

DON'T BUG ME WITH THE FACTS, MAN

There have been volumes and volumes of material written on Weber carburetors and, though much of it is theory that doesn't concern even the serious enthusiast, a lot of it is really of a practical nature and necessary if we are to tear into the little beauties with modifications in mind. Included in the Lotus/West tech articles are a detailed tune-up procedure and an excellent setting-up article. BAP/GEON's "A Guide to Tuning" and Weber's "Technical Introduction" to their master catalog are also very good. Unfortunately, there is SO much material that the beginning tuner spends six hours of reading for every hour on the carbs. This article is designed to be an ultra-condensed version of all of this material and is intended to give basic ballpark settings for the most commonly changed internal components of the Weber. It should work for the person converting the Elite to Webers as well as the Elan owner who just wants to go up one choke size, but isn't sure what it will do to disturb his jetting. A \$4.95/accelerometer from Lotus Central was an invaluable aid to tuning for this author after the chassis dyno people said the Lotus 7 was too low for their rollers. Anyway, here it is for the folks who don't want to be burdoned with the facts, but just want the numbers. Bear in mind that enlarging anything that passes air through the Weber will lean the mixture and enlarging anything that passes fuel richens the mixture.

IDLE JET (Idle mixture)

cc	size
1000	40
2000	55
3000	70

(One size richer for siamese ports)

Idle should be correct with idle screw $\frac{1}{2}$ -1 turn out

IDLE AIR CORRECTOR (Idle transition)

Raise idle 300 RPM above normal and correct mixture with mixture screw to determine whether to richen or lean out idle air jet

CHOKE TUBE 4 Cyl (Power)

1000	28	
1600	33	± 2
2000	35	

(Siamese ports +4)

MAIN JET (Mixture strength)

Basically 4x choke size or for choke changes 5x choke size change

AIR CORRECTOR JET (Top end mixture)

Main jet size +60

Racing - same as main jet size (One size main jet change is equivalent to three sizes air corrector change i.e. +5 main jet = -15 air corrector jet)

EMULSION TUBE (Mixture curve)

Lean low end - F2, 3, 11, 14, 15, 16
Rich low end - F7, 8

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