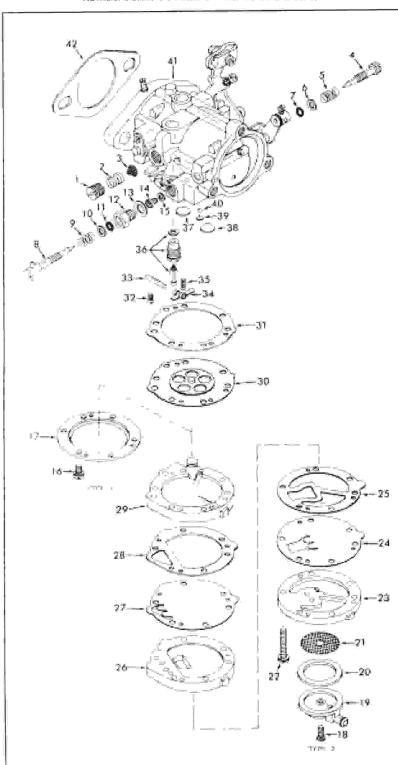
INSTRUCTION SHEET TILLOTSON CARBURETOR - MODEL HD

GENERAL EXPLODED VIEW

THE GENERAL DESIGN AND PARTS SHOWN WILL VERY TO I NDIVIDUAL UNITS COVERED ON THIS INSTRUCTION SHEET



DISASSEMBLY

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

NOTE: SOME MODELS HAVE AN EXTERNAL FUEL PLIMP WHICH IS REMOVED AS AN ASSEMBLY

EARLY MODELS HAVE A MAIN JET (14) WITH RIGHT HAND THREADS

- TYPE 1 -16. SCREW & LOCKWASHER

TYPE 2 .

(6) DIAPHRAGM GOVER 17. GOVER - DIAPHRAGM

18. SCREW - FUEL STRAINER

19. GÖVER : FUEL STRAINER

COVER

LATER MODELS HAVE LEFT HAND THREADS IF WELCH PLUGS ARE REMOVED, CAREFULLY DRILL THROUGH THICKNESS OF PLUG, USING A 1/8" DRILL THEN PRY OUI WELCH PLUG USING A SMALL PUNCH.

NOMENCLATURE

20 GASKELL FUEL STRAINER COVER 21 SCREEN - FUEL STRAINER REE. NO. 1 PLUG SCREW - BODY CHANNEL 22 SCREW & LOCKWASHER IS: - INLET 2 SPRING - INLET SCREEN VALVE BODY 23 BODY - INLET VALVE 24 DIAPHRAGM INLET VALVE RETAINER 3 SCREEN INLET 4 NEEDLE - IDLE ADJUSTING 5 SPRING - IDLE ADJUSTING 25 GASKET INLET VALVE 26 BODY - FUEL PUMP 27 DIAPHRAGM - FUEL PUMP NEEDLE 28 GASKET FUEL FUMP 29 COVER - DIAPHRAGM 6. WASHER - IDLE NEEDLE SPRING 7 O-RING - IDLE NEEDLE 8. NEEDLE - HIGH SPEED ADJUSTING 9. SPRING - HIGH SPEED 30. DIAPHRAGM 31. GASKET - DIAPHRAGM 32. SCREW - LEVER PIN ADJUSTING NEEDLE 10. WASHER - HIGH SPEED RETAINING 33 PIN - LEVER MEEDLE SPRING 11. O'RING HIGH SPEED 34 LEVER - INLET CONTROL 12. GLAND HIGH SPEED 35 SPRING INLET LEVER NEFOLE TENSION 13. GASKET - GLAND 36 NEEDLL SEAT & GASKET 14. JET - MAIN 15. GASKET - MAIN JET ASSEMBLY 37 WEIGH PLUG - IDLL FORT 38, WEIGH PLUG - NÖZZLE

41. BODY - MAIN CARBURETOR 42. GASKEL - FLANGE CLEANING

CHECK VALVE

(SOME MODELS)

39: WELCH PLUG - ECONOMIZER CHECK BALL (SOME MODELS)

40: BALL - ECONOMIZER CHECK

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. SOAK PARTS LONG ENOUGH TO SOTTEN AND REMOVE ALL FOREIGN MATERIAL USE (T), A CARBURFTOR CLEANING SOLVENT, (2) LACQUER THINNER, OR (3) DENATURED ALCOHOL MAKE CERTAIN THE THROTTLE BORE IS FREE OF ALL CARBON AND VARNISH DEPOSITS. RINSE OFF IN SUITABLE SOLVENI BLOW OUT ALL PASSAGES IN CASTINGS WITH COMPRESSED AIR AND CHECK CAREFULLY TO INSURE THOROUGH CLEANING OF ORSCURE AREAS CAUTION DO NOT SOAK GASKETS OR RUBBER PARTS IN CLEANING SOLVENTS

REASSEMBLY

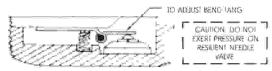
REASSEMBLE IN REVERSE ORDER OR DISSASSEMBLY, NOTE SPECIAL INSTRUCTIONS AND ADJUSTMENTS.

SPECIAL INSTRUCTIONS

WELCH PLUG INSTALLATION INSTALL PLUG WITH CONVEX SIDE UP THEN TLATTEN USING A 5/16" FLAF END PLINCH AND HAMMER ICORRECTLY INSTALLED WELCH PLUG IS FLAT.)

inlēt neēdlē šeatiinštallahöni: imstait (šašket and seatithen lighten kul 40-50 INCH LBS OF TORQUE

INLET CONTROL, LEVER SETTING



INLE! CONTROL LEVER SHOULD BE FLUSH WITH THE METERING CHAMBER WALL IDLE NEEDLE INSTALLATION - TURN NEEDLE (4) IN LIGHTLY UNTIL SEATED. THEN BACK OUT 1 JURN.

HIGH SPEED NEEDLE INSTALLATION - TURN NEEDLE (8) IN LIGHTLY LINTIL SEATLD THEN BACK OUT 1 TURN.

IDLE ADJUSTMENT - ENGINE AT OPERATING TEMPERATURE, ADJUST IDLE MIXTURE SCREW TO OBTAIN A SMOOTH STEADY IDLE AND ADJUST IDLE SPEED SCREW TO ENGINE MANUFACTURER'S R.EM.

HIGH SPEED ADJUSTMENT - ENGINE AT FULLY OPEN THROTTLE AND LINDER NORMAL FULL LOAD, ADJUST NEEDLE TO OBTAIN THE HIGHEST RIPM