

CHALLENGER WINCH WORKSHOP DRAWINGS



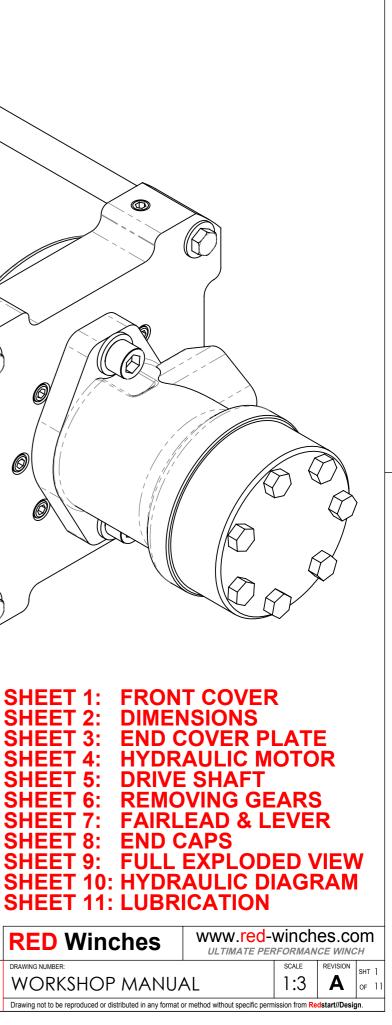
This winch is part of a group of winches whose designs have undergone extensive military testing and are now fitted to various military vehicles. These winches are now available on the commercial market and as such offer something previously unavailable. The end user can now enjoy a professional highly engineered high performance 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

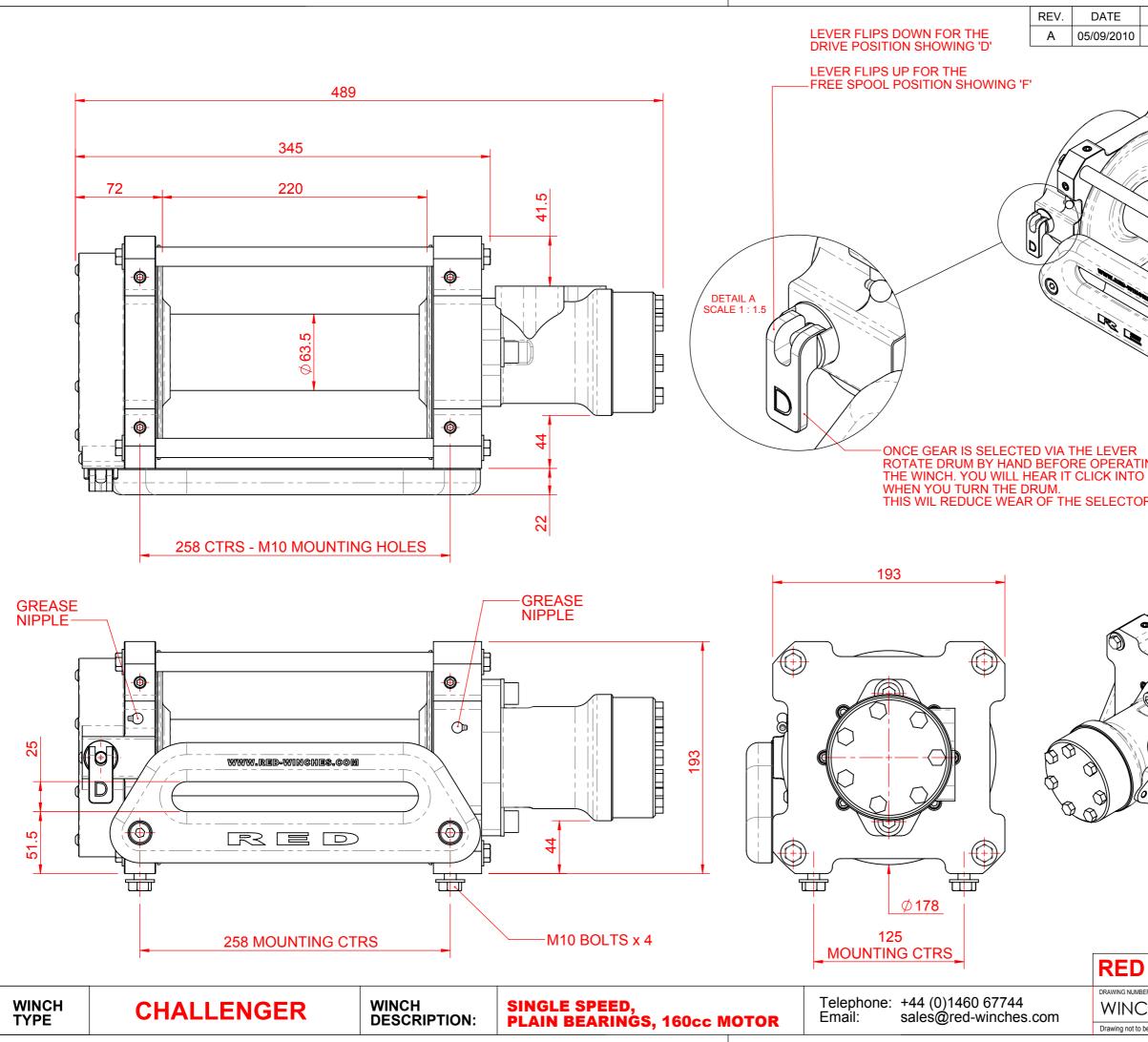
CHALLENGER

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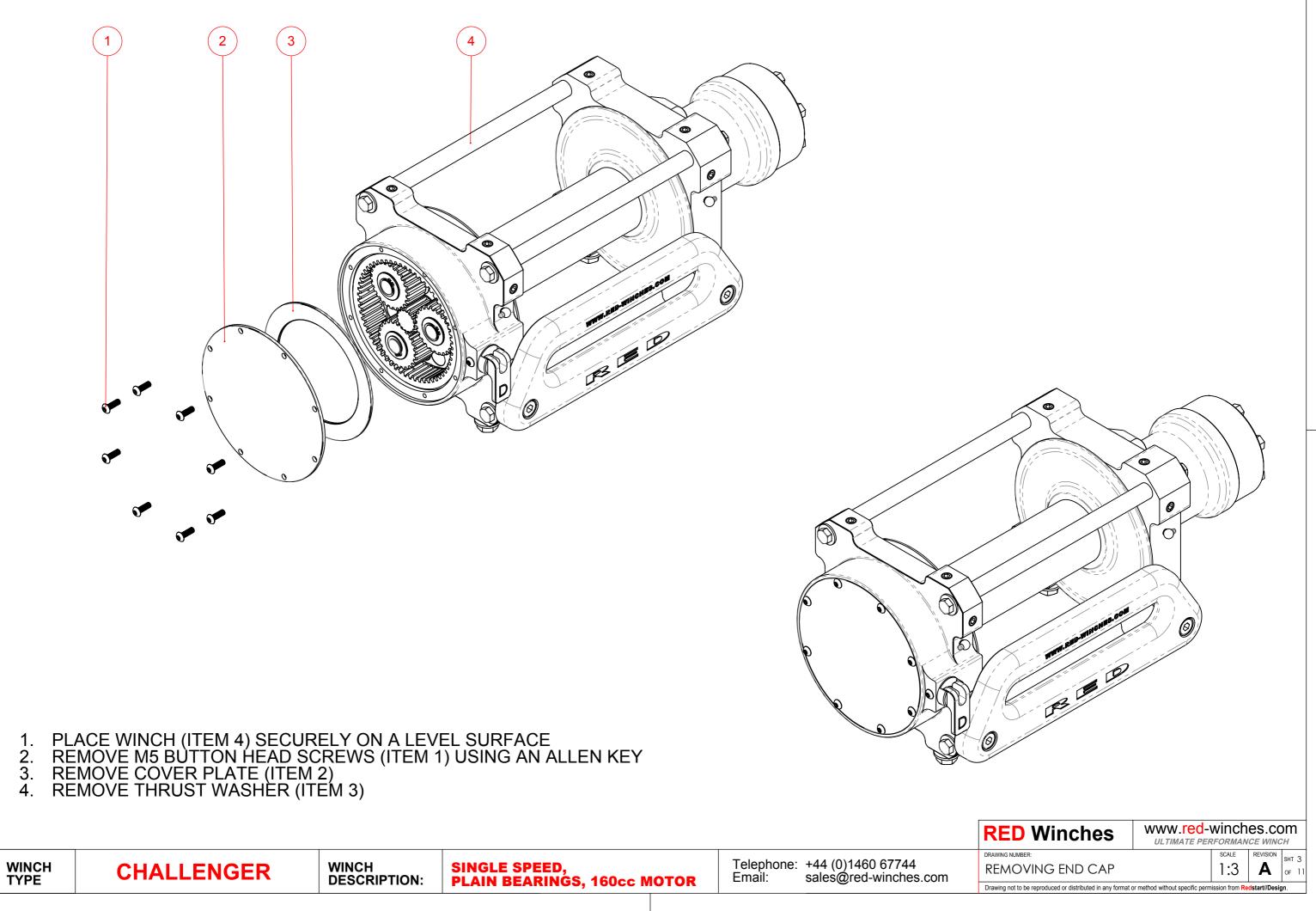
WINCH DESCRIPTION:

SINGLE SPEED, PLAIN BEARINGS, 160cc MOTOR

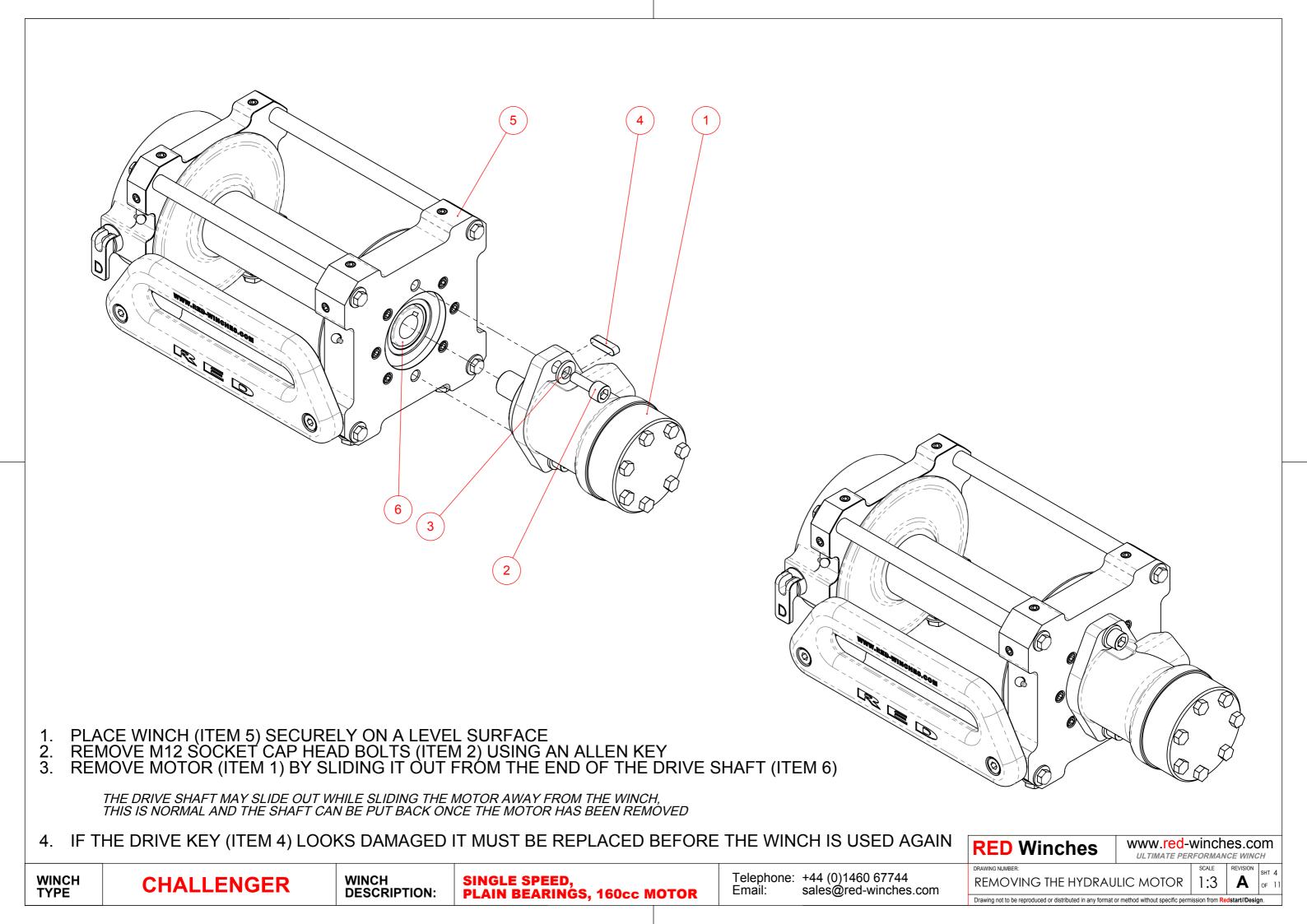


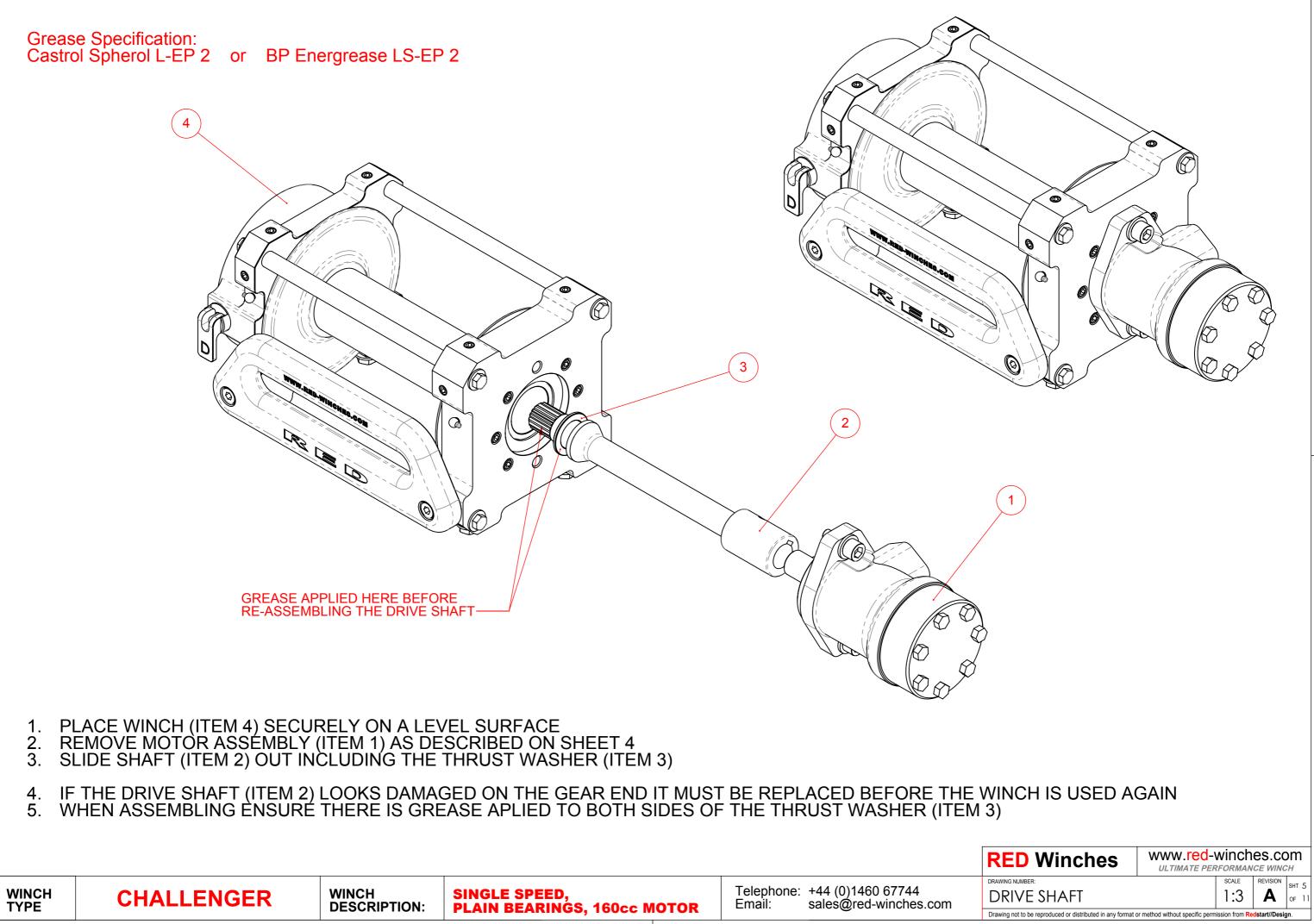


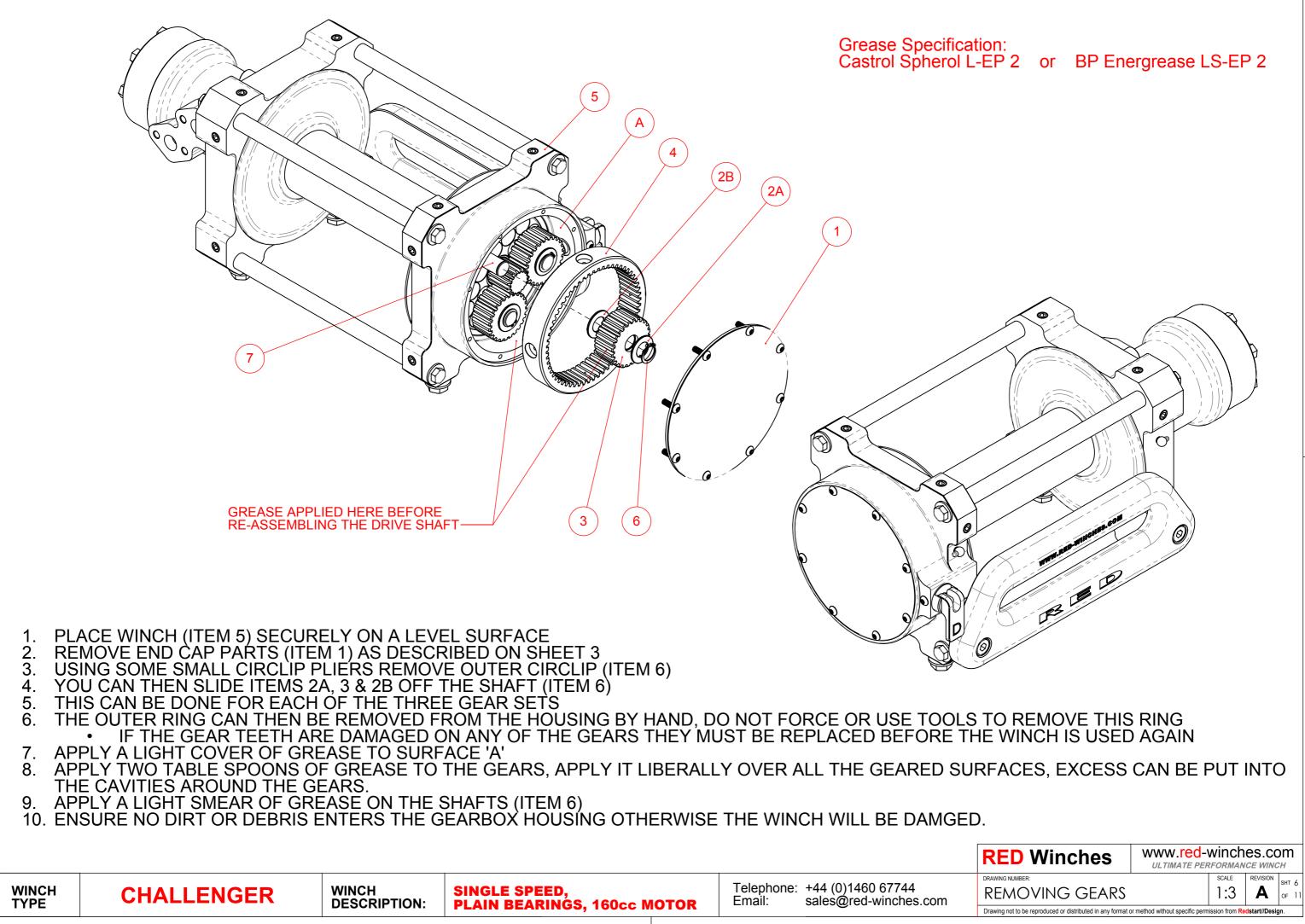
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2010	DESCRIPTION WORKSHOP ISSUE	NJ
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	WINCH IN	
	Winches WWW red-winches.	NCH
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FAIRLEAD

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- PLACE WINCH (ITEM 3) SECURELY ON A LEVEL SURFACE 1.
- 2. REMOVE M10 SOCKET CAP HEAD (ITEM 1) USING AN ALLEN KEY

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- 3. REMOVE FAIRLEAD (ITEM 2)
- 4. CHECK FAIRLEAD FÒR SHARP EDGES OR CRACKS
 - IF CRACKS ARE FOUND REPLACE THE FAIRLEAD BEFORE USING THE WINCH

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IF SHARP EDGES ARE FOUND FILE THEM SMOOTH USING A SMALL ENGINEERING FILE BEFORE USING THE WINCH

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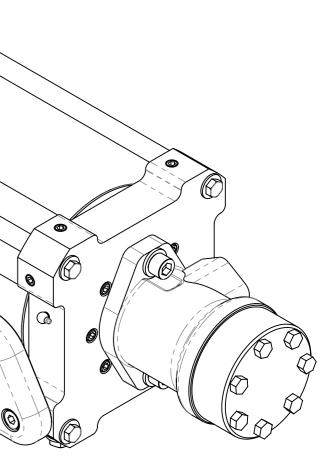
LEVER

- 1. PLACE WINCH (ITEM 3) SECURELY ON A LEVEL SURFACE
- 2. REMOVE M5 SOCKET BUTTON HEAD (ITEM 4) USING AN ALLEN KEY
- 3. WITH THE GEARS REMOVED (SEE SHEET 6) GENTLY PUSH THE LEVER HOSUING (ITEM 7) OUT OF THE GEARBOX CASING. THIS WILL ALSO REMOVE ITEMS 5, 6, 8 & 9.

4. TO REMOVE LOCKING DRIVE PIN (ITEM 5), PUSH THIS PIN INTO THE LEVER HOUSING UNTIL THE LEVER PIN (ITEM 9) IS SHOWING ABOVE THE TOP OF THE LEVER HOUSING (ITEM 7). KNOCK THE LEVER PIN OUT WICH WILL RELEASE THE MECHANISM AND ALL PARTS WILL BECOME AVAILABLE. USING A SMALL VICE TO COMPRESS THE PIN WILL HELP

5. ENSURE NO DIRT OR DEBRIS ENTERS THE GEARBOX HOUSING OTHERWISE THE WINCH WILL BE DAMGED

WINCH	CHALLENGER	WINCH	SINGLE SPEED,	Telephone:	+44 (0)1460 67744	draw
TYPE		DESCRIPTION:	BLAIN BEARINGS, 160cc MOTOR	Email:	sales@red-winches.com	RE
		DESCRIPTION.	PLAIN BEARINGS, TOUCC MOTOR			Draw

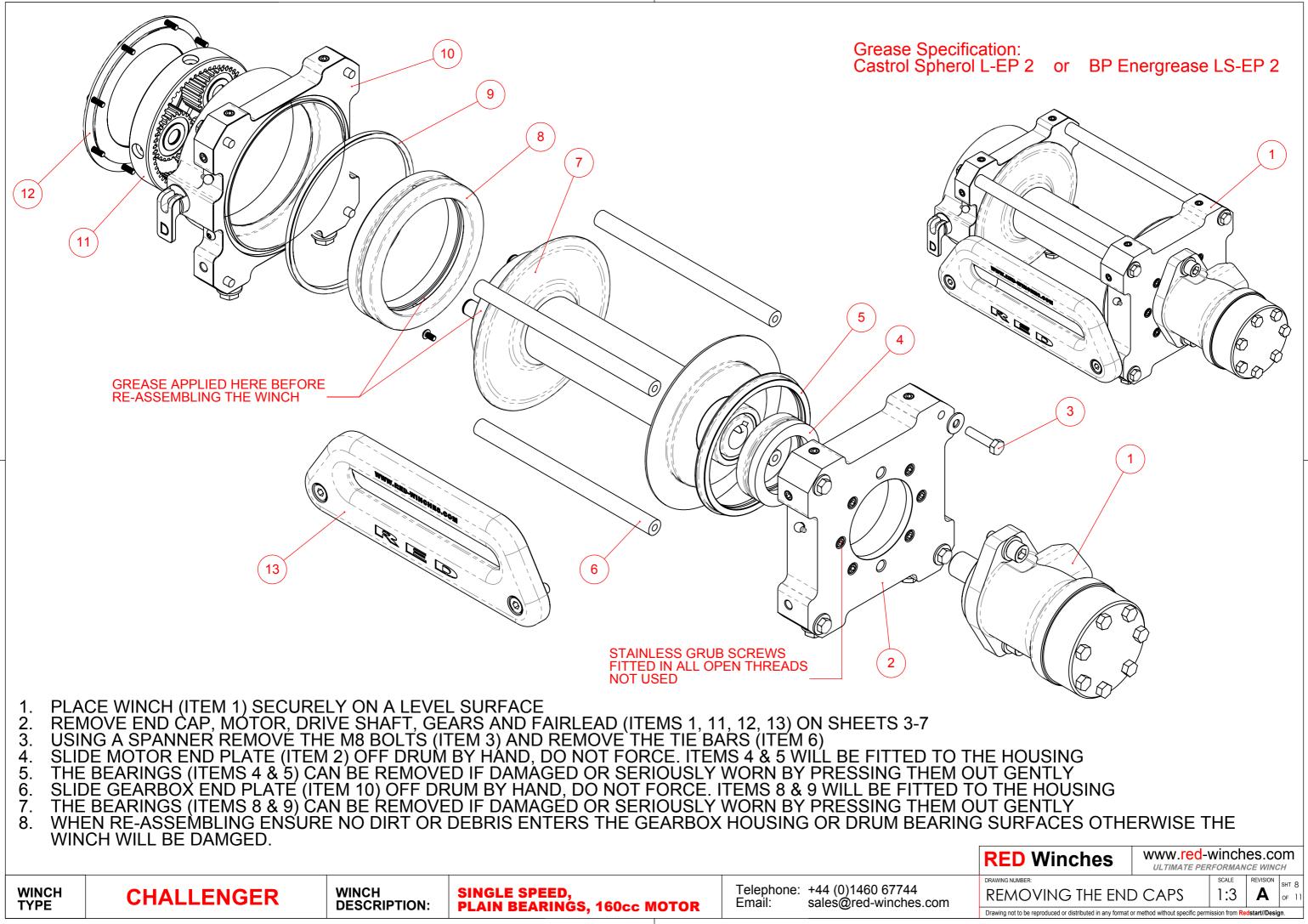


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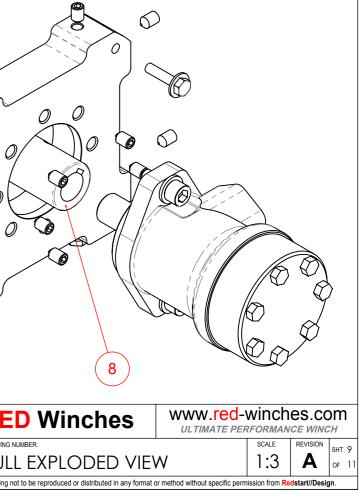
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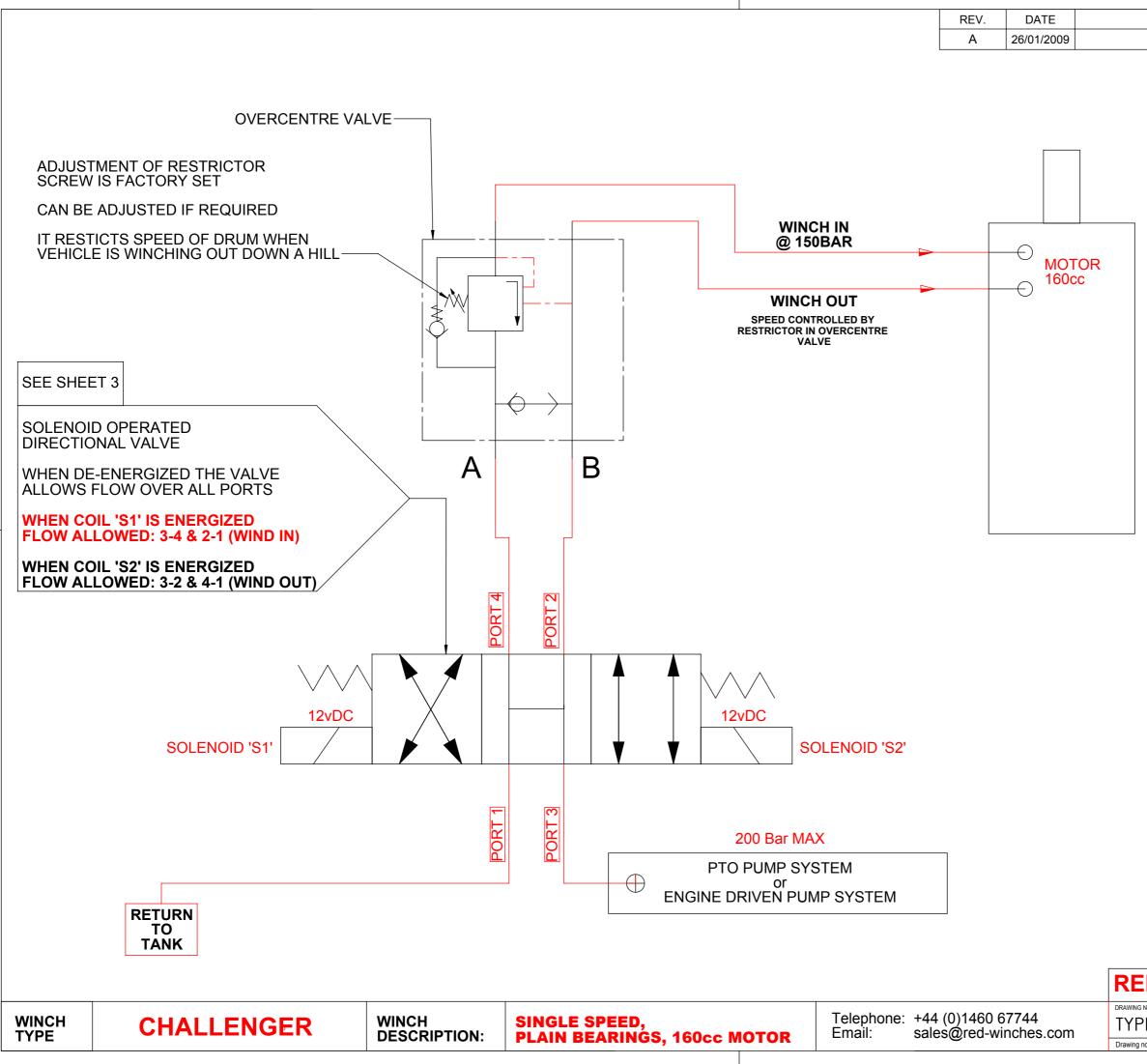
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					4 052-MD- 5 052-MD-		H 3
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		A CONTRACTOR OF THE OWNER OWNER OWNER OF THE OWNER OWNE			12 052-MD-	10 ANNULUS GEAR - 2M 60 TEETH, 120PCD	
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					18 052-MD-		1
					19 052-MD-3	36 GEAR SELECTOR ROD - SINGLE SPEED	1
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				(5) (28)	(22) (16)	8	
			1				-winches.com
WINCH		WINCH	SINGLE SPEED.	Telephon	e: +44 (0)1460 67744	FULL EXPLODED VIEW	SCALE REVISION SHT 9 1:3 A OF 1
TYPE	CHALLENGER	DESCRIPTION:	SINGLE SPEED, PLAIN BEARINGS, 160cc MO	TOR Email:	e: +44 (0)1460 67744 sales@red-winches	Drawing not to be reproduced or distributed in any format or method without specific pe	
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	DESCRIPTION FIRST ISSUE	ISSUED SIG
VING NUMBER: SCALE REVISION YPICAL HYDRAULIC SYSTEM 1:1 A		
VING NUMBER: SCALE REVISION YPICAL HYDRAULIC SYSTEM 1:1 A		
YPICAL HYDRAULIC SYSTEM 1:1 A GF 11	ED Winches	
		1:1 A OF 11

Lubrication Details

Grease Specification:

Castrol Spherol L-EP 2 or BP Energrease LS-EP 2

As a guide Grease must be applied as per the following: The lubrication frequency is based on constant winch usage in hours per month:

1-4 Hrs - 50cc Every 6 Months 4-8 Hrs - 50cc Every 4 Months 8-12 Hrs - 50cc Every 2 Months 12-20 Hrs - 50cc Every Month 20-40 Hrs - 50cc 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.



