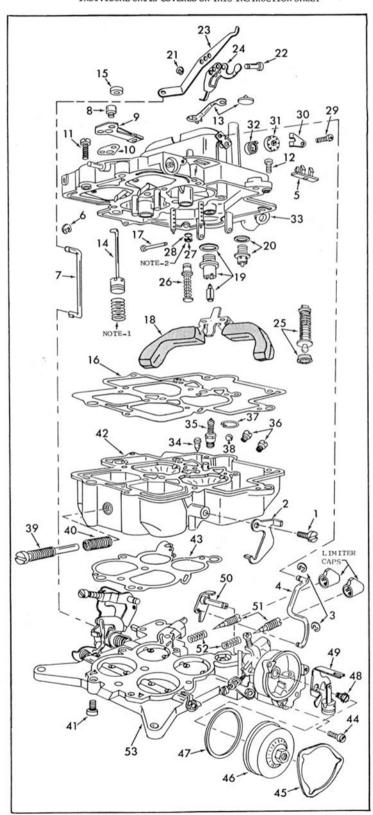
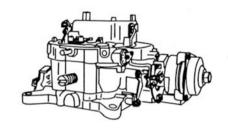
INSTRUCTION SHEET MOTORCRAFT CARBURETOR — MODEL 4300A, D

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: REMOVE STAKING FROM BOWL COVER FOR EASY REMOVAL OF POWER PISTON ASSEMBLY (26). 1968 AND LATER MODELS HAVE IDLE SCREW LIMITER CAPS. TO REMOVE CAPS INSTALL A SHEET METAL SCREW IN THE CENTER OF THE CAP AND TURN CLOCKWISE.

NOMENCLATURE

REF. NO.		REF. NO.	
	SCREW - SECONDARY LOCKOUT LEVER		VALVE - PUMP AIR BLEED
	LEVER - SECONDARY LOCKOUT	29.	SCREW - AIR VALVE SPRING
	RETAINERS (2) CHOKE ROD		HOUSING CLAMP
	ROD - CHOKE	30.	CLAMP - AIR VALVE SPRING
	SEAL - CHOKE ROD DUST		HOUSING
	RETAINER - PUMP ROD		HOUSING - AIR VALVE SPRING
	ROD - PUMP		SPRING - AIR VALVE 1966-68
8.	SCREW (2) HOT IDLE COMPENSATOR		BOWL COVER ASSEMBLY
^	VALVE		NEEDLE - PUMP DISCHARGE
	VALVE - HOT IDLE COMPENSATOR		VALVE - POWER
10.	GASKET - HOT IDLE COMPENSATOR VALVE		JETS (2) MAIN
	SCREW - (1) BOWL COVER		RETAINER - PUMP INTAKE BALL
	SCREW - (1) BOWL COVER		BALL - PUMP INTAKE IDLE AIR BYPASS SCREW
	VALVE - IDLE VENT		SPRING - IDLE AIR BYPASS SCREW
	PISTON & ROD ASSY AIR VALVE		SCREW (6) - THROTTLE BODY
	WASHER- AIR VALVE ROD		BOWL ASSEMBLY - FLOAT
	GASKET - BOWL COVER		GASKET - THROTTLE BODY
	PIN - FLOAT HINGE		SCREW (3) - STAT RETAINER
	FLOAT & LEVER ASSEMBLY		RETAINER - STAT
	NEEDLE, SEAT & GASKET ASSY. PRI.		
	NEEDLE, SEAT & GASKET ASSY. SEC.		
	RETAINER - PUMP LEVER PIN		SCREW & LOCKWASHER - CHOKE
	PIN - PUMP LEVER	40.	PISTON & LINK
	LEVER - PUMP	40	PISTON & LINK - CHOKE
	LEVER - IDLE VENT VALVE		SHAFT & LEVER - CHOKE HOUSING
	PUMP ASSEMBLY		NEEDLES - IDLE ADJUSTING
	POWER PISTON ASSEMBLY		SPRINGS - IDLE ADJ. NEEDLES
	RETAINER - PUMP AIR BLEED VALVE		
NOT	E 1: 1969 & LATER-SECONDARY		

CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL. USE (1) A CARBURETOR CLEANING SOLVENT, (2) LACQUER THINNER OR (3) DENATURED ALCOHOL. 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 RUBBER PARTS OR FLOAT (18) IN SOLVENT.

REASSEMBLY

REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY, NOTE SPECIAL INSTRUCTIONS AND FOLLOW NUMERICAL OUTLINE IN MAKING ADJUSTMENTS. (SEE ADJUSTMENTS.)

SPECIAL INSTRUCTIONS

POWER VALVE (35) - IF A NYLON POWER VALVE SPRING RETAINER IS USED, REPLACE WITH RETAINER IN KIT. DO NOT REPLACE IF RETAINER ON VALVE IS METAL.

FLOAT HINGE PIN INSTALLATION (17) - INSTALL SO HEAD OF PIN IS ON PUMP SIDE.

POWER PISTON INSTALLATION - LIGHTLY STAKE CASTING AROUND WASHER.

PUMP AIR BLEED VALVE RETAINER (27) - INSTALL FLUSH WITH BOWL COVER.

BOWL COVER SCREW (11) SPECIAL - INSTALL WHERE SHOWN ON EXPLODED VIEW.

AIR VALVE SPRING (32) INSTALLATION - INSTALL OPEN END OF SPRING HOOK TO THE LEFT AT BOTTOM OF HOUSING CAVITY.

IDLE ADJUSTING NEEDLES (51) - TURN EACH NEEDLE INTO SEAT LIGHTLY AND THEN BACK OUT 1 $1/2\,$ TURNS.

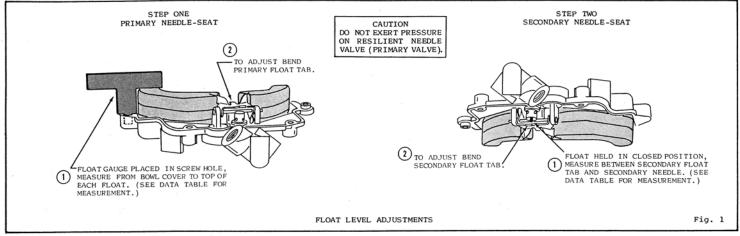
IDLE AIR BYPASS SCREW (39) - TURN IN UNTIL SEATED, THEN BACK OUT 3 1/2 TURNS.

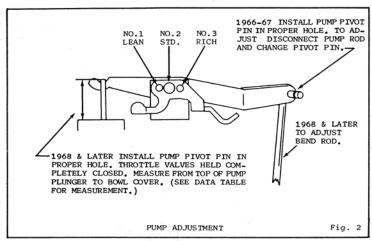
STAT COVER INSTALLATION (46) - BE SURE STAT SPRING IS PLACED IN SLOT OF VACUUM PISTON LEVER (49).

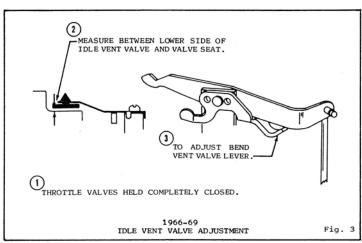
DASHPOT BRACKET IF USED - BE SURE TO INSTALL IT BEFORE INSTALLING THROTTLE BODY TO FUEL BOWL.

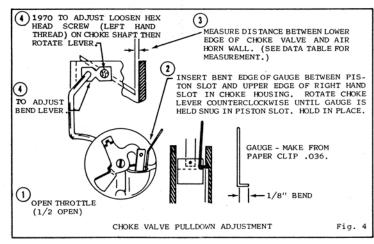
CARBURETOR HOLD DOWN NUTS. - TORQUE TO 14 FT. LBS.

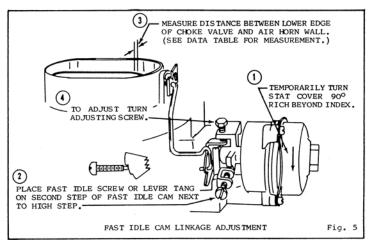
ADJUSTMENTS

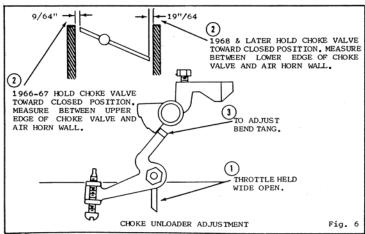


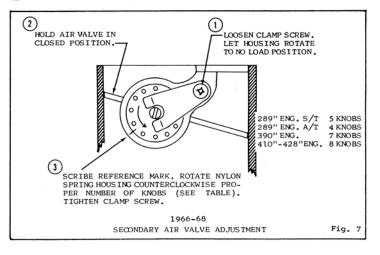










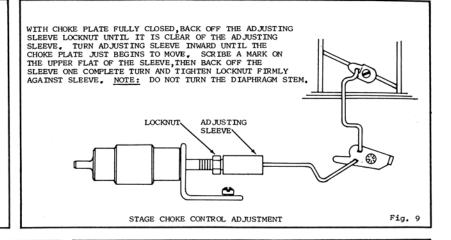


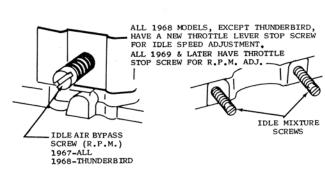
ROTATE STAT COVER AGAINST SPRING TENSION. SET MARK ON COVER TO SPECIFIED POINT ON CHOKE HOUSING. (SEE DATA TABLE FOR MEASUREMENT.)

ALLOWABLE VARIATIONS 2 NOTCHES EITHER WAY FROM INITIAL SETTING.

AUTOMATIC CHOKE SETTING

Fig. 8





USE FACTORY CAR MANUAL PROCEDURE FOR SETTING SLOW IDLE IF AVAILABLE, AND SPECIFICATIONS LISTED ON ENGINE DECAL.

SUPPLEMENT

SLOW IDLE ADJUSTMENT PROCEDURE WITH AND WITHOUT THROTTLE SOLENOID POSITIONER.

- SET IGNITION TIMING PER CAR FACTORY SPECIFICATIONS.
 ENGINE AT OPERATING TEMPERATURE, CHOKE FULLY OPEN
 A. AIR CLEANER INSTALLED.
 - - HEADLIGHTS ON HIGH BEAM. AUTOMATIC TRANSMISSION IN DRIVE.
- C. AUTOMATIC TRANSMISSION IN DRIVE.
 D. HOT IDLE COMPENSATOR VALVE CLOSED.
 E. VACUUM LINE DISCONNECTED FROM VACUUM RELEASE
 PARKING BRAKE, AND LINE PLUGGED.
 F. THERMACTOR EQUIPPED CARS: THERMAL SENSING VALVE
 VACUUM LINE DISCONNECTED AND PLUGGED.
 G. AIR CONDITIONER ON. 1967-69 MODELS ONLY.
 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.)
 ADJUST IDLE MIXTURE NEEDLES TO OBTAIN THE HIGHEST
 R.P.M. AT THE LEANEST BEST IDLE SETTING.
 READJUST IDLE SPEED IF NECESSARY.
 NOTE: DISCONNECT SOLENOID THROTTLE POSITIONER AT BULLET
 CONNECTION THEN ADJUST THROTTLE STOP SCREW FOR LOWER

- CONNECT SOLENOID THROTTLE STOP SCREW FOR LOWER R.P.M. WITH AUTOMATIC OR MANUAL TRANSMISSION IN NEUTRAL. CONNECT SOLENOID, OPEN THROTTLE AND RELEASE, RECHECK HIGHER IDLE SPEED.

SLOW IDLE SPEED ADJUSTMENT

Fig. 10

ADJUST SLOW IDLE, THEN PLACE FAST IDLE SCREW OR LEVER TANG ON SECOND STEP OF FAST IDLE CAM AND ADJUST FAST IDLE SCREW TO PROPER R.P.M. NOTE: ELECTRONIC SPARK CONTROL OR TRANSMISSION REGULATED SPARK SYSTEM WITH AMBIENT TEMPERATURE ABOVE 55°F. CONNECT A VACUUM LINE DIRECTLY FROM CARBURETOR SPARK PORT TO ADVANCE SIDE OF DISTRIBUTOR (i.e. BY-PASSING THE SPARK CONTROL SYSTEM).

