Carter YS950S Carburetor Specifications (Carter Carbureto	or Form 4960B released March 1953, revised March 1956.)
For Willys 4 Cylinder Engine: 3 1/8 Inch Bore, 4 3/8 Inch	
Dimensions:	
Flange size,	
Primary venturi,	
Secondary venturi,	
Main venturi,	1 1/4 inch I. D.
Float Setting:	
Distance from seam of float to float chamber	
over, with weight of float on needle and spring:	9/64 inch.
Vents:	
Balanced thru air horn to air cleaner via tubing external to carbo	uretor.
Vent: Bowl chamber to carburetor bore, size	
Gasoline Intake:	
Square vertical (spring loaded) needle	No.53 (.0595 inch) drill size in needle seat.
Bleeder tube, assembled over idle tube, with 2 side holes	
Low Speed Jet Tube:	
Jet size,	No. 70 (.028 inch) drill (in end
of tube). Auxiliary jet (on side of tube) size:	No. 75 (021 inch) drill
By-pass (in air horn) size:	
Economizer (in body) size: No. 54 (.055 inch) drill.	No. 32 (.0033 mcn) drm.
Economizer (in body) size. No. 54 (.055 inch) drin.	
Idle Port:	
Upper port: slot type, length,	
Width,	030 inch.
Idle Port Opening:	
Top of port	125 to .129 inch above top edge of valve with valve
tightly closed.	
Lower Port (For Idle Adjustment Screw): Size,	053 to .057 inch diameter.
Set Idle Adjustment Screw:	1/2 to 1 1/2 turns onen. For richer
mixture, turn screw out.	1/2 to 1 1/2 turns open. For ficher
Idle engine at	700 R P M with deen fording vents open
tule engine at	700 K.I .ivi. with deep folding vents open.
Main Nozzle:	1 200
In primary venturi,	
Discharge jet size,	
Main nozzle bleed (tube in air horn)	Size: No. /0 drill.
Metering Rod (Diaphragm operated):	070 : 1
Economy step,	
Power Step	
Vacuum passage restriction, size:	
Vacuum passage bleed to bore, size:	
Metering Rod Jet: Size:	090 men diameter.
Accelerating Pump: Diaphragm type, vacuum operated.	No. 70 deill
Discharge jet size,	
Intake ball check size:	
Discharge ball check under needle, sizeVacuum passage restriction, in flange size:	
Vacuum passage restriction, in flange size:Vacuum passage air bleed to bore, size:	
v actum passage an offen to bore, size	140. 02 (.036 men) drm.
Pump Stroke:	No adjustment.
Choke: ManualOffset, butterfly type with poppet valve	None
Vacuum Spark Port:	INORE.