Elan Factory Customer Projects

August 2006

Customer details
The owner of this Lotus Excel SE is a discerning customer who has a passion for owning outstanding examples of Lotus Cars.

Vehicle details
This superb vehicle was recently purchased from New South Wales and was brought to The Elan Factory for a thorough inspection prior to being issued with a Road Worthy Certificate. Before the vehicle could be issued with a certificate, a faulty window lift motor was replaced and an oil leak originating from the distributor was cured. Other work carried out included, the adjustment/calibration of both Dellorto carburetors and the replacement of a faulty alternator voltage regulator.

Pearlescent white Excel

Stunning example

Driver side entry

All leather interior

Faulty passenger side window motor

Distributor dismantled to cure invisible oil leak

General view of engine bay

Dellorto pump jet calibration equipment

Alternator with voltage regulator removed

Faulty voltage regulator and replacement

Dellorto Carburettor set up for Lotus Excel SE engine - Client Mr Nigel Robertson					
Engine number					
Date	19/08/2006				
Carburettor type Dellorto DHLA 45D					
Carburettor #1 (twin chokes feeding cylinders 1 and 2)					
Choke #1	Actual	Standard setting	Choke #2	Actual	Standard setting
Idle jet holder	7850.9	7850.9	Idle jet holder	7850.9	7850.9
Slow running jet	55	55	Slow running jet	55	55
Air corrector jet	150	150	Air corrector jet	150	150
Emulsion tube	7772.8	7772.8	Emulsion tube	7772.8	7772.8
Main jet	135	135	Main jet	135	135
Starter emulsion tube	7482.1	7482.1	Starter emulsion tube	7482.1	7482.1
Pump jet	45H	45H	Pump jet	45H	45H
Starter jet	80	80	Starter jet	80	80
Power jet	70	70	Power jet	70	70
Float weight	8.5grams	8.5grams	Float weight	8.5grams	8.5grams
Choke diameter	37mm	37mm	Choke diameter	37mm	37mm
Note: Common fuel float assembly is shared by chokes and jetting					
Initial accelerator pump jet delivery rates measured prior to dismantling or adjustment					
Choke #1	Actual	Standard setting	Choke #2	Actual	Standard setting
	8.0cc	8.0cc/20 strokes		8.0cc	8.0cc/20 strokes
Carburettor #2 (twin chokes feeding cylinders 3 and 4)					
Choke #1	Actual	Standard setting	Choke #2	Actual	Standard setting
Idle jet holder	7850.9	7850.9	Idle jet holder	7850.9	7850.9
Slow running jet	55	55	Slow running jet	55	55
Air corrector jet	150	150	Air corrector jet	150	150
Emulsion tube	7772.8	7772.8	Emulsion tube	7772.8	7772.8
Main jet	135	135	Main jet	135	135
Starter emulsion tube	7482.1	7482.1	Starter emulsion tube	7482.1	7482.1
Pump jet	45H	45H	Pump jet	45H	45H
Starter jet	80	80	Starter jet	80	80
Power jet	70	70	Power jet	70	70
Float weight	8.5grams	8.5grams	Float weight	8.5grams	8.5grams
Choke diameter	37mm	37mm	Choke diameter	37mm	37mm
Note: Common fuel float assembly is shared by chokes and jetting					
Initial accelerator pump jet delivery rates measured prior to dismantling or adjustment					
Choke #1	Actual	Standard setting	Choke #2	Actual	Standard setting
	13.25cc	8.0cc/20 strokes		4.25cc	8.0cc/20 strokes
Note: Shortening the length of accelerator rod increases the fuel flow and lengthening the rod decreases the flow					