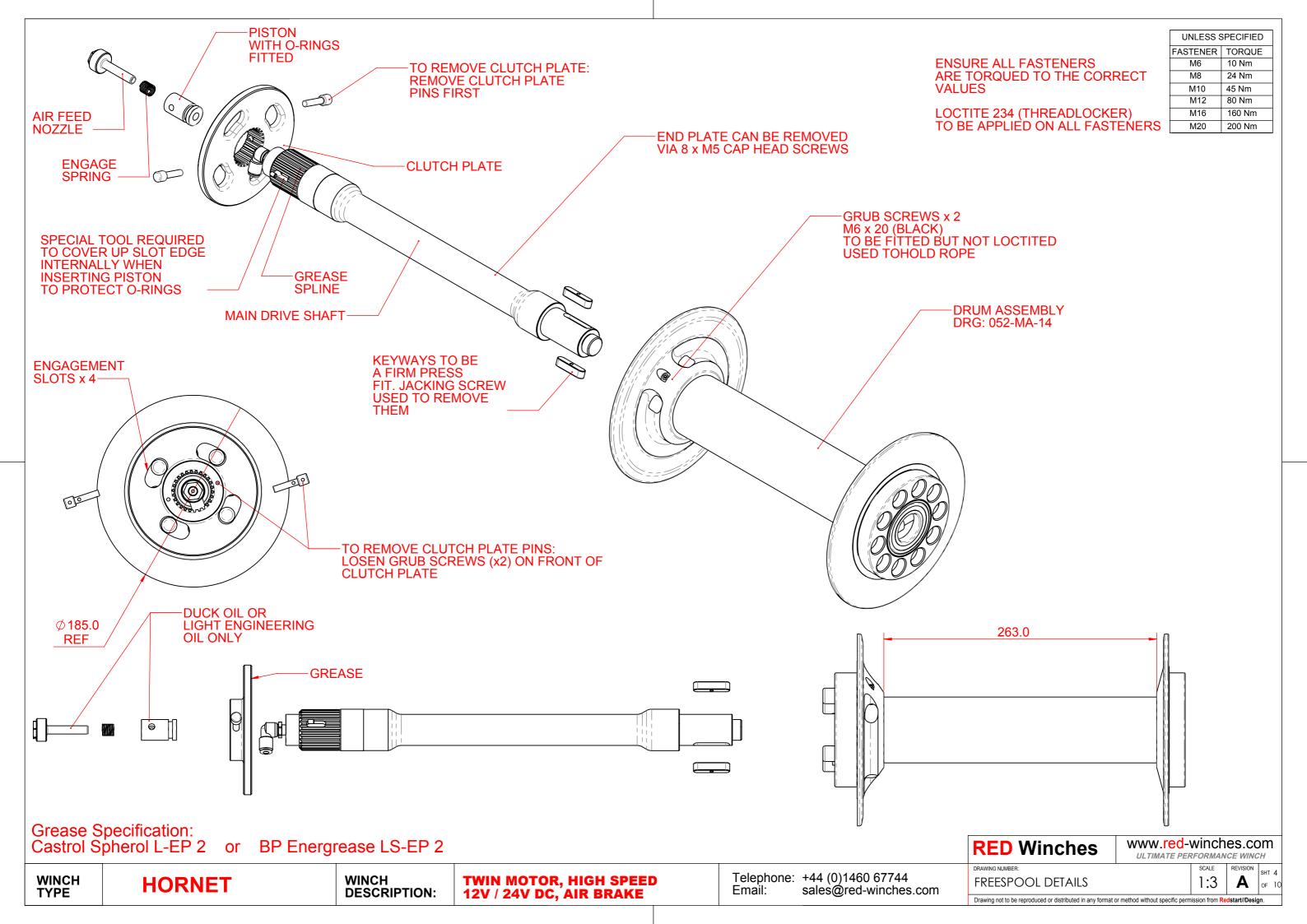
Telephone: +44 (0)1460 67744 sales@red-winches.com

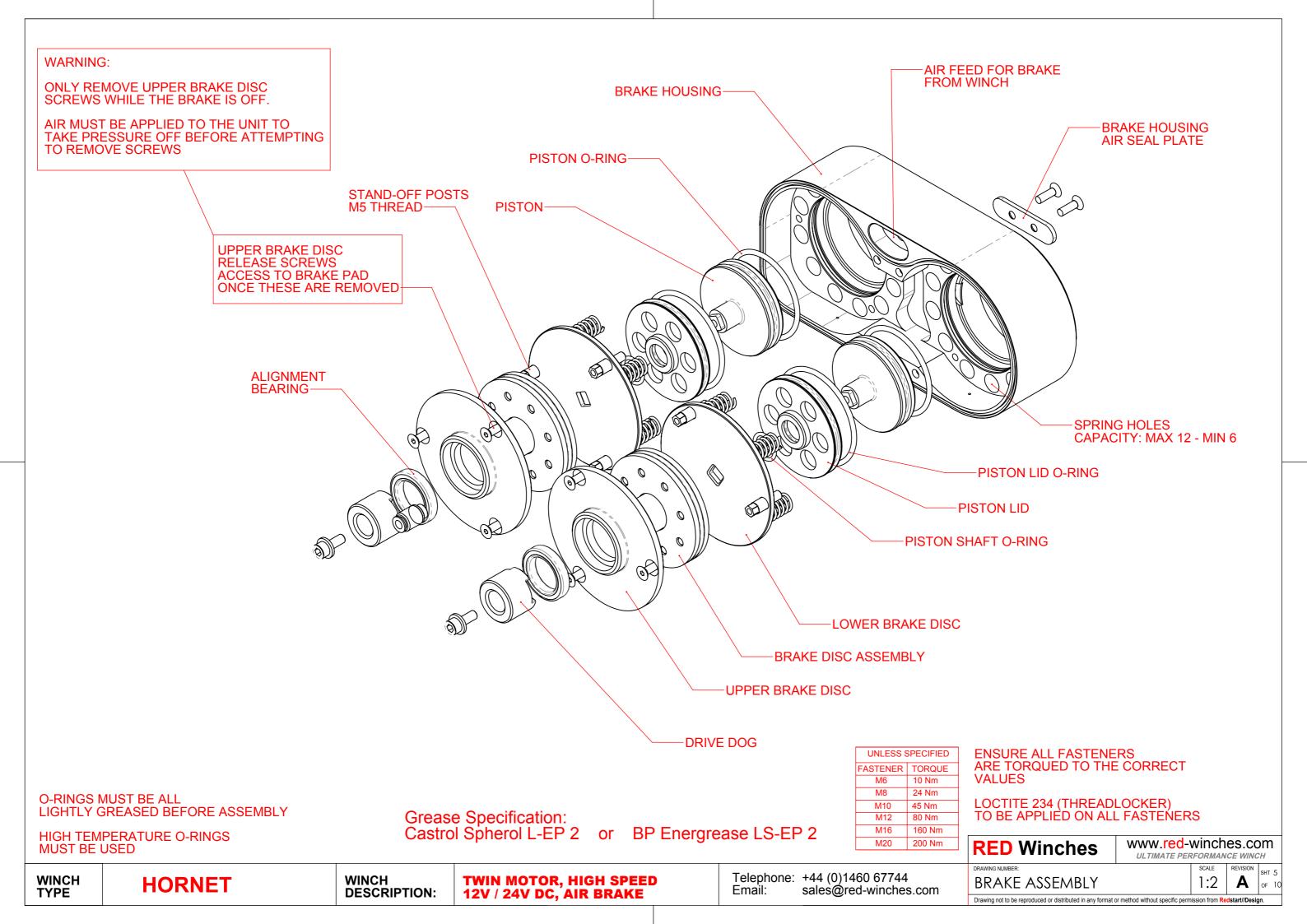
**WORKSHOP MANUAL** 

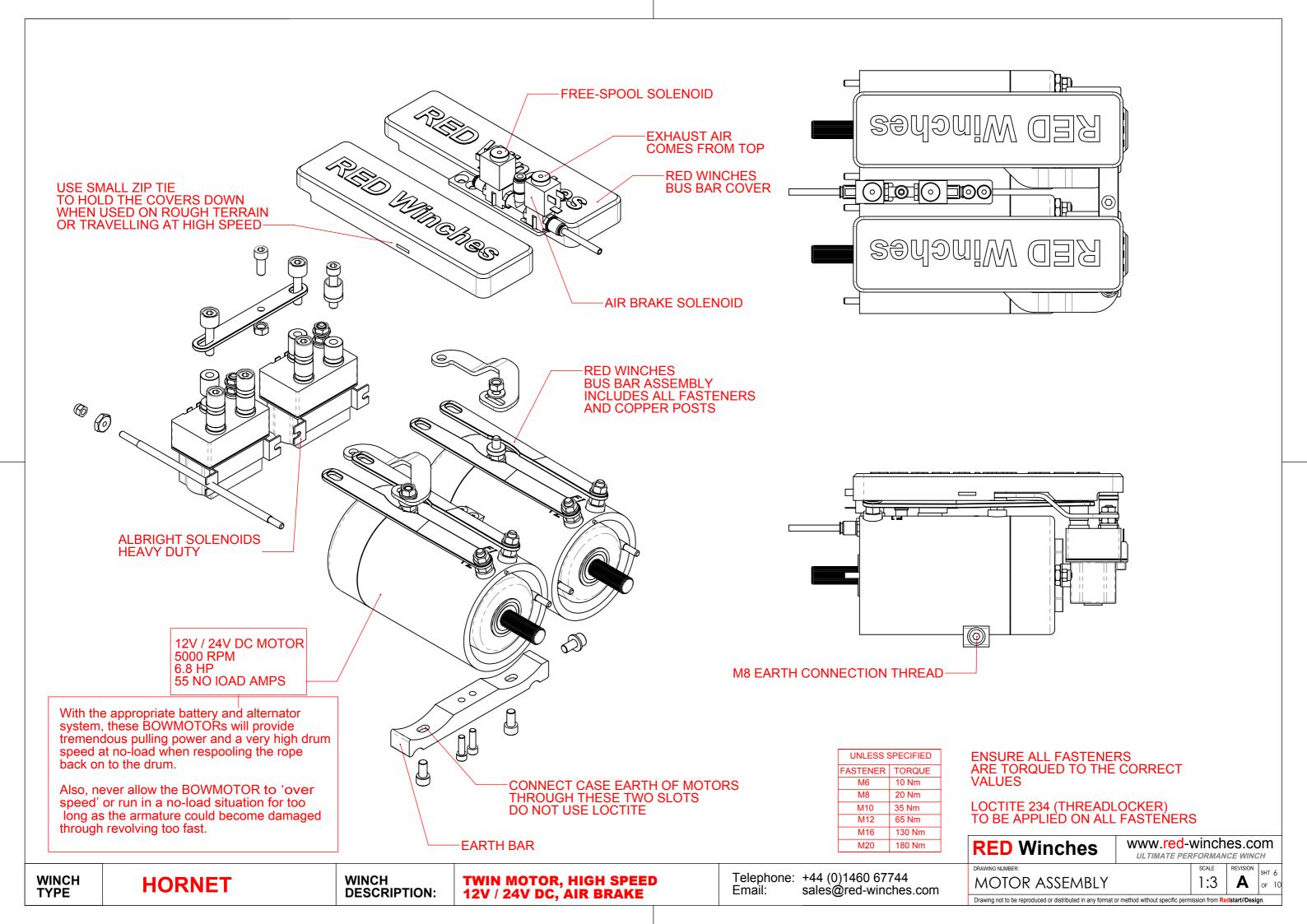
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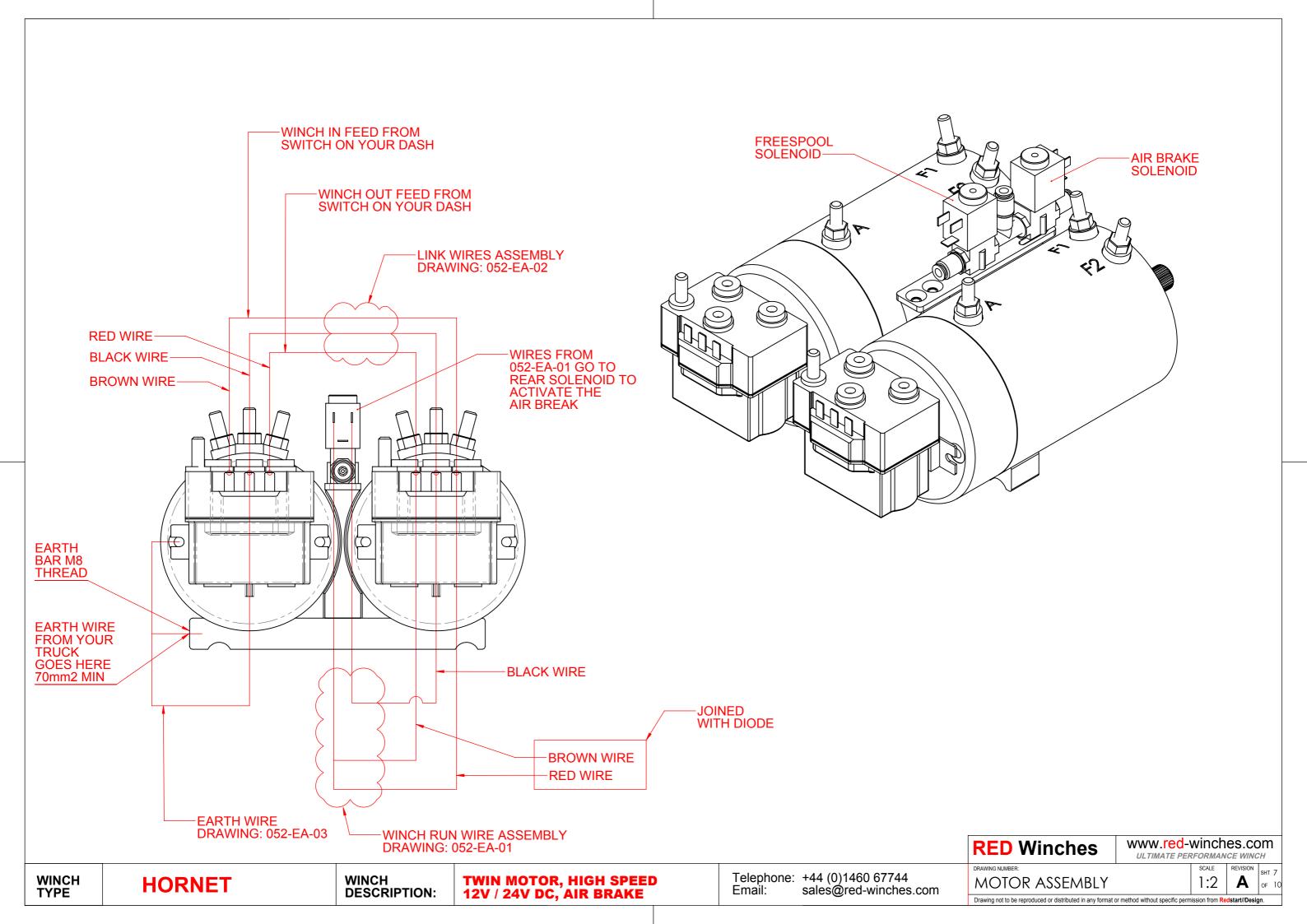


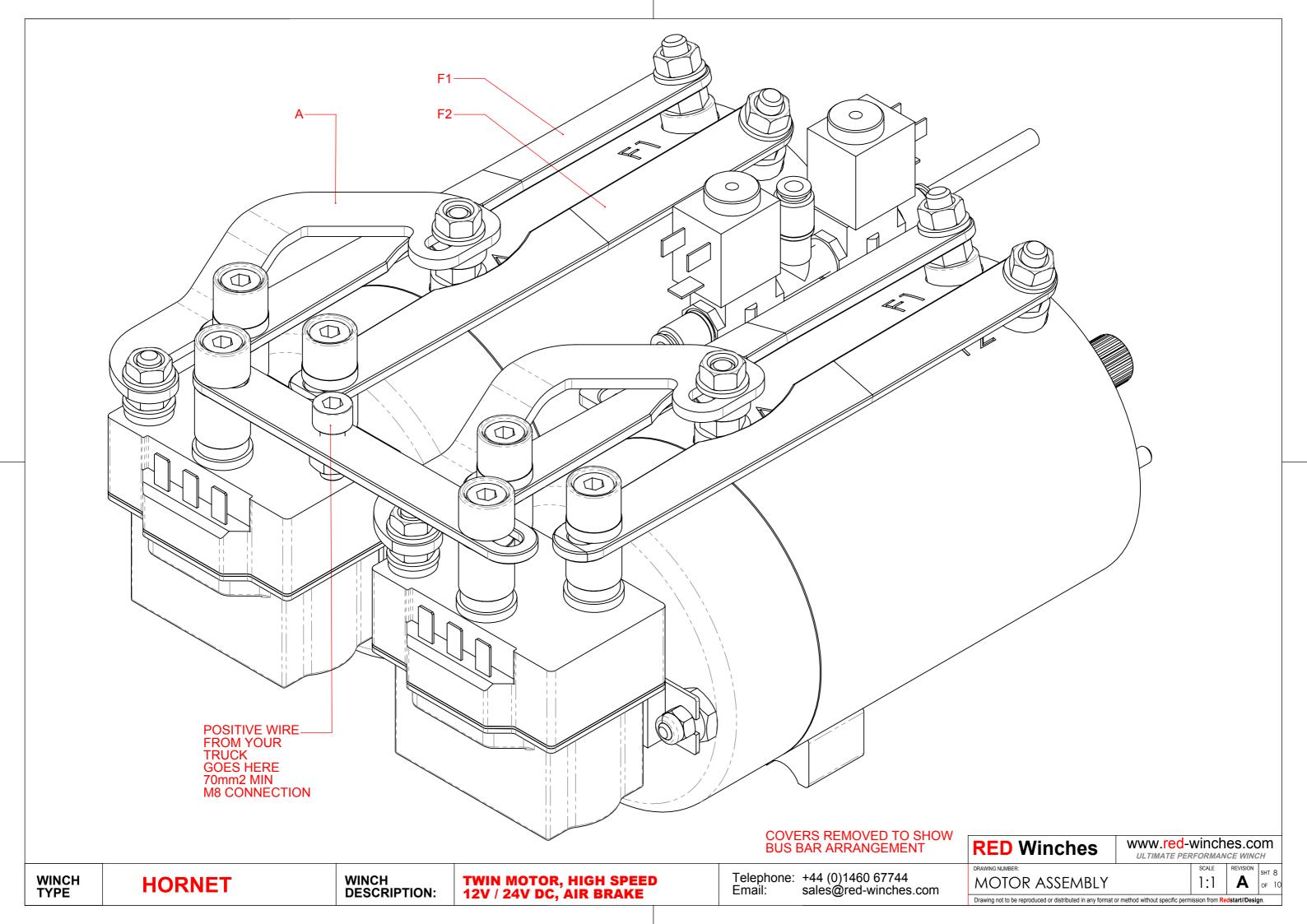












## **Lubrication Details**

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

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 3 Months

4-12 Hrs - Add grease and cover gears every 2 Months
12-20 Hrs - Clean and Replace Grease Every Month
20-40 Hrs - Clean and Replace Grease Every 2 Weeks

This is based on dry above water level conditions.

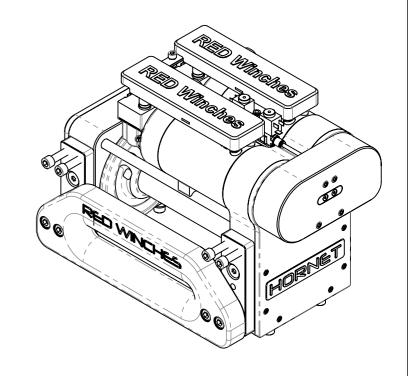
If winch has been used within water or wet muddy ground for more than 50% of the hours specified the greasing frequency needs to be increased to half of those shown in the above chart.

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 sprayed with duck oil after the winch has been submerged in mud or water...

**RED** Winches

DESCRIPTION	COMPLETED YES / NO	NOTES
ALL BOLTS AND SCREWS FITTED CORRECTLY	1207110	
ALL BOLTS AND SCREWS (APART FROM THOSE INDICATED) SECURED WITH LOCTITE 234		
ALL BOLTS AND SCREWS FITTED CORRECTLY AND TIGHTENED TO THE CORRECT TORQUE SETTING		
GEARS FULLY GREASED AND MINIMUM OF 1" OF GREASE IN LOWER PART OF CASE		
AIR BRAKE ASSEMBLY LIGHTLY GREASED AND ALL O-RINGS FITTED.		
AIR BRAKE ASSEMBLY FULLY TESTED TO ENSURE BRAKE PADS ARE FREE TO ROTATE WITH NO HIGH SPOTS WHEN AIR IS APPLIED AND THE BRAKES ARE OFF.		
AIR SOLENOIDS CHECKED FOR LEAKS. ENSURE THREADLOCKKING IS NOT LEAKING AIR		
AIR FREESPOOL GREASED ON SPLINE AND DISC. DUCK OIL APPLIED INTERNALLY ON O-RINGS AND PISTON.		
AIR FREESPOOL FUNCTION TESTED AT LEAST 20 TIMES. TO WORK EVERY TIME OTHERWISE STRIP DOWN AND CHECK.		
WIRING TESTED PRIOR TO ASSEMBLING ON WINCH.		
WINCH POWERED AND TESTED IN BOTH DIRECTIONS. AIR FREESPOOL AND BRAKE SOLENOID CHECKED TO ENSURE CORRECT OPERATION.		
BUS BAR ARRANGEMENT CHECKED FOR CONTINUITY. ZIP TIES FITTED ON COVERS		



NAME OF ENGINEER BUILT / PERFORMED FIANL CHECKS	SIGNATURE	WINCH SERIAL NUMBER

**RED** Winches

www.red-winches.com
ULTIMATE PERFORMANCE WINCH

**HORNET** 

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PUMP TYPE