

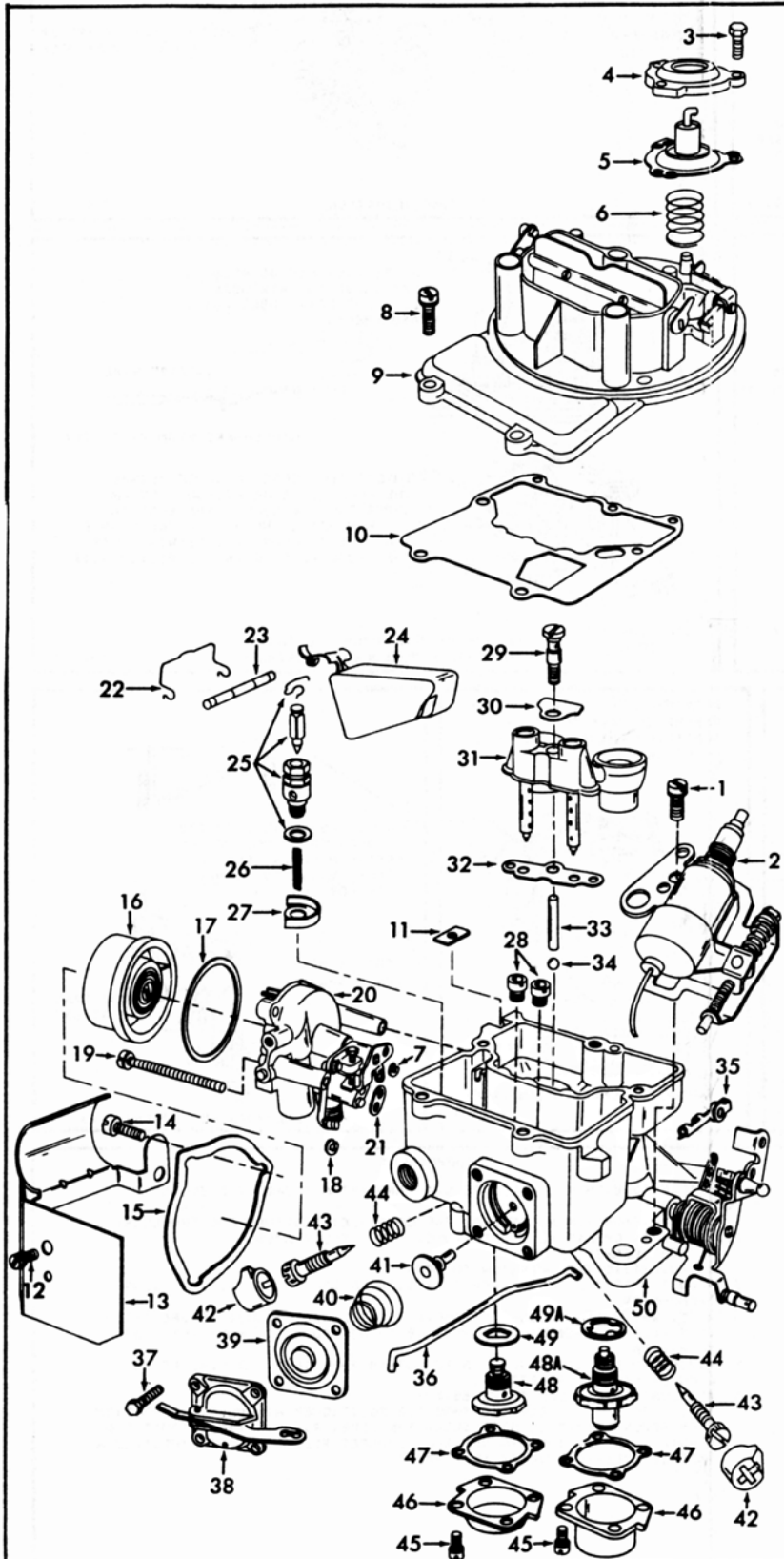
INSTRUCTION SHEET

AMERICAN MOTORS CARBURETOR — MODEL 2100-6200

50-491-1

GENERAL EXPLODED VIEW

THE GENERAL DESIGN AND PARTS SHOWN WILL VARY TO
INDIVIDUAL UNITS COVERED ON THIS INSTRUCTION SHEET



DISASSEMBLY

USE EXPLODED VIEW AS A GUIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTION. NOTE: TO REMOVE PLASTIC LIMITER CAPS (42) INSTALL A SHEET METAL SCREW IN THE CENTER OF THE CAP AND TURN CLOCKWISE.

NOMENCLATURE

REF. NO.	REF. NO.
1. SCREW & LOCKWASHER - THROTTLE POSITIONER	27. BAFFLE - NEEDLE SEAT
2. THROTTLE POSITIONER ASSY.	28. JET (2) - MAIN
3. SCREW (3) - MODULATOR COVER	29. SCREW - PUMP DISCHARGE NOZZLE
4. COVER - MODULATOR	30. PLATE - AIR DISTRIBUTION
5. DIAPHRAGM ASSY. - MODULATOR	31. VENTURI CLUSTER ASSY.
6. SPRING - DIAPHRAGM RETURN	32. GASKET - VENTURI CLUSTER
7. RETAINER - CHOKE ROD	33. WEIGHT - DISC. BALL
8. SCREW & LOCKWASHER (4) - BOWL COVER	34. BALL - DISCHARGE CHECK
9. BOWL COVER ASSEMBLY	35. RETAINER - PUMP ROD
10. GASKET - BOWL COVER	36. ROD - PUMP
11. SEAL - CHOKE ROD	37. SCREW (4) - PUMP COVER
12. SCREW (2) - CHOKE SHIELD	38. COVER & LEVER ASSY.
13. SHIELD - CHOKE	39. DIAPHRAGM - PUMP
14. SCREW (3) - RETAINER CHOKE COVER	40. SPRING - DIAPHRAGM RETURN
15. RETAINER - CHOKE COVER	41. VALVE - PUMP INLET
16. CHOKE COVER ASSY.	42. CAP (2) - IDLE LIMITER
17. GASKET - CHOKE COVER	43. NEEDLE (2) - IDLE ADJUSTING
18. RETAINER - FAST IDLE ROD	44. SPRING (2) - IDLE ADJ. SPRING
19. SCREW & LOCKWASHER (3) - CHOKE HOUSING ASSY.	45. SCREW & LOCKWASHER (4) - VALVE COVER
20. CHOKE HOUSING ASSY.	46. COVER - POWER VALVE
21. GASKET - CHOKE HOUSING	47. GASKET - COVER
22. RETAINER - FLOAT PIN	48. VALVE - POWER
23. PIN - FLOAT HINGE	48A. VALVE - POWER (1974 2 STAGE)
24. FLOAT & LEVER ASSY.	49. GASKET - POWER VALVE
25. NEEDLE, SEAT & GASKET ASSY.	49A. GASKET - POWER VALVE (1974)
26. SCREEN - NEEDLE SEAT	50. MAIN BODY ASSY.

CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL. USE A CARBURETOR CLEANING SOLVENT. MAKE CERTAIN THE THROTTLE BORES ARE FREE OF ALL CARBON AND VARNISH DEPOSITS. RINSE OFF IN SUITABLE SOLVENT. BLOW OUT ALL PASSAGES IN CASTINGS WITH COMPRESSED AIR AND CHECK CAREFULLY TO INSURE THOROUGH CLEANING OF OBSCURE AREAS CAUTION: DO NOT SOAK FLOAT, SOLENOIDS OR ANY PARTS CONTAINING OR COVERED WITH RUBBER OR DIAPHRAGM MATERIALS IN CLEANING SOLVENT.

REASSEMBLY

REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY. NOTE SPECIAL INSTRUCTIONS AND FOLLOW NUMERICAL OUTLINE IN MAKING ADJUSTMENTS NECESSARY FOR CARBURETOR BEING SERVICED.

SPECIAL INSTRUCTIONS

POWER VALVE (48) - USE CARE WHEN TIGHTENING TO PREVENT DISTORTION OF GASKET (49).

POWER VALVE COVER (46) - INSTALL WITH THE IDLE LIMITER STOPS TOWARDS MAIN BODY.

IDLE ADJUSTING NEEDLES (43) - TURN IN UNTIL SEATED, THEN BACK OUT 1 1/2 TURNS.

PUMP INLET CHECK VALVE (41) INSTALLATION - LUBRICATE TIP OF NEW VALVE AND INSERT IN CENTER HOLE OF PUMP CAVITY. USE NEEDLE NOSE PLIERS AND PULL THRU FROM FUEL BOWL SIDE UNTIL FULLY SEATED. CUT OFF VALVE TIP AT RETAINING SHOULDER.

PUMP DIAPHRAGM RETURN SPRING (40) INSTALLATION - INSTALL LARGE OPEN END OF SPRING OVER RUBBER INLET CHECK VALVE (41).

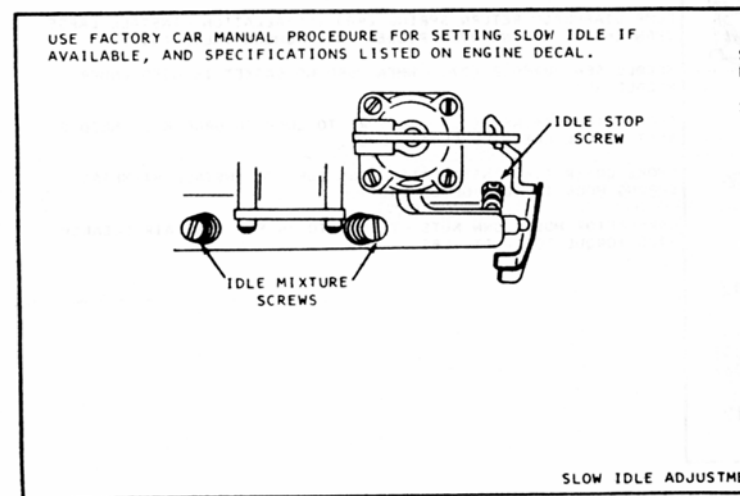
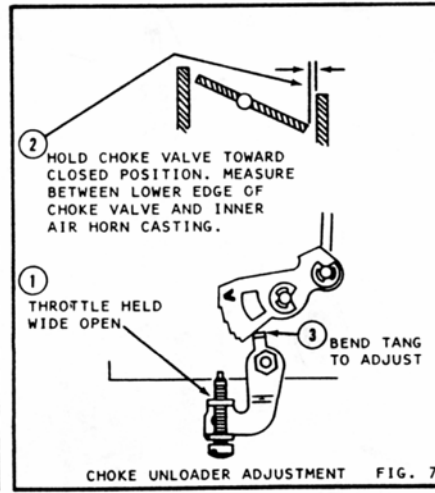
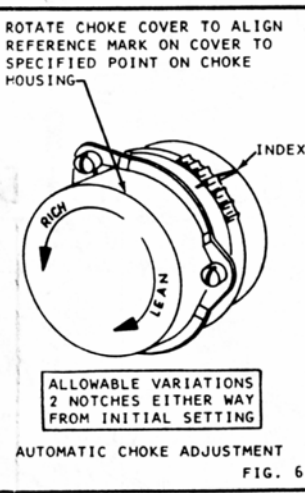
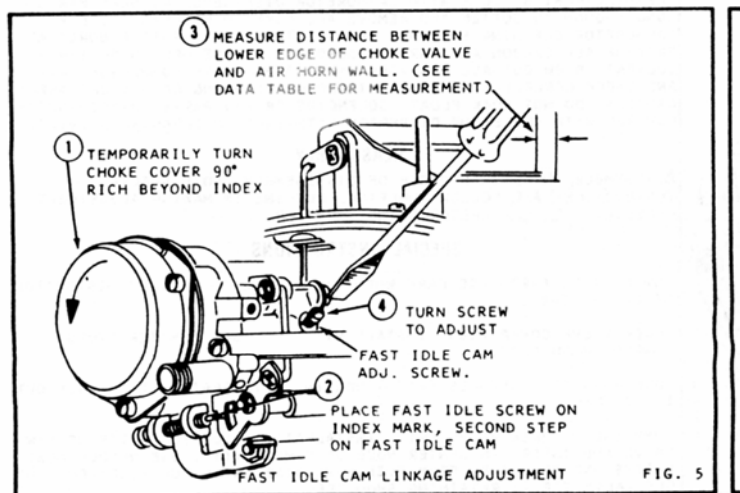
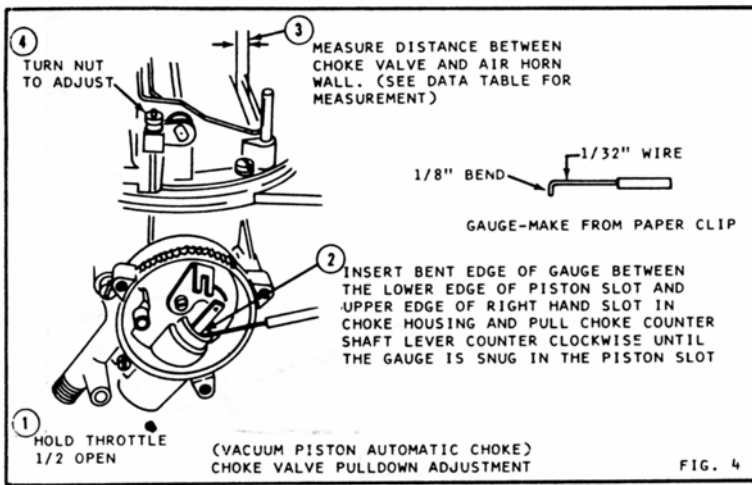
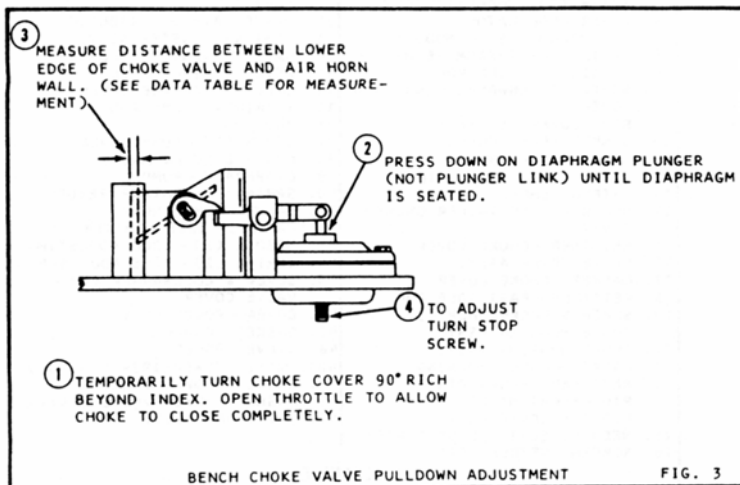
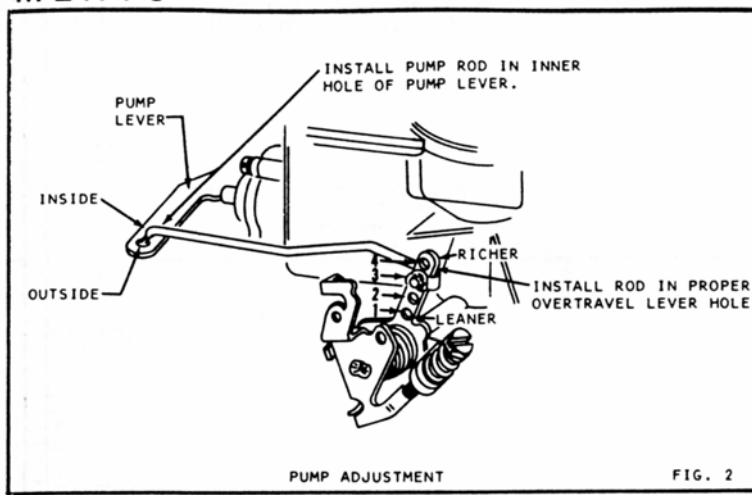
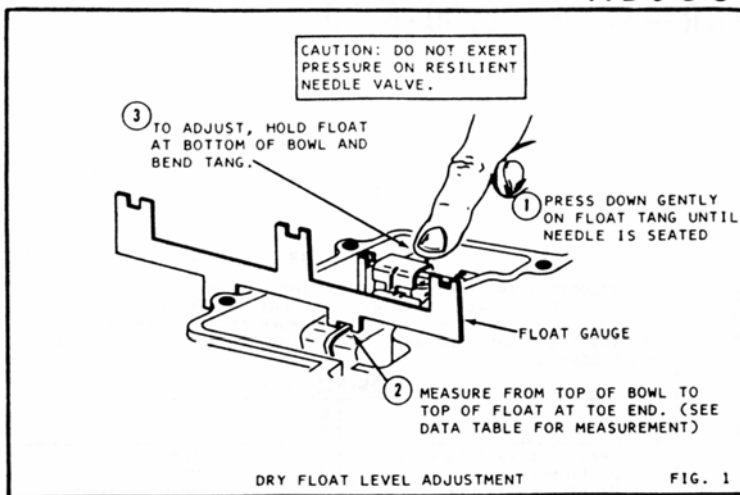
NEEDLE SEAT BAFFLE (27) - WHEN USED NO GASKET IS USED UNDER NEEDLE SEAT.

FLOAT PIN RETAINER (22) - BE SURE TO LOCK IN GROOVE ON NEEDLE SEAT BEFORE CHECKING FLOAT LEVEL.

CHOKE COVER (16) INSTALLATION - BE SURE TO INSTALL BI-METAL SPRING HOOK IN SLOT OF LEVER.

CARBURETOR HOLD DOWN NUTS - TORQUE TO 14 FT. LBS. AIR CLEANER STUD - TORQUE TO 10 FT. LBS.

ADJUSTMENTS



SUPPLEMENT

SLOW IDLE ADJUSTMENT PROCEDURE WITH AND WITHOUT THROTTLE SOLENOID POSITIONER.

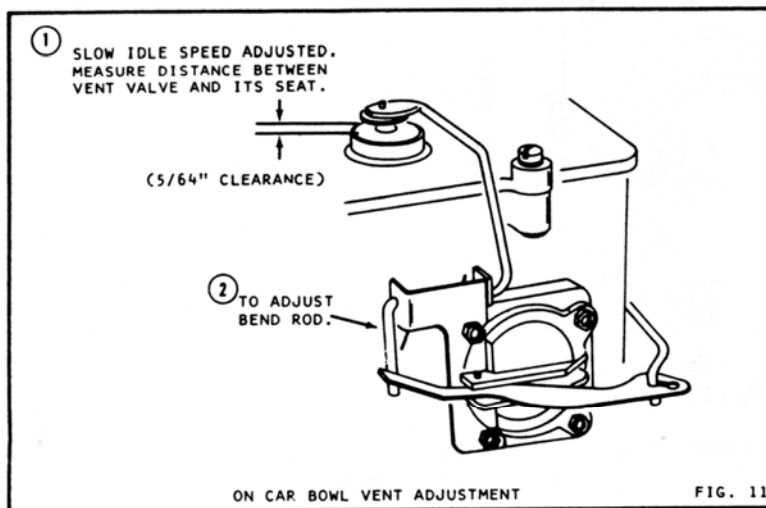
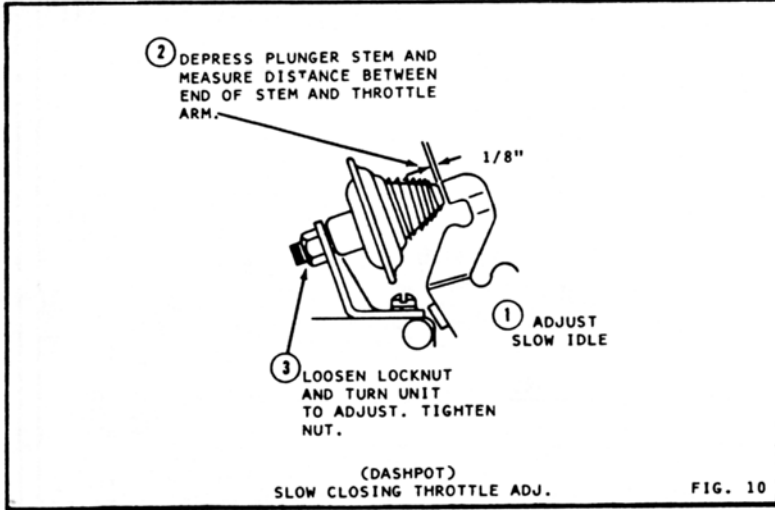
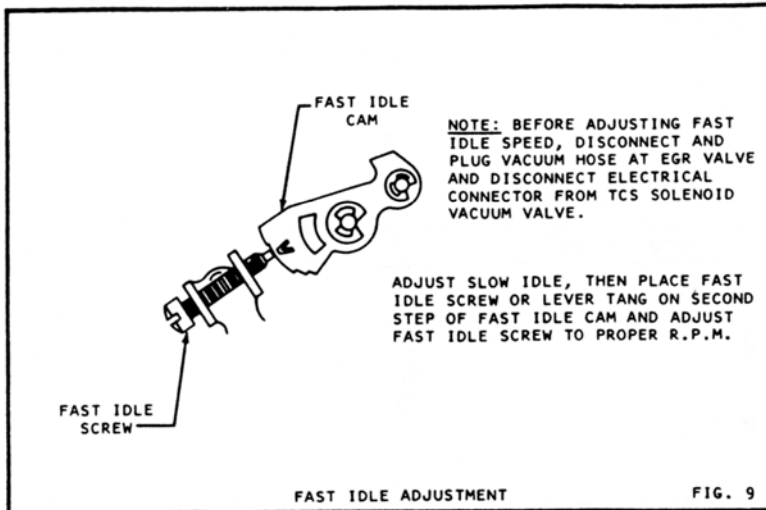
1. SET IGNITION TIMING PER CAR FACTORY SPECIFICATIONS AND PROCEDURE.
2. ENGINE AT OPERATING TEMPERATURE, CHOKE FULLY OPEN.
 - A. AIR CLEANER INSTALLED
 - B. AUTOMATIC TRANSMISSION IN DRIVE.
3. ADJUST THROTTLE STOP SCREW TO SPECIFIED IDLE SPEED R.P.M. USING A TACHOMETER.

NOTE: WHEN USED, ADJUST SOLENOID THROTTLE POSITIONER TO SPECIFIED IDLE SPEED (SOLENOID LEAD MUST BE CONNECTED SO SOLENOID WILL BE ENERGIZED.)
4. ADJUST IDLE MIXTURE NEEDLES TO OBTAIN THE HIGHEST R.P.M. AT THE LEANEST BEST IDLE SETTING.
5. READJUST IDLE SPEED IF NECESSARY.

NOTE: DISCONNECT SOLENOID THROTTLE POSITIONER AT BULLET CONNECTION THEN ADJUST THROTTLE STOP SCREW FOR LOWER R.P.M. WITH AUTOMATIC OR MANUAL TRANSMISSIONS IN NEUTRAL. CONNECT SOLENOID, OPEN THROTTLE AND RELEASE, RECHECK HIGHER IDLE SPEED.

FIG. 8

ADJUSTMENTS



ADJUSTMENT DATA TABLE

YEAR	MAKE		DRY FLOAT LEVEL	PUMP OVERTRAVEL LEVER HOLE	CHOKE VALVE PULLDOWN	FAST IDLE CAM LINKAGE ADJ.	AUTOMATIC CHOKE SETTING	UNLOADER	SLOW IDLE R.P.M.	FAST IDLE R.P.M.
1968	AMERICAN MOTORS INCLUDES JEEP 290" 343" ENG.	A/T	3/8"	NO. 3	9/64"	7/64"	INDEX	5/64"	550 DR.	1600
		S/T	3/8"	NO. 3	1/8"	7/64"	INDEX	5/64"	650	1600
1969	290" 343" ENG.	A/T	1/2"	NO. 3	9/64"	7/64"	INDEX	5/64"	550 DR.	1600
		S/T	1/2"	NO. 3	1/8"	7/64"	INDEX	5/64"	650	1600
1970	304" ENG.	A/T	3/8"	NO. 3	3/16"	11/64"	2-RICH	13/64"	600 DR.	1600
		S/T	3/8"	NO. 3	3/16"	11/64"	INDEX	13/64"	650	1600
1971	360" ENG. 304" 360" ENG.	A/T	3/8"	NO. 3	3/16"	11/64"	1-RICH	13/64"	600 DR.	1600
		S/T	3/8"	NO. 3	3/16"	11/64"	2-RICH	13/64"	650 DR.	1600
1972	304" 360" ENG.	A/T	3/8"	NO. 3	1/8"	1/8"	1-RICH	13/64"	750	1600
		S/T	3/8"	NO. 3	9/64"	1/8"	2-RICH	13/64"	650/700	1600
1973	304" 360" ENG.	A/T	3/8"	NO. 3	1/8"	7/64"	1-RICH	13/64"	750	1600
		S/T	3/8"	NO. 3	1/8"	7/64"	2-RICH	1/4"	700 DR.	1600
1974	304" 360" ENG.	A/T	13/32"	NO. 3	9/64"	9/64"	1-RICH	1/4"	750	1600
		S/T	13/32"	NO. 3	1/8"	1/8"	1-RICH	1/4"	E/D	1600
	CARB. NO. 4RDH2		3/8"	NO. 3	9/64"	1/8"	2-RICH	1/4"	E/D	1600