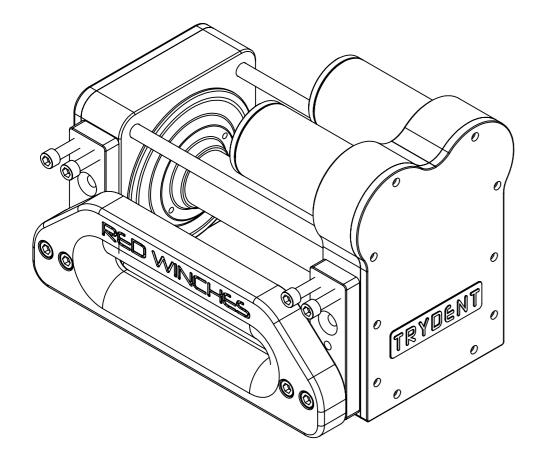
# **RED** Winches **TRYDENT - HYDRAULIC TWIN MOTOR WINCH WORKSHOP MANUAL WITH DRAWINGS**

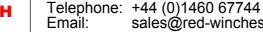


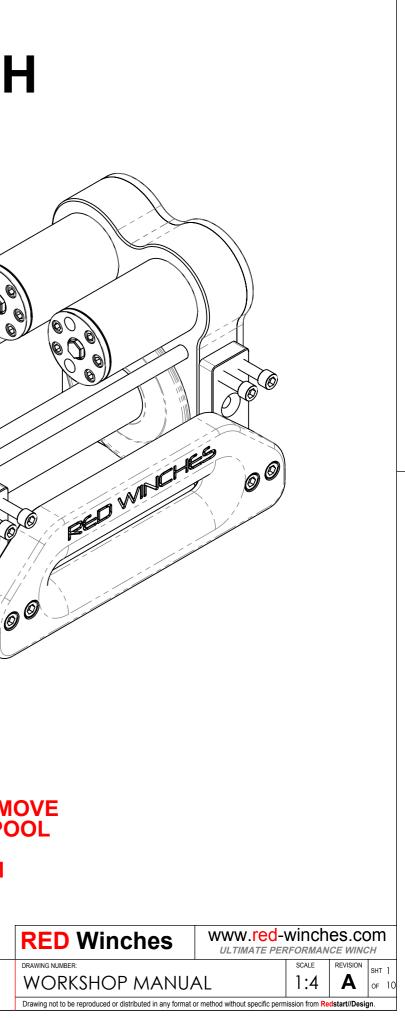
This winch is part of a group of winches whose designs have undergone extensive testing. The end user can now enjoy a professional highly engineered high performance hydraulic winch capable of operating in the most demanding of situations. The small compact size combined with its pulling power make it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

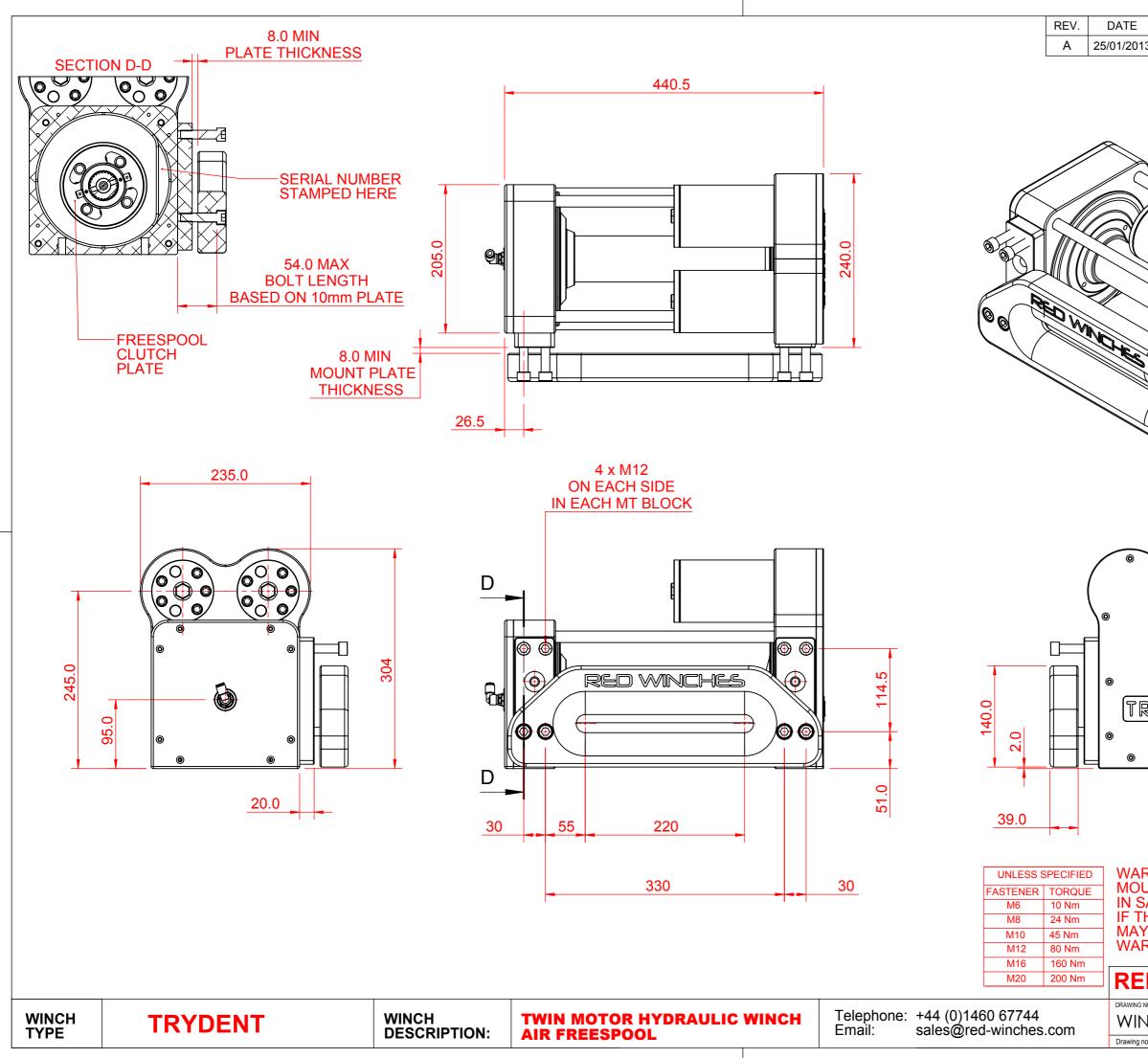
SHEET 1: FRONT COVER ET 2: DIMENSIONS ET 3: MOTORS & END PLATE REMOVE EET 4: DRIVE SHAFT AND FREESPOOL ET 5: HYDRAULIC SYSTEM ET 6: HYDRAULIC PUMP SYSTEM SHEET 7: LUBRICATION INSPECTION SHEET

**WINCH** TYPE

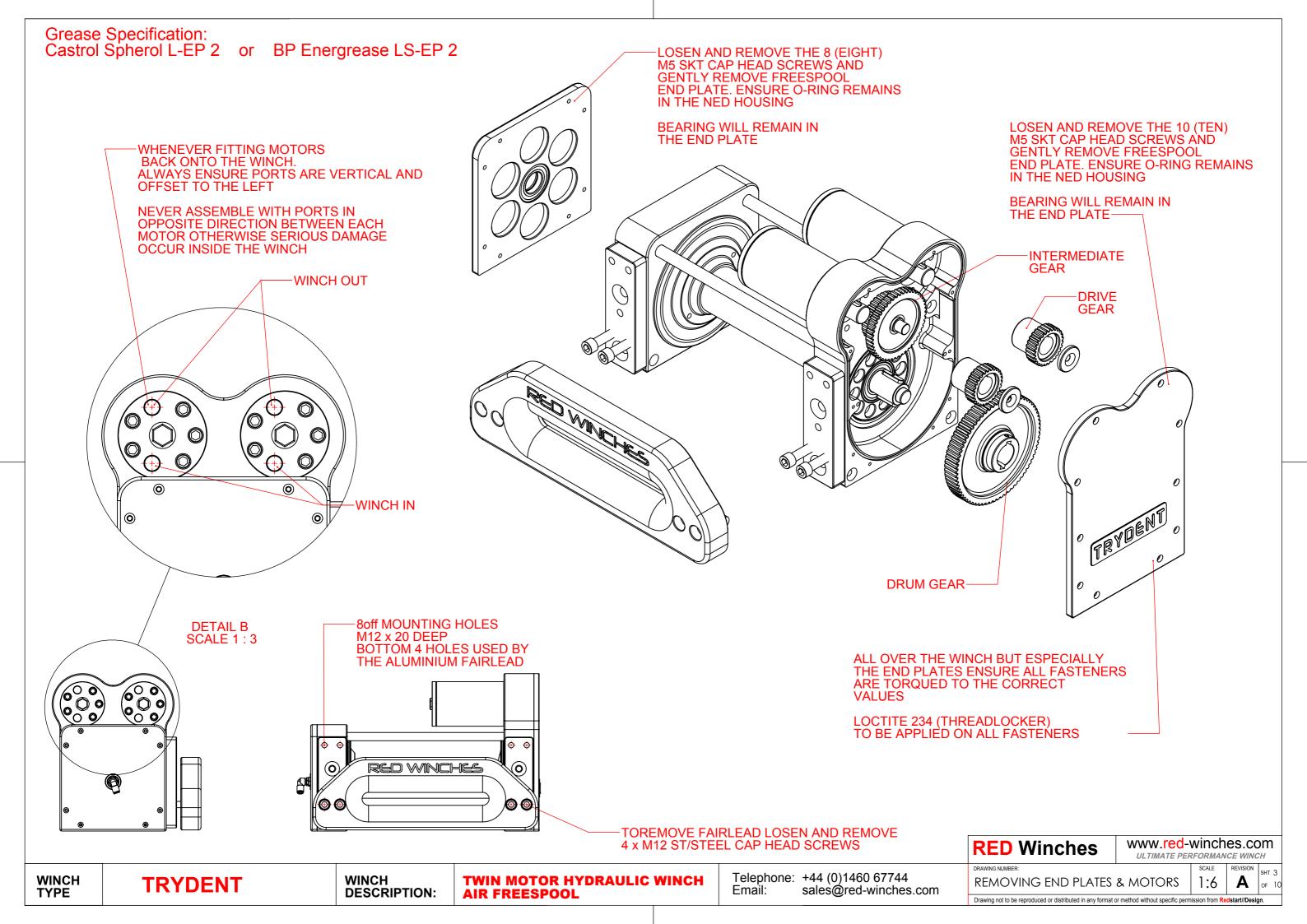
TWIN MOTOR HYDRAULIC WINCH AIR FREESPOOL

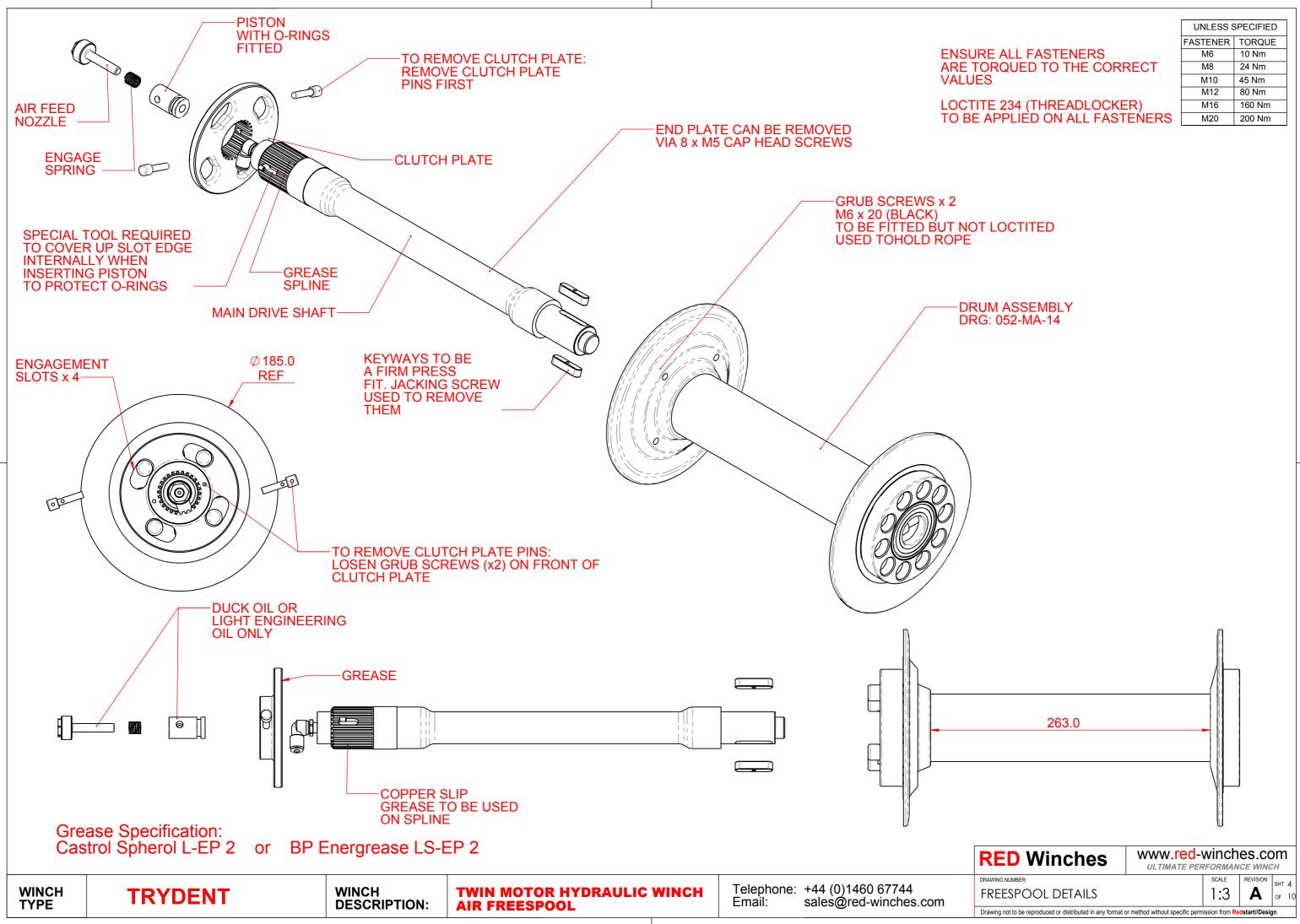






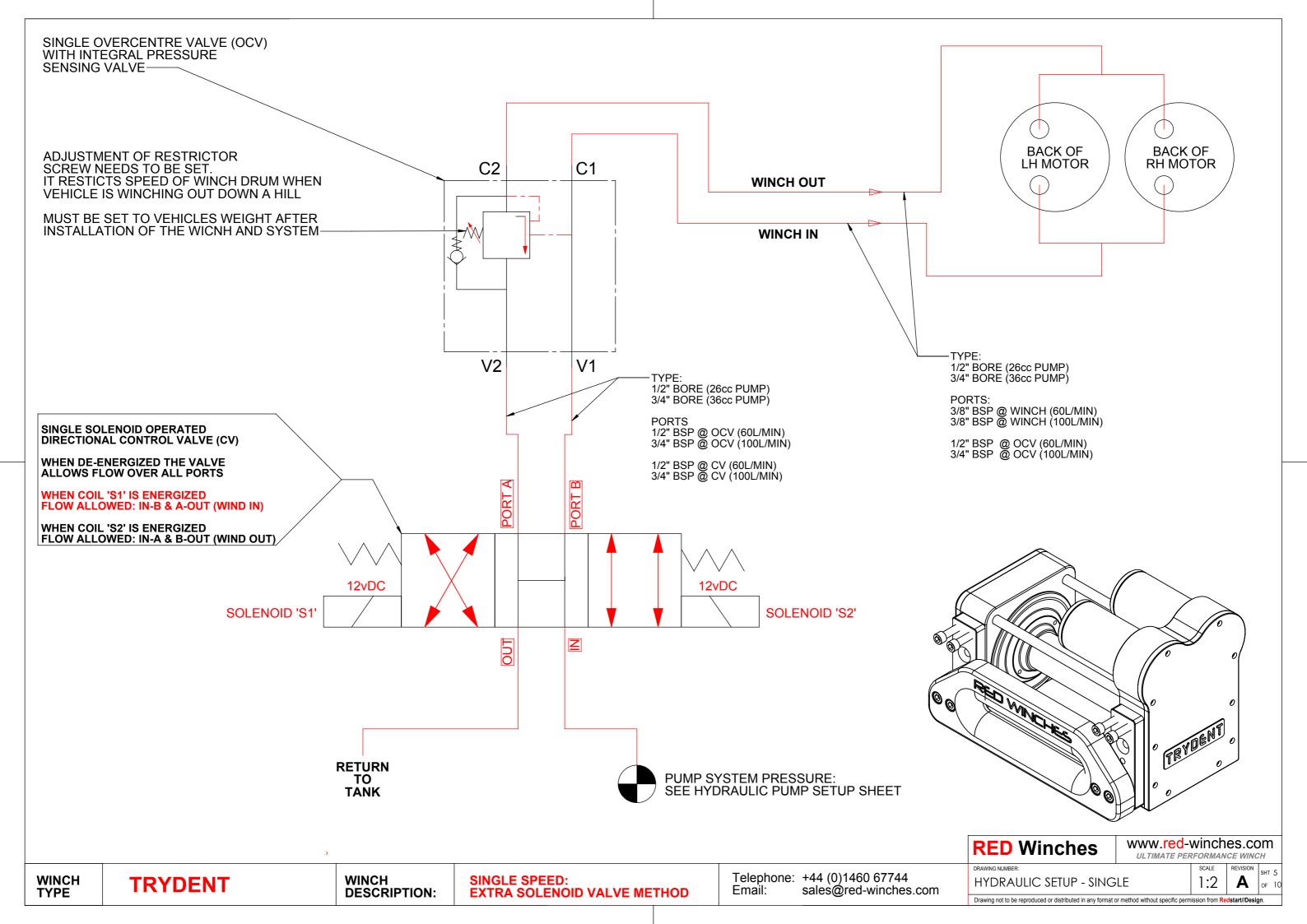
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IOUNTING PLATE THICKNESS IS IMPOR N SAFE, RELIABLE OPERATION OF THE THE THICKNESS IS LESS THAN 10mm IAY DAMAGE THE WINCH AND INVALIDA VARANTY ON THE WINCH.	WINCH IT ATE ANY
KED Winches         www.red-winch           wing number:         ultimate performan           wing number:         scale           ultimate performan         1:5	REVISION SHT 2
VINCH DIMENSIONS 1:5 wing not to be reproduced or distributed in any format or method without specific permission from Re	A OF 10

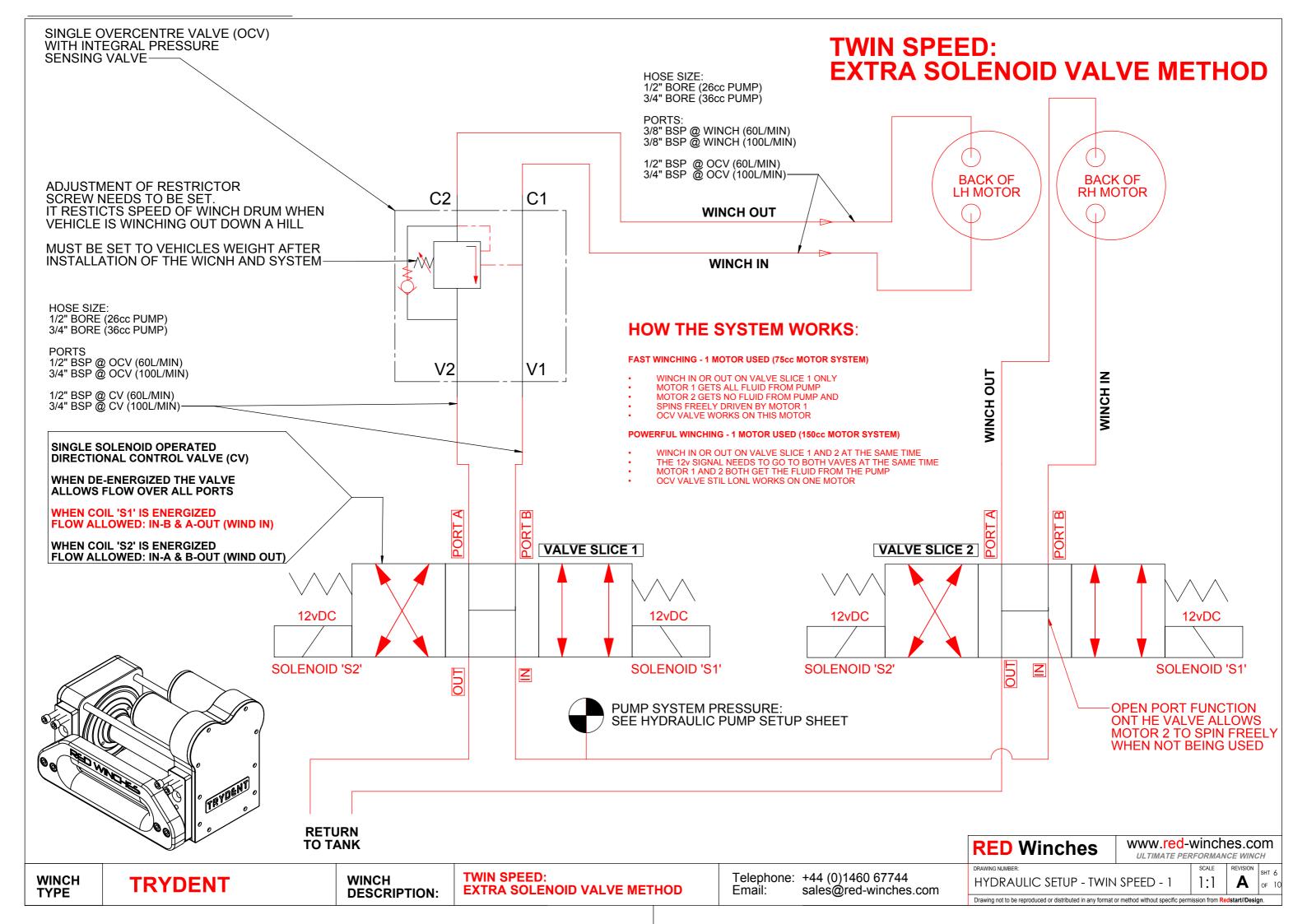


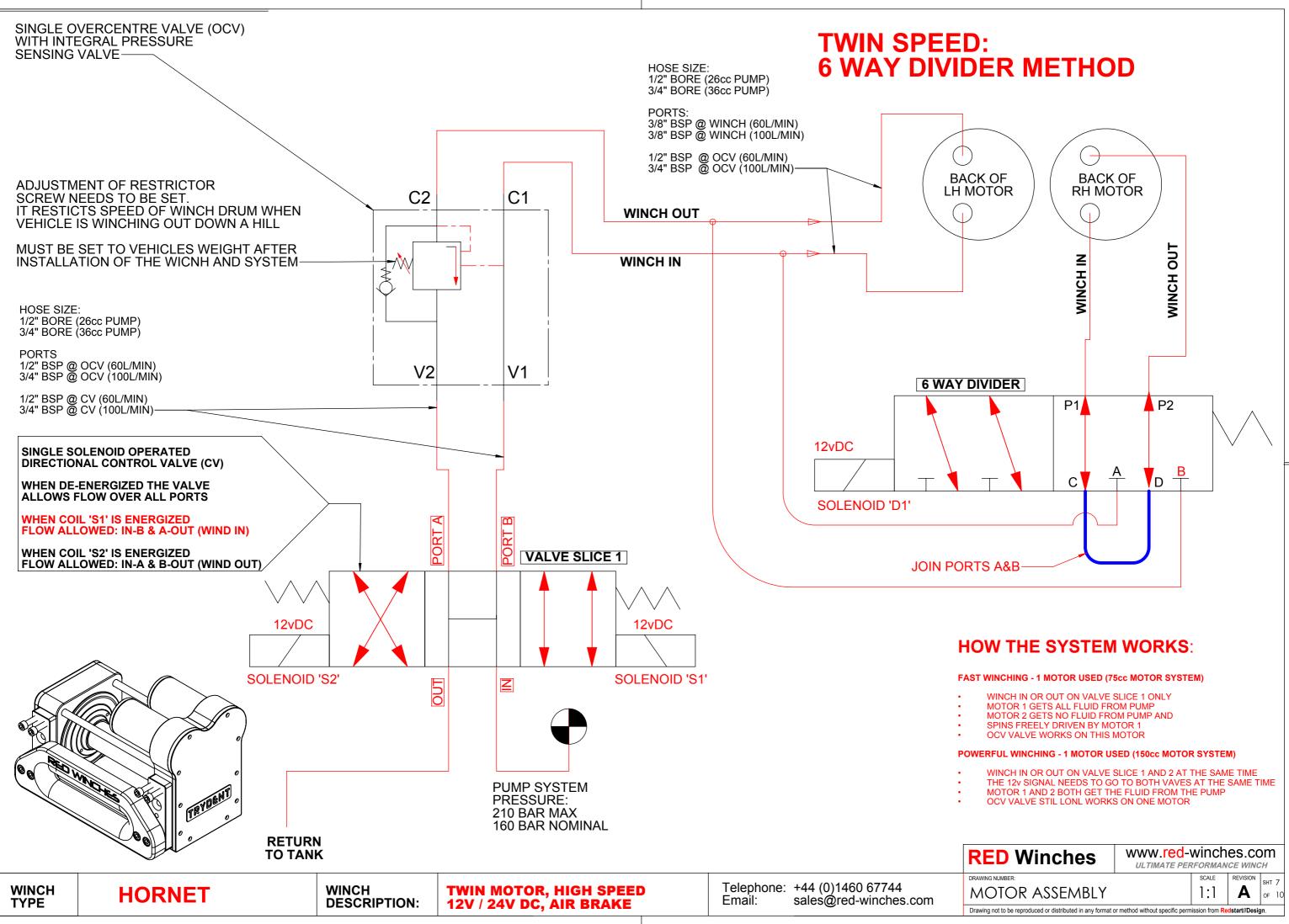


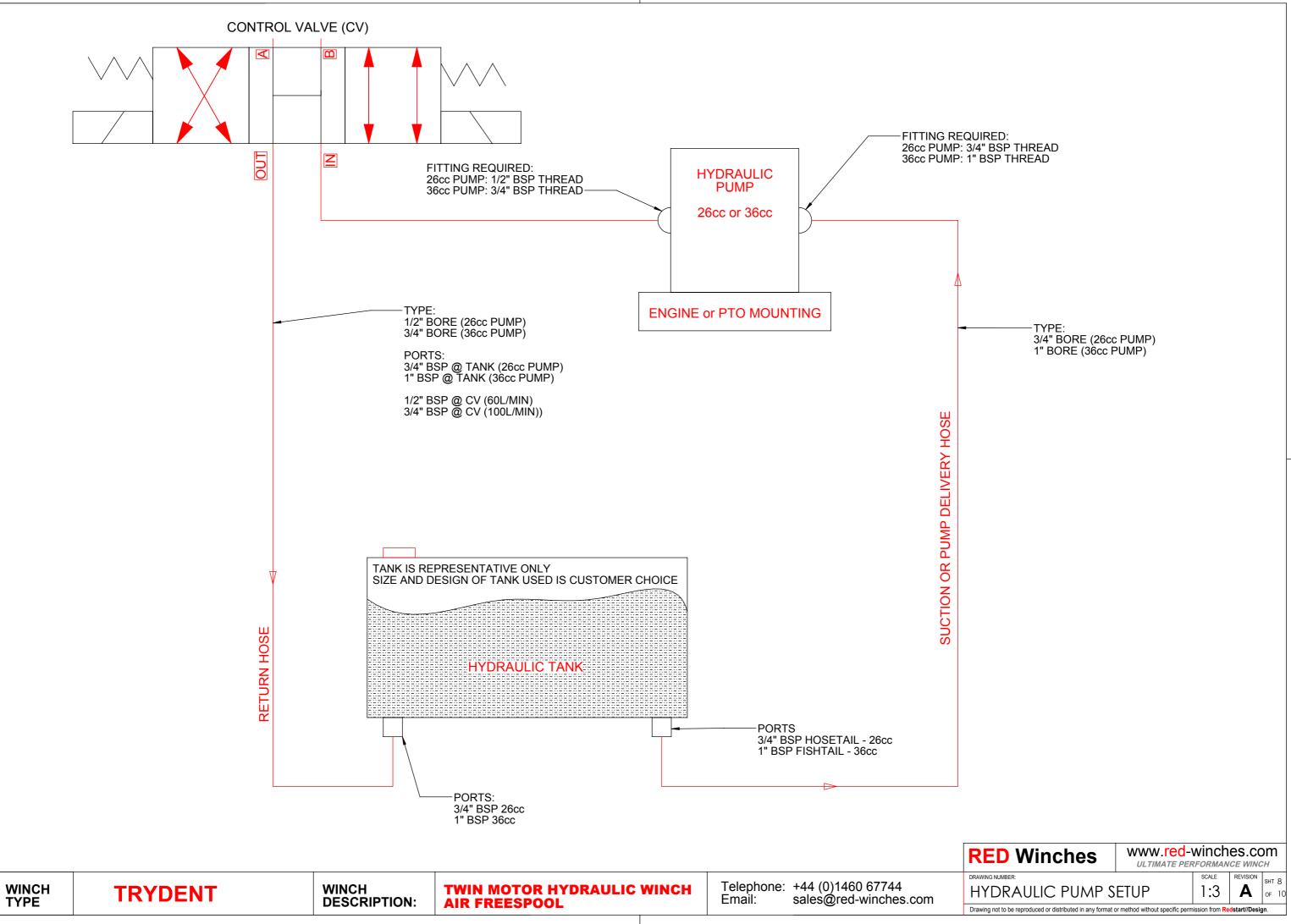
	FASTENE
E ALL FASTENERS	M6
RQUED TO THE CORRECT	M8
S	M10
	M12
E 234 (THREADLOCKER)	M16
APPLIED ON ALL FASTENERS	M20

UNLESS SPECIFIED			
FASTENER	TORQUE		
M6	10 Nm		
M8	24 Nm		
M10	45 Nm		
M12	80 Nm		
M16	160 Nm		
M20	200 Nm		









## **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:

- Hrs Add grease and cover gears every 3 Months 1-4
- Hrs Add grease and cover gears every 2 Months 4-12
- 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 used submerged in mud or water...

The drum bearings must have their seals removed, packed with grease and fitted again after the winch has been used continuously submerged or in fine silt or gritty conditions



DESCRIPTION	COMPLETED YES / NO	NOTES	
ALL BOLTS AND SCREWS FITTED CORRECTLY			
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 GEARBOX CASE			
MOTORS CHECKED FOR HYDRAULIC LEAKS			
FREESPOOL ON DRUM IS FREE AND EASY TO TURN			
AIR FREESPOOL CONNECTION CHECKED FOR LEAKS			
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.			
CORRECT BOLT LENGTHS HAVE BEEN USED ADN ALL MOUNTING HOLES ARE CLEAN AND FREE FROM DIRT			
WINCH POWERED AND TESTED IN BOTH DIRECTIONS. AIR FREESPOOL AND BRAKE SOLENOID CHECKED TO ENSURE CORRECT OPERATION.			

	IAME OF ENGINEER BUILT / PERFORMED FIANL CHECKS	S	GIGNATURE	WIN	ICH SERIAL NUMBER
PUMP TYPE	TRYDENT INSPECTION SHEET	PUMP DESCRIPTION:	TWIN MOTOR HYDRAULIC W AIR FREESPOOL	INCH	Telephone: +44 (0)1460 67744 Email: sales@red-winches.com

