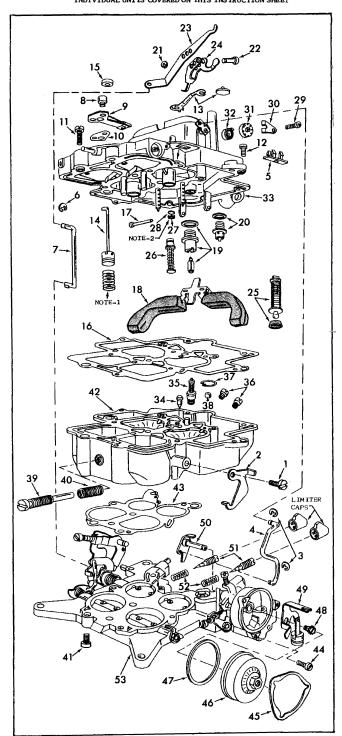
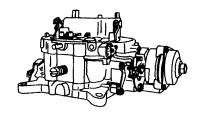
INSTRUCTION SHEET MOTORCRAFT CARBURETOR — MODEL 4300A. D

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.

NOMENCI ATIIRE

NUMENCLATURE	
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 VALVE 10. GASKET - HOT IDLE COMPENSATOR VALVE 11. SCREW - (1) BOWL COVER 12. SCREW - (1) BOWL COVER 13. VALVE - IDLE VENT 14. PISTON & ROD ASSY AIR VALVE 15. WASHER - ATR VALVE ROD 16. GASKET - BOWL COVER 17. PIN - FLOAT HINGE 18. FLOAT & LEVER ASSEMBLY 19. NEEDLE, SRAT & GASKET ASSY. SEC. 21. RETAINER - PUMP LEVER PIN 22. PLINER - PUMP LEVER 23. LEVER - PUMP 24. LEVER - PUMP 24. LEVER - PUMP 25. PUMP ASSEMBLY 26. FOWER PISTON ASSEMBLY 27. RETAINER - PUMP 28. FUMP ASSEMBLY 27. RETAINER - PUMP AIR BLEED VALVE 28. FUMF ASSEMBLY 29. FUMF ASSEMBLY 21. FERTAINER - PUMP AIR BLEED VALVE 27. RETAINER - PUMP AIR BLEED VALVE 28. FOWER PISTON ASSEMBLY 29. FURF ASSEMBLY 29. FURF ASSEMBLY 20. FOWER PISTON ASSEMBLY 29. RETAINER - PUMP AIR BLEED VALVE 20. FOWER PISTON ASSEMBLY 29. RETAINER - PUMP AIR BLEED VALVE 20. FOWER PISTON ASSEMBLY 29. RETAINER - PUMP AIR BLEED VALVE 20. FOWER PISTON ASSEMBLY 29. RETAINER - PUMP AIR BLEED VALVE 20. FOWER PISTON ASSEMBLY 29. RETAINER - PUMP AIR BLEED VALVE 20. FOWER PISTON ASSEMBLY 29. RETAINER - PUMP AIR BLEED VALVE 20. FOWER PISTON ASSEMBLY 29. RETAINER - PUMP AIR BLEED VALVE 20. FOWER PISTON ASSEMBLY 29. RETAINER - PUMP AIR BLEED VALVE 20. FOWER PISTON ASSEMBLY 29. RETAINER - PUMP AIR BLEED VALVE 20. FOWER PISTON ASSEMBLY 29. RETAINER - PUMP AIR BLEED VALVE 20. FOWER PISTON ASSEMBLY 20. FOR THE TORSON AND	29. SCREW - AIR VALVE SPRING HOUSING CLAMP 30. CLAMP - AIR VALVE SPRING HOUSING 11. HOUSING - AIR VALVE SPRING 32. SPRING - AIR VALVE 1966-68 33. BOWL COVER ASSEMBLY 34. NEEDLE - PUMP DISCHARGE 35. VALVE - POWER 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 45. STAT COVER & SPRING ASSY. 47. GASKET - STAT COVER 48. SCREW & LOCKWASHER - CHOKE PISTON & LINK 49. PISTON & LINK - CHOKE 50. SHAFT & LEVER - CHOKE HOUSING 51. NEEDLES - IDLE ADJ. NEEDLES 52. SPRINGS - IDLE ADJ. NEEDLES
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.

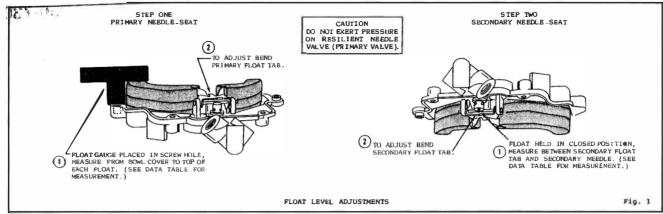
IDLE AIR BYPASS SCREW (39) - TURN IN UNTIL SEATED, THEN BACK OUT 3 1/2 TURNS.

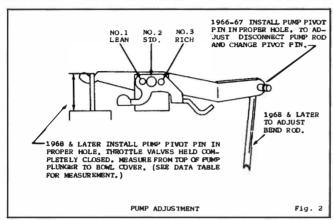
STAT COVER INSTALLATION (46) - BE SURE STAT SPRING IS PLACED IN SLOT OF VACUUM PISTON LEVER (49).

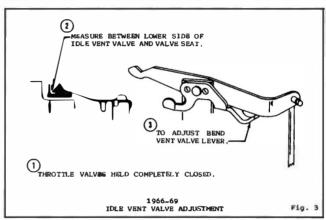
DASHPOT BRACKET IF USED - BE SURE TO INSTALL IT BEFORE INSTALLING THROTTLE BODY TO FUEL BOWL.

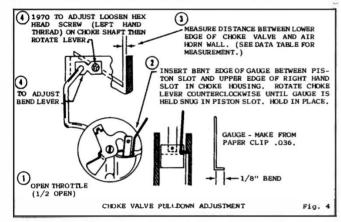
CARBURETOR HOLD DOWN NUTS. - TORQUE TO 14 FT. LBS.

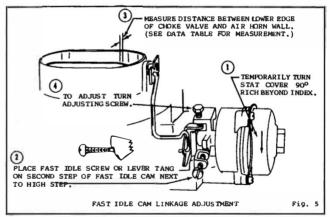
ADJUSTMENTS

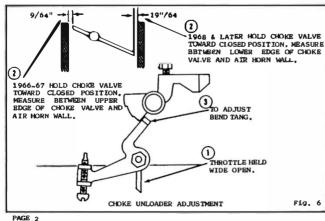


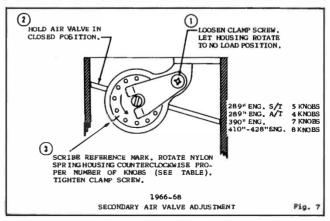








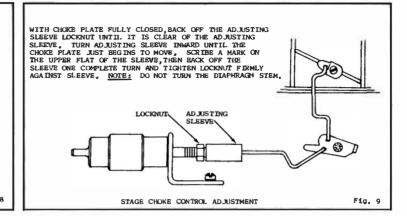


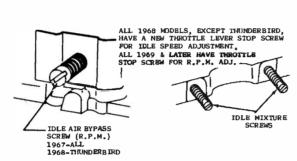


ROTATE STAT COVER AGAINSTSPRING TENSION, SET MARK ON COVER TO SPECIFIED POINT ON CHOKE HOUSING. (SEE DATA TABLE FOR MEASUREMENT.) ALLOWABLE VARIATIONS
2 NOTCHOSE BITHER WAY
FROM INITIAL SETTING.

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 POSTTIONER,

- EMOID POSITIONER.

 SET IGNITION TIMING PER CAR FACTORY SPECIFICATIONS.

 ENGINE AT OPERATING TEMPERATURE, CHOKE FULLY OPEN
 A. AIR CLEANER INSTALLED.
 B. HEADLIGHTS ON HIGH BEAM,
 C. AUTOMATIC TRANSMISSION IN DRIVE.

- B. HEADLIGHTS ON HIGH BEAM,
 C. AUTOMATIC TRANSMISSION IN DRIVE,
 D. HOT IDLE COMPENSATOR VALVE CLOSED,
 E. VACUUM LINE DISCONNECTED FROM VACUUM RELEASE
 PARKING BRAKE, AND LINE PLUGGED.
 F. THERNACTOR 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 MIST BE CONNECTED
 SO SOLENOID WILL BE ENERGIZED.)
 ADJUST IDLE MOXTME NEEDLES TO OBTAIN THE HIGHEST
 R.P.M. AT THE LEAMEST BEST IDLE SETTING.
 READJUST IDLE SPEED IN NOTE: DISCONNECT SOLENOID TROTTLE POSITIONER AT BULLET
 CONNECTION 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 IDLE SPEED.

SLOW IDLE SPRED ADJISTMENT

Fig. 10

ADJUST SLOW IDLE, THEN PLACE FAST IDLE SCREW OR LEVER TANG ON SQCOND 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 PROM CARBURETOR SPARK PORT TO ADVANCE SIDE OF DISTRIBUTOR (1.e. BY-PASSING THE SPARK CONTROL SYSTEM). DISCONNECT THE VACUUM SUPPLY LINE TO THE ECR VALVE AND PLUG THE LINE. T FAST IDLE FAST IDLE 0 FAST IDLE AD RISTMENT Fig. 11

