

# 1974-79 FUEL SYSTEMS

## Weber DARA & DIR 2-Barrel Carburetors

**Renault: R-5, R-12, R-15, R-17**

### CARBURETOR IDENTIFICATION

#### CARBURETOR IDENTIFICATION NUMBERS

Application	Number
1976	
R-5	
Federal .....	32 DIR 56
Calif. ....	32 DIR 53
R-12	
Man. Trans. ....	32 DARA 10
Auto. Trans. ....	32 DARA 11
R-15 .....	32 DIR 46
R-17 .....	32 DIR 46
1977-78	
Federal .....	32 DIR 56
Calif. ....	32 DIR 55
High Alt. ....	32 DIR 53
1979	
Federal .....	32 DIR 56
Calif. ....	32 DIR 55

### DESCRIPTION

Carburetor is a 2-barrel downdraft type, equipped with a manual choke. Carburetor base is heated by engine coolant flowing through it. Fuel filter is a metal screen type located in carburetor fuel inlet.

### ADJUSTMENTS

#### IDLE SPEED & MIXTURE

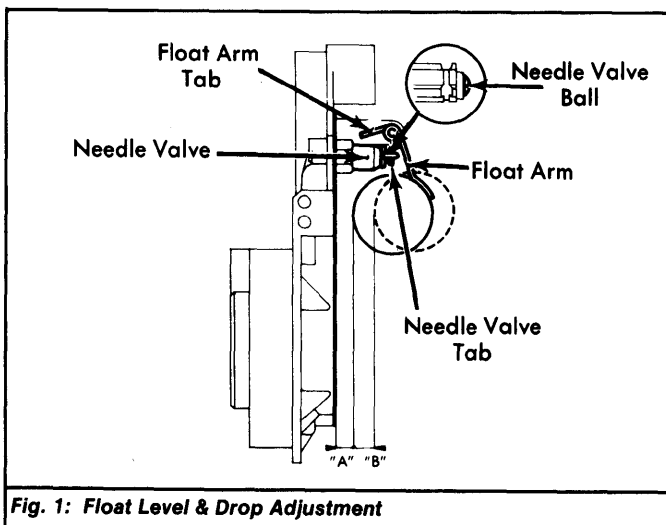
See appropriate TUNE-UP PROCEDURES article.

#### COLD (FAST) IDLE RPM

See appropriate TUNE-UP PROCEDURES article.

#### FLOAT LEVEL & DROP

- 1) Float level and drop are checked and adjusted with air horn removed and held in a vertical position. See Fig. 1. Allow weight of float to close needle valve without allowing ball to enter valve.
- 2) Measure dimension "A" to check float level. Measurement should be .276 (7.0 mm). If necessary, adjust by bending float arm. Measure dimension "B" for float drop. Measurement should be .315" (8.0 mm). If necessary, adjust by bending float tab.



**Fig. 1: Float Level & Drop Adjustment**

### INITIAL THROTTLE VALVE OPENING

**DARA Carburetor** - With carburetor removed from engine, hold throttle closed. Measure clearance between throttle and bore. Clearance should be .047-.051" (1.2-1.3 mm) on automatic transmission equipped models; .059" (1.5 mm) on manual transmission equipped models. If necessary, adjust by turning throttle plate adjusting screw. See Fig. 2.

**DIR Carburetor** - With choke valve completely closed, measure throttle valve opening. Measurement should be .047-.051" (1.2-1.3 mm). If necessary, adjust opening by loosening lock nut and turning adjustment screw at choke cam. See Fig. 2.

### INITIAL CHOKE VALVE OPENING

**Mechanical (DARA Carburetor)** - Close choke plates. Open throttle to wide open throttle position. This will open choke plates slightly. Measure gap between choke plates and air horn wall. Clearance should be .281" (7 mm). If necessary, turn adjusting screw. See Fig. 3.

**Mechanical (DIR Carburetor)** - With choke valve fully closed, push on sleeve until it contacts cam lever. Measure opening at bottom of choke valve. Measurement should be as specified in appropriate CARBURETOR ADJUSTMENT SPECIFICATIONS table. If necessary, bend link. See Fig. 3.

**Vacuum (DARA Carburetor) - 1)** Remove choke housing cover. Push activating lever to close choke plates. See Fig. 4. Gently force rod up diaphragm as far as it will go.

**2)** Hold actuating rod against push rod and measure gap between choke plates and air horn wall. Measurement should be .203-.281" (5-7 mm). If necessary, turn adjusting screw.

**Vacuum (DIR Carburetor) - 1)** Push diaphragm link in as far as possible. Now close choke plates with choke arm until spring on link is slightly compressed. See Fig. 4.

**2)** Measure opening at bottom of choke valve. Measurement should be to specifications. If adjustment is needed, remove screw from end of diaphragm and turn set screw until opening is correct. See Fig. 4.

### OVERHAUL

#### DISASSEMBLY

- 1) Remove hairpin clip from lower end of choke shaft link. Remove air horn attaching screws and remove air horn assembly. Remove float pin, float, and needle valve. Remove fuel inlet filter and screen. Remove choke shaft link and sliding dust cover.
- 2) From main body, remove accelerator pump nozzle retaining screw and seal. Remove primary and secondary air correction jets. With main body upside-down, tap body gently with palm of hand to dislodge emulsion tubes. Remove primary and secondary idle jets and main jets.
- 3) Carefully remove accelerator pump cover, as cover is under spring tension. Remove idle mixture screws and prong. Remove accelerator pump discharge metering screw. Remove choke cable and screw.
- 4) Remove choke control arm, being careful to prevent overstressing choke plate relief spring. Turn fast idle control link to align slot and remove link. Remove choke control arm spring.

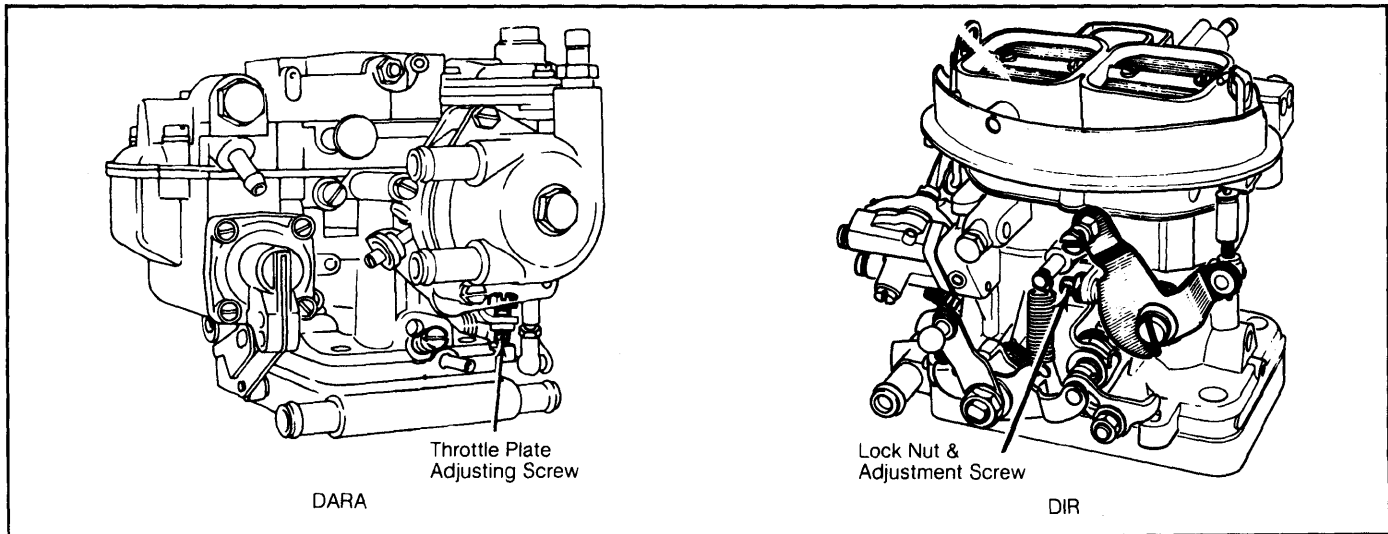
#### CLEANING & INSPECTION

Wash parts in carburetor cleaner (solvent). DO NOT soak any components containing rubber, leather, or plastic. Soak components long enough to thoroughly clean all surfaces and passages of foreign matter. Remove any residue after cleaning components in solvent. Blow out all fuel passages dry with compressed air. Inspect all parts for wear or damage and replace as necessary.

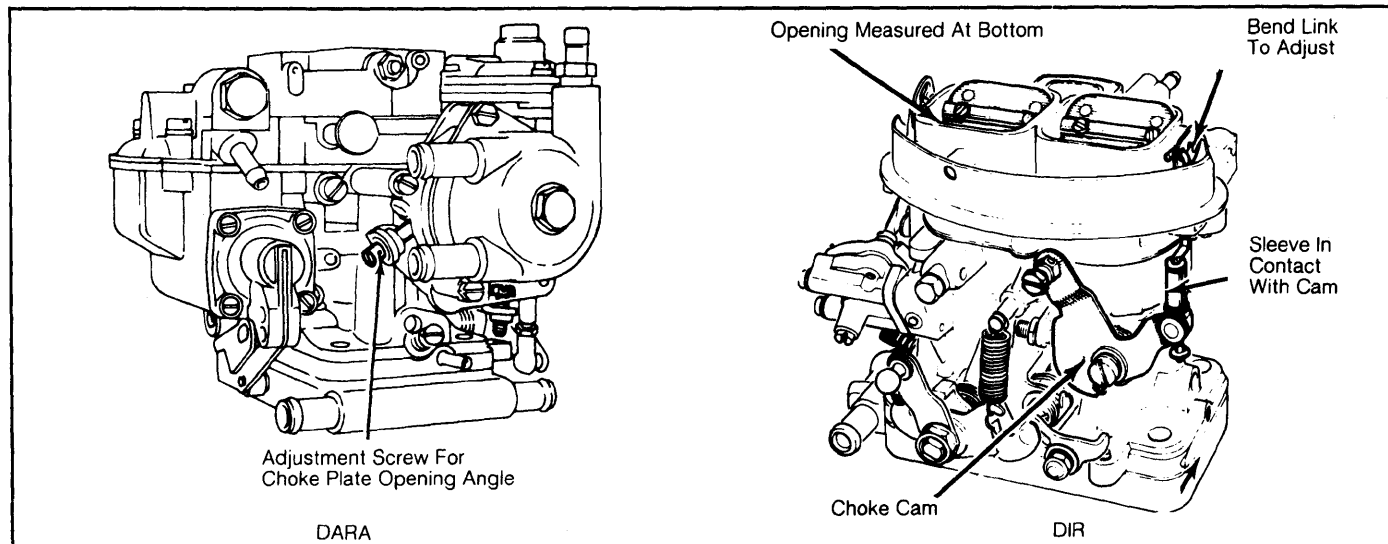
#### REASSEMBLY

To reassemble, reverse disassembly procedure. Use new gaskets and parts as necessary. See Fig. 5.

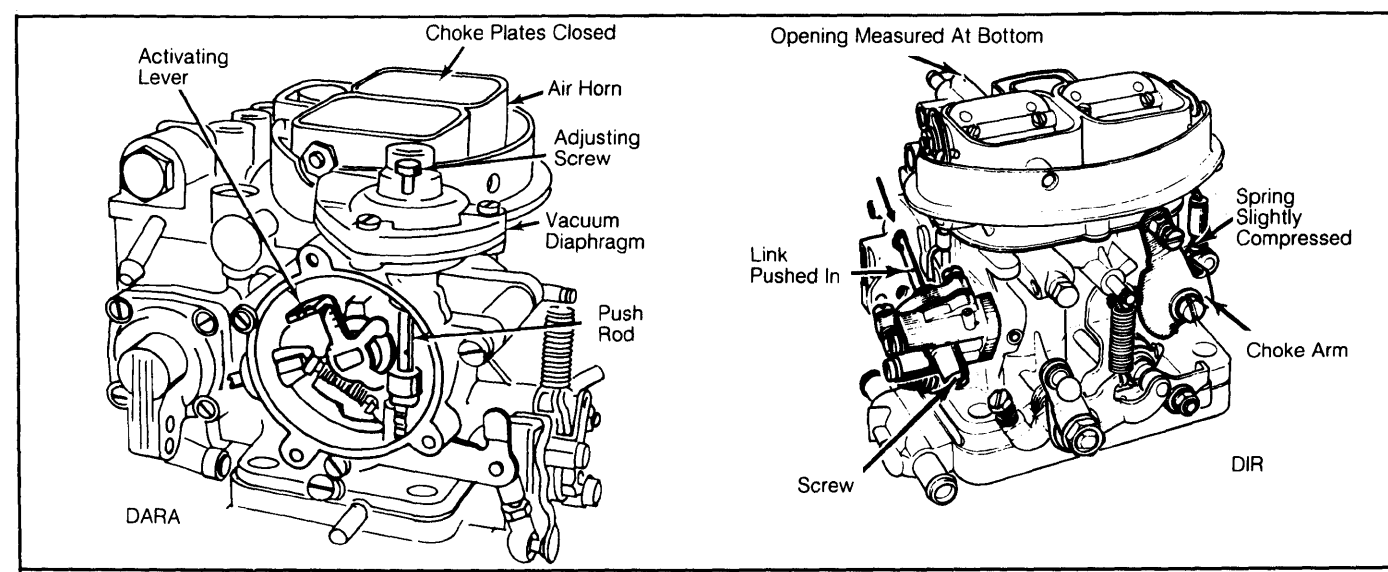
# 1974-79 FUEL SYSTEMS Weber DARA & DIR 2-Barrel Carburetors (Cont.)



**Fig. 2: Initial Throttle Valve Opening Adjustment**



**Fig. 3: Choke Valve Adjustment (Mechanical)**



**Fig. 4: Choke Valve Adjustment (Vacuum)**

# 1974-79 FUEL SYSTEMS

## Weber DARA & DIR 2-Barrel Carburetors (Cont.)

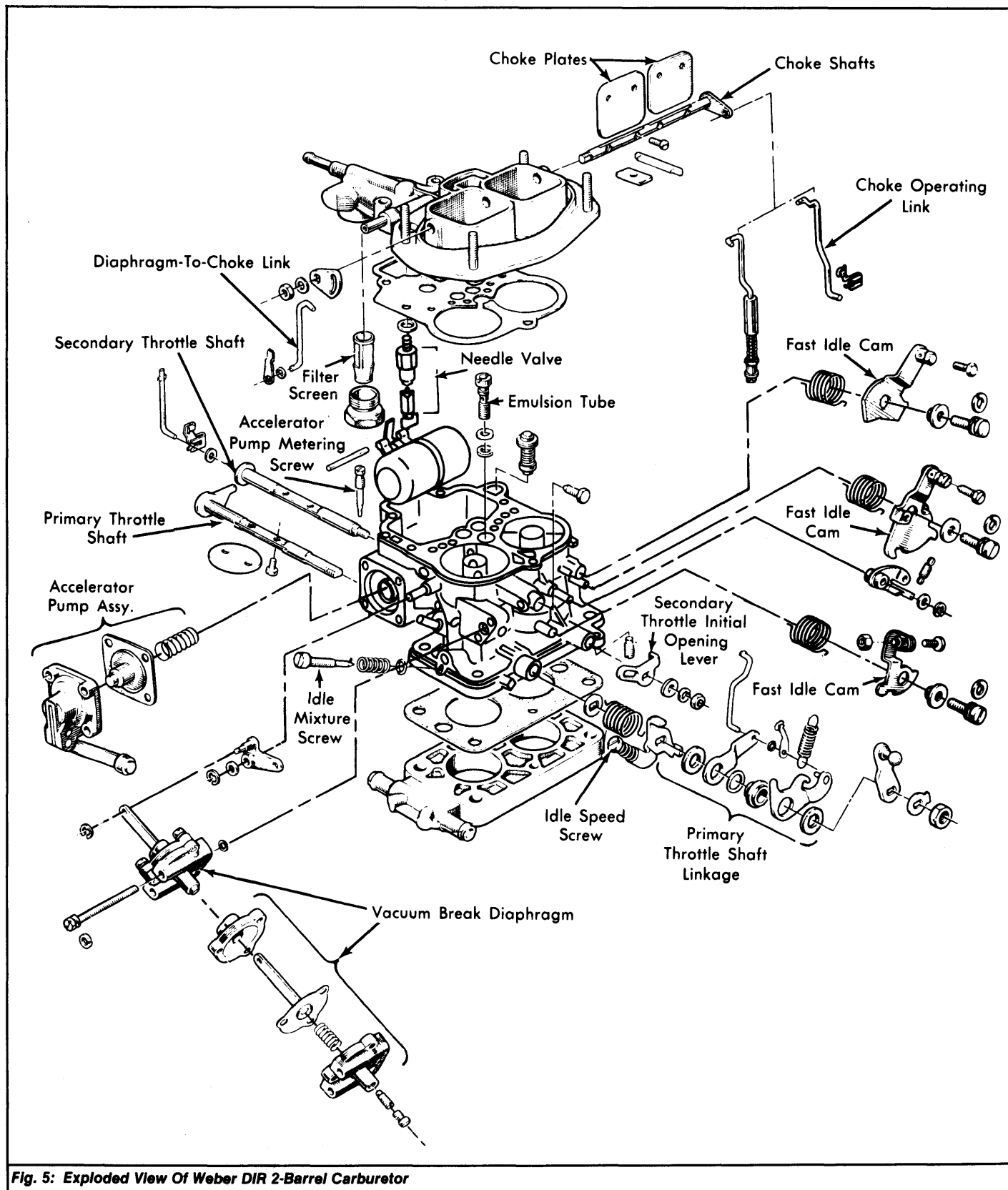
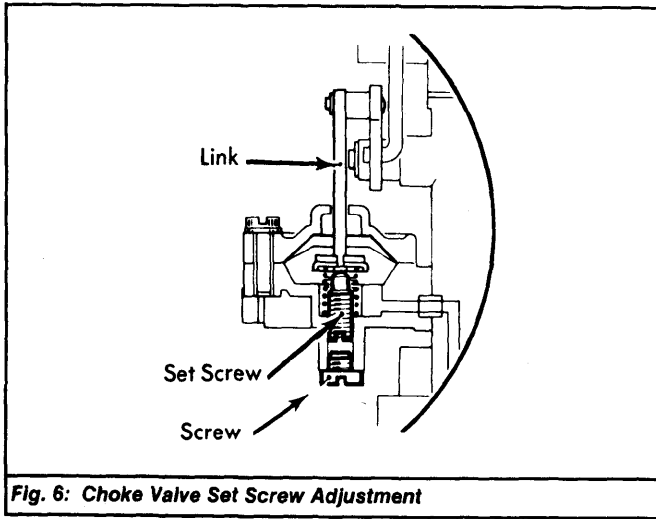


Fig. 5: Exploded View Of Weber DIR 2-Barrel Carburetor

# 1974-79 FUEL SYSTEMS

## Weber DARA & DIR 2-Barrel Carburetors (Cont.)



**Fig. 6: Choke Valve Set Screw Adjustment**

1976 DARA CARBURETOR ADJUSTMENT SPECIFICATIONS								
Application	Idle Speed (Engine RPM)		Float Level Setting In. (mm)	Float Drop Setting In. (mm)	Choke Linkage Mechanical In. (mm)	Choke Linkage Vacuum In. (mm)	Unloader Setting In. (mm)	Vacuum Break In. (mm)
	Hot	Fast						
Weber 32 DARA 10	800-900	1500	.28 (7)	.313 (8)	.28 (7)	.203-281 (5-7)	.....	.....
32 DARA 11	625-675	1500	.28 (7)	.313 (8)	.28 (11)	.203-281 (5-7)	.....	.....

1976 DIR CARBURETOR ADJUSTMENT SPECIFICATIONS								
Application	Idle Speed (Engine RPM)		Float Level Setting In. (mm)	Float Drop Setting In. (mm)	Choke Plate (Vacuum) In. (mm)	Choke Plate (Mech.) In. (mm)	Unloader Setting In. (mm)	Vacuum Break In. (mm)
	Hot	Fast						
DIR 46	750-800 <sup>①</sup>	1500 <sup>②</sup>	.281(7)	.313(8)	.234(6)	.203(5)	.....	.....
DIR 53	750-800	1500 <sup>②</sup>	.281(7)	.313(8)	.234(6)	.203(5)	.....	.....
DIR 56	750-800	1500 <sup>②</sup>	.281(7)	.313(8)	.281(7)	.157(4)	.....	.....

1977 DARA CARBURETOR ADJUSTMENT SPECIFICATIONS								
Carb. No.	Idle Speed (Engine RPM)		Float Level Setting In. (mm)	Float Drop Setting In. (mm)	Choke Linkage In. (mm)	Secondary Throttle In. (mm)	Unloader Setting In. (mm)	Vacuum Break In. (mm)
	Hot	Fast						
Weber M/T Models	800-900	1500	.281 (7)	.313 (8)	.281 (7)	.203-.281 (5-7)	.....	.....
A/T Models	625-675	1500	.281 (7)	.313 (8)	.281 (7)	.203-.281 (5-7)	.....	.....

① - With air pump - 750-850 RPM      ② - ±100 RPM

# 1974-79 FUEL SYSTEMS

2-137

## Weber DARA & DIR 2-Barrel Carburetors (Cont.)

1977 DIR CARBURETOR ADJUSTMENT SPECIFICATIONS								
Carb. No.	Idle Speed (Engine RPM)		Float Level Setting In. (mm)	Float Drop Setting In. (mm)	Choke Plate (Vacuum) In. (mm)	Choke Plate (Mech.) In. (mm)	Unloader Setting In. (mm)	Vacuum Break In. (mm)
	Hot	Fast						
DIR 53	750-800 <sup>⓪</sup>	1500 <sup>Ⓢ</sup>	.281 (7)	.313 (8)	.234 (6)	.203 (5)	.....	.....
DIR 55	750-800	1500 <sup>Ⓢ</sup>	.281 (7)	.313 (8)	.234 (6)	.203 (5)	.....	.....
DIR 56	750-800	1500 <sup>Ⓢ</sup>	.281 (7)	.313 (8)	.281 (7)	.157 (4)	.....	.....

1978 DIR CARBURETOR ADJUSTMENT SPECIFICATIONS								
Carb. No.	Idle Speed (Engine RPM)		Float Level Setting In. (mm)	Float Drop Setting In. (mm)	Choke Plate (Vacuum) In. (mm)	Choke Plate (Mech.) In. (mm)	Unloader Setting In. (mm)	Vacuum Break In. (mm)
	Hot	Fast						
DIR 53	750-800 <sup>⓪</sup>	1500 <sup>Ⓢ</sup>	.281 (7)	.313 (8)	.234 (6)	.203 (5)	.....	.....
DIR 55	800-900	1500 <sup>Ⓢ</sup>	.281 (7)	.313 (8)	.276 (7)	.197 (5)	.....	.....
DIR 56	800-900	1900 <sup>Ⓢ</sup>	.281 (7)	.313 (8)	.281 (7)	.157 (4)	.....	.....

1979 DIR CARBURETOR ADJUSTMENT SPECIFICATIONS								
Carb. No.	Idle Speed (Engine RPM)		Float Level Setting In. (mm)	Float Drop Setting In. (mm)	Choke Plate (Vacuum) In. (mm)	Choke Plate (Mech.) In. (mm)	Unloader Setting In. (mm)	Vacuum Break In. (mm)
	Hot	Fast						
DIR 55	800-900	1500 <sup>⓪</sup>	.276 (7.0)	.315 (8.0)	.276 (7.0)	.197 (5.0)	.....	.....
DIR 56	800-900	1900 <sup>⓪</sup>	.276 (7.0)	.315 (8.0)	.276 (7.0)	.157 (4.0)	.....	.....

⓪ — With air pump — 750-850 RPM

Ⓢ — ±100 RPM