FUEL SYSTEM

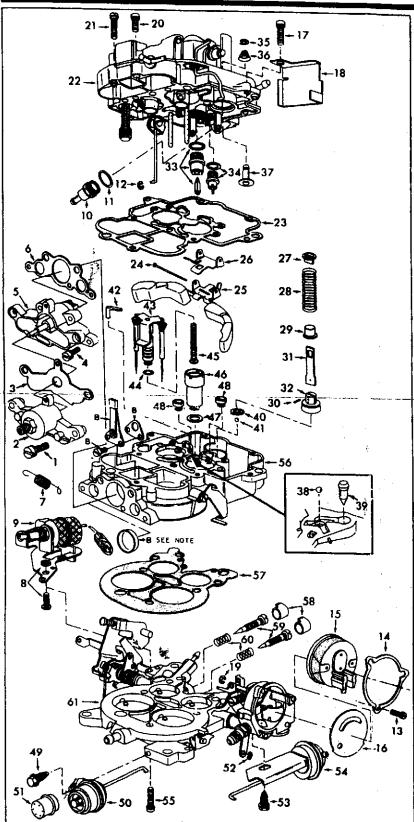
SERVICE INSTRUCTION WORKSHEET

TO REPAIR

GF-3803-2

MOTORCRAFT CARBURETOR

4 BARREL-Model 4350



NOTE: Callouts marked "B" belong with Hot Idle Compensator Assembly.

Do not remove unless replacements are required.

- Caratelly read the text in the feltewing pages to become familiar with the contents of this workshoot before performing carbonator everhand.
 The exploded view is typical of the model carbonator this kit will service. The view may differ slightly from the actual carbonator being overhaused.
 Use the exploded view as a guide. The numerical sequence of the parts list may generally be followed to disassemble the carbonator far enough to permit cleaning and inspection.
- 4. Parts list shown DOES NOT reflect the contents of the kit.

 5. Kit may contain extra parts intended for other carburetors within this group. Substitute identical replacement parts for original worm parts found in carburetor.

CLEANING

Cleaning must be done with carburetor disassembled. Use spray cleaner and a stiff bristle brush to remove dirt and carbon deposits: Do not use abrasives and wires to clean parts and passageways. Wash off in suitable solvent, and clear all passageways with compressed air. Caustles: When cleaning with solvent do not soak or spray parts containing rubber, leather, plastic and electrical components.

PARTS LIST

- Screw, aneroid body (3)
 Aneroid body
 Gasket, aneroid body
 Screw, poppet valve (3)
 Poppet valve body

- 5. Poppet valve body
 6. Gasket, poppet valve body
 7. Spring, lever return
 8. Screw & aut., solenoid bracket
 9. Solenoid switch, throttle adjust
 10. Fuel fitting & filter assembly
 11. Gasket, fuel fitting
 12. Retainer, pump linkage
 13. Screw, retainer (3)
 14. Retainer, choke thermostat cover

- Choke thermostat cover
- 15. Choke thermostat cover
 16. Gasket, choke thermostat cover
 17. Screw, choke thermostat cover barrier
 18. Barrier, choke thermostat housing
 19. Retainer, choke rod
 20. Screw, air horn assembly (8)
 21. Screw, air horn assembly (short-1)
 22. Air horn assembly
 23. Gasket, air horn assembly
 24. Rod, float assembly
 25. Float assembly
 26. Float drop limiter (some models)
 27. Retainer, pump spring
 28. Spring, pump return
 29. Retainer, collar, pin
 30. Pin, pump piston
 31. Shaft, pump
 32. Cup, pump piston

- 31. Shaft, pump
 32. Cup, pump piston
 33. Needle, seat & gasket (primary)
 34. Needle & gasket (secondary)
 35. Retainer, bowl vent spring
 36. Sspring, bowl vent
 37. Vaive, bowl vent
 38. Bail, pump vent check (small)
 39. Needle, pump discharge
 40. Retainer, ball check
 41. Ball check, pump inlet (large)
 42. Retainer vacuum piston assembly
 43. Metering rod & vacuum piston assembly
 44. O-ring, vacuum piston spring
 46. Cylinder sleeve, vacuum piston
 47. Gasket, vacuum cylinder sleeve
 48. Jets, main metering
 49. Screw, choke pull-off assembly
 50. Choke pull-off assembly
 51. Filter cap
 52. Retainer, throttle positions and (see the

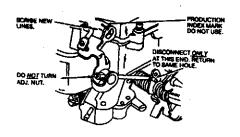
- 50. Choke pull-on assembly
 51. Filter cap
 52. Retainer, throttle positioner rod (truck only)
 53. Screw, throttle positioner (truck only)
 54. Throttle positioner assembly
 55. Screw, main body (6)

- 56. Main body 57. Gasket, main body to throttle body
- 58. Limiter cap (2) (some models) 59. Idle mixture screw (2)
- 60. Spring, idle mixture screw (2) 61. Throttle body assembly

DISASSEMBLY

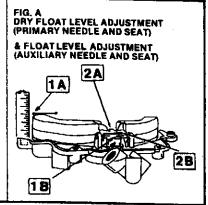
Note: Before assembly, set throttle at fast idle position and scribe a new index line as shown.

Note: 1976 to 1978 Before removal of vacuum piston metering rod assembly. Lightly press down and measure the clearance between hanger and top of vacuum piston, record reading. (See Fig. 8)

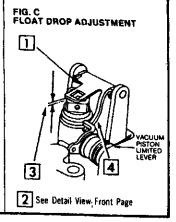


ADJUSTMENT DATA

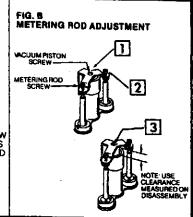
- 1A IN MAKING THIS
 ADJUSTMENT, DO NOT EXERT
 PRESSURE ON NEEDLE
 VALVE, WITH UPPER BODY
 INVERTED MEASURE FROM
 BODY GASKET SURFACE TO
 THE EDGE OF EACH FLOAT.
- 2A BEND PRIMARY FLOAT TAB TO ADJUST.
- 18 NOTE: AIRHORN HAS TO BE IN UPRIGHT POSITION TO PERFORM AUX, FLOAT LEVEL ADJUSTMENT
- 28 BEND AUXILIARY FLOAT TAB TO ADJUST.



- REMOVE FLOAT AND INLET NEEDLE.
 REINSTALL FUEL INLET NEEDLE DROP
 LIMITER, AND THE HINGE PIN WITH
 THE EDGE OF THE LIMITER BEHIND
 THE TANG ON VACUUM PISTON
 LIMITER LEVER.
- 2 LINE UP MARKS SCRIBED ON PUMP LEVER AND HOUSING AT DISASSEMBLY, (TAPE TO HOLD IN PLACE)
- 3. MEASURE CLEARANCE BETWEEN FUEL INLET SEAT AND NEEDLE DROP LIMITER. CLEARANCE SHOULD BE .005.
- 4. BEND LONG FOOT ON THE NEEDLE DROP LIMITER TO ADJUST. RECHECK BY GOING THRU STEPS 2 AND 3. KEEP FOOT OF NEEDLE DROP LIMITER BEHIND TABOF VACUUM PISTON LIMITER LEVER. REINSTALL FLOAT AND NEEDLE.



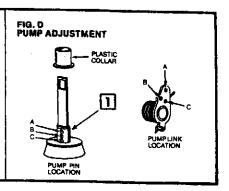
- 1. WITH VACUUM PISTON HELD IN DOWN POSITION, BACK OUT METERING ROD SCREWS AND VACUUM PUMP SCREW UNTIL METERING ROD IS FULLY SEATED IN VACUUM PUMP CYLINDER:
- 2. TURN EACH METERING ROD SCREW UNTIL HANGER JUST STARTS TO RISE.
- 3. ADJUST VACUUM PISTON SCREW UNTIL SPECIFIED CLEARANCE IS GOTTEN BETWEEN HANGER AND TOP OF VACUUM CYLINDER, NOTE: USE CLEARANCE MEASURED ON DISASSEMBLY.



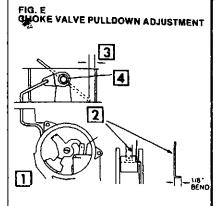
PUT PIN IN SPECIFIED
 HOLE, SLIDE ON COLLAR
 TO HOLD IN PLACE.

NOTE: THIS IS THE ONLY

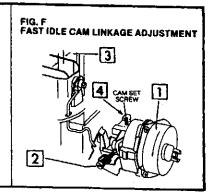
NOTE: THIS IS THE ONLY ADJUSTMENT FOR PUMP TRAVEL.



- PLACE FAST IDLE SCREW ON HIGH STEP OF CAM.
- 2. MAKE GAUGE FROM PAPER CLIP, WITH ¼ INCH BEND. INSERT GAUGE BETWEEN PISTON SLOT IN CHOKE HOUSING. ROTATE CHOKE LEVER COUNTERCLOCKWISE UNTIL GAUGE IS HELD SNUG IN PISTON SLOT
- 3 MEASURE DISTANCE BETWEEN LOWER EDGE OF CHOKE VALVE AND AIR HORN VALVE.
- 4. LOOSEN HEX HEAD SCREW (LEFT HAND THREAD) ON CHOKE SHAFT. ROTATE CHOKE SHAFT TIGHTEN SCREW.

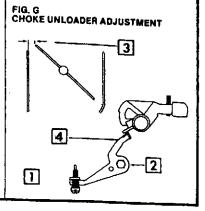


- TURN CHOKE COVER 90 DEGREES RICH BEYOND INDEX.
- 2. PLACE FAST IDLE SCREW ON SECOND STEP OF FAST IDLE CAM NEXT TO HIGH STEP.
- 3. MEASURE DISTANCE BETWEEN LOWER EDGE OF CHOKE VALVE AND AIR HORN WALL.
- ADJUST IDLE CAM SET SCREW.

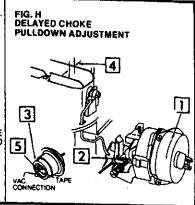


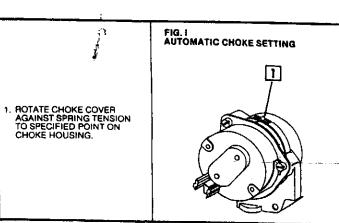
ADJUSTMENT DATA (Cont'd)

- 1. TURN CHOKE COVER 90 DEGREES RICH BEYOND INDEX.
- 2. HOLD THROTTLE VALVES WIDE OPEN.
- MEASURE DISTANCE BETWEEN UPPER EDGE OF CHOKE VALVE AND AIR HORN
- BEND UNLOADER TANG TO



- TURN CHOKE COVER 90 DEGREES RICH BEYOND INDEX
- 2. PUT FAST IDLE SCREW ON HIGH STEP OF CAM.
- TAPE SMALL PURGE HOLE AT REAR OF DIAPHRAGM HOUSING. APPLY VACUUM SOURCE TO PULL DIAPHRAGM TO SEATED POSITION. FAST IDLE SCREW SHOULD PULL DOWN TO SECOND STEP OF CAM
- MEASURE DISTANCE BETWEEN LOWER EDGE OF CHOKE VALVE AND AIR HORN WALL. SHOULD READ .190"—.210"
- TURN SCREW AT REAR OF DIAPHRAGM HOUSING TO ADJUST.

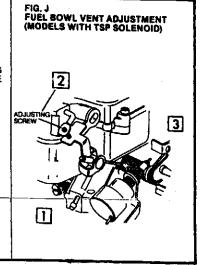




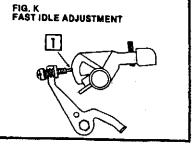
1. SEE CAR MANUAL FOR SETTING SLOW IDLE. ADJUST SLOW IDLE TO SPECIFICATIONS.

WITH ENGINE RUNNING RSP ENERGIZED) ADJUST SCREW UNTIL IT LIGHTLY CONTACTS CONTROL SHAFT TANG. (NO SLACK IN VENT VALVE SHAFT.) THEN TURN SCREW ONE TURN CLOCKWISE.

CHECK ADJUSTMENT: VENT SHOULD BE CLOSED AT CURB IDLE: OPEN WHEN ENGINE IS SHUT OFF.

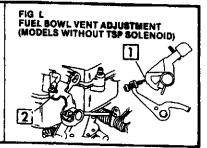


ADJUST CURB IDLE, PLACE FAST IDLE SCREW ON SECOND STEP OF FAST IDLE CAM. ADJUST FAST IDLE SCREW TO PROPER



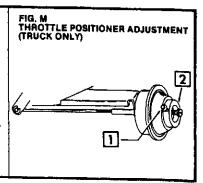
ENGINE OFF. SET FAST IDLE R.P.M. TO SPECIFICATIONS. SET FAST IDLE SCREW ON HIGH STEP OF CAM.

2. TURN ADJUSTING SCREW TOHN ADJUSTING SCREW
UNTIL IT JUST LIGHTLY
CONTACTS CONTROL SHAFT
TANG (NO SLACK IN VENT
VALVE SHAFT) THEN TURN
SCREW ONE TURN
CLOCKWISE.



NOTE: ENGINE MUST BE AT OPERATING TEMPERATURE, CURB IDLE ADJUSTED, AND TRANSMISSION IN NEUTRAL.

- DISCONNECT VACUUM HOSE TO THROTTLE POSITIONER AND PLUG. CONNECT OUTSIDE VACUUM SOURCE OF AT LEAST 10 INCH HG. TO VACUUM POSITIONER AND CHECK R.P.M.
- ADJUST BY TURNING SCREW UNTIL 1900 P.P.M. IS OBTAINED.
- REMOVE VACUUM SOURCE AND ENGINE SHOULD RETURN TO CURB IDLE. RECONNECT VACUUM HOSE.



SPECIFICATION BY APPLICATION

Year	MODEL	Ficat Level Fig. A		Floatz	T	Fast	Accel.	Ε	Auto	Paud	141-6	
		Primary Valve	Auxiliary Valve	Drop Limiter Fig. C	Choke Pulldown Fig. E	idle Cam. Fig. F	Pump Setting Fig. D	Un- Ioader Fla. G	Choke Setting	Bowl Vent Valve	Idle Speed Engine R.P.M.	
A.M.C.		<u>, </u>			1	119.1	1.4.0	глу, с	Fig. (Fig. J, L	Slow	Fast Fig. N
1976	360, 401 Eng. —(Exc. Police) —Police	29/32	3/64	1/64 1/64	9/64 9/64	9/64	E	21/64	2 Rich	_	700	16004
1975	360, 401 Eng. —(Exc. Police)	29/32	3/64	1/64	9/64	9/64		21/64	2 Rich		700	16004
JEEP			- 4/61	1/04	3/04	11/64	С	21/64	2 Rich	<u> </u>	700	16004
1978-76	360, 401 Eng.	29/32	3/64	1/64	T o/ca T	0.10	· ·		,			
1975	360, 401 Eng.	3/32	3/64	1/64	9/64	9/64 9/64	 	21/64	2 Rich			1600
FORD T		<u> </u>		.,,,,,		9/04	<u> </u>	21/64	2 Rich		<u> </u>	1600
1978	460 Eng	 			T	·						
1077	D8TE-AKA, AMA; D8UE-AA, CA	11	1/32	1/64		5/32	_	_	Index	_	,	,
1977	460 Eng. —D7TE-BJA, BLA —D7UE-AFA, AGA, AFA, ASA —D7TE-BLB; D7UE-AFC, AGB	1 1	1/32 1/32	1/64 1/64	<u>-</u> -	11/64 5/32	=	19/64	Index Index	=	3 3	3
1976-75	460 Eng. —D5TE-ARC, BBA; D5UE-NA, SA —D5TE-ARD, BBC; D5UE-NC, SB; D6TE-NA, UA; D6UE-KA, LA	15/16±1/32	i i	1/64	5/32±1/64	11/64		19/64	Index			1900
FORD	T DOTE-NA, OA, DODE-NA, LA	1±1/32	1/32±1/64	1/64	5/32±1/64	11/64	Α -	19/64	Index	<u> </u>	<u></u>	1900
1978	460 Engi — D8VE-FA, GA							-N				
1977	460 Eng.	+!	7/32	1/64	5/32	9/64	В	= 19/64	index	1 Turn	3	3
1317	—Hi-Altitude —Calif. —Police	1	1/32 1/32	1/64 1/64 1/64	5/32 5/32 5/32	9/64 9/64 5/32	B B A	19/64 19/64 49/64	Index 2 Lean	1 Turn 1 Turn	650	1350 1350
1976	460 Eng. —Hi-Altitude —Calif.	1	1/32 1/32	1/64 1/64	5/32 5/32	9/64	В	19/64	2 Rich Index	1 Turn	650 650	1350 1350
1975	460 Eng. —(Exc. Police) —Police	15/16	1/16	1/64 1/64	5/32 5/32	9/64 5/32	B A	19/64 19/64	2 Lean 2 Rich	1 Turn	600	1350
LINCOL	N		l	1704	1 3/32	5/32	<u> </u>	19/64	2 Rich		650/600	1350
1978	460 Eng. — D8VE-FA, GA	1 1	1/32	1/64	5/32	0.04	 `			_		
1977	460 Eng.	1	1/32	1/64	5/32	9/64 9/64	В	19/64 19/64	Index	1 Turn 1 Turn	650	1350
1976	— Hi-Altitude — Calif.	1 1	1/32	1/64	5/32 5/32	9/64	В	19/64	2 Lean	1 Turn	3	1350
1975	—Hi-Altitude —Calif.	ii	1/32	1/64	5/32	9/64 9/64	B	19/64 19/64	index 2 Lean	1 Turn 1 Turn	650	1350
	460 Eng.	15/16	1/16	1/64	5/32	5/32	A	19/64	2 Rich		600	1350
MERC												
1978	460 Eng. —D8VE-FA, GA	1	1/32	1/64	5/32	9/64	В	19/64	Index	1 Turn	3	3
1977	460 Eng. —Hi-Altitude —Calif. —Police	1 1	1/32 1/32	1/64 1/64 1/64	5/32 5/32 5/32	9/64 9/64	B	19/64 19/64	Index 2 Lean	1 Turn 1 Turn	650	1350 1350
1976	460 Eng. —Hi-Altitude —Calif.	1 1	1/32 1/32	1/64 1/64	5/32 5/32 5/32	5/32 9/64 9/64	B	19/64	2 Rich	1 Turn	650 650	1350 1350
1975	460 Eng. —(Exc. Police) —Police	5/16	1/16	1/64 1/64	5/32 5/32	5/32 5/32	A A	19/64 19/64 19/64	2 Lean 2 Rich 2 Rich	1 Turn —	600 650/600	1350 1350 1350

FOOTNOTES:

¹ Police models use independent floats, measure each float separately. Primary Valve 1" Auxiliary Valve 1/32"

² Limiter not used on all models.

³ Set to Specification shown on engine, Tune-Up Decal.

Engine at operating temperature. Screw on second step of cam. Also EGR & TCS must be disconnected.