

May 24, 1961

TO ALL ROOTES GROUP DEALERS

SUNBEAM ALPINE

SPECIAL TUNING

PREPARATION OF 1600cc ALPINE FOR COMPETITION

We are pleased to advise Dealers that within the course of the next four weeks we shall be notifying all concerned, through a Parts Bulletin, of the availability of Special Tuning Kits for the 1600 Series Sunbeam Alpine.

These kits will modify the car to Stage 1 and Stage 2 and will also incorporate not only modifications to the engine but also the brakes and chassis.

In the interim period, until these kits are received into our Parts Depots for distribution, we are receiving inquiries from Dealers on how to satisfy owners' requests for the tuning of their cars for racing, and to assist Dealers in these instances we are attaching a recommended preparation which if conducted in accordance with the details given will afford the owner a considerable increase in performance.

The Stage 1 and Stage 2 Tuning Kits which we refer to above will of course bring the Sunbeam Alpine to a much higher degree of tune than the recommendations given here, but in any event much of the work given under cover of this circular will have to be done when modifying the car to take the Tuning Kits and therefore it will not be wasted time or needless expense to the owner.

ROOTES MOTORS INCORPORATED



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FJMcG:SO
encl.

PREPARATION OF 1600 CC ALPINE FOR COMPETITION

FUEL SYSTEM - (CARBURETOR)

Venturi - - - - - 30 mm
Main Jet - - - - - 152
Float Level - - - - - 7 mm
Air Cleaner - - - - - Remove Gauze - if regulations permit
Intake Manifold - - - - - Clean and Polish

ENGINE

Plugs - - - - - Champion N3 .028 Gap
 Klg FE 220 " "
Coil - - - - - Lucas - High Speed Coil
Crank Shaft) Balance as one unit
Flywheel (
Fan Pulley)
Cyl. Head - - - - - Mill .025 Clean and Polish Ports

Note: Equalize weights of Pistons and Rods (Do not drill).

Engine Mounts- - - - - Drill and Wire
Ignition Timing- - - - - 5°- 7°- Set to Fuel used
Engine Oil - - - - - SAE #40
Cooling System - - - - - Remove existing Thermostat (178°F) or
 Use Low Thermostat (165°F)

GEAR BOX & OVERDRIVE → (If fitted)

Lubrication- - - - - SAE #40
Reverse - - - - - Load Reverse Bias Spring by placing Shims
 between Spring and Plate

BRAKES

Front - - - - - Ferodo DS3 Pads
Rear - - - - - VG95-1 Linings

REAR AXLE

Breather Hole - - - - - Check for open

Note: Add further Breather Hole at 10:00 on the Banjo (use 1/16" Drill)

FRONT END

Toe-in - - - - - 3/8" - Remove Stabilizer Bar and use two
Stabilizer Bars (Part No. 1201492) one on
top of the other (fit only if regulations
permit)

BODY

Remove - - - - - Door Glass
" Glass Channels
" Soft Top & Covers
" Spare Wheel Cover
" Windscreen and add Racing Screen
" Battery and fit smaller light weight model
" Heater (if Hardtop fitted, keep Blower fitted)

Note: Wire all exhaust, tail pipe, carburetor and generator bolts.

TIRES

Dunlop Racing or Road Speed most suitable.
Michelin X alternative