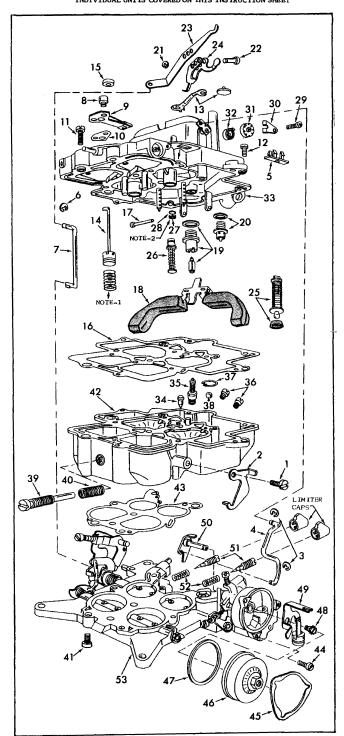
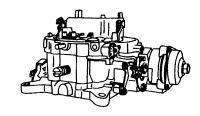
INSTRUCTION SHEET MOTORCRAFT CARBURETOR — MODEL 4300A. D

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

NOMENCEATORE	
REF. NO.	REF. NO.
1. SCREW - SECONDARY LOCKOUT LEVER 2. LEVER - SECONDARY LOCKOUT 3. RETAINERS (2) CHOKE ROD 4. ROD - CHOKE 5. SEAL - CHOKE ROD DUST 6. RETAINER - PUMP ROD 7. ROD - PUMP 8. SCREW (2) HOT IDLE COMPENSATOR VALVE 9. VALVE - HOT IDLE COMPENSATOR 10. GASKET - HOT IDLE COMPENSATOR 11. SCREW - (1) BOWL COVER 12. SCREW - (10) BOWL COVER 13. VALVE - IDLE VENT 14. PISTON & ROD ASSY AIR VALVE 15. WASHER - AIR VALVE ROD 16. GASKET - BOWL COVER 17. PIN - FLOAT HINGE 18. FLOAT & LEVER ASSEMBLY 19. NEEDLE, SEAT & GASKET ASSY. PRI. 20. NEEDLE, SEAT & GASKET ASSY. SEC. 21. RETAINER - PUMP LEVER PIN 22. PIN - PUMP LEVER PIN 22. PIN - PUMP LEVER PIN 24. LEVER - PUMP 24. LEVER - PUMP 24. LEVER - FUND AIR BLEED VALVE 25. PUMP ASSEMBLY 26. POWER PISTON ASSEMBLY 27. RETAINER - PUMP AIR BLEED VALVE	29. SCREW - AIR VALVE SPRING HOUSING CLAMP 30. CLAMP - AIR VALVE SPRING HOUSING 31. HOUSING - AIR VALVE SPRING 32. SPRING - AIR VALVE 1966-68 33. BOWL COVER ASSEMBLY 34. NEEDLE - PUMP DISCHARGE 35. VALVE - FOWER 36. JETS (2) MAIN 37. RETAINER - PUMP INTAKE 39. IDLE AIR BYPASS SCREW 40. SPRING - IDLE AIR BYPASS SCREW 41. SCREW (6) - THROTTLE BODY 42. BOWL ASSEMBLY - FLOAT 43. GASKET - THROTTLE BODY 44. SCREW (3) - STAT RETAINER 45. RETAINER - STAT 46. STAT COVER & SPRING ASSY. 47. GASKET - STAT COVER 48. SCREW & 10. CANWASHER - CHOKE PISTON & LINK 49. PISTON & LINK 50. SHAFT & LEVER - CHOKE HOUSING 51. NEEDLES - IDLE ADJ. NEEDLES 52. SPRING S - IDLE ADJ. NEEDLES 52. SPRING S - IDLE ADJ. NEEDLES
NOTE 1: 1969 & LATER-SECONDARY AIR VALVE SPRING, NO ADJUSTMENT	

REQUIRED. NOTE 2: REF, NO. 27 & 28 NOT REQUIRED AFTER 1971.

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

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.

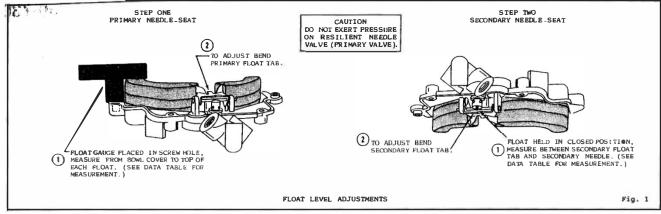
IDLE AIR BYPASS SCREW (39) - TURN IN UNTIL SEATED, THEN BACK OUT 3 1/2 TURNS.

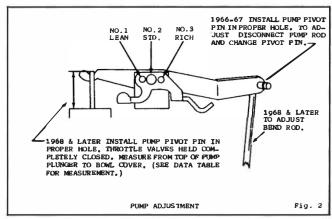
STAT COVER INSTALLATION (46) - BE SURE STAT SPRING IS PLACED IN SLOT OF VACUUM PISTON LEVER (49).

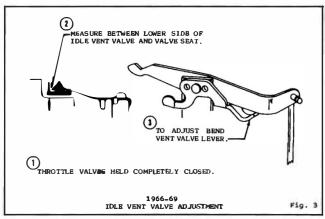
DASHPOT BRACKET IF USED - BE SURE TO INSTALL IT BEFORE INSTALLING THROTTLE BODY TO FUEL BOWL.

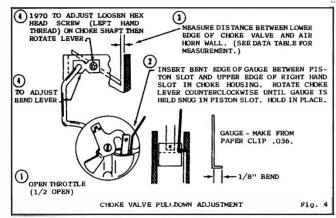
CARBURETOR HOLD DOWN NUTS. - TORQUE TO 14 FT. LBS.

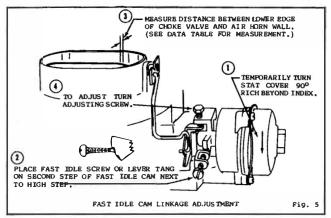
ADJUSTMENTS

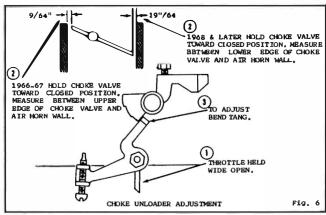


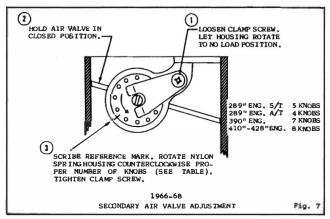










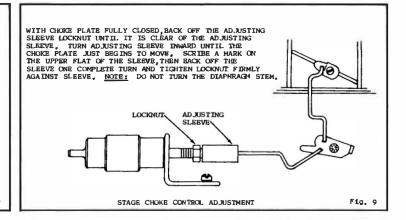


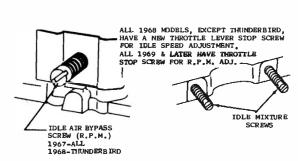
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ROTATE STAT COVER AGAINSTSPRING TENSION, SET MARK ON COVER TO SPECIFIED POINT ON CHOKE HOUSING, (SEE DATA TABLE FOR MEASUREMENT.) ALLOWABLE VARIATIONS 2 NOTCHES EITHER WAY FROM INITIAL SETTING.

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

- SLOW IDLE ADJUSTMENT PROCEDURE WITH AND WITHOUT THROTTLE SOLENOID POSITIONER,

 1. SET IGNITION TIMING PER CAR FACTORY SPECIFICATIONS,

 2. ENGINE AT OPERATING TEMPERATURE, CHOKE FULLY OPEN

 A. AIR CLEANER INSTALLED,

 B. HEADLIGHTS ON HIGH BEAM,

 C. AUTOMATIC TRANSMISSION IN DRIVE,

 D. HOT IDLE COMPENSATOR VALVE CLOSED,

 E. VACIUM LINE DISCONNECTED FROM VACUUM RELEASE PARKING BRAKE, AND LINE PLUIGED.

 F. THERMACTOR EQUIPPED CARS: THERMAL SENSING VALVE VACUUM LINE DISCONNECTED AND PLUGGED.

 G. AIR CONDITIONER ON. 1967-69 MIDELS ONLY,

 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 MIST BE CONNECTED SO SOLENOID WILL BE ENERGIZED.)

 4. ADJUST TOLE MINTIME NEEDLES TO OBTAIN THE HIGHEST R.P.M. AT THE LEANEST BEST DILE SETTING.

 5. READJUST DILE SPEED IF INSCESSABY,

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

SLOW IDLE SPEED ADJUSTMENT

Fig. 10

ADJUST SLOW IDLE, THEN PLACE FAST IDLE SCREW OR LEVER TANG ON SWCOND STEP OF FAST IDLE CAM AND ADJUST FAST IDLE SCREW NOTE: ELECTRONIC SPARK CONTROL OR TRANSMISSION REGULATED SPARK SYSTEM WITH AMBIENT TEMPERATURE ABOVE 55°F, CONNECT A VACUUM LINE DIRECTLY PROM CARBURETOR SPARK PORT TO ADVANCE SIDE OF DISTRIBUTOR (1.e. BY-PASSING THE SPARK CONTROL SYSTEM).

DISCONNECT THE VACUUM SUPPLY LINE TO THE EGR VALVE AND PLUG 1 FAST IDLE FAST IDLE \odot FAST TOLE AD RISTMENT Fig. 11

