Recommended fuel for your new Magnum Engine

We recommend a slightly different fuel to that mentioned in the instructions, which suggest adding some Castor Oil to the fuel.
Modern fully synthetic lubricants like **"COOL POWER "**are more than able to cope with the high temperatures and pressures of our glow engines.
Any Castor oil present in the fuel will cause carbon and varnish build up, and cause valves to "stick" as well will reduce the power output of the engine. Castor is useful in some applications like very high revving car engines only.
All modern high performance motor vehicle lubricants are synthetic based today !

Recommended fuel mix for initial "break-in"

Morgan's Coolpower Oil (Blue or Purple)	**17% -> 20%**	**Amount to measure (200ml)**
Nitro Methane	**10%**	**Amount to measure (100ml)**
Methanol	**70%**	**Amount to measure (700ml)**
		Total = 1 Litre

This fuel is available as a Cool Power pre mix – "Cool Power 10% - green"

Use ONLY "COOL POWER" synthetic oils in your Magnum engines. As we have no control over the quality of other brand, synthetic oils – Engine warranty may be voided. In these cases use a quality castor oil.
After "Break in" you can increase the Nitro content up to - 15% to 25% . This greatly improves the power and reliability of any engine. Choose the mix that suits your need. **Cool Power** pre mixed fuels are available to suit .

This fuel has been tested and used by many modelers for over 10 years and has been found to give excellent engine performance as far as power, reliable idling, easy starting, rapid transition and long life, As well it provides excellent internal protection and, no matter how long the engine is left without running, it will not gum up or cause bearing skid, the major cause of bearing failure after periods of non use. All Magnum engine tests are carried out using this fuel and the results can be read in model magazines. An added bonus is that this fuel mix can be used in four strokes and two strokes regardless of the brand or size with the exception of some very large engines that are to be run on 11% total oil content.

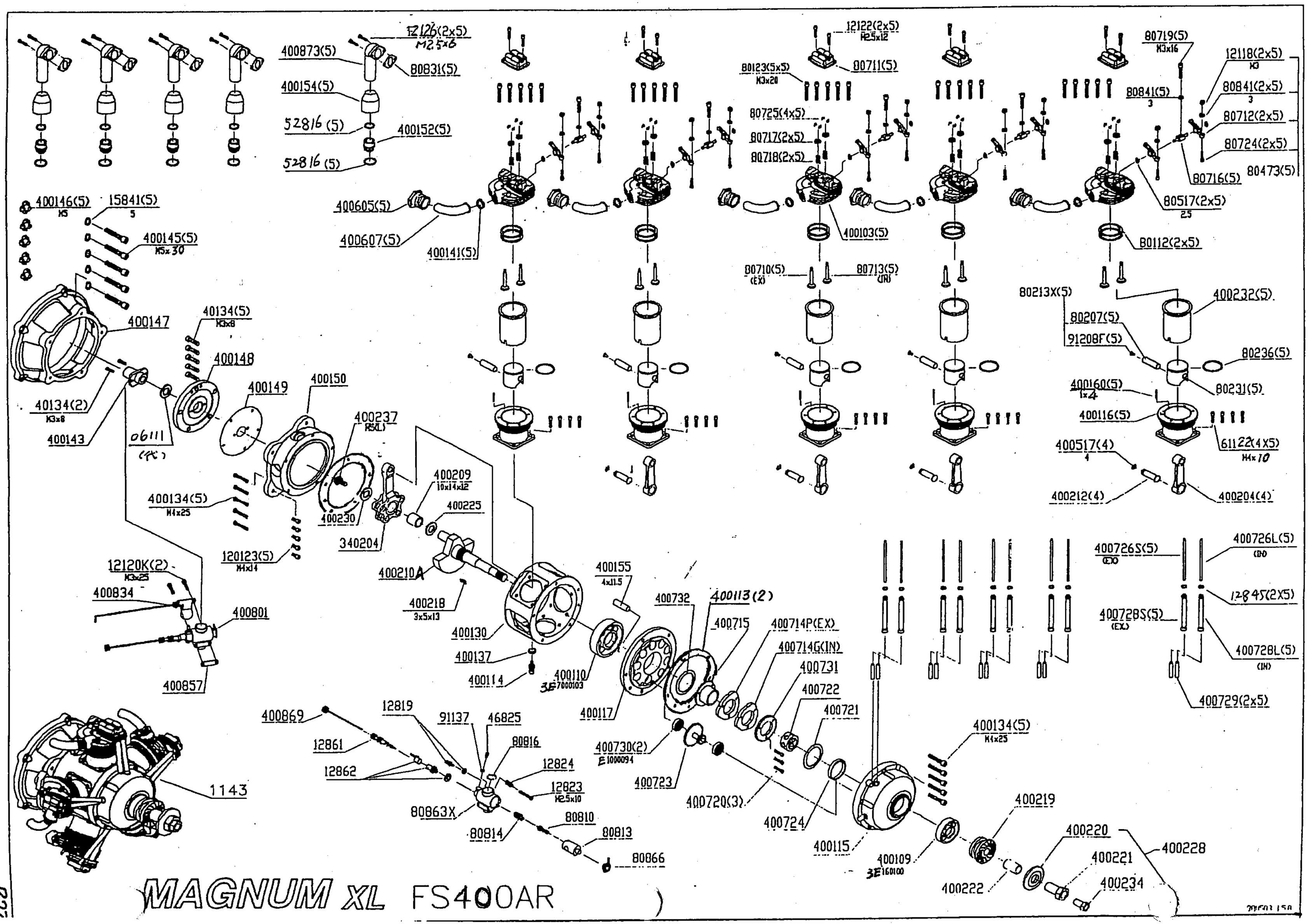
For Your Information
Always measure your fuel very accurately for consistent results. For amounts above one litre, multiply the 'Amounts to measure' by the number of litres required. For example, 5 litres. 200 x 5 = 1000. 700 x 5 = 3,500. 1,000 + 500 + 3,500 = 5,000 ml which is 5 litres
When finished flying – it is a good idea to use an "after run" oil. Cool Power after run oil is recommended – or if not available – use some straight "Cool power" oil, injected into the motor, then spin it over to spread around internally.
We also recommend "THUNDERBOLT" brand glow plugs – developed and made in the USA by the Magnum dealer there - they are great value and work extremely well in Magnum 2 and 4 stroke engines.

Warranty Information

Your Magnum engine is guaranteed to be free of defects in parts and workmanship for a period of 6 months from the date of purchase. The manufacturer's guarantee covers failures of the engines due to materials, workmanship or production defects.
The manufacturer's guarantee does not extend to failures of the ball bearings or to breakage of the connecting rod.
Crash damage, neglect, abuse, improper customer disassembly, tampering, use of sub standard fuel, use of incorrect accessories (glow plug, prop, etc.) will automatically void the warranty of the engine. Should your engine require warranty or non-warranty service please return it to the factory dealer.
For warranty service, send your engine and proof of purchase date (copy of original invoice or receipt) to –

TATES PERFORMANCE HOBBIES. 135 Shannon Ave Geelong West VIC 3218 Ph 03 52224501 sales@tates.com.au
Please enclose a complete written explanation detailing the problems. State your name, address and phone number clearly.
For repairs not covered under warranty, you must specify whether you wish the charges to be billed COD or to your Visa or MasterCard (be sure to complete credit card information including the expiration date).
Please package your engines carefully, preferably in it's original box.

As it is not possible for the manufacturer to control the circumstances of the operation of model engines, the manufacturer can not be responsible for any accident occurring in the course of the operation of model engines. The manufacturer assumes no liability for injury or loss resulting from the use of these engines beyond the cost of the engine if there was a defect in material or workmanship of the engine.



MAGNUM XL FS400AR

B23