INSTRUCTION SHEET MOTORCRAFT CARBURETOR - MODEL 2150 (ANEROID ASSY. USED ON SOME MODELS)

50-619

GENERAL EXPLODED VIEW

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

30 36 44 一月 44

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: NOT ALL MODELS WILL BE EQUIPPED WITH A FUEL BOWL SPACER OR WITH THE ANEROID ASSY. MODELS WILL ALSO DIFFER FROM A SINGLE STAGE TO A (TWO) STAGE ENRICHMENT VALVE.

TO REMOVE CHOKE COVER CLAMP TAMPER PROOF SCREWS. CENTER PUNCH THE SCREW HEAD. THEN USING A 1/4" DRILL, DRILL THE SCREW HEAD DEEP ENOUGH TO REMOVE THE RETAINING RING AND CAP. REMOVE THE REMAINING PORTION OF THE CHOKE CAP RETAINING SCREWS WITH A LOCKING PUIERS.

TO REMOVE CAP (40) AND PLUG (43) FROM IDLE MIXTURE NEEDLE, SUPPORT THE AREA UNDER THE LIMITER PLUG AND USING A POINTED TOOL DIRECTED AT THE TANG, LIGHTLY TAP THE PLUG FORWARD. BEFORE REMOVING IDLE ADJUSTING NEEDLE, TURN IN CLOCKWISE COUNTING THE NUMBER OF TURNS IT TAKES TO LIGHTLY SEAT THE NEEDLE. RECORD FOR REASSEMBLY.

NOMENCLATURE

REF.

	NO.	NO.
	1. SCREW—AIR SHIELD	31. SPRING— AIR METERING ROD
	2. AIR SHIELD	32. AIR METERING ROD ASSY.
	3. SCREW (3)—CHOKE COVER CLAMP	33. WEIGHT —PUMP DISC. BALL
	4. CLAMP—CHOKE COVER	34. BALL—PUMP DISC.
	5. CHOKE COVER & SPRING ASSY.	35. SCREW (4)—PUMP DIAPHRAGM
	6. GASKET—CHOKE COVER	COVER ASSY.
	7. RETAINER— CHOKE ROD	36. COVER, LEVER & ROD ASSY.—PUMP
	8. RETAINER— FAST IDLE CAM ROD	37. PUMP DIAPHRAM ASSY.
	(LOWER)	37A. PUMP DIAPHRAGM ASSY. F.I.O.D.
	9. RETAINER—CHOKE PULLDOWN ROD	38. SPRING - PUMP DIAPHRAGM RETURN
	10. SCREW & LKWSHR. (3)—CHOKE	39. VALVE - PUMP INLET CHECK
	HOUSING	40. CAP (2) - IDLE LIMITER
	11. CHOKE HOUSING ASSY.	41. NEEDLE (2) - IDLE ADJUSTING
	12. GASKET—CHOKE HOUSING	42. SPRING (2) - IDLE ADJUSTING
	13. SCREW (2)—CHOKE PULLDOWN	43. NEEDLE PLUG (2) - IDLE LIMITER
	ASSY.	44. SCREW & LKWSHR. (4)
	14. CHOKE PULLDOWN MOTOR &	ENRICHMENT VALVE COVER
	HOSE ASSY.	45. COVER - ENRICHMENT VALVE
0	15. SCREW & LKWSHR. (6)—BOWL COVER	45A. COVER - ENRICHMENT VALVE (2 STAGE)
	16. BOWL COVER ASSY.	46. GASKET - ENRICHMENT VALVE
	17. SEAL—CHOKE ROD	COVER
	18. GASKET-BOWL COVER	47. VALVE - ENRICHMENT
	19. SPACER—FUEL BOWL (USED WITH	47A. VALVE - ENRICHMENT (2 STAGE)
	SHORT FLOAT.)	48. GASKET - ENRICHMENT VALVE
	20. RETAINER—FLOAT PIN	49. SCREW & LKWSHR. (3) ANEROID
	21. FLOAT & LEVER ASSY.	ASSY.
	22. PIN—FLOAT LEVER	50. ANEROID ASSY.
	23. NEEDLE & SEAT, BAFFLE ASSY.	51. GASKET - ANEROID ASSY.
	24. SCREEN -NEEDLE SEAT	52. SCREW & LKWSHR. (4) - POPPET
	25. JETS (2) —MAIN METERING	VALVE ASSY.
.	26. SCREW - PUMP DISCHARGE NOZZLE	53. POPPET VALVE ASSY ALT.
1	26A, SCREEN—PUMP NOZZLE SCREW	54. GASKET - POPPET VALVE
	27. GASKET—NOZZLE SCREW	HOUSING
	28. VENTURI CLUSTER ASSY.	55. MAIN BODY ASSY.
	29. GASKET-VENTURI CLUSTER	
)	30. RETAINER —AIR METERING ROD SPRING	

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 PARTS CONTAINING RUBBER MATERIALS OR PAHTS SUCH AS (6), (14), (21), (37), (47), (50), AND (53) IN CLEANING SOLVENTS.

REASSEMBLY

REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY. NOTE SPECIAL INSTRUCTIONS AND FOLLOW NUMERICAL OUTLINE IN MAKING ADJUSTMENTS NECESSARY FOR CARBURETOR BEING SERVICED. DO NOT TIGHTEN BREAK—AWAY SCREWS UNTIL THE ADJUSTMENTS ON PAGE 2 ARE COMPLETED.

SPECIAL INSTRUCTIONS

ENRICHMENT VALVE (47)—USE CARE WHEN TIGHTENING TO PREVENT DISTORTION OF

IDLE ADJUSTING NEEDLES (41)—TURN IN UNTIL LIGHTLY SEATED, THEN BACK OUT NUMBER OF TURNS RECORDED ON DISASSEMBLY. (DO NOT INSTALL CAPS (40) AT THIS

PUMP INLET CHECK VALVE INSTALLATION (39)—LUBRICATE TIP OF NEW VALVE AND INSERT IN CENTER HOLE OF PUMP CAVITY. USE A NEEDLE NOSE PLIERS AND PULL THROUGH FROM FUEL BOWL SIDE UNTIL FULLY SEATED. CUT OFF VALVE TIP AT RETAINING SHOULDER.

PUMP DIAPHRAGM RETURN SPRING INSTALLATION (38)—INSTALL LARGE OPEN END OF SPRING OVER RUBBER INLET CHECK VALVE (39)

BOWL COVER GASKET (18)-THIS TUNE-UP KIT MAY NOT CONTAIN THE FLOAT BOWL GASKET OF THE CONFIGURATION SHOWN UNDER REF. NO. 18, OR BE IDENTICAL TO THE GASKET REMOVED FROM THE CARBURETOR. TO ENSURE PROPER OPERATION USE THE D9AE-9561-CA GASKET IN THE TUNE-UP KIT FOR THE D9AE-9561-BB OR D9TE-9561-BA GASKET FOUND IN CARBURETOR. PART NUMBERS ARE STAMPED ON GASKETS.

INSTRUCTION SHEET MOTORCRAFT CARBURETOR-MODEL 2150A WITH FEEDBACK CONTROL

GENERAL EXPLODED VIEW

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

26 ANEROID ASSY

DISASSEMBLY

USE THE EXPLODED VIEW AS A GUIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTION.

TO REMOVE CHOKE COVER CLAMP TAMPER PROOF SCREWS. CENTER PUNCH THE SCREW HEAD. THEN USING A 1/4" DRILL, DRILL THE SCREW HEAD DEEP ENOUGH TO REMOVE THE RETAINING RING AND CAP. REMOVE THE REMAINING PORTION OF THE CHOKE CAP RETAINING SCREWS WITH A LOCKING PUERS.

TO REMOVE CAP (48) AND PLUG (51) FROM IDLE MIXTURE NEEDLE, SUPPORT THE AREA UNDER THE LIMITER PLUG AND USING A POINTED TOOL DIRECTED AT THE TANG, LIGHTLY TAP THE PLUG FORWARD. BEFORE REMOVING IDLE ADJUSTING NEEDLE, TURN IN CLOCKWISE COUNTING THE NUMBER OF TURNS IT TAKES TO LIGHTLY SEAT THE NEEDLE. RECORD FOR REASSEMBLY.

BEFORE REMOVING PUMP ROD ASSY. (46) MARK LOCATION OF ROD IN PUMP THROTTLE LEVER.

BEFORE REMOVING THROTTLE POSITION SENSOR (60) SCRIBE TWO MARKS ON SENSOR AND THROTTLE BODY FOR PROPER REASSEMBLY.

NOMENCLATURE

REF.		REF NO.	
1.	SCREW (3)-AIR SHIELD		SCREEN-PUMP NOZZLE SCREW
2	AIR SHIELD	31.	
3.	SCREW (3)-CHOKE COVER CLAMP		VENTURI CLUSTER ASSY.
4	CLAMP-CHOKE COVER		GASKET-VENTURI CLUSTER
5.	CHOKE COVER & SPRING ASSY.		WEIGHT-PUMP DISC.BALL
6.	GASKET-CHOKE COVER	35.	
7.	RETAINER-CHOKE ROD	36.	
8.	RETAINER-FAST IDLE CAM ROD	37.	
	(LOWER)	38.	
9.	RETAINER-CHOKE PULLDOWN ROD	39.	
10.	SCREW & LKWSHR. (3)-CHOKE		THROTTLE KICKER ASSY.
	HOUSING		SCREW (4)-PUMP DIAPHRAGM COVER
11.	CHOKE HOUSING ASSY.	42.	
12.	GASKET-CHOKE HOUSING	43.	
13.	SCREW (2)-CHOKE PULLDOWN ASSY.		PUMP DIAPHRAGM ASSY.
14.	CHOKE PULLDOWN MOTOR & HOSE		SPRING-PUMP DIAPHRAGM RETURN
	ASSY.		PUMP ROD ASSY.
15.			VALVE-PUMP INLET CHECK
	CONTROL		CAP (2)-IDLE LIMITER
16.	FEEDBACK CONTROL ASSY.		NEEDLE (2)-IDLE ADJUSTING
17.	GASKET-FEEDBACK CONTROL		SPRING (2)-IDLE ADJ. NEEDLE
18.	SCREW & LKWSHR. (6)-BOWL COVER		NEEDLE PLUG (2)-IDLE LIMITER
19.		52.	SCREW & LKWSHR. (4)-ENRICHMENT
20.	SEAL-CHOKE ROD		VALVE COVER
	GASKET-BOWL COVER	53.	
	RETAINER-FLOAT PIN	54.	
	FLOAT & LEVER ASSY.		VALVE-ENRICHMENT (2 STAGE)
24.	PIN-FLOAT LEVER	56.	
25.	NEEDLE & SEAT, BAFFLE ASSY.	57.	
26.	SCREEN-NEEDLE SEAT		FAST IDLE LEVER & SCREW
27.	JET (2)-MAIN METERING		SCREW & WASHER (2)-SENSOR
28.	SCREW-CLUSTER		THROTTLE POSITION SENSOR
29.	SCREW-PUMP DISCHARGE NOZZLE	61.	MAIN BODY ASSY.

CLEANING

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 BODY IS FREE OF ALL CARBON 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 PARTS CONTAINING RUBBER MATERIALS OR PARTS SUCH AS (5), (14), (16), (23), (37), (40), (44), (55), AND (60) IN CLEANING SOLVENTS.

REASSEMBLY

REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY. NOTE SPECIAL INSTRUCTIONS AND FOLLOW NUMERICAL OUTLINE IN MAKING ADJUSTMENTS NECESSARY FOR CARBURETOR BEING SEVICED. DO NOT TIGHTEN BREAK-AWAY SCREWS UNTIL THE ADJUSTMENTS ON PAGE 3 ARE COMPLETED.

SPECIAL INSTRUCTIONS

ENRICHMENT VALVE (55)-USE CARE WHEN TIGHTENING TO PREVENT DISTORTION OF GASKET (56).

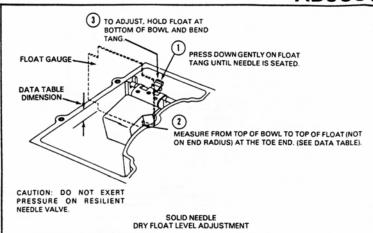
IDLE ADJUSTING NEEDLES (49)-TURN IN UNTIL LIGHTLY SEATED. THEN BACK OUT NUMBER OF TURNS RECORDED ON DISASSEMBLY. (DO NOT INSTALL CAPS (49) AT THIS TIME.)

PUMP INLET CHECK VALVE INSTALLATION (47)-LUBRICATE TIP OF NEW VALVE AND INSERT IN CENTER HOLE OF PUMP CAVITY. USE A NEEDLE NOSE PLIERS AND PULL THROUGH FROM FUEL BOWL SIDE UNTIL FULLY SEATED. CUT OFF VALVE TIP AT RETAINING SHOULDER.

PUMP DIAPHRAGM RETURN SPRING INSTALLATION (45)-INSTALL LARGE OPEN END OF SPRING OVER RUBBER INLET CHECK VALVE (47).

BOWL COVER GASKET (21) MAY OR MAY NOT BE OF THE CONFIGURATION SHOWN IN EXPLODED VIEW. USE THE KIT GASKET (ONE OF THREE) THAT MATCHES THE GASKET REMOVED FROM CARBURETORS EXCEPT FOR 5.8L CARBURETORS #E4TE-9510-ACA, ADA. AND E5TE-9510-PA, AAA. USE THE GASKET STAMPED "E3TE-9561-BA".

ADJUSTMENTS



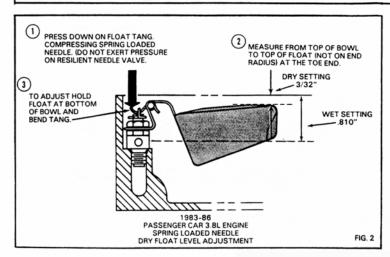
SOLID NEEDLE ADJUSTMENT DATA TABLE

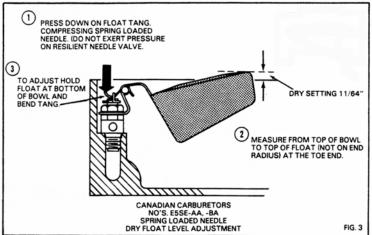
YEAR	APPLICATION	DRY FLOAT LEVEL	WET FUEL LEVEL
982-83, 8	B5 PASSENGER CAR 3.8L, 4.2L, 5.0L ENG.	7/16"	.810"
1982-8	3 LIGHT TRUCK-RANGER, BRONCO II 3.BL, 4.2L, 5.0L ENG. 5.0L ENG. CARB. NOS. E2TE-BPA, BRA. E2UE-JA. E3TE-AZA	3/16"	.810"
	BAA 5.8L, 6.6L ENG.	9/32" 9/32"	.875" .875"
1983-8	6 LIGHT TRUCK-RANGER, BRONCO II ,AEROSTAR 2.8L ENG.	7/16"	.810"
1984-8	IS LIGHT TRUCK-RANGER, BRONCO II 5.0L ENG. 5.8L ENG.	9/32" 1/4"	.875" .810"

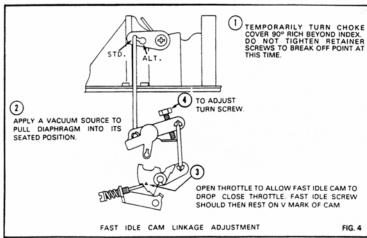
THE INFORMATION AND SPECIFICATIONS CONTAINED HEREIN ARE BASED ON LATEST PRODUCT INFORMATION AVAILABLE AT THE TIME OF PUBLICATION. THE RIGHT IS RESERVED TO MAKE CHANGES AT ANY TIME WITHOUT NOTICE.

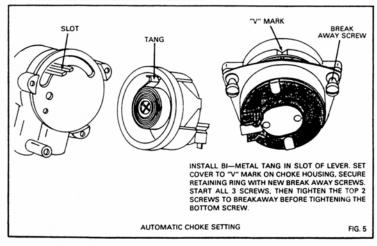
PLEASE REFER TO THE ENGINE DECAL, SERVICE SPECIFICATIONS, AND TECHNICAL BULLETINS FOR REVISIONS TO THIS INFORMATION.

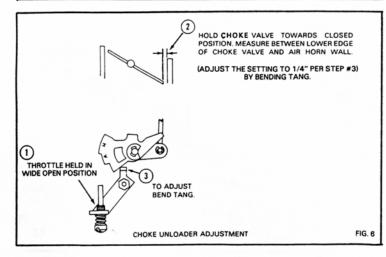
FIG. 1

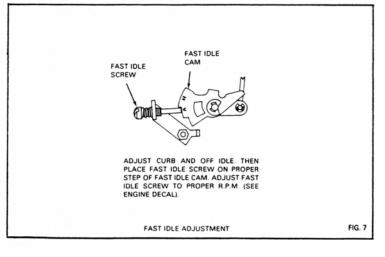




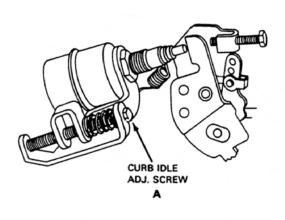




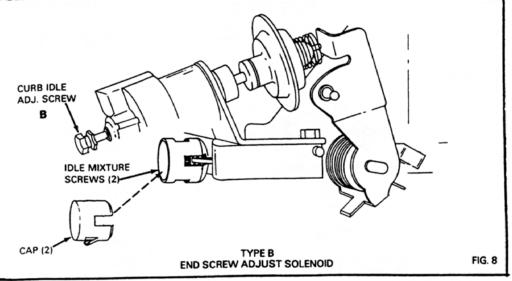




USE FACTORY CAR MANUAL PROCEDURE FOR SETTING SLOW (CURB IDLE). (SPECIFICATIONS LISTED ON ENGINE DECAL.) INSTALL CAPS AFTER SETTING IDLE MIXTURE.



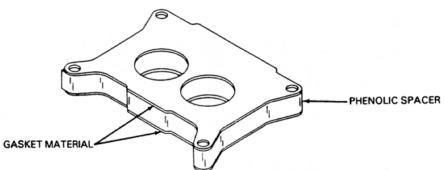




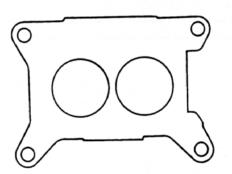
PHENOLIC SPACER SERVICE

REMOVE PHENOLIC SPACER. INSPECT GASKET SURFACES. IF GASKET MATERIAL HAS NOT BEEN DAMAGED USE SPACER AS IS AND INSTALL NEW GASKETS ON BOTH SIDES OF SPACER.

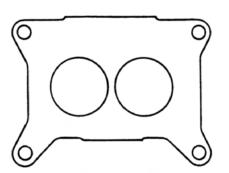
IF GASKET MATERIAL IS TORN, SCRAPE OFF OLD MATERIAL AND INSTALL NEW GASKETS ON BOTH SIDES OF SPACER.



Note: Does Not Apply To All Models.



USE THIS GASKET WITH CARBURETORS THAT ARE EQUIPPED WITH THROTTLE POSITION SENSOR MOUNTED ON THE THROTTLE BODY.



USE THIS GASKET WITH CARBURETORS NOT EQUIPPED WITH THROTTLE POSITION SENSOR.

CAUTION: MATCH GASKETS TO CONFIGURATION OF PHENOLIC SPACER UNDER CARBURETOR. USE OF INCORRECT GASKETS COULD CAUSE A VACUUM LEAK AT CARBURETOR BASE.