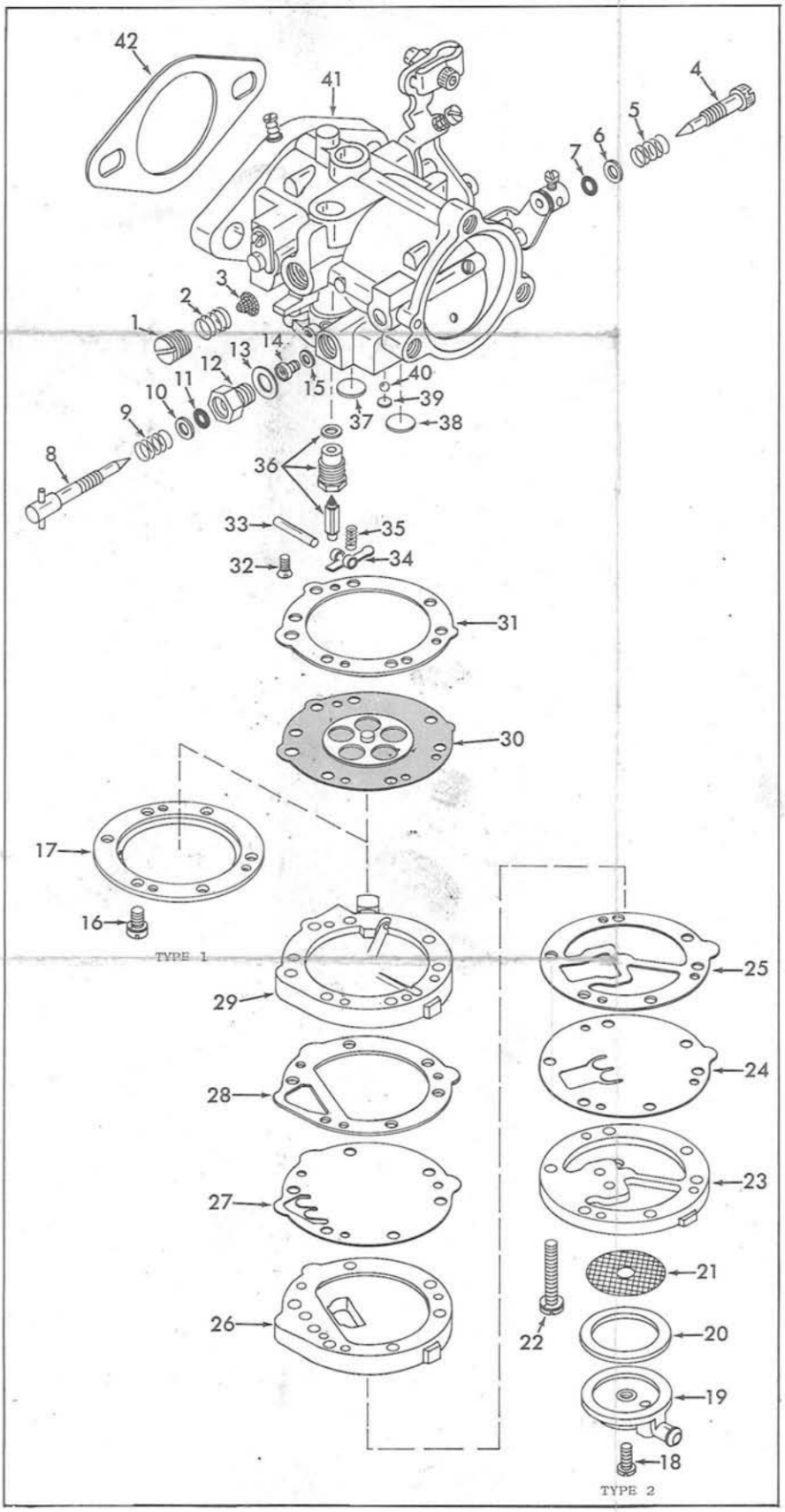
1971 TECHLIT CO.
Printed in U.S.A.

# INSTRUCTION SHEET
## TILLOTSON CARBURETOR — MODEL HD

FORM NO. 50-406

### 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: SOME MODELS HAVE AN EXTERNAL FUEL PUMP WHICH IS REMOVED AS AN ASSEMBLY.

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

IF WELCH PLUGS ARE REMOVED, CAREFULLY DRILL THROUGH THICKNESS OF PLUG, USING A 1/8" DRILL. THEN PRY OUT WELCH PLUG, USING A SMALL PUNCH.

### NOMENCLATURE

| REF. NO. | REF. NO. |
|---|---|
| 1. PLUG SCREW - BODY CHANNEL | 20. GASKET - FUEL STRAINER COVER |
| 2. SPRING - INLET SCREEN RETAINER | 21. SCREEN - FUEL STRAINER |
| 3. SCREEN - INLET | 22. SCREW & LOCKWASHER (6) - INLET VALVE BODY |
| 4. NEEDLE - IDLE ADJUSTING | 23. BODY - INLET VALVE |
| 5. SPRING - IDLE ADJUSTING NEEDLE | 24. DIAPHRAGM - INLET VALVE |
| 6. WASHER - IDLE NEEDLE SPRING | 25. GASKET - INLET VALVE |
| 7. O-RING - IDLE NEEDLE | 26. BODY - FUEL PUMP |
| 8. NEEDLE - HIGH SPEED ADJUSTING | 27. DIAPHRAGM - FUEL PUMP |
| 9. SPRING - HIGH SPEED ADJUSTING NEEDLE | 28. GASKET - FUEL PUMP |
| 10. WASHER - HIGH SPEED NEEDLE SPRING | 29. COVER - DIAPHRAGM |
| 11. O-RING - HIGH SPEED NEEDLE | 30. DIAPHRAGM |
| 12. GLAND - HIGH SPEED NEEDLE | 31. GASKET - DIAPHRAGM |
| 13. GASKET - GLAND | 32. SCREW - LEVER PIN RETAINING |
| 14. JET - MAIN | 33. PIN - LEVER |
| 15. GASKET - MAIN JET | 34. LEVER - INLET CONTROL |
| — TYPE 1 — | 35. SPRING - INLET LEVER TENSION |
| 16. SCREW & LOCKWASHER (6) DIAPHRAGM COVER | 36. NEEDLE, SEAT & GASKET ASSEMBLY |
| 17. COVER - DIAPHRAGM | 37. WELCH PLUG - IDLE PORT |
| — TYPE 2 — | 38. WELCH PLUG - NOZZLE CHECK VALVE |
| 18. SCREW - FUEL STRAINER COVER | 39. WELCH PLUG - ECONOMIZER CHECK BALL (SOME MODELS) |
| 19. COVER - FUEL STRAINER | 40. BALL - ECONOMIZER CHECK (SOME MODELS) |
| | 41. BODY - MAIN CARBURETOR |
| | 42. GASKET - FLANGE |

### 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 BORE IS 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 GASKETS OR RUBBER PARTS IN CLEANING SOLVENTS.

### REASSEMBLY

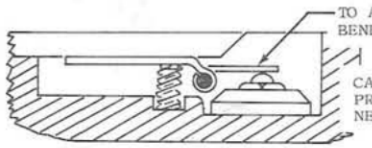
REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY. NOTE SPECIAL INSTRUCTIONS AND ADJUSTMENTS.

### SPECIAL INSTRUCTIONS

WELCH PLUG INSTALLATION - INSTALL PLUG WITH CONVEX SIDE UP. THEN FLATTEN, USING A 5/16" FLAT END PUNCH AND HAMMER. (CORRECTLY INSTALLED WELCH PLUG IS FLAT.)

INLET NEEDLE SEAT INSTALLATION - INSTALL GASKET AND SEAT THEN TIGHTEN TO 40-50 INCH LBS. OF TORQUE.

INLET CONTROL LEVER SETTING




INLET CONTROL LEVER SHOULD BE FLUSH WITH THE METERING CHAMBER WALL.

IDLE NEEDLE INSTALLATION - TURN NEEDLE (4) IN LIGHTLY UNTIL SEATED, THEN BACK OUT 1 TURN.

HIGH SPEED NEEDLE INSTALLATION - TURN NEEDLE (8) IN LIGHTLY UNTIL SEATED, 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.P.M.

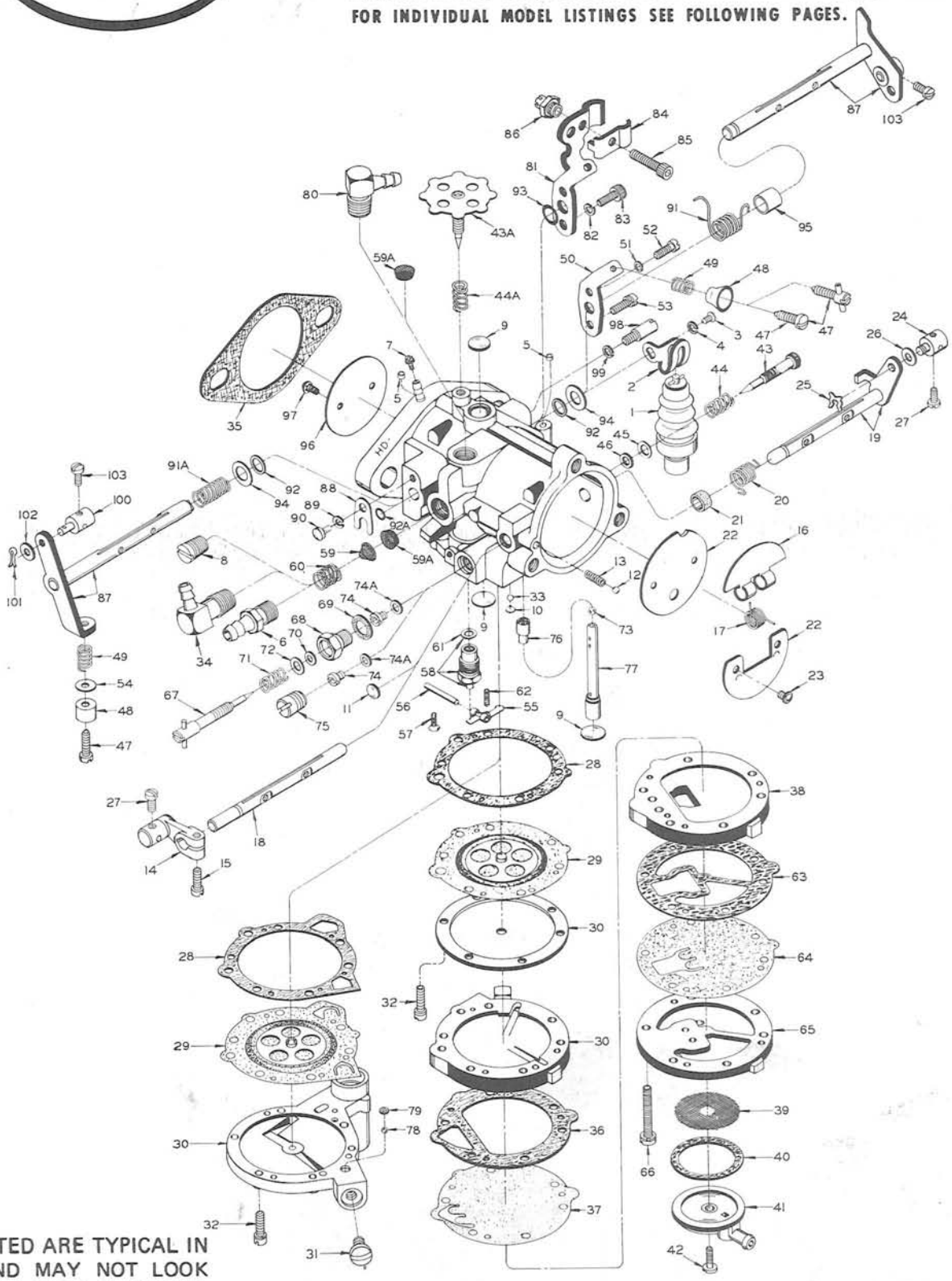
HIGH SPEED ADJUSTMENT - ENGINE AT FULLY OPEN THROTTLE AND UNDER NORMAL FULL LOAD, ADJUST NEEDLE TO OBTAIN THE HIGHEST R.P.M.

Tillotson CARBURETORS and FUEL STRAINERS

# HD SERIES

## Parts List Section • CARBURETORS

ILLUSTRATION OF BASIC PARTS STANDARD THROUGHOUT **HD** SERIES CARBURETOR.
FOR INDIVIDUAL MODEL LISTINGS SEE FOLLOWING PAGES.




PARTS ILLUSTRATED ARE TYPICAL IN APPEARANCE, AND MAY NOT LOOK EXACTLY LIKE THE PART REQUIRED.

Form S-1009
Rev. 10/72

Marvel-Schebler/Tillotson BORG WARNER®
DIVISION OF BORG-WARNER CORPORATION
761 Berdan Avenue • Box 6598, Toledo, Ohio 43612

**BASIC PARTS ILLUSTRATIONS:** See Front Page for illustrations corresponding to reference **numbers** in list below.

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-1A. . . . . | .HD-1D. . . . . | .Harley-Davidson |
| HD-1B. . . . . | .HD-1D. . . . . | .Harley-Davidson |
| HD-1C. . . . . | .HD-1D. . . . . | .Harley-Davidson |
| HD-1D. . . . . | | .Harley-Davidson |
| HD-2A & 2B . . . . | .HD-2D. . . . . | .Harley-Davidson |

| Ref. No. | Part Name | HD-1A | HD-1B | HD-1C | HD-1D | HD-2A HD-2B |
|---|---|---|---|---|---|---|
| 1 | * Accelerator Pump Assembly | 013785 | 013785 | 013785 | 013785 | 013785 |
| 2 | Accelerator Pump Lever | 012761 | 012761 | 012761 | 012761 | 012761 |
| 3 | * Accelerator Pump Lever Screw | 06393 | 06393 | 06393 | 06393 | 06393 |
| 4 | * Accelerator Pump Lever Lockwasher | 06396 | 06396 | 06396 | 06396 | 06396 |
| 5 | * Body Channel Cup Plug (2) | 010588 | 010588 | 010588 | 010588 | 010588 |
| 9 | * Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 |
| 10 | * Body Channel Welch Plug | 013737 | 013737 | 013737 | ---- | 013737 |
| 11 | * Body Channel Welch Plug (Choke) | 03489 | 03489 | 03489 | 03489 | 03489 |
| 12 | Choke Friction Ball | 04784 | 04784 | 04784 | 04784 | 04784 |
| 13 | Choke Friction Spring | 08805 | 08805 | 08805 | 08805 | 08805 |
| 16 | Choke Relief Valve | 013742 | 013742 | 013742 | 013742 | 013742 |
| 17 | * Choke Relief Valve Spring | 013775 | 013775 | 013775 | 013775 | 013775 |
| 19 | Choke Shaft & Lever | 013777 | 014296 | 014296 | 014296 | 013777 |
| 21 | Choke Shaft Seal | 09484 | 09484 | 09484 | 09484 | 09484 |
| 22 | Choke Shutter | 013741 | 013741 | 013741 | 013741 | 013741 |
| 23 | * Choke Shutter Screw (2) | 08942 | 08942 | 08942 | 08942 | 08942 |
| 24 | Choke Wire Connection | ---- | 014294 | 014294 | 014294 | ---- |
| 25 | Choke Wire Ret. Clip | ---- | 010392 | 010392 | 010392 | ---- |
| 26 | Choke Wire Connection Washer | ---- | 012174 | 012174 | 012174 | ---- |
| 27 | Choke Wire Ret. Screw | ---- | 012305 | 012305 | 012305 | ---- |
| 28 | Diaphragm Gasket | 013731 | 013731 | 013731 | 013731 | 013731 |
| 29 | * Diaphragm | 013790 | 013790 | 013790 | 013790 | 013790 |
| 30 | Diaphragm Cover | 014871 | 014871 | 014871 | 014871 | 014871 |
| 31 | Diaphragm Cover Plug Screw | 013771 | 013771 | 013771 | 013771 | 013771 |
| 32 | Diaphragm Cover Ret. Screw (6) | 010278 | 010278 | 010278 | 010278 | 010278 |
| 33 | Economiser Check Ball | 05322 | 05322 | 05322 | ---- | 05322 |
| 43A | Idle Mixture Screw | 013787 | 013787 | 013787 | 013787 | 013787 |
| 44A | * Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 |
| 47 | * Idle Speed Screw | 012177 | 012177 | 012177 | 012177 | 012177 |
| 48 | Idle Speed Screw Cup | 010050 | 010050 | 010050 | 010050 | 010050 |
| 49 | * Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 |
| 54 | Idle Speed Screw Washer | 04920 | 04920 | 04920 | 04920 | 04920 |
| 55 | * Inlet Control Lever | 014020 | 014020 | 014020 | 014020 | 014020 |
| 56 | * Inlet Control Lever Fulcrum Pin | 013406 | 013406 | 015397 | 015397 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket | 014224 | 014853 | 014853 | 014853 | 014224 |
| 59A | * Inlet Screen (2) | 010301 | 010301 | 010301 | 010301 | 010301 |
| 61 | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring | 013434 | 013434 | 013434 | 013434 | 013434 |
| 43 | Intermediate Mixture Screw | 013772 | 013772 | 013772 | 013772 | 013772 |
| 46 | Intermediate Mixture Screw Packing | 010511 | 010511 | 010511 | 010511 | 010511 |
| 44 | * Intermediate Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Intermediate Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 |
| 74 | Main Fuel Jet (.057) | 011394 | 011394 | 011394 | 011394 | ---- |
| 74 | Main Fuel Jet (.061) | ---- | ---- | ---- | ---- | 011396 |
| 74A | Main Fuel Jet Gasket | 06076 | 06076 | 06076 | 06076 | 06076 |
| 75 | Main Fuel Jet Plug Screw | 01102 | 01102 | 01102 | 01102 | 01102 |
| 76 | Nozzle Check Valve | 013789 | 013789 | 013789 | 013789 | 013789 |
| 78 | Pump Outlet Check Ball | ---- | ---- | 05322 | 05322 | ---- |
| 79 | Pump Outlet Check Ball Retainer | ---- | ---- | 012153 | 012153 | ---- |
| 87 | Throttle Shaft & Lever | 013782 | 014297 | 014297 | 014297 | 013782 |
| 91A | * Throttle Shaft Compression Spring | 013738 | 013738 | 013738 | 013738 | 013738 |
| 92 | Throttle Shaft Seal (2) | 013740 | 013740 | 013740 | 013740 | 013740 |
| 94 | * Throttle Shaft Seal Washer (2) | 013746 | 013746 | 013746 | 013746 | 013746 |
| 96 | Throttle Shutter | 013745 | 013745 | 013745 | 013745 | 013745 |
| 97 | * Throttle Shutter Screw (2) | 08942 | 08942 | 08942 | 08942 | 08942 |
| 100 | Throttle Wire Connection | ---- | 014225 | 014225 | 014225 | ---- |
| 101 | Throttle Wire Connection Ret. Clip | ---- | 0379 | 0379 | 0379 | ---- |
| 102 | Throttle Wire Connection Washer | ---- | 05413 | 05413 | 05413 | ---- |
| 103 | * Throttle Wire Ret. Screw | 058 | 058 | 058 | 058 | 058 |
| | * **Gasket Set** | GS-2HD | GS-2HD | GS-2HD | GS-2HD | GS-2HD |
| | **Repair Parts Kit** | RK-3HD | RK-3HD | RK-3HD | RK-3HD | RK-3HD |

(*) Indicates contents of Repair Parts Kit



**Marvel-Schebler/Tillotson** BORG WARNER®
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**BASIC PARTS ILLUSTRATIONS:** See Front Page for illustrations corresponding to reference **numbers** in list below.

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-2C | HD-2D | Harley-Davidson |
| HD-2D | | Harley-Davidson |
| HD-3A | | Harley-Davidson |
| HD-5A | | Harley-Davidson |
| HD-43A | | Harley-Davidson |

| Ref. No. | Part Name | HD-2C | HD-2D | HD-3A | HD-5A | HD-43A |
|---|---|---|---|---|---|---|
| 1 | * Accelerator Pump Assembly | 013785 | 013785 | 013785 | ---- | ---- |
| 2 | Accelerator Pump Lever | 012761 | 012761 | 012761 | 012761 | 012761 |
| 3 | * Accelerator Pump Lever Screw | 06393 | 06393 | 06393 | 06393 | 06393 |
| 4 | * Accelerator Pump Lever Lockwasher | 06396 | 06396 | 06396 | 06396 | 06396 |
| 5 | * Body Channel Cup Plug (2) | 010588 | 010588 | 010588 | 010588 | 010588 |
| 9 | * Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 |
| 10 | * Body Channel Welch Plug | 013737 | 013737 | 013737 | 013737 | 013737 |
| 11 | * Body Channel Welch Plug (Choke) | 03489 | 03489 | ---- | ---- | ---- |
| 12 | Choke Friction Ball | 04784 | 04784 | ---- | ---- | ---- |
| 13 | Choke Friction Spring | 08805 | 08805 | ---- | ---- | ---- |
| 16 | Choke Relief Valve | 013742 | 013742 | ---- | ---- | ---- |
| 17 | * Choke Relief Valve Spring | 013775 | 013775 | ---- | ---- | ---- |
| 19 | Choke Shaft & Lever | 014296 | 014296 | ---- | ---- | ---- |
| 21 | Choke Shaft Seal | 09484 | 09484 | ---- | ---- | ---- |
| 22 | Choke Shutter | 013741 | 013741 | ---- | ---- | ---- |
| 23 | * Choke Shutter Screw (2) | 08942 | 08942 | ---- | ---- | ---- |
| 24 | Choke Wire Connection | 014294 | 014294 | ---- | ---- | ---- |
| 25 | Choke Wire Ret. Clip | 010392 | 010392 | ---- | ---- | ---- |
| 26 | Choke Wire Connection Washer | 012174 | 012174 | ---- | ---- | ---- |
| 27 | Choke Wire Ret. Screw | 012305 | 012305 | ---- | ---- | ---- |
| 28 | Diaphragm Gasket | 013731 | 013731 | 013731 | 014120 | 014120 |
| 29 | * Diaphragm | 013790 | 013790 | 013790 | 014248 | 014248 |
| 30 | Diaphragm Cover | 014871 | 014871 | 014871 | 014117 | 014117 |
| 31 | Diaphragm Cover Plug Screw | 013771 | 013771 | 013771 | ---- | ---- |
| 32 | Diaphragm Cover Ret. Screw (6) | 010278 | 010278 | 010278 | 014142 | 014142 |
| 33 | Economiser Check Ball | 05322 | 05322 | 05322 | 05322 | 05322 |
| 43A | Idle Mixture Screw | 013787 | 013787 | 013787 | 013787 | 013787 |
| 44A | * Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 |
| 47 | * Idle Speed Screw | 012177 | 012177 | 012177 | 012177 | 012177 |
| 48 | Idle Speed Screw Cup | 010050 | 010050 | 010050 | 010050 | 010050 |
| 49 | * Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 |
| 54 | Idle Speed Screw Washer | 04920 | 04920 | 04920 | 04920 | 04920 |
| 55 | * Inlet Control Lever | 014020 | 014020 | 010513 | 014020 | 014020 |
| 56 | * Inlet Control Lever Fulcrum Pin | 013406 | 015397 | 013406 | 015397 | 015397 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket | 014853 | 014853 | 013774 | 014224 | 014224 |
| 59A | * Inlet Screen (2) | 010301 | 010301 | 010301 | 010301 | 010301 |
| 61 | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring | 013434 | 013434 | 013434 | 013434 | 013434 |
| 43 | Intermediate Mixture Screw | 013772 | 013772 | 013772 | 013772 | 013772 |
| 46 | Intermediate Mixture Screw Packing | 010511 | 010511 | 010511 | 010511 | 010511 |
| 44 | * Intermediate Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Intermediate Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 |
| 67 | High Speed Mixture Screw | ---- | ---- | 013855 | 013855 | 013855 |
| 68 | High Speed Mixture Screw Gland | ---- | ---- | 013853 | 013853 | 013853 |
| 69 | High Speed Mixture Screw Gland Gasket | ---- | ---- | 0676 | 0676 | 0676 |
| 70 | High Speed Mixture Screw Gland Packing | ---- | ---- | 010511 | 010511 | 010511 |
| 71 | * High Speed Mixture Screw Spring | ---- | ---- | 011103 | 011103 | 011103 |
| 72 | High Speed Mixture Screw Washer | ---- | ---- | 03114 | 03114 | 03114 |
| 74 | Main Fuel Jet (.053) | 011765 | 011765 | ---- | ---- | ---- |
| 74 | Main Fuel Jet (.081) | ---- | ---- | 011482 | ---- | ---- |
| 74 | Main Fuel Jet (.089) | ---- | ---- | ---- | 014313 | 014313 |
| 74A | Main Fuel Jet Gasket | 06076 | 06076 | ---- | 013683 | 013683 |
| 75 | Main Fuel Jet Plug Screw | 01102 | 01102 | ---- | ---- | ---- |
| 76 | Nozzle Check Valve | 013789 | 013789 | 013789 | 013789 | 013789 |
| 78 | Pump Outlet Check Ball | ---- | 05322 | ---- | ---- | ---- |
| 79 | Pump Outlet Check Ball Retainer | ---- | 012153 | ---- | ---- | ---- |
| 87 | Throttle Shaft & Lever | 014297 | 014297 | 013782 | 014297 | 015601 |
| 91 | * Throttle Shaft Return Spring | ---- | ---- | ---- | ---- | 015600 |
| 91A | * Throttle Shaft Compression Spring | 013738 | 013738 | 013738 | 013738 | ---- |
| 92 | Throttle Shaft Seal (2) | 013740 | 013740 | 013740 | 013740 | 013740 |
| 94 | * Throttle Shaft Seal Washer (2) | 013746 | 013746 | 013746 | 013746 | 013746 |
| 96 | Throttle Shutter | 013745 | 013745 | 013745 | 013745 | 013745 |
| 97 | * Throttle Shutter Screw (2) | 08942 | 08942 | 08942 | 08942 | 08942 |
| 100 | Throttle Wire Connection | 014225 | 014225 | ---- | 014225 | ---- |
| 101 | Throttle Wire Connection Ret. Clip | 0379 | 0379 | ---- | 0379 | ---- |
| 102 | Throttle Wire Connection Washer | 05413 | 05413 | ---- | 05413 | ---- |
| 103 | * Throttle Wire Ret. Screw | 058 | 058 | 058 | 058 | ---- |
| | * **Gasket Set** | GS-2HD | GS-2HD | GS-2HD | GS-2HD | GS-2HD |
| | **Repair Parts Kit** | RK-3HD | RK-3HD | RK-3HD | RK-3HD | RK-3HD |

(*) Indicates contents of Repair Parts Kit



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**BASIC PARTS ILLUSTRATIONS:** See Front Page for illustrations corresponding to reference numbers in list below.

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-4A (incl. FP-6 Fuel Pump Asm.) | | Bombardier, Rotax |
| HD-5A (See Page 4) | | Harley-Davidson |
| HD-6A (incl. FP-5 Fuel Pump Asm.) | HD-7AX. | AMF, Arctic, Polaris |
| HD-6B (incl. FP-5 Fuel Pump Asm.) | HD-7AX. | Herter's, Polaris, Sno-Jet |
| HD-6BX (incl.FP-5 Fuel Pump Asm.) | HD-7AX. | AMF |
| HD-7A | HD-7AX. | Lionel, Moto-Ski, Polaris, Powered Products, Rupp, Sno-Jet, Scorpion, Trade Winds |
| HD-7AX. | | Fichtel & Sachs, AMF, Moto-Ski, Sno-Jet, Powered Products |

| Ref. No. | Part Name | HD-4A | HD-6A | HD-6B | HD-6BX | HD-7A | HD-7AX |
|---|---|---|---|---|---|---|---|
| 8 | Body Channel Plug Screw | ---- | ---- | ---- | ---- | 0244 | 0244 |
| 9 | * Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 10 | * Body Channel Welch Plug | ---- | 013737 | 013737 | 013737 | 013737 | ---- |
| 12 | Choke Friction Ball | 04784 | 04784 | 04784 | 04784 | 04784 | 04784 |
| 13 | Choke Friction Spring | 08805 | 08805 | 08805 | 08805 | 08805 | 08805 |
| 19 | Choke Shaft & Lever | 013777 | 013777 | 014676 | 014676 | 014676 | 014676 |
| 22 | Choke Shutter | 014232 | 014232 | 014232 | 014232 | 014232 | 014232 |
| 23 | Choke Shutter Screw (2) | 08942 | 08942 | 08942 | 08942 | 08942 | 08942 |
| 24 | Choke Wire Connection | ---- | ---- | 014675 | 014675 | 014675 | 014675 |
| 25 | Choke Wire Connection Retaining Clip. | ---- | ---- | 010392 | 010392 | 010392 | 010392 |
| 27 | * Choke Wire Retaining Screw. | ---- | ---- | 058 | 058 | 058 | 058 |
| 28 | Diaphragm Gasket. | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * Diaphragm | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | Diaphragm Cover | 014249 | 014249 | 014249 | 014249 | 014705 | 014705 |
| 32 | Diaphragm Cover Retaining Screw (6) | 014142 | 014142 | 014142 | 014142 | ---- | ---- |
| 33 | Economiser Check Ball | ---- | 05322 | 05322 | 05322 | 05322 | ---- |
| 35 | Flange Gasket | 08304 | 08304 | 08304 | 08304 | 08304 | 08304 |
| 36 | Fuel Pump Gasket. | ---- | ---- | ---- | ---- | 014643 | 014643 |
| 37 | * Fuel Pump Diaphragm | ---- | ---- | ---- | ---- | 014644 | 014644 |
| 38 | Fuel Pump Body. | ---- | ---- | ---- | ---- | 014645 | 014645 |
| 39 | * Fuel Strainer Screen. | ---- | ---- | ---- | ---- | 011516 | 011516 |
| 40 | Fuel Strainer Cover Gasket. | ---- | ---- | ---- | ---- | 010529 | 010529 |
| 41 | Fuel Strainer Cover | ---- | ---- | ---- | ---- | 010527 | 010527 |
| 42 | * Fuel Strainer Cover Retaining Screw | ---- | ---- | ---- | ---- | 010571 | 010571 |
| 43 | Idle Mixture Screw. | 014239 | 014239 | 013772 | 013772 | 013772 | 013772 |
| 44 | * Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing. | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * Idle Speed Screw. | 012177 | 05095 | 05095 | 05095 | 05095 | 05095 |
| 48 | Idle Speed Screw Cup. | 014478 | ---- | ---- | ---- | ---- | ---- |
| 49 | * Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | Idle Speed Screw Bracket. | ---- | 014349 | 014349 | 014349 | 014349 | 014349 |
| 53 | Idle Speed Bracket Retaining Screw (2). | ---- | 014142 | 014142 | 014142 | 014142 | 014142 |
| 55 | * Inlet Control Lever | 010513 | 010513 | 010513 | 010513 | 010513 | 010513 |
| 56 | * Inlet Control Lever Fulcrum Pin | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket | 014237 | 014237 | 014632 | 014632 | 014683 | 014683 |
| 59 | * Inlet Screen. | ---- | ---- | ---- | ---- | ---- | 015218 |
| 60 | * Inlet Screen Ret. Spring. | ---- | ---- | ---- | ---- | ---- | 015219 |
| 61 | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring. | 011503 | 013434 | 011503 | 011503 | 011503 | 011503 |
| 63 | Inlet Valve Gasket. | ---- | ---- | ---- | ---- | 014646 | 014646 |
| 64 | * Inlet Valve Diaphragm | ---- | ---- | ---- | ---- | 014647 | 014647 |
| 65 | Inlet Valve Body & Strainer | ---- | ---- | ---- | ---- | 014648 | 014648 |
| 66 | Inlet Valve Body Screw & Lockwasher (6) | ---- | ---- | ---- | ---- | 014687 | 014687 |
| 67 | High Speed Mixture Screw. | 014247 | 014247 | 014247 | 014247 | 014247 | 014247 |
| 68 | High Speed Mixture Screw Gland. | 013853 | 013853 | 013853 | 013853 | 013853 | 013853 |
| 69 | High Speed Mixture Screw Gland Gasket | 0676 | 0676 | 0676 | 0676 | 0676 | 0676 |
| 70 | High Speed Mixture Screw Gland Packing. | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 71 | * High Speed Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 72 | High Speed Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 74 | Main Fuel Jet (.089). | ---- | ---- | ---- | 014313 | 014313 | 014313 |
| 74 | Main Fuel Jet (.120). | 014246 | 014246 | 014246 | ---- | ---- | ---- |
| 74A | Main Fuel Jet Gasket. | ---- | 013683 | 013683 | 013683 | 013683 | 013683 |
| 76 | Nozzle Check Valve. | 014578 | 014578 | 014578 | 014578 | 014578 | 014578 |
| 87 | Throttle Shaft & Lever. | 014243 | 014355 | 014355 | 014355 | 014355 | 014355 |
| 88 | Throttle Shaft Clip | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher. | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | Throttle Shaft Clip Retaining Screw | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring. | 014115 | 014348 | 014348 | 014348 | 014348 | 014348 |
| 96 | Throttle Shutter. | 013745 | 013745 | 013745 | 013745 | 013745 | 013745 |
| 97 | * Throttle Shutter Screw (2). | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 98 | Throttle Lever Stop Pin | 014244 | ---- | ---- | ---- | ---- | ---- |
| 99 | Throttle Lever Stop Pin Lockwasher. | 012958 | ---- | ---- | ---- | ---- | ---- |
| 103 | * Throttle Wire Retaining Screw | 058 | 058 | 058 | 058 | 058 | 058 |
| | * **Gasket Set** | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD |
| | **Repair Parts Kit** | RK-2HD | RK-2HD | RK-2HD | RK-2HD | RK-1HD | RK-1HD |
| | **Diaphragm & Gasket Set** | ---- | ---- | ---- | ---- | DG-1HD | DG-1HD |

(*) Indicates contents of Repair Parts Kit

**BASIC PARTS ILLUSTRATIONS:** See Front Page for illustrations corresponding to reference numbers in list below.

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-8A | HD-8B | Bombardier |
| HD-8B | | Bombardier |
| HD-9A | HD-10AX | Arctic |
| HD-10A | HD-10AX | Arctic, Scorpion |
| HD-10AX | | Arctic |
| HD-11A | | OMC (Evinrude) |

| Ref. No. | Part Name | HD-8A | HD-8B | HD-9A | HD-10A | HD-10AX | HD-11A |
|---|---|---|---|---|---|---|---|
| 6 | Body Channel Line Connection | ---- | 015120 | ---- | ---- | ---- | ---- |
| 8 | Body Channel Plug Screw | 0244 | ---- | ---- | 0244 | 0244 | ---- |
| 9 | * Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 10 | * Body Channel Welch Plug | ---- | ---- | 013737 | 013737 | ---- | ---- |
| 12 | Choke Friction Ball | 04784 | 04784 | 04784 | 04784 | 04784 | 04784 |
| 13 | Choke Friction Spring | 08805 | 08805 | 08805 | 08805 | 08805 | 08805 |
| 16 | Choke Relief Valve | ---- | ---- | ---- | ---- | ---- | 013742 |
| 17 | * Choke Relief Valve Spring | ---- | ---- | ---- | ---- | ---- | 013775 |
| 19 | Choke Shaft & Lever | 013777 | 013777 | 013777 | 014676 | 014676 | 014924 |
| 22 | Choke Shutter | 014232 | 015010 | 014232 | 014232 | 014232 | 013741 |
| 23 | Choke Shutter Screw (2) | 08942 | 08942 | 08942 | 08942 | 08942 | 08942 |
| 24 | Choke Wire Connection | ---- | ---- | ---- | 014675 | 014675 | ---- |
| 25 | Choke Wire Connection Retaining Clip | ---- | ---- | ---- | 010392 | 010392 | ---- |
| 27 | * Choke Wire Retaining Screw | ---- | ---- | ---- | 058 | 058 | 058 |
| 28 | Diaphragm Gasket | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * Diaphragm | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | Diaphragm Cover | 014642 | 014642 | 014249 | 014705 | 014705 | 014117 |
| 32 | Diaphragm Cover Retaining Screw (6) | ---- | ---- | 014142 | ---- | ---- | 014142 |
| 33 | Economiser Check Ball | ---- | ---- | 05322 | 05322 | ---- | ---- |
| 35 | Flange Gasket | 08304 | 014834(2) | 08304 | 08304 | 08304 | 08304 |
| 36 | Fuel Pump Gasket | 014643 | 014643 | ---- | 014643 | 014643 | ---- |
| 37 | * Fuel Pump Diaphragm | 014644 | 014644 | ---- | 014644 | 014644 | ---- |
| 38 | Fuel Pump Body | 014645 | 014645 | ---- | 014645 | 014645 | ---- |
| 39 | * Fuel Strainer Screen | 010530 | 010530 | ---- | 011516 | 011516 | ---- |
| 40 | Fuel Strainer Cover Gasket | 010529 | 010529 | ---- | 010529 | 010529 | ---- |
| 41 | Fuel Strainer Cover | 010527 | 010527 | ---- | 010527 | 010527 | ---- |
| 42 | * Fuel Strainer Cover Retaining Screw | 010571 | 010571 | ---- | 010571 | 010571 | ---- |
| 43 | Idle Mixture Screw | 014239 | 014239 | 014239 | 013772 | 013772 | 013772 |
| 44 | * Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * Idle Speed Screw | 012177 | 012177 | 05095 | 05095 | 05095 | 015361 |
| 48 | Idle Speed Screw Cup | 014478 | 014478 | ---- | ---- | ---- | ---- |
| 49 | * Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | Idle Speed Screw Bracket | ---- | ---- | 014349 | 014349 | 014349 | 015152 |
| 51 | Idle Speed Screw Bracket Lockwasher (2) | ---- | ---- | ---- | ---- | ---- | 0992 |
| 52 | Idle Speed Bracket Retaining Screw (2) | ---- | ---- | 014142 | 014142 | 014142 | ---- |
| 53 | Idle Speed Bracket Retaining Screw (2) | ---- | ---- | ---- | ---- | ---- | 015153 |
| 55 | * Inlet Control Lever | 010513 | 010513 | 010513 | 010513 | 010513 | 010513 |
| 56 | Inlet Control Lever Fulcrum Pin | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket | 014683 | 014683 | 014237 | 014683 | 014683 | 013774 |
| 59 | * Inlet Screen | ---- | 015218 | ---- | ---- | ---- | ---- |
| 59A | * Inlet Screen (2) | ---- | ---- | ---- | ---- | ---- | 010301 |
| 60 | * Inlet Screen Ret. Spring | ---- | 015219 | ---- | ---- | ---- | ---- |
| 61 | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring | 011503 | 011503 | 013434 | 011503 | 011503 | 013434 |
| 63 | Inlet Valve Gasket | 014646 | 014646 | ---- | 014646 | 014646 | ---- |
| 64 | * Inlet Valve Diaphragm | 014647 | 014647 | ---- | 014647 | 014647 | ---- |
| 65 | Inlet Valve Body & Strainer | 014688 | 014688 | ---- | 014648 | 014648 | ---- |
| 66 | Inlet Valve Body Screw & Lockwasher (6) | 014687 | 014687 | ---- | 014687 | 014687 | ---- |
| 67 | High Speed Mixture Screw | 014247 | 014247 | 014247 | 014247 | 014247 | 014247 |
| 68 | High Speed Mixture Screw Gland | 013853 | 013853 | 013853 | 013853 | 013853 | 013853 |
| 69 | High Speed Mixture Screw Gland Gasket | 0676 | 0676 | 0676 | 0676 | 0676 | 0676 |
| 70 | High Speed Mixture Screw Gland Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 71 | * High Speed Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 72 | High Speed Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 74 | Main Fuel Jet (.089) | ---- | ---- | ---- | 014313 | 014313 | ---- |
| 74 | Main Fuel Jet (.096) | ---- | ---- | ---- | ---- | ---- | 014920 |
| 74 | Main Fuel Jet (.120) | 014246 | 015009 | 014246 | ---- | ---- | ---- |
| 74A | Main Fuel Jet Gasket | 013683 | 013683 | 013683 | 013683 | 013683 | 013683 |
| 76 | Nozzle Check Valve | 014578 | 014578 | 014578 | 014578 | 014578 | 014578 |
| 87 | Throttle Shaft & Lever | 014243 | 014243 | 014723 | 014723 | 014723 | 014916 |
| 88 | Throttle Shaft Clip | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | Throttle Shaft Clip Retaining Screw | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring | 014115 | 014115 | 014348 | 014348 | 014348 | 015383 |
| 95 | Throttle Shaft Sleeve | ---- | ---- | ---- | ---- | ---- | 015180 |
| 96 | Throttle Shutter | 013745 | 013745 | 013745 | 013745 | 013745 | 013745 |
| 97 | * Throttle Shutter Screw (2) | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 98 | Throttle Lever Stop Pin | 014244 | 014244 | ---- | ---- | ---- | ---- |
| 99 | Throttle Lever Stop Pin Lockwasher | 012958 | 012958 | ---- | ---- | ---- | ---- |
| 103 | * Throttle Wire Retaining Screw | 058 | 058 | 058 | 058 | 058 | ---- |
| | * **Gasket Set** | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD |
| | **Repair Parts Kit** | RK-1HD | RK-1HD | RK-2HD | RK-1HD | RK-1HD | RK-2HD |
| | **Diaphragm & Gasket Set** | DG-1HD | DG-1HD | ---- | DG-1HD | DG-1HD | ---- |

(*) Indicates contents of Repair Parts Kit



**Marvel-Schebler/Tillotson** BORG WARNER®
DIVISION OF BORG-WARNER CORPORATION
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**BASIC PARTS ILLUSTRATIONS:** See Front Page for illustrations corresponding to reference **numbers** in list below.

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-13A | | FTS, Fox, Lionel, Moto-Ski, Moleba Auto-Neige, Polaris, Poloron Prod., Rupp, Norway Snowmobiles, Skiroule, Scorpion, Sno-Jet, Simco, Fichtel & Sachs, Rockwell, Arctic, Auto Ski, Auto Technic, Boa-Ski, Duffers, Eskimo Snowmobiles, FMC, Sports Power, Viking, Valcartier |
| HD-14A | | Herter's, Muskat Corp., Polaris, Northway Snowmobiles, Scorpion, Sno-Jet, Fichtel & Sachs, Arctic, Auto Ski, Boatel, FTS, Featherweight, Fox, |
| HD-15A | | AMF |
| HD-16A | | AMF |
| HD-17A | | Moto-Ski |
| HD-18A | | Trade Winds |

| Ref. No. | Part Name | HD-13A | HD-14A | HD-15A | HD-16A | HD-17A | HD-18A |
|---|---|---|---|---|---|---|---|
| 7 | Body Channel Plug Screw | 014988 | 014988 | 014988 | 014988 | 014988 | 014988 |
| 8 | Body Channel Plug Screw | 0244 | 0244 | 0244 | 0244 | 0244 | 0244 |
| 9 | * Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | Choke Friction Ball | 04784 | 04784 | 04784 | 04784 | 04784 | 04784 |
| 13 | Choke Friction Spring | 08805 | 08805 | 08805 | 08805 | 08805 | 08805 |
| 14 | Choke Lever | ---- | ---- | ---- | 015051 | ---- | ---- |
| 15 | Choke Lever Retaining Screw | ---- | ---- | ---- | 0240 | ---- | ---- |
| 18 | Choke Shaft | ---- | ---- | ---- | 015052 | ---- | ---- |
| 19 | Choke Shaft & Lever | 014991 | 014991 | 015021 | ---- | 014991 | 014991 |
| 22 | Choke Shutter | 015010 | 015010 | 015010 | 015010 | 015010 | 015010 |
| 23 | Choke Shutter Screw (2) | 015912 | 015912 | 08942 | 08942 | 015912 | 015912 |
| 27 | * Choke Wire Retaining Screw. | 055 | 055 | 055 | 055 | 055 | 055 |
| 28 | Diaphragm Gasket. | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * Diaphragm | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | Diaphragm Cover | 014705 | 014705 | 014705 | 014705 | 014705 | 014705 |
| 35 | Flange Gasket | 014834 | 014834 | 014834 | 014834 | 014834 | 014834 |
| 36 | Fuel Pump Gasket. | 014643 | 014643 | 014643 | 014643 | 014643 | 014643 |
| 37 | * Fuel Pump Diaphragm | 014644 | 014644 | 014644 | 014644 | 014644 | 014644 |
| 38 | Fuel Pump Body. | 014645 | 014645 | 014645 | 014645 | 014645 | 014645 |
| 39 | * Fuel Strainer Screen. | 011516 | 011516 | 011516 | 011516 | 011516 | 011516 |
| 40 | Fuel Strainer Cover Gasket. | 010529 | 010529 | 010529 | 010529 | 010529 | 010529 |
| 41 | Fuel Strainer Cover | 014937 | 014937 | 014937 | 014937 | 014937 | 014937 |
| 42 | * Fuel Strainer Cover Retaining Screw | 010571 | 010571 | 010571 | 010571 | 010571 | 010571 |
| 43 | Idle Mixture Screw. | 014239 | 014239 | 014239 | 014239 | 014239 | 014239 |
| 44 | * Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing. | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * Idle Speed Screw. | 05095 | 05095 | 05095 | 05095 | 05095 | 05095 |
| 49 | * Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | Idle Speed Screw Bracket. | 014349 | ---- | 014349 | 014349 | 014349 | 014349 |
| 53 | Idle Speed Bracket Retaining Screw (2). | 014142 | ---- | 014142 | 014142 | 014142 | 014142 |
| 55 | * Inlet Control Lever | 010513 | 010513 | 010513 | 010513 | 010513 | 010513 |
| 56 | * Inlet Control Lever Fulcrum Pin | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket | 014683 | 014683 | 014683 | 014683 | 014683 | 014683 |
| 59 | * Inlet Screen. | 015218 | 015218 | 015218 | 015218 | 015218 | 015218 |
| 60 | * Inlet Screen Ret. Spring. | 015219 | 015219 | 015219 | 015219 | 015219 | 015219 |
| 61 | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring. | 011503 | 011503 | 011503 | 011503 | 011503 | 011503 |
| 63 | Inlet Valve Gasket. | 014646 | 014646 | 014646 | 014646 | 014646 | 014646 |
| 64 | * Inlet Valve Diaphragm | 014647 | 014647 | 014647 | 014647 | 014647 | 014647 |
| 65 | Inlet Valve Body & Strainer | 014648 | 014648 | 014648 | 014648 | 014648 | 014648 |
| 66 | Inlet Valve Body Screw & Lockwasher (6) | 014687 | 014687 | 014687 | 014687 | 014687 | 014687 |
| 67 | High Speed Mixture Screw. | 014247 | 014247 | 014247 | 014247 | 014247 | 014247 |
| 68 | High Speed Mixture Screw Gland. | 013853 | 013853 | 013853 | 013853 | 013853 | 013853 |
| 69 | High Speed Mixture Screw Gland Gasket | 0676 | 0676 | 0676 | 0676 | 0676 | 0676 |
| 70 | High Speed Mixture Screw Gland Packing. | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 71 | * High Speed Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 72 | High Speed Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 74 | Main Fuel Jet (.089). | 014993 | 014993 | 014993 | ---- | 014993 | 014993 |
| 74 | Main Fuel Jet (.120). | ---- | ---- | ---- | 015009 | ---- | ---- |
| 74A | Main Fuel Jet Gasket. | 013683 | 013683 | 013683 | 013683 | 013683 | 013683 |
| 76 | Nozzle Check Valve. | 014578 | 014578 | 014578 | 013789 | 014578 | 014578 |
| 81 | Throttle Cable Bracket. | ---- | 014999 | ---- | ---- | ---- | ---- |
| 82 | Throttle Cable Bracket Lockwasher (2) | ---- | 0992 | ---- | ---- | ---- | ---- |
| 83 | Throttle Cable Bracket Ret. Screw (2) | ---- | 015384 | ---- | ---- | ---- | ---- |
| 84 | Throttle Cable Clamp. | ---- | 014995 | ---- | ---- | ---- | ---- |
| 85 | Throttle Cable Clamp Ret. Screw | ---- | 014998 | ---- | ---- | ---- | ---- |
| 86 | Throttle Cable Clamp Ret. Nut | ---- | 014997 | ---- | ---- | ---- | ---- |
| 87 | Throttle Shaft & Lever. | 014992 | 014992 | 015025 | 015025 | 014992 | 015124 |
| 88 | Throttle Shaft Clip | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher. | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | Throttle Shaft Clip Retaining Screw | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring. | 014348 | 014348 | 014348 | 014348 | 014348 | 014348 |
| 96 | Throttle Shutter. | 013745 | 013745 | 013745 | 013745 | 013745 | 013745 |
| 97 | * Throttle Shutter Screw (2). | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 103 | * Throttle Wire Retaining Screw | 055 | 055 | 055 | 055 | 055 | ---- |
| | * **Gasket Set** | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD |
| | **Repair Parts Kit** | RK-1HD | RK-1HD | RK-1HD | RK-1HD | RK-1HD | RK-1HD |
| | **Diaphragm & Gasket Set** | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD |

(*) Indicates contents of Repair Parts Kit

**BASIC PARTS ILLUSTRATIONS:** See Front Page for illustrations corresponding to reference **numbers** in list below.

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-19A | | Badger Northland |
| HD-20A | HD-20B | Bombardier |
| HD-20B | | Bombardier |
| HD-21A | | Bombardier |
| HD-21B | | Bombardier |
| HD-22A | HD-22B | Bombardier |

| Ref. No. | Part Name | HD-19A | HD-20A | HD-20B | HD-21A | HD-21B | HD-22A |
|---|---|---|---|---|---|---|---|
| 7 | Body Channel Plug Screw | 014988 | ---- | ---- | ---- | ---- | ---- |
| 8 | Body Channel Plug Screw | 0244 | ---- | ---- | ---- | ---- | ---- |
| 9 | * Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | Choke Friction Ball | 04784 | 04784 | 04784 | 04784 | 04784 | 04784 |
| 13 | Choke Friction Spring | 08805 | 08805 | 08805 | 08805 | 08805 | 08805 |
| 19 | Choke Shaft & Lever | 015107 | 015365 | 015365 | 015185 | 015185 | 015185 |
| 22 | Choke Shutter | 015010 | 015010 | 015010 | 015010 | 015010 | 015010 |
| 23 | Choke Shutter Screw (2) | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 27 | * Choke Wire Retaining Screw | 055 | 055 | 055 | ---- | ---- | ---- |
| 28 | Diaphragm Gasket | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * Diaphragm | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | Diaphragm Cover | 015198 | 014642 | 014642 | 014642 | 014642 | 014642 |
| 34 | Elbow Connector | ---- | 015455 | 015455 | 015455 | 015455 | 015455 |
| 35 | Flange Gasket | 014834 | 015194 | 015194 | 015194 | 015194 | 015194 |
| 36 | Fuel Pump Gasket | 014643 | 014643 | 014643 | 014643 | 014643 | 014643 |
| 37 | * Fuel Pump Diaphragm | 014644 | 014644 | 014644 | 014644 | 014644 | 014644 |
| 38 | Fuel Pump Body | 014645 | 014645 | 014645 | 014645 | 014645 | 014645 |
| 39 | * Fuel Strainer Screen | 011516 | 011516 | 011516 | 011516 | 011516 | 011516 |
| 40 | Fuel Strainer Cover Gasket | 010529 | 014804 | 014804 | 014804 | 014804 | 014804 |
| 41 | Fuel Strainer Cover | 014937 | ---- | ---- | ---- | ---- | ---- |
| 42 | * Fuel Strainer Cover Retaining Screw | 010571 | ---- | ---- | ---- | ---- | ---- |
| 43 | Idle Mixture Screw | 014239 | 014239 | 015864 | 014239 | 015864 | 014239 |
| 44 | * Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * Idle Speed Screw | 05095 | 015361 | 015361 | 015361 | 015361 | 015361 |
| 81 | Idle Speed Screw Cable Bracket | 014994 | ---- | ---- | ---- | ---- | ---- |
| 82 | Idle Speed Screw Cable Bracket Lockwasher | 0992 | ---- | ---- | ---- | ---- | ---- |
| 83 | Idle Speed Screw Cable Bracket Ret. Screw(2) | 015384 | ---- | ---- | ---- | ---- | ---- |
| 49 | * Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | Idle Speed Screw Bracket | ---- | ---- | ---- | 014349 | ---- | ---- |
| 53 | Idle Speed Bracket Retaining Screw (2) | ---- | ---- | ---- | 014142 | ---- | ---- |
| 55 | * Inlet Control Lever | 010513 | 010513 | 014020 | 010513 | 014020 | 010513 |
| 56 | * Inlet Control Lever Fulcrum Pin | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket | 014683 | 014632 | 015596 | 014632 | 015596 | 014632 |
| 59 | * Inlet Screen | 015218 | 015218 | 015218 | 015218 | 015218 | 015218 |
| 60 | * Inlet Screen Ret. Spring | 015219 | 015219 | 015219 | 015219 | 015219 | 015219 |
| 61 | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring | 011503 | 011503 | 011503 | 011503 | 011503 | 011503 |
| 63 | Inlet Valve Gasket | 014646 | 014646 | 014646 | 014646 | 014646 | 014646 |
| 64 | * Inlet Valve Diaphragm | 014647 | 014647 | 014647 | 014647 | 014647 | 014647 |
| 65 | Inlet Valve Body & Strainer | 014648 | 015188 | 015188 | 015188 | 015188 | 015188 |
| 66 | Inlet Valve Body Screw & Lockwasher (6) | 014687 | 014687 | 014687 | 014687 | 014687 | 014687 |
| 67 | High Speed Mixture Screw | 014247 | 014247 | 014247 | 014247 | 014247 | 014247 |
| 68 | High Speed Mixture Screw Gland | 013853 | 013853 | 013853 | 013853 | 013853 | 013853 |
| 69 | High Speed Mixture Screw Gland Gasket | 0676 | 0676 | 0676 | 0676 | 0676 | 0676 |
| 70 | High Speed Mixture Screw Gland Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 71 | * High Speed Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 72 | High Speed Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 74 | Main Fuel Jet (.089) | 014993 | ---- | ---- | ---- | ---- | 014993 |
| 74 | Main Fuel Jet (.1015) | ---- | 015190 | 015190 | 015190 | 015190 | ---- |
| 74A | Main Fuel Jet Gasket | 013683 | 013683 | 013683 | 013683 | 013683 | 013683 |
| 76 | Nozzle Check Valve | 014578 | 014578 | 014578 | 014578 | 014578 | 014578 |
| 81 | Throttle Cable Bracket | ---- | 015336 | 015336 | ---- | 015336 | 015336 |
| 82 | Throttle Cable Bracket Lockwasher (2) | ---- | 0992 | 0992 | ---- | 0992 | 0992 |
| 83 | Throttle Cable Bracket Ret. Screw (2) | ---- | 015384 | 015384 | ---- | 015384 | 015384 |
| 84 | Throttle Cable Clamp | ---- | 014995 | 014995 | ---- | 014995 | 014995 |
| 85 | Throttle Cable Clamp Ret. Screw | ---- | 014998 | 014998 | ---- | 014998 | 014998 |
| 86 | Throttle Cable Clamp Ret. Nut | ---- | 014997 | 014997 | ---- | 014997 | 014997 |
| 87 | Throttle Shaft & Lever | 015223 | 015223 | 015223 | 015223 | 015223 | 015223 |
| 88 | Throttle Shaft Clip | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | Throttle Shaft Clip Retaining Screw | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring | 014348 | 014348 | 014348 | 014348 | 014348 | 014348 |
| 96 | Throttle Shutter | 013745 | 013745 | 013745 | 013745 | 013745 | 013745 |
| 97 | * Throttle Shutter Screw (2) | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 103 | * Throttle Wire Retaining Screw | 055 | 055 | 055 | 055 | 055 | 055 |
| | * **Gasket Set** | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD |
| | **Repair Parts Kit** | RK-1HD | RK-1HD | RK-1HD | RK-1HD | RK-1HD | RK-1HD |
| | **Diaphragm & Gasket Set** | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD |

(*) Indicates contents of Repair Parts Kit



**Marvel-Schebler/Tillotson** BORG WARNER
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**BASIC PARTS ILLUSTRATIONS:** See Front Page for illustrations corresponding to reference **numbers** in list below.

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-22B | | Bombardier |
| HD-23A | | Arctic |
| HD-24A | | Canahover |
| HD-25A | HD-25B | Lionel, Moto-Ski |
| HD-25B | | Moto-Ski |
| HD-26A | | Lionel |

| Ref. No. | Part Name | HD-22B | HD-23A | HD-24A | HD-25A | HD-25B | HD-26A |
|---|---|---|---|---|---|---|---|
| 7 | Body Channel Plug Screw | ---- | 014988 | 01102 | ---- | ---- | 014988 |
| 8 | Body Channel Plug Screw | ---- | 0244 | 0244 | 0244 | 0244 | 0244 |
| 9 | * Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | Choke Friction Ball | 04784 | 04784 | ---- | 04784 | 04784 | 04784 |
| 13 | Choke Friction Spring | 08805 | 08805 | ---- | 08805 | 08805 | 08805 |
| 14 | Choke Lever | ---- | 015051 | ---- | ---- | ---- | ---- |
| 15 | Choke Lever Retaining Screw | ---- | 0240 | ---- | ---- | ---- | ---- |
| 18 | Choke Shaft | ---- | 015052 | ---- | ---- | ---- | ---- |
| 20 | Choke Shaft Return Spring | ---- | ---- | 013947 | ---- | ---- | ---- |
| 19 | Choke Shaft & Lever | 015185 | ---- | 015432 | 014991 | 014991 | 014991 |
| 22 | Choke Shutter | 015010 | 015010 | 015010 | 015010 | 015010 | 015010 |
| 23 | Choke Shutter Screw (2) | 015912 | 08942 | 015912 | 015912 | 015912 | 015912 |
| 27 | * Choke Wire Retaining Screw. | ---- | 055 | 055 | 055 | 055 | 055 |
| 28 | Diaphragm Gasket. | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * Diaphragm | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | Diaphragm Cover | 014642 | 014705 | 014705 | 015378 | 015378 | 014705 |
| 34 | Elbow Connector | 015455 | ---- | ---- | ---- | ---- | ---- |
| 35 | Flange Gasket | 015194 | 014834 | 014834 | 014834 | 014834 | 014834 |
| 36 | Fuel Pump Gasket. | 014643 | 014643 | 014643 | 014643 | 014643 | 014643 |
| 37 | * Fuel Pump Diaphragm | 014644 | 014644 | 014644 | 014644 | 014644 | 014644 |
| 38 | Fuel Pump Body. | 014645 | 014645 | 014645 | 014645 | 014645 | 014645 |
| 39 | * Fuel Strainer Screen. | 011516 | 011516 | 011516 | 011516 | 011516 | 011516 |
| 40 | Fuel Strainer Cover Gasket. | 014804 | 010529 | 010529 | 010529 | 010529 | 010529 |
| 41 | Fuel Strainer Cover | ---- | 014937 | 014937 | ---- | ---- | 014937 |
| 42 | * Fuel Strainer Cover Retaining Screw | ---- | 010571 | 010571 | ---- | ---- | 010571 |
| 43 | Idle Mixture Screw. | 015864 | 014239 | 014239 | 014239 | 014239 | 014239 |
| 44 | * Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing. | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * Idle Speed Screw. | 015361 | 05095 | 012177 | 015361 | 015361 | 05095 |
| 48 | Idle Speed Screw Cup. | ---- | ---- | 014478 | ---- | ---- | ---- |
| 49 | * Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | Idle Speed Screw Bracket. | ---- | 014349 | ---- | 014349 | 014349 | 014349 |
| 53 | Idle Speed Bracket Retaining Screw (2). | ---- | 014142 | ---- | 014142 | 014142 | 014142 |
| 55 | * Inlet Control Lever | 014020 | 010513 | 010513 | 010513 | 010513 | 010513 |
| 56 | * Inlet Control Lever Fulcrum Pin | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket | 015596 | 014683 | 014683 | 014683 | 014683 | 014683 |
| 59 | Inlet Screen. | 015218 | 015218 | 015218 | 015218 | 015218 | 015218 |
| 60 | Inlet Screen Ret. Spring. | 015219 | 015219 | 015219 | 015219 | 015219 | 015129 |
| 61 | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring. | 011503 | 011503 | 011503 | 011503 | 011503 | 011503 |
| 63 | Inlet Valve Gasket. | 014646 | 014646 | 014646 | 014646 | 014646 | 014646 |
| 64 | * Inlet Valve Diaphragm | 014647 | 014647 | 014647 | 014647 | 014647 | 014647 |
| 65 | Inlet Valve Body & Strainer | 015188 | 014648 | ---- | 015188 | 015188 | 014648 |
| 66 | Inlet Valve Body Screw & Lockwasher(6). | 014687 | 014687 | 014687 | 014687 | 014687 | 014687 |
| 67 | High Speed Mixture Screw. | 014247 | 014247 | ---- | 014247 | 014247 | 014247 |
| 68 | High Speed Mixture Screw Gland. | 013853 | 013853 | ---- | 013853 | 013853 | 013853 |
| 69 | High Speed Mixture Screw Gland Gasket | 0676 | 0676 | ---- | 0676 | 0676 | 0676 |
| 70 | High Speed Mixture Screw Gland Packing | 010511 | 010511 | ---- | 010511 | 010511 | 010511 |
| 71 | * High Speed Mixture Screw Spring | 011103 | 011103 | ---- | 011103 | 011103 | 011103 |
| 72 | High Speed Mixture Screw Washer | 03114 | 03114 | ---- | 03114 | 03114 | 03114 |
| 74 | Main Fuel Jet (.058). | ---- | ---- | 015430 | ---- | ---- | ---- |
| 74 | Main Fuel Jet (.089). | 014993 | 014993 | ---- | 014993 | 014993 | 014993 |
| 74A | Main Fuel Jet Gasket. | 013683 | 013683 | 013683 | 013683 | 013683 | 013683 |
| 76 | Nozzle Check Valve. | 014578 | 014578 | 014578 | 014578 | 014578 | 014578 |
| 81 | Throttle Cable Bracket. | 015336 | ---- | ---- | ---- | ---- | ---- |
| 82 | Throttle Cable Bracket Lockwasher (2) | 0992 | ---- | ---- | ---- | ---- | ---- |
| 83 | Throttle Cable Bracket Ret. Screw (2) | 015384 | ---- | ---- | ---- | ---- | ---- |
| 84 | Throttle Cable Clamp. | 014995 | ---- | ---- | ---- | ---- | ---- |
| 85 | Throttle Cable Clamp Ret. Screw | 014998 | ---- | ---- | ---- | ---- | ---- |
| 86 | Throttle Cable Clamp Ret. Nut | 014997 | ---- | ---- | ---- | ---- | ---- |
| 87 | Throttle Shaft & Lever. | 015223 | 014992 | 014243 | 015375 | 015025 | 015420 |
| 88 | Throttle Shaft Clip | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher. | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | Throttle Shaft Clip Retaining Screw | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring. | 014348 | 014348 | 014115 | 014348 | 014348 | 014348 |
| 96 | Throttle Shutter. | 013745 | 013745 | 013745 | 013745 | 013745 | 013745 |
| 97 | * Throttle Shutter Screw (2). | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 98 | Throttle Lever Stop Pin | ---- | ---- | 014244 | ---- | ---- | ---- |
| 99 | Throttle Lever Stop Pin Lockwasher. | ---- | ----- | 012958 | ---- | ---- | ---- |
| 103 | * Throttle Wire Retaining Screw | 055 | 055 | 058 | 055 | 055 | 055 |
| | * **Gasket Set** | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD |
| | **Repair Parts Kit** | RK-1HD | RK-1HD | RK-1HD | RK-1HD | RK-1HD | RK-1HD |
| | **Diaphragm & Gasket Set** | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD |

(*) Indicates contents of Repair Parts Kit

**BASIC PARTS ILLUSTRATIONS:** See Front Page for illustrations corresponding to reference **numbers** in list below.

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|

HD-27A . . . . . .Arctic, Boa-Ski, Bonanza
HD-28A . . . . . .Skiroule
HD-29A . . . . . .Featherweight
HD-30A . . . . . .AMF
HD-32A . . . . . .Fox
HD-36A . . . . . .Herter's, Rupp

| Ref. No. | Part Name | HD-27A | HD-28A | HD-29A | HD-30A | HD-32A | HD-36A |
|---|---|---|---|---|---|---|---|
| 7 | Body Channel Plug Screw | 014988 | 014988 | 014988 | 014988 | 014988 | 014988 |
| 8 | Body Channel Plug Screw | 0244 | ---- | 0244 | 0244 | 0244 | ---- |
| 9 | * Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | Choke Friction Ball | 04784 | 04784 | 04784 | 04784 | 04784 | 04784 |
| 13 | Choke Friction Spring | 08805 | 08805 | 08805 | 08805 | 08805 | 08805 |
| 14 | Choke Lever | 015051 | ---- | 015051 | ---- | ---- | ---- |
| 15 | Choke Lever Retaining Screw | 0240 | ---- | 0240 | ---- | ---- | ---- |
| 18 | Choke Shaft | 015394 | ---- | 015052 | ---- | ---- | ---- |
| 19 | Choke Shaft & Lever | ---- | 014991 | ---- | 014991 | 014991 | 014991 |
| 22 | Choke Shutter | 015010 | 015010 | 015010 | 015010 | 015010 | 015010 |
| 23 | Choke Shutter Screw (2) | 08942 | 015912 | 08942 | 015912 | 015912 | 015912 |
| 27 | * Choke Wire Retaining Screw. | 055 | 055 | 055 | 055 | 055 | 055 |
| 28 | Diaphragm Gasket. | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * Diaphragm | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | Diaphragm Cover | 014705 | 014705 | 014705 | 014705 | 014705 | 014705 |
| 34 | Elbow Connector | ---- | 015455 | ---- | 015455 | ---- | 015187 |
| 35 | Flange Gasket | 014834 | 014834 | 014834 | 014834 | 014834 | 014834 |
| 36 | Fuel Pump Gasket. | 014643 | 014643 | 014643 | 014643 | 014643 | 014643 |
| 37 | * Fuel Pump Diaphragm | 014644 | 014644 | 014644 | 014644 | 014644 | 014644 |
| 38 | Fuel Pump Body. | 014645 | 014645 | 014645 | 014645 | 014645 | 014645 |
| 39 | * Fuel Strainer Screen. | 011516 | 011516 | 011516 | 011516 | 011516 | 011516 |
| 40 | Fuel Strainer Cover Gasket. | 010529 | 010529 | 010529 | 010529 | 010529 | 010529 |
| 41 | Fuel Strainer Cover | 014937 | 014937 | 014937 | 014937 | 014937 | 014937 |
| 42 | * Fuel Strainer Cover Retaining Screw | 010571 | 010571 | 010571 | 010571 | 010571 | 010571 |
| 43 | Idle Mixture Screw. | 014239 | 014239 | 014239 | 014239 | 014239 | 014239 |
| 44 | * Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing. | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * Idle Speed Screw. | 05095 | 05095 | 05095 | 05095 | 05095 | 05095 |
| 48 | Idle Speed Screw Cup. | 014478 | ---- | ---- | ---- | ---- | ---- |
| 49 | * Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | Idle Speed Screw Bracket. | 014349 | 014349 | 014349 | 014349 | ---- | ----* |
| 53 | Idle Speed Bracket Retaining Screw (2). | 014142 | 014142 | 014142 | 014142 | ---- | ---- |
| 55 | * Inlet Control Lever | 010513 | 010513 | 010513 | 010513 | 010513 | 010513 |
| 56 | * Inlet Control Lever Fulcrum Pin | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket | 014632 | 014632 | 014683 | 014632 | 014683 | 014632 |
| 59 | Inlet Screen. | 015218 | 015218 | 015218 | 015218 | 015218 | 015218 |
| 60 | Inlet Screen Ret. Spring. | 015219 | 015219 | 015219 | 015219 | 015219 | 015219 |
| 61 | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring. | 011503 | 011503 | 011503 | 011503 | 011503 | 011503 |
| 63 | Inlet Valve Gasket. | 014646 | 014646 | 014646 | 014646 | 014646 | 014646 |
| 64 | * Inlet Valve Diaphragm | 014647 | 014647 | 014647 | 014647 | 014647 | 014647 |
| 65 | Inlet Valve Body & Strainer | 014648 | 014648 | 014648 | 014648 | 014648 | 014648 |
| 66 | Inlet Valve Body Screw & Lockwasher (6) | 014687 | 014687 | 014687 | 014687 | 014687 | 014687 |
| 67 | High Speed Mixture Screw. | 014247 | 014247 | 014247 | 014247 | 014247 | 014247 |
| 68 | High Speed Mixture Screw Gland. | 013853 | 013853 | 013853 | 013853 | 013853 | 013853 |
| 69 | High Speed Mixture Screw Gland Gasket | 0676 | 0676 | 0676 | 0676 | 0676 | 0676 |
| 70 | High Speed Mixture Screw Gland Packing. | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 71 | * High Speed Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 72 | High Speed Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 74 | Main Fuel Jet (.089). | 014993 | 014993 | 014993 | ---- | 014993 | ---- |
| 74 | Main Fuel Jet (.120). | ---- | ---- | ---- | 015009 | ---- | 015009 |
| 74A | Main Fuel Jet Gasket. | 013683 | 013683 | 013683 | 013683 | 013683 | 013683 |
| 76 | Nozzle Check Valve. | 014578 | 014578 | 014578 | 013789 | 014578 | 014578 |
| 81 | Throttle Cable Bracket. | ---- | ---- | ---- | ---- | 014999 | 014999 |
| 82 | Throttle Cable Bracket Lockwasher (2) | ---- | ---- | ---- | ---- | 0992 | 0992 |
| 83 | Throttle Cable Bracket Ret. Screw (2) | ---- | ---- | ---- | ---- | 015384 | 015384 |
| 84 | Throttle Cable Clamp. | ---- | ---- | ---- | ---- | 014995 | 014995 |
| 85 | Throttle Cable Clamp Ret. Screw | ---- | ---- | ---- | ---- | 014998 | 014998 |
| 86 | Throttle Cable Clamp Ret. Nut | ---- | ---- | ---- | ---- | 014997 | 014997 |
| 87 | Throttle Shaft & Lever. | 015393 | 015025 | 015025 | 015025 | 014992 | 014992 |
| 88 | Throttle Shaft Clip | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher. | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | Throttle Shaft Clip Retaining Screw | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring. | 014348 | 014348 | 014348 | 014348 | 014348 | 014348 |
| 96 | Throttle Shutter. | 013745 | 013745 | 013745 | 013745 | 013745 | 013745 |
| 97 | * Throttle Shutter Screw (2). | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 103 | * Throttle Wire Retaining Screw | 055 | 055 | 055 | 055 | 055 | 055 |
| | * **Gasket Set** | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD |
| | **Repair Parts Kit** | RK-1HD | RK-1HD | RK-1HD | RK-1HD | RK-1HD | RK-1HD |
| | **Diaphragm & Gasket Set** | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD |

(*) Indicates contents of Repair Parts Kit



**Marvel-Schebler/Tillotson** BORG WARNER®
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**BASIC PARTS ILLUSTRATIONS:** See Front Page for illustrations corresponding to reference **numbers** in list below.

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-37A | HD-37B | Outboard Marine |
| HD-37B | | Outboard Marine |
| HD-38A | | Bonanza, General Trends, Rupp |
| HD-39A | | AMF |
| HD-40A | HD-40B | Polaris |
| HD-40B | | Polaris |

| Ref. No. | | Part Name | HD-37A | HD-37B | HD-38A | HD-39A | HD-40A | HD-40B |
|---|---|---|---|---|---|---|---|---|
| 7 | | Body Channel Plug Screw | ---- | ---- | 014988 | 014988 | 014988 | 014988 |
| 8 | | Body Channel Plug Screw | ---- | ---- | 0244 | ---- | 0244 | 0244 |
| 9 | * | Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | | Choke Friction Ball | 04784 | 04784 | 04784 | 04784 | 04784 | 04784 |
| 13 | | Choke Friction Spring | 08805 | 08805 | 08805 | 08805 | 08805 | 08805 |
| 16 | | Choke Relief Valve | 013742 | 013742 | ---- | ---- | ---- | ---- |
| 17 | | Choke Relief Valve Spring | 013775 | 013775 | ---- | ---- | ---- | ---- |
| 19 | | Choke Shaft & Lever | 015489 | 015489 | 014991 | 015508 | 015584 | 015584 |
| 22 | | Choke Shutter | 013741 | 013741 | 015010 | 015010 | 015010 | 015010 |
| 23 | | Choke Shutter Screw (2) | 08942 | 08942 | 015912 | 08942 | 015912 | 015912 |
| 27 | * | Choke Wire Retaining Screw | ---- | | 055 | 055 | 055 | 055 |
| 28 | | Diaphragm Gasket | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * | Diaphragm | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | | Diaphragm Cover | 014117 | 014117 | 014705 | 014705 | 014705 | 014705 |
| 31 | | Diaphragm Cover Retaining Screw (6) | 014142 | 014142 | ---- | ---- | ---- | ---- |
| 34 | | Elbow Connector | ---- | ---- | ---- | 015455 | ---- | ---- |
| 35 | | Flange Gasket | 08304 | 08304 | 014834 | 014834 | 014834 | 014834 |
| 36 | | Fuel Pump Gasket | ---- | ---- | 014643 | 014643 | 014643 | 014643 |
| 37 | * | Fuel Pump Diaphragm | ---- | ---- | 014644 | 014644 | 014644 | 014644 |
| 38 | | Fuel Pump Body | ---- | ---- | 014645 | 014645 | 014645 | 014645 |
| 39 | * | Fuel Strainer Screen | ---- | ---- | ---- | 011516 | 011516 | 011516 |
| 40 | | Fuel Strainer Cover Gasket | ---- | ---- | ---- | 010529 | 010529 | 010529 |
| 41 | | Fuel Strainer Cover | ---- | ---- | ---- | 014937 | 014937 | 014937 |
| 42 | * | Fuel Strainer Cover Retaining Screw | ---- | ---- | ---- | 010571 | 010571 | 010571 |
| 43 | | Idle Mixture Screw | 013772 | 013772 | 014239 | 014239 | 014239 | 014239 |
| 44 | * | Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | | Idle Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | | Idle Mixture Screw Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * | Idle Speed Screw | 015361 | 015361 | 05095 | 05095 | 05095 | 05095 |
| 49 | * | Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | | Idle Speed Screw Bracket | 015152 | 015152 | ---- | 014349 | ---- | ---- |
| 51 | | Idle Speed Screw Bracket Lockwasher (2) | 0992 | 0992 | ---- | ---- | ---- | ---- |
| 53 | | Idle Speed Bracket Retaining Screw (2) | ---- | ---- | ---- | 014142 | ---- | ---- |
| 52 | | Idle Speed Bracket Retaining Screw (2) | 015153 | 015153 | ---- | ---- | ---- | ---- |
| 55 | * | Inlet Control Lever | 010513 | 010513 | 010513 | 010513 | 010513 | 014020 |
| 56 | * | Inlet Control Lever Fulcrum Pin | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * | Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | | Inlet Needle, Seat & Gasket | 013774 | 013774 | 014683 | 014632 | 014632 | 015596 |
| 59 | | Inlet Screen | ---- | ---- | 015218 | 015218 | 015218 | 015218 |
| 59A | | Inlet Screen (2) | 010301 | 010301 | ---- | ---- | ---- | ---- |
| 60 | | Inlet Screen Ret. Spring | ---- | ---- | 015219 | 015219 | 015219 | 015219 |
| 61 | | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * | Inlet Tension Spring | 013434 | 013434 | 011503 | 011503 | 011503 | 011503 |
| 63 | | Inlet Valve Gasket | ---- | ---- | 014646 | 014646 | 014646 | 014646 |
| 64 | * | Inlet Valve Diaphragm | ---- | ---- | 014647 | 014647 | 014647 | 014647 |
| 65 | | Inlet Valve Body & Strainer | ---- | ---- | 015188 | 014648 | 014648 | 014648 |
| 66 | | Inlet Valve Body Screw & Lockwasher (6) | ---- | ---- | 014687 | 014687 | 014687 | 014687 |
| 67 | | High Speed Mixture Screw | 014247 | 014247 | 014247 | 014247 | 014247 | 014247 |
| 68 | | High Speed Mixture Screw Gland | 013853 | 013853 | 013853 | 013853 | 013853 | 013853 |
| 69 | | High Speed Mixture Screw Gland Gasket | 0676 | 0676 | 0676 | 0676 | 0676 | 0676 |
| 70 | | High Speed Mixture Screw Gland Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 71 | * | High Speed Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 72 | | High Speed Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 74 | | Main Fuel Jet (.089) | ---- | ---- | 014993 | ---- | ---- | ---- |
| 74 | | Main Fuel Jet (.096) | 014920 | 014920 | ---- | ---- | ---- | ---- |
| 74 | | Main Fuel Jet (.120) | ---- | ---- | ---- | 015009 | 015009 | 015009 |
| 74A | | Main Fuel Jet Gasket | 013683 | 013683 | 013683 | 013683 | 013683 | 013683 |
| 76 | | Nozzle Check Valve | 014578 | 014578 | 014578 | 013789 | 013789 | 013789 |
| 81 | | Throttle Cable Bracket | ---- | ---- | 014999 | ---- | 014999 | 015956 |
| 82 | | Throttle Cable Bracket Lockwasher (2) | ---- | ---- | 0992 | ---- | 0992 | 0992 |
| 83 | | Throttle Cable Bracket Ret. Screw (2) | ---- | ---- | 015384 | ---- | 015384 | 015384 |
| 84 | | Throttle Cable Clamp | ---- | ---- | 014995 | ---- | 014995 | 014995 |
| 85 | | Throttle Cable Clamp Ret. Screw | ---- | ---- | 014998 | ---- | 014998 | 014998 |
| 86 | | Throttle Cable Clamp Ret. Nut | ---- | ---- | 014997 | ---- | 014997 | 014997 |
| 87 | | Throttle Shaft & Lever | 014916 | 014916 | 014992 | 015025 | 014992 | 015959 |
| 88 | | Throttle Shaft Clip | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | | Throttle Shaft Clip Lockwasher | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | | Throttle Shaft Clip Retaining Screw | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * | Throttle Shaft Return Spring | 015383 | 015383 | 014348 | 014348 | 014348 | 014348 |
| 93 | | Throttle Shaft Seal (Large) | ---- | ---- | ---- | ---- | ---- | 015955 |
| 92A | | Throttle Shaft Seal (Small) | ---- | ---- | ---- | ---- | ---- | 015954 |
| 95 | | Throttle Shaft Sleeve | 015180 | 015180 | ---- | ---- | ---- | ---- |
| 96 | | Throttle Shutter | 013745 | 013745 | 013745 | 013745 | 013745 | 013745 |
| 97 | * | Throttle Shutter Screw (2) | 08942 | 08942 | 015912 | 015912 | 015912 | 08942 |
| 103 | * | Throttle Wire Retaining Screw | ---- | ---- | 055 | 055 | 055 | 055 |
| | * | **Gasket Set** | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD |
| | | **Repair Parts Kit** | RK-2HD | RK-2HD | RK-2HD | RK-1HD | RK-1HD | RK-1HD |
| | | **Diaphragm & Gasket Set** | ---- | ---- | DG-1HD | DG-1HD | DG-1HD | DG-1HD |

(*) Indicates contents of Repair Parts Kit



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**BASIC PARTS ILLUSTRATIONS:** See Front Page for illustrations corresponding to reference numbers in list below.

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-41A | | CCW |
| HD-42A | | Cushman Mtrs. |
| HD-43A (See Page 4) | | Harley Davidson |
| HD-44A | | Skiroule |
| HD-45A | | Lionel, Skiroule |
| HD-47A | | Featherweight |
| HD-48A | | Featherweight |

| Ref. No. | | Part Name | HD-41A | HD-42A | HD-44A | HD-45A | HD-47A | HD-48A |
|---|---|---|---|---|---|---|---|---|
| 7 | | Body Channel Plug Screw | 014988 | ---- | 014988 | 014988 | 014988 | 014988 |
| 8 | | Body Channel Plug Screw | 0244 | ---- | ---- | ---- | 0244 | 0244 |
| 9 | * | Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | | Choke Friction Ball | 04784 | 04784 | 04784 | 04784 | 04784 | 04784 |
| 13 | | Choke Friction Spring | 08805 | 08805 | 08805 | 08805 | 08805 | 08805 |
| 14 | | Choke Lever | ---- | ---- | ---- | ---- | 015051 | 015051 |
| 15 | | Choke Lever Retaining Screw | ---- | ---- | ---- | ---- | 0240 | 0240 |
| 16 | | Choke Relief Valve | ---- | 015630 | ---- | ---- | ---- | ---- |
| 17 | | Choke Relief Valve Spring | ---- | 013775 | ---- | ---- | ---- | ---- |
| 18 | | Choke Shaft | ---- | ---- | ---- | ---- | 015052 | 015052 |
| 19 | | Choke Shaft & Lever | 014991 | 014924 | 015676 | 015676 | ---- | ---- |
| 22 | | Choke Shutter | 015010 | 013741 | 015010 | 015010 | 015010 | 015010 |
| 23 | | Choke Shutter Screw (2) | 015912 | 08942 | 08942 | 08942 | 08942 | 08942 |
| 27 | * | Choke Wire Retaining Screw | 055 | 058 | ---- | ---- | 055 | 055 |
| 28 | | Diaphragm Gasket | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * | Diaphragm | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | | Diaphragm Cover | 014642 | 014117 | 014705 | 014705 | 014705 | 014705 |
| 31 | | Diaphragm Cover Retaining Screw (6) | ---- | 014142 | ---- | ---- | ---- | ---- |
| 34 | | Elbow Connector | ---- | ---- | 015455 | 015455 | ---- | ---- |
| 35 | | Flange Gasket | 014834 | 08304 | 014834 | 014834 | 014834 | 014834 |
| 36 | | Fuel Pump Gasket | 014643 | ---- | 014643 | 014643 | 014643 | 014643 |
| 37 | * | Fuel Pump Diaphragm | 014644 | ---- | 014644 | 014644 | 014644 | 014644 |
| 38 | | Fuel Pump Body | 014645 | ---- | 014645 | 014645 | 014645 | 014645 |
| 39 | * | Fuel Strainer Screen | 011516 | ---- | 011516 | 011516 | 011516 | 011516 |
| 40 | | Fuel Strainer Cover Gasket | 010529 | ---- | 010529 | 010529 | 010529 | 010529 |
| 41 | | Fuel Strainer Cover | 014937 | ---- | 014937 | 014937 | 014937 | 014937 |
| 42 | * | Fuel Strainer Cover Retaining Screw | 010571 | ---- | 010571 | 010571 | 010571 | 010571 |
| 43 | | Idle Mixture Screw | 014239 | 013772 | 014239 | 014239 | 014239 | 014239 |
| 44 | * | Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | | Idle Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | | Idle Mixture Screw Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * | Idle Speed Screw | 05095 | 011045 | 05095 | 05095 | 05095 | 05095 |
| 49 | * | Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | | Idle Speed Screw Bracket | 014349 | 015152 | ---- | 014349 | 014349 | ---- |
| 51 | | Idle Speed Screw Bracket Lockwasher (2) | ---- | 0992 | ---- | ---- | ---- | ---- |
| 52 | | Idle Speed Bracket Retaining Screw (2) | ---- | 015153 | ---- | ---- | ---- | ---- |
| 53 | | Idle Speed Bracket Retaining Screw (2) | 014142 | ---- | ---- | 014142 | 014142 | ---- |
| 55 | * | Inlet Control Lever | 010513 | 010513 | 010513 | 010513 | 010513 | 010513 |
| 56 | * | Inlet Control Lever Fulcrum Pin | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * | Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | | Inlet Needle, Seat & Gasket | 014683 | 013774 | 014632 | 014632 | 014632 | 014632 |
| 59 | | Inlet Screen | 015218 | ---- | 015218 | 015218 | 015218 | 015218 |
| 59A | | Inlet Screen (2) | ---- | 010301 | ---- | ---- | ---- | ---- |
| 60 | | Inlet Screen Ret. Spring | 015219 | ---- | 015219 | 015219 | 015219 | 015219 |
| 61 | | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * | Inlet Tension Spring | 011503 | 013434 | 011503 | 011503 | 011503 | 011503 |
| 63 | | Inlet Valve Gasket | 014646 | ---- | 014646 | 014646 | 014646 | 014646 |
| 64 | * | Inlet Valve Diaphragm | 014647 | ---- | 014647 | 014647 | 014647 | 014647 |
| 65 | | Inlet Valve Body & Strainer | 014648 | ---- | 014648 | 014648 | 014648 | 014648 |
| 66 | | Inlet Valve Body Screw & Lockwasher (6) | 014687 | ---- | 014687 | 014687 | 014687 | 014687 |
| 67 | | High Speed Mixture Screw | 014247 | 014247 | 014247 | 014247 | 014247 | 014247 |
| 68 | | High Speed Mixture Screw Gland | 013853 | 013853 | 013853 | 013853 | 013853 | 013853 |
| 69 | | High Speed Mixture Screw Gland Gasket | 0676 | 0676 | 0676 | 0676 | 0676 | 0676 |
| 70 | | High Speed Mixture Screw Gland Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 71 | * | High Speed Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 72 | | High Speed Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 74 | | Main Fuel Jet (.089) | 014993 | ---- | 014993 | 014993 | ---- | ---- |
| 74 | | Main Fuel Jet (.096) | ---- | 014920 | ---- | ---- | ---- | ---- |
| 74 | | Main Fuel Jet (.120) | ---- | ---- | ---- | ---- | 015009 | 015009 |
| 74A | | Main Fuel Jet Gasket | 013683 | 013683 | 013683 | 013683 | 013683 | 013683 |
| 76 | | Nozzle Check Valve | 014578 | 014578 | 014578 | 014578 | 014578 | 014578 |
| 81 | | Throttle Cable Bracket | ---- | ---- | 015336 | ---- | ---- | 014999 |
| 82 | | Throttle Cable Bracket Lockwasher (2) | ---- | ---- | 0992 | ---- | ---- | 0992 |
| 83 | | Throttle Cable Bracket Ret. Screw (2) | ---- | ---- | 015384 | ---- | ---- | 015384 |
| 84 | | Throttle Cable Clamp | ---- | ---- | 014995 | ---- | ---- | 014995 |
| 85 | | Throttle Cable Clamp Ret. Screw | ---- | ---- | 014998 | ---- | ---- | 014998 |
| 86 | | Throttle Cable Clamp Ret. Nut | ---- | ---- | 014997 | ---- | ---- | 014997 |
| 87 | | Throttle Shaft & Lever | 014992 | 014916 | 015025 | 015025 | 015025 | 014992 |
| 88 | | Throttle Shaft Clip | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | | Throttle Shaft Clip Lockwasher | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | | Throttle Shaft Clip Retaining Screw | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * | Throttle Shaft Return Spring | 014348 | 015591 | 014348 | 014348 | 014348 | 014348 |
| 95 | | Throttle Shaft Sleeve | ---- | 015180 | ---- | ---- | ---- | ---- |
| 96 | | Throttle Shutter | 013745 | 013745 | 013745 | 013745 | 013745 | 013745 |
| 97 | * | Throttle Shutter Screw (2) | 015912 | 08942 | 015912 | 015912 | 015912 | 015912 |
| 103 | * | Throttle Wire Retaining Screw | 055 | ---- | 055 | 055 | 055 | 055 |
| | * | **Gasket Set** | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD |
| | | **Repair Parts Kit** | RK-1HD | RK-2HD | RK-1HD | RK-1HD | RK-1HD | RK-1HD |
| | | **Diaphragm & Gasket Set** | DG-1HD | ---- | DG-1HD | DG-1HD | DG-1HD | DG-1HD |

(*) Indicates contents of Repair Parts Kit



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**BASIC PARTS ILLUSTRATIONS:** See Front Page for illustrations corresponding to reference numbers in list below.

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-49A | | Massey-Ferguson |
| HD-51A | | Bonanza Industries |
| HD-52A | HD-52B | Moto-Ski |
| HD-52B | | Moto-Ski |
| HD-53A | HD-53B | Moto-Ski |
| HD-53B | | Moto-Ski |

| Ref. No. | | Part Name | HD-49A | HD-51A | HD-52A | HD-52B | HD-53A | HD-53B |
|---|---|---|---|---|---|---|---|---|
| 7 | | Body Channel Plug Screw | 014988 | 014988 | ---- | ---- | ---- | ---- |
| 8 | | Body Channel Plug Screw | ---- | 0244 | ---- | ---- | ---- | ---- |
| 9 | * | Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | | Choke Friction Ball | 04784 | 04784 | 04784 | 04784 | 04784 | 04784 |
| 13 | | Choke Friction Spring | 08805 | 08805 | 08805 | 08805 | 08805 | 08805 |
| 19 | | Choke Shaft & Lever | 015807 | 014991 | 014991 | 014991 | 014991 | 014991 |
| 22 | | Choke Shutter | 014232 | 014232 | 015010 | 015010 | 015010 | 015010 |
| 23 | | Choke Shutter Screw (2) | 08942 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 27 | * | Choke Wire Retaining Screw | 055 | 055 | 055 | 055 | 055 | 055 |
| 28 | | Diaphragm Gasket | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * | Diaphragm | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | | Diaphragm Cover | 014705 | 015791 | 015378 | 015378 | 015378 | 015378 |
| 34 | | Elbow Connector | 015455 | ---- | 015455 | 015455 | 015455 | 015455 |
| 35 | | Flange Gasket | 014834 | 014834 | 014834 | 014834 | 014834 | 014834 |
| 36 | | Fuel Pump Gasket | 014643 | 014643 | 014643 | 014643 | 014643 | 014643 |
| 37 | * | Fuel Pump Diaphragm | 014644 | 014644 | 014644 | 014644 | 014644 | 014644 |
| 38 | | Fuel Pump Body | 014645 | 014645 | 014645 | 014645 | 014645 | 014645 |
| 39 | * | Fuel Strainer Screen | 011516 | 011516 | 011516 | 011516 | 011516 | 011516 |
| 40 | | Fuel Strainer Cover Gasket | 010529 | 010529 | 010529 | 010529 | 010529 | 010529 |
| 41 | | Fuel Strainer Cover | 014937 | 014937 | ---- | ---- | ---- | ---- |
| 42 | * | Fuel Strainer Cover Retaining Screw | 010571 | 010571 | ---- | ---- | ---- | ---- |
| 43 | | Idle Mixture Screw | 014239 | 014239 | 014239 | 014239 | 014239 | 014239 |
| 44 | * | Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | | Idle Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | | Idle Mixture Screw Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * | Idle Speed Screw | 05095 | 05095 | 015361 | 015361 | 015361 | 015361 |
| 49 | * | Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | | Idle Speed Screw Bracket | 014349 | ---- | 014349 | 014349 | 014349 | 014349 |
| 53 | | Idle Speed Bracket Retaining Screw (2) | 014142 | ---- | 014142 | 014142 | 014142 | 014142 |
| 55 | * | Inlet Control Lever | 014020 | 014020 | 014020 | 014020 | 014020 | 014020 |
| 56 | * | Inlet Control Lever Fulcrum Pin | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * | Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | | Inlet Needle, Seat & Gasket | 015596 | 015596 | 015596 | 015596 | 015596 | 015596 |
| 59 | | Inlet Screen | 015218 | 015218 | 015218 | 015218 | 015218 | 015218 |
| 60 | | Inlet Screen Ret. Spring | 015219 | 015219 | 015219 | 015219 | 015219 | 015219 |
| 61 | | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * | Inlet Tension Spring | 011503 | 011503 | 011503 | 011503 | 011503 | 011503 |
| 63 | | Inlet Valve Gasket | 014646 | 014646 | 014646 | 014646 | 014646 | 014646 |
| 64 | * | Inlet Valve Diaphragm | 014647 | 014647 | 014647 | 014647 | 014647 | 014647 |
| 65 | | Inlet Valve Body & Strainer | 014648 | 014648 | 015188 | 015188 | 015188 | 015188 |
| 66 | | Inlet Valve Body Screw & Lockwasher (6) | 014687 | 014687 | 014687 | 014687 | 014687 | 014687 |
| 67 | | High Speed Mixture Screw | 014247 | 014247 | 014247 | 014247 | 014247 | 014247 |
| 68 | | High Speed Mixture Screw Gland | 013853 | 013853 | 013853 | 013853 | 013853 | 013853 |
| 69 | | High Speed Mixture Screw Gland Gasket | 0676 | 0676 | 0676 | 0676 | 0676 | 0676 |
| 70 | | High Speed Mixture Screw Gland Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 71 | * | High Speed Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 72 | | High Speed Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 74 | | Main Fuel Jet (.089) | 014993 | 014993 | ---- | ---- | 014993 | 014993 |
| 74 | | Main Fuel Jet (.120) | ---- | ---- | 015009 | 015009 | ---- | ---- |
| 74A | | Main Fuel Jet Gasket | 013683 | 013683 | 013683 | 013683 | 013683 | 013683 |
| 76 | | Nozzle Check Valve | 013789 | 014578 | 013789 | 013789 | 014578 | 014578 |
| 81 | | Throttle Cable Bracket | ---- | 014999 | ---- | ---- | ---- | ---- |
| 82 | | Throttle Cable Bracket Lockwasher (2) | ---- | 0992 | ---- | ---- | ---- | ---- |
| 83 | | Throttle Cable Bracket Ret. Screw (2) | ---- | 015384 | ---- | ---- | ---- | ---- |
| 84 | | Throttle Cable Clamp | ---- | 014995 | ---- | ---- | ---- | ---- |
| 85 | | Throttle Cable Clamp Ret. Screw | ---- | 014998 | ---- | ---- | ---- | ---- |
| 86 | | Throttle Cable Clamp Ret. Nut | ---- | 014997 | ---- | ---- | ---- | ---- |
| 87 | | Throttle Shaft & Lever | 015810 | 015882 | 015375 | 015025 | 015375 | 015025 |
| 88 | | Throttle Shaft Clip | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | | Throttle Shaft Clip Lockwasher | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | | Throttle Shaft Clip Retaining Screw | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * | Throttle Shaft Return Spring | 014348 | 014348 | 014348 | 014348 | 014348 | 014348 |
| 96 | | Throttle Shutter | 013745 | 013745 | 013745 | 013745 | 013745 | 013745 |
| 97 | * | Throttle Shutter Screw (2) | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 103 | * | Throttle Wire Retaining Screw | 055 | 055 | 055 | 055 | 055 | 055 |
| | * | **Gasket Set** | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD |
| | | **Repair Parts Kit** | RK-1HD | RK-1HD | RK-1HD | RK-1HD | RK-1HD | RK-1HD |
| | | **Diaphragm & Gasket Set** | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD |

(*) Indicates contents of Repair Parts Kit

**BASIC PARTS ILLUSTRATIONS:** See Front Page for illustrations corresponding to reference numbers in list below.

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-54B | | Moto Ski |
| HD-56A | | Scorpion |
| HD-57A | | Scorpion |
| HD-59A | | Ariens |
| HD-60A | | Arctic |
| HD-62A | | Arctic |

| Ref. No. | Part Name | HD-54B | HD-56A | HD-57A | HD-59A | HD-60A | HD-62A |
|---|---|---|---|---|---|---|---|
| 7 | Body Channel Plug Screw | ---- | 014988 | 014988 | 014988 | 014988 | 014988 |
| 8 | Body Channel Plug Screw | 0244 | 0244 | 0244 | ---- | 0244 | 0244 |
| 9 | * Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | Choke Friction Ball | 04784 | 04784 | 04784 | 04784 | 04784 | 04784 |
| 13 | Choke Friction Spring | 08805 | 08805 | 08805 | 08805 | 08805 | 08805 |
| 14 | Choke Lever | ---- | ---- | ---- | ---- | 015051 | 015051 |
| 15 | Choke Lever Retaining Screw | ---- | ---- | ---- | ---- | 0240 | 0240 |
| 18 | Choke Shaft | ---- | ---- | ---- | ---- | 015794 | 015794 |
| 19 | Choke Shaft & Lever | 014991 | 014991 | 014991 | 014991 | ---- | ---- |
| 22 | Choke Shutter | 015010 | 015010 | 015010 | 014232 | 015010 | 015010 |
| 23 | Choke Shutter Screw (2) | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 27 | * Choke Wire Retaining Screw | 055 | 055 | 055 | 055 | 055 | 055 |
| 28 | Diaphragm Gasket | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * Diaphragm | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | Diaphragm Cover | 015378 | 014705 | 014705 | 014705 | 014705 | 014705 |
| 34 | Elbow Connector | ---- | ---- | ---- | 015455 | ---- | ---- |
| 35 | Flange Gasket | 014834 | 014834 | 014834 | 014834 | 014834 | 014834 |
| 36 | Fuel Pump Gasket | 014643 | 014643 | 014643 | 014643 | 014643 | 014643 |
| 37 | * Fuel Pump Diaphragm | 014644 | 014644 | 014644 | 014644 | 014644 | 014644 |
| 38 | Fuel Pump Body | 014645 | 014645 | 014645 | 014645 | 014645 | 014645 |
| 39 | * Fuel Strainer Screen | 011516 | 011516 | 011516 | 011516 | 011516 | 011516 |
| 40 | Fuel Strainer Cover Gasket | 010529 | 014804 | 014804 | 010529 | 010529 | 010529 |
| 41 | Fuel Strainer Cover | ---- | ---- | ---- | 014937 | 014937 | 014937 |
| 42 | * Fuel Strainer Cover Retaining Screw | ---- | ---- | ---- | 010571 | 010571 | 010571 |
| 43 | Idle Mixture Screw | 014239 | 014239 | 014239 | 014239 | 014239 | 014239 |
| 44 | * Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * Idle Speed Screw | 015361 | 05095 | 05095 | 05095 | 05095 | 05095 |
| 48 | Idle Speed Screw Cup | ---- | ---- | ---- | ---- | 014478 | 014478 |
| 49 | * Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | Idle Speed Screw Bracket | 014349 | 014349 | ---- | 014349 | 014349 | 014349 |
| 53 | Idle Speed Bracket Retaining Screw (2) | 014142 | 014142 | ---- | 014142 | 014142 | 014142 |
| 55 | * Inlet Control Lever | 014020 | 010513 | 010513 | 014020 | 014020 | 014020 |
| 56 | * Inlet Control Lever Fulcrum Pin | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket | 015596 | 014683 | 014683 | 015596 | 015596 | 015596 |
| 59 | Inlet Screen | 015218 | 015218 | 015218 | 015218 | 015218 | 015218 |
| 60 | Inlet Screen Ret. Spring | 015219 | 015219 | 015219 | 015219 | 015219 | 015219 |
| 61 | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring | 011503 | 011503 | 011503 | 011503 | 011503 | 011503 |
| 63 | Inlet Valve Gasket | 014646 | 014646 | 014646 | 014646 | 014646 | 014646 |
| 64 | * Inlet Valve Diaphragm | 014647 | 014647 | 014647 | 014647 | 014647 | 014647 |
| 65 | Inlet Valve Body & Strainer | 015188 | 015188 | 015188 | 014648 | 014648 | 014648 |
| 66 | Inlet Valve Body Screw & Lockwasher (6) | 014687 | 014687 | 014687 | 014687 | 014687 | 014687 |
| 67 | High Speed Mixture Screw | 014247 | 014247 | 014247 | 014247 | 014247 | 014247 |
| 68 | High Speed Mixture Screw Gland | 013853 | 013853 | 013853 | 013853 | ---- | ---- |
| 69 | High Speed Mixture Screw Gland Gasket | 0676 | 0676 | 0676 | 0676 | ---- | ---- |
| 70 | High Speed Mixture Screw Gland Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 71 | * High Speed Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 72 | High Speed Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 74 | Main Fuel Jet (.089) | 014993 | 014993 | 014993 | 014993 | ---- | ---- |
| 74A | Main Fuel Jet Gasket | 013683 | 013683 | 013683 | 013683 | ---- | ---- |
| 76 | Nozzle Check Valve | 014578 | 014578 | 014578 | 014578 | 014578 | 014578 |
| 81 | Throttle Cable Bracket | ---- | ---- | 014999 | ---- | ---- | ---- |
| 82 | Throttle Cable Bracket Lockwasher (2) | ---- | ---- | 0992 | ---- | ---- | ---- |
| 83 | Throttle Cable Bracket Ret. Screw (2) | ---- | ---- | 015384 | ---- | ---- | ---- |
| 84 | Throttle Cable Clamp | ---- | ---- | 014995 | ---- | ---- | ---- |
| 85 | Throttle Cable Clamp Ret. Screw | ---- | ---- | 014998 | ---- | ---- | ---- |
| 86 | Throttle Cable Clamp Ret. Nut | ---- | ---- | 014997 | ---- | ---- | ---- |
| 87 | Throttle Shaft & Lever | 015025 | 014992 | 014992 | 014992 | 015393 | 015393 |
| 88 | Throttle Shaft Clip | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | Throttle Shaft Clip Retaining Screw | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring | 014348 | 014348 | 014348 | 014348 | 014348 | 014348 |
| 96 | Throttle Shutter | 013745 | 013745 | 013745 | 013745 | 013745 | 013745 |
| 97 | * Throttle Shutter Screw (2) | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 103 | * Throttle Wire Retaining Screw | 055 | 055 | 055 | 055 | 055 | 055 |
| | * **Gasket Set** | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD |
| | **Repair Parts Kit** | RK-1HD | RK-1HD | RK-1HD | RK-1HD | RK-1HD | RK-1HD |
| | **Diaphragm & Gasket Set** | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD |

(*) Indicates Contents of Repair Parts Kit



**Marvel-Schebler/Tillotson** BORG WARNER
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**BASIC PARTS ILLUSTRATIONS:** See Front Page for illustrations corresponding to reference **numbers** in list below.

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-63A | | Herters, Inc. |
| HD-64A | | Herters, Inc. |
| HD-65A | | Lionel Ent. |
| HD-66A | | Bombardier |
| HD-67A | | AMF |
| HD-68A | | FTS Corp. |

| Ref. No. | Part Name | HD-63A | HD-64A | HD-65A | HD-66A | HD-67A | HD-68A |
|---|---|---|---|---|---|---|---|
| 7 | Body Channel Plug Screw | 014988 | 014988 | 014988 | ---- | 014988 | 014988 |
| 8 | Body Channel Plug Screw | ---- | ---- | 0244 | ---- | 0244 | 0244 |
| 9 | * Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | Choke Friction Ball | 04784 | 04784 | 04784 | 04784 | 04784 | 04784 |
| 13 | Choke Friction Spring | 08805 | 08805 | 08805 | 08805 | 08805 | 08805 |
| 14 | Choke Lever | 015051 | 015051 | ---- | ---- | ---- | ---- |
| 15 | Choke Lever Retaining Screw | 0240 | 0240 | ---- | ---- | ---- | ---- |
| 18 | Choke Shaft | 015394 | 015394 | ---- | 015865 | ---- | ---- |
| 19 | Choke Shaft & Lever | ---- | ---- | 014991 | ---- | 014991 | 014991 |
| 22 | Choke Shutter | 014232 | 015010 | 015010 | 015010 | 015010 | 014232 |
| 23 | Choke Shutter Screw (2) | 08942 | 08942 | 015912 | 08942 | 015912 | 015912 |
| 27 | * Choke Wire Retaining Screw | 055 | 055 | 055 | ---- | 055 | 055 |
| 28 | Diaphragm Gasket | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * Diaphragm | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | Diaphragm Cover | 015791 | 014705 | 015378 | 014642 | 014705 | 015791 |
| 34 | Elbow Connector | 015455 | 015455 | ---- | 015455 | ---- | ---- |
| 35 | Flange Gasket | 014834 | 014834 | 014834 | 015194 | 014834 | 014834 |
| 36 | Fuel Pump Gasket | 014643 | 014643 | 014643 | 014643 | 014643 | 014643 |
| 37 | * Fuel Pump Diaphragm | 014644 | 014644 | 014644 | 014644 | 014644 | 014644 |
| 38 | Fuel Pump Body | 014645 | 014645 | 014645 | 014645 | 014645 | 014645 |
| 39 | * Fuel Strainer Screen | 011516 | 011516 | 011516 | 011516 | 011516 | 011516 |
| 40 | Fuel Strainer Cover Gasket | 010529 | 010529 | 010529 | 014804 | 010529 | 010529 |
| 41 | Fuel Strainer Cover | 014937 | 014937 | 014937 | ---- | 014937 | 014937 |
| 42 | * Fuel Strainer Cover Retaining Screw | 010571 | 010571 | 010571 | ---- | 010571 | 010571 |
| 43 | Idle Mixture Screw | 014239 | 014239 | 014239 | 015864 | 014239 | 014239 |
| 44 | * Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * Idle Speed Screw | 05095 | 05095 | 015361 | 015361 | 05095 | 05095 |
| 48 | Idle Speed Screw Cup | ---- | ---- | ---- | ---- | 014478 | ---- |
| 49 | * Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | Idle Speed Screw Bracket | 014349 | 014349 | 014349 | ---- | 014349 | ---- |
| 53 | Idle Speed Bracket Retaining Screw (2) | 014142 | 014142 | 014142 | ---- | 014142 | ---- |
| 55 | * Inlet Control Lever | 014020 | 014020 | 010513 | 014020 | 014020 | 014020 |
| 56 | * Inlet Control Lever Fulcrum Pin | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket | 015596 | 015596 | 014683 | 015596 | 015596 | 015596 |
| 59 | Inlet Screen | 015218 | 015218 | 015218 | 015218 | 015218 | 015218 |
| 60 | Inlet Screen Ret. Spring | 015219 | 015219 | 015219 | 015219 | 015219 | 015219 |
| 61 | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring | 011503 | 011503 | 011503 | 011503 | 011503 | 011503 |
| 63 | Inlet Valve Gasket | 014646 | 014646 | 014646 | 014646 | 014646 | 014646 |
| 64 | * Inlet Valve Diaphragm | 014647 | 014647 | 014647 | 014647 | 014647 | 014647 |
| 65 | Inlet Valve Body & Strainer | 014648 | 014648 | 014648 | 014648 | 014648 | 014648 |
| 66 | Inlet Valve Body Screw & Lockwasher (6) | 014687 | 014687 | 014687 | 014687 | 014687 | 014687 |
| 67 | High Speed Mixture Screw | 014247 | 014247 | 014247 | 014247 | 014247 | 014247 |
| 68 | High Speed Mixture Screw Gland | 013853 | 013853 | 013853 | 013853 | 013853 | 013853 |
| 69 | High Speed Mixture Screw Gland Gasket | 0676 | 0676 | 0676 | 0676 | 0676 | 0676 |
| 70 | High Speed Mixture Screw Gland Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 71 | * High Speed Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 72 | High Speed Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 74 | Main Fuel Jet (.089) | 014993 | 014993 | 014993 | ---- | ---- | 014993 |
| 74 | Main Fuel Jet (.1015) | ---- | ---- | ---- | 015190 | ---- | ---- |
| 74 | Main Fuel Jet (.120) | ---- | ---- | ---- | ---- | 015009 | ---- |
| 74A | Main Fuel Jet Gasket | 013683 | 013683 | 013683 | 013683 | 013683 | 013683 |
| 76 | Nozzle Check Valve | 014578 | 014578 | 014578 | 014578 | 013789 | 014578 |
| 81 | Throttle Cable Bracket | ---- | ---- | ---- | 015336 | ---- | 014999 |
| 82 | Throttle Cable Bracket Lockwasher (2) | ---- | ---- | ---- | 0992 | ---- | 0992 |
| 83 | Throttle Cable Bracket Ret. Screw (2) | ---- | ---- | ---- | 015384 | ---- | 015384 |
| 84 | Throttle Cable Clamp | ---- | ---- | ---- | 014995 | ---- | 014995 |
| 85 | Throttle Cable Clamp Ret. Screw | ---- | ---- | ---- | 014998 | ---- | 014998 |
| 86 | Throttle Cable Clamp Ret. Nut | ---- | ---- | ---- | 014997 | ---- | 014997 |
| 87 | Throttle Shaft & Lever | 015810 | 014992 | 014992 | 015223 | 015025 | 014992 |
| 88 | Throttle Shaft Clip | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | Throttle Shaft Clip Retaining Screw | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring | 014348 | 014348 | 014348 | 014348 | 014348 | 014348 |
| 96 | Throttle Shutter | 013745 | 013745 | 013745 | 013745 | 013745 | 013745 |
| 97 | * Throttle Shutter Screw (2) | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 103 | * Throttle Wire Retaining Screw | 055 | 055 | 055 | 055 | 055 | 055 |
| | * **Gasket Set** | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD |
| | **Repair Parts Kit** | RK-1HD | RK-1HD | RK-1HD | RK-1HD | RK-1HD | RK-1HD |
| | **Diaphragm & Gasket Set** | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD |

(*) Indicates Contents of Repair Parts Kit

**BASIC PARTS ILLUSTRATIONS:** See Front Page for illustrations corresponding to reference **numbers** in list below.

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-69A | | Sports Power Corp. |
| HD-71A | | AMF |
| HD-72A | | Bombardier |
| HD-73A | | Bombardier |
| HD-74A | | Duffers Assoc. |
| HD-75A | | Lionel Ent. |

| Ref. No. | Part Name | HD-69A | HD-71A | HD-72A | HD-73A | HD-74A | HD-75A |
|---|---|---|---|---|---|---|---|
| 7 | Body Channel Plug Screw | 014988 | 014988 | ---- | ---- | 014988 | 014988 |
| 8 | Body Channel Plug Screw | ---- | 0244 | 0244 | ---- | 0244 | 0244 |
| 9 | * Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | Choke Friction Ball | 04784 | 04784 | 04784 | 04784 | 04784 | 04784 |
| 13 | Choke Friction Spring | 08805 | 08805 | 08805 | 08805 | 08805 | 08805 |
| 19 | Choke Shaft & Lever | 014991 | 014991 | 015676 | 015185 | 014991 | 014991 |
| 22 | Choke Shutter | 014232 | 015010 | 015010 | 015010 | 015010 | 015010 |
| 23 | Choke Shutter Screw (2) | 015912 | 015912 | 08942 | 015912 | 015912 | 015912 |
| 27 | * Choke Wire Retaining Screw | 055 | 055 | ---- | ---- | 055 | 055 |
| 28 | Diaphragm Gasket | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * Diaphragm | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | Diaphragm Cover | 015791 | 014642 | 014642 | 014642 | 014642 | 015378 |
| 34 | Elbow Connector | 015455 | ---- | ---- | 015455 | ---- | ---- |
| 35 | Flange Gasket | 014834 | 014834 | 015194 (2) | 015194 | 014834 | 014834 |
| 36 | Fuel Pump Gasket | 014643 | 014643 | 014643 | 014643 | 014643 | 014643 |
| 37 | * Fuel Pump Diaphragm | 014644 | 014644 | 014644 | 014644 | 014644 | 014644 |
| 38 | Fuel Pump Body | 014645 | 014645 | 014645 | 014645 | 014645 | 014645 |
| 39 | * Fuel Strainer Screen | 011516 | 011516 | 011516 | 011516 | 011516 | 011516 |
| 40 | Fuel Strainer Cover Gasket | 010529 | 010529 | 010529 | 014804 | 010529 | 010529 |
| 41 | Fuel Strainer Cover | 014937 | 014937 | 014937 | ---- | 014937 | 014937 |
| 42 | * Fuel Strainer Cover Retaining Screw | 010571 | 010571 | 010571 | ---- | 010571 | 010571 |
| 43 | Idle Mixture Screw | 014239 | 014239 | 015864 | 015864 | 014239 | 014239 |
| 44 | * Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * Idle Speed Screw | 05095 | 05095 | 015361 | 015361 | 05095 | 015361 |
| 48 | Idle Speed Screw Cup | ---- | 014478 | ---- | ---- | ---- | ---- |
| 49 | * Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | Idle Speed Screw Bracket | 014349 | 015911 | ---- | ---- | 014349 | 014349 |
| 53 | Idle Speed Bracket Retaining Screw (2) | 014142 | 014142 | ---- | ---- | 014142 | 014142 |
| 55 | * Inlet Control Lever | 014020 | 014020 | 014020 | 014020 | 010513 | 014020 |
| 56 | * Inlet Control Lever Fulcrum Pin | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket | 015596 | 015596 | 015596 | 015596 | 014683 | 015596 |
| 59 | Inlet Screen | 015218 | 015218 | 015218 | 015218 | 015218 | 015218 |
| 60 | Inlet Screen Ret. Spring | 015219 | 015219 | 015219 | 015219 | 015219 | 015219 |
| 61 | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring | 011503 | 011503 | 011503 | 011503 | 011503 | 011503 |
| 63 | Inlet Valve Gasket | 014646 | 014646 | 014646 | 014646 | 014646 | 014646 |
| 64 | * Inlet Valve Diaphragm | 014647 | 014647 | 014647 | 014647 | 014647 | 014647 |
| 65 | Inlet Valve Body & Strainer | 014648 | 014648 | 015188 | 015188 | 014648 | 014648 |
| 66 | Inlet Valve Body Screw & Lockwasher (6) | 014687 | 014687 | 014687 | 014687 | 014687 | 014687 |
| 67 | High Speed Mixture Screw | 014247 | 014247 | 014247 | 014247 | 014247 | 014247 |
| 68 | High Speed Mixture Screw Gland | 013853 | 013853 | 013853 | 013853 | 013853 | 013853 |
| 69 | High Speed Mixture Screw Gland Gasket | 0676 | 0676 | 0676 | 0676 | 0676 | 0676 |
| 70 | High Speed Mixture Screw Gland Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 71 | * High Speed Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 72 | High Speed Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 74 | Main Fuel Jet (.089) | 014993 | 014993 | ---- | ---- | 014993 | 014993 |
| 74 | Main Fuel Jet (.096) | ---- | ---- | ---- | 014920 | ---- | ---- |
| 74 | Main Fuel Jet (.1015) | ---- | ---- | 015190 | ---- | ---- | ---- |
| 74A | Main Fuel Jet Gasket | 013683 | 013683 | 013683 | 013683 | 013683 | 013683 |
| 76 | Nozzle Check Valve | 014578 | 014578 | 014578 | 014578 | 014578 | 014578 |
| 81 | Throttle Cable Bracket | ---- | ---- | 015336 | 015336 | ---- | ---- |
| 82 | Throttle Cable Bracket Lockwasher (2) | ---- | ---- | 0992 | 0992 | ---- | ---- |
| 83 | Throttle Cable Bracket Ret. Screw (2) | ---- | ---- | 015384 | 015384 | ---- | ---- |
| 84 | Throttle Cable Clamp | ---- | ---- | 014995 | 014995 | ---- | ---- |
| 85 | Throttle Cable Clamp Ret. Screw | ---- | ---- | 014998 | 014998 | ---- | ---- |
| 86 | Throttle Cable Clamp Ret. Nut | ---- | ---- | 014997 | 014997 | ---- | ---- |
| 87 | Throttle Shaft & Lever | 015810 | 015915 | 015908 | 015223 | 014992 | 015949 |
| 88 | Throttle Shaft Clip | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | Throttle Shaft Clip Retaining Screw | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring | 014348 | 014348 | 014348 | 014348 | 014348 | 014348 |
| 96 | Throttle Shutter | 013745 | 013745 | 013745 | 013745 | 013745 | 013745 |
| 97 | * Throttle Shutter Screw (2) | 015912 | 08942 | 015912 | 015912 | 015912 | 015912 |
| 103 | * Throttle Wire Retaining Screw | 055 | ---- | 055 (2) | 055 | 055 | 055 |
| | * **Gasket Set** | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD |
| | **Repair Parts Kit** | RK-1HD | RK-1HD | RK-1HD | RK-1HD | RK-1HD | RK-1HD |
| | **Diaphragm & Gasket Set** | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD |

(*) Indicates Contents of Repair Parts Kit



**Marvel-Schebler/Tillotson** BORG WARNER
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**BASIC PARTS ILLUSTRATIONS:** See Front Page for illustrations corresponding to reference **numbers** in list below.

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-76A | | .Lionel |
| HD-77A | .HD-77B | .Harley Davidson |
| HD-77B | | .Harley Davidson |
| HD-78A | | .Sno-Jet |
| HD-79A | | .Leisure Vehicles |
| HD-80A | | .Featherweight, Kohler, Mansfield Aircraft Prod. |

| Ref. No. | Part Name | HD-76A | HD-77A | HD-77B | HD-78A | HD-79A | HD-80A |
|---|---|---|---|---|---|---|---|
| 7 | Body Channel Plug Screw | 014988 | 014988 | 014988 | 014988 | 014988 | 014988 |
| 8 | Body Channel Plug Screw | 0244 | ---- | ---- | 0244 | 0244 | 0244 |
| 9 | * Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | Choke Friction Ball | 04784 | 04784 | 04784 | 04784 | 04784 | 04784 |
| 13 | Choke Friction Spring | 08805 | 08805 | 08805 | 08805 | 08805 | 08805 |
| 14 | Choke Lever | ---- | 015937 | ---- | ---- | ---- | ---- |
| 15 | Choke Lever Retaining Screw | ---- | 0240 | ---- | ---- | ---- | ---- |
| 18 | Choke Shaft | ---- | 015052 | 015052 | ---- | ---- | ---- |
| 19 | Choke Shaft & Lever | 014991 | ---- | ---- | 014991 | 015107 | 014991 |
| 22 | Choke Shutter | 015010 | 015010 | 015010 | 015010 | 015010 | 015010 |
| 23 | Choke Shutter Screw (2) | 015912 | 08942 | 08942 | 015912 | 015912 | 015912 |
| 27 | * Choke Wire Retaining Screw | 055 | ---- | ---- | 055 | 055 | 055 |
| 28 | Diaphragm Gasket | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * Diaphragm | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | Diaphragm Cover | 015378 | 015941 | 015941 | 014705 | 014705 | 015378 |
| 34 | Elbow Connector | ---- | 015455 | 015455 | ---- | ---- | ---- |
| 35 | Flange Gasket | 014834 | ---- | ---- | 014834 | 014834 | 014834 |
| 36 | Fuel Pump Gasket | 014643 | 014643 | 014643 | 014643 | 014643 | 014643 |
| 37 | * Fuel Pump Diaphragm | 014644 | 014644 | 014644 | 014644 | 014644 | 014644 |
| 38 | Fuel Pump Body | 014645 | 014645 | 014645 | 014645 | 014645 | 014645 |
| 39 | * Fuel Strainer Screen | 011516 | 011516 | 011516 | 011516 | 011516 | 011516 |
| 40 | Fuel Strainer Cover Gasket | 010529 | 010529 | 010529 | 010529 | 010529 | 010529 |
| 41 | Fuel Strainer Cover | 014937 | 014937 | 014937 | 014937 | 014937 | 014937 |
| 42 | * Fuel Strainer Cover Retaining Screw | 010571 | 010571 | 010571 | 010571 | 010571 | 010571 |
| 43 | Idle Mixture Screw | 014239 | 014239 | 014239 | 014239 | 014239 | 014239 |
| 44 | * Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * Idle Speed Screw | 015361 | 05095 | 05095 | 05095 | 05095 | 015361 |
| 49 | * Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | Idle Speed Screw Bracket | 014349 | ---- | ---- | ---- | ---- | ---- |
| 53 | Idle Speed Bracket Retaining Screw (2) | 014142 | ---- | ---- | ---- | ---- | ---- |
| 55 | * Inlet Control Lever | 014020 | 014020 | 014020 | 014020 | 010513 | 010513 |
| 56 | * Inlet Control Lever Fulcrum Pin | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket | 015596 | 015596 | 015596 | 015596 | 014683 | 014683 |
| 59 | Inlet Screen | 015218 | 015218 | 015218 | 015218 | 015218 | 015218 |
| 60 | Inlet Screen Ret. Spring | 015219 | 015219 | 015219 | 015219 | 015219 | 015219 |
| 61 | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring | 011503 | 011503 | 011503 | 011503 | 011503 | 011503 |
| 63 | Inlet Valve Gasket | 014646 | 014646 | 014646 | 014646 | 014646 | 014646 |
| 64 | * Inlet Valve Diaphragm | 014647 | 014647 | 014647 | 014647 | 014647 | 014647 |
| 65 | Inlet Valve Body | 014648 | 014648 | 014648 | 014648 | 014648 | 014648 |
| 66 | Inlet Valve Body Screw & Lockwasher (6) | 014687 | 014687 | 014687 | 014687 | 014687 | 014687 |
| 67 | High Speed Mixture Screw | 014247 | 014247 | 014247 | 014247 | 014247 | 014247 |
| 68 | High Speed Mixture Screw Gland | 013853 | 013853 | 013853 | 013853 | 013853 | ---- |
| 69 | High Speed Mixture Screw Gland Gasket | 0676 | 0676 | 0676 | 0676 | 0676 | ---- |
| 70 | High Speed Mixture Screw Gland Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 71 | * High Speed Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 72 | High Speed Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 74 | Main Fuel Jet (.089) | ---- | 014993 | 014993 | 014993 | 014993 | ---- |
| 74 | Main Fuel Jet (.120) | 015009 | ---- | ---- | ---- | ---- | ---- |
| 74A | Main Fuel Jet Gasket | 013683 | 013683 | 013683 | 013683 | 013683 | ---- |
| 76 | Nozzle Check Valve | 014578 | 014578 | 014578 | 014578 | 014578 | 016013 |
| 81 | Throttle Cable Bracket | ---- | 014999 | 015960 | 014999 | 014999 | 014999 |
| 82 | Throttle Cable Bracket Lockwasher (2) | ---- | 0992 | 0992 | 0992 | 0992 | 0992 |
| 83 | Throttle Cable Bracket Ret. Screw (2) | ---- | 015384 | 015384 | 015384 | 015384 | 015384 |
| 84 | Throttle Cable Clamp | ---- | 014995 | 014995 | 014995 | 014995 | 014995 |
| 85 | Throttle Cable Clamp Ret. Screw | ---- | 014998 | 014998 | 014998 | 014998 | 014998 |
| 86 | Throttle Cable Clamp Ret. Nut | ---- | 014997 | 014997 | 014997 | 014997 | 014997 |
| 87 | Throttle Shaft & Lever | 014992 | 014992 | 015959 | 014992 | 014992 | 014992 |
| 88 | Throttle Shaft Clip | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | Throttle Shaft Clip Retaining Screw | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring | 014348 | 014348 | 014348 | 014348 | 014348 | 014348 |
| 92A | Throttle Shaft Seal (Small) | ---- | ---- | 015954 | ---- | ---- | ---- |
| 93 | Throttle Shaft Seal (Large) | ---- | ---- | 015955 | ---- | ---- | ---- |
| 96 | Throttle Shutter | 013745 | 013745 | 013745 | 013745 | 013745 | 013745 |
| 97 | * Throttle Shutter Screw (2) | 015912 | 015912 | 08942 | 015912 | 015912 | 015912 |
| 103 | * Throttle Wire Retaining Screw | 055 | 055 | 055 | 055 | 055 | 055 |
| | * **Gasket Set** | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD |
| | **Repair Parts Kit** | RK-1HD | RK-1HD | RK-1HD | RK-1HD | RK-1HD | RK-1HD |
| | **Diaphragm & Gasket Set** | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD |

(*) Indicates Contents of Repair Parts Kit

**BASIC PARTS ILLUSTRATIONS:** See Front Page for illustrations corresponding to reference **numbers** in list below.

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-81A | | Bombardier |
| HD-83A | | Bombardier |
| HD-85A | | Scorpion |
| HD-86A | | Moto Ski |
| HD-87A | | Arctic |
| HD-88A | | Featherweight |

| Ref. No. | Part Name | HD-81A | HD-83A | HD-85A | HD-86A | HD-87A | HD-88A |
|---|---|---|---|---|---|---|---|
| 7 | Body Channel Plug Screw | ---- | 014988 | 014988 | ---- | 014988 | ---- |
| 8 | Body Channel Plug Screw | ---- | ---- | 0244 | ---- | 0244 | ---- |
| 9 | Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | Choke Friction Ball | 04784 | 04784 | 04784 | 04784 | 04784 | 04784 |
| 13 | Choke Friction Spring | 08805 | 08805 | 08805 | 08805 | 08805 | 08805 |
| 14 | Choke Lever | ---- | ---- | ---- | ---- | 015051 | 015051 |
| 15 | Choke Lever Retaining Screw | ---- | ---- | ---- | ---- | 0240 | 0240 |
| 18 | Choke Shaft | ---- | ---- | ---- | ---- | 015794 | 015052 |
| 19 | Choke Shaft & Lever | 016036 | 016156 | 014991 | 014991 | ---- | ---- |
| 22 | Choke Shutter | 015010 | 016103 | 015010 | 015010 | 015010 | 015010 |
| 23 | Choke Shutter Screw (2) | 015912 | 015912 | 015912 | 015912 | 015912 | 08942 |
| 27 | * Choke Wire Retaining Screw | 055 | ---- | 055 | 055 | 055 | 055 |
| 28 | Diaphragm Gasket | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * Diaphragm | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | Diaphragm Cover | 014642 | 014642 | 014705 | 015378 | 014705 | 015941 |
| 34 | Elbow Connector | 015455 | 015455 | ---- | 015455 | ---- | 015455 |
| 35 | Flange Gasket | 015194 | 016104 (2) | 014834 (2) | 014834 | 014834 | 014834 |
| 36 | Fuel Pump Gasket | 014643 | 014643 | 014643 | 014643 | 014643 | 014643 |
| 37 | * Fuel Pump Diaphragm | 014644 | 014644 | 014644 | 014644 | 014644 | 014644 |
| 38 | Fuel Pump Body | 014645 | 014645 | 014645 | 014645 | 014645 | 014645 |
| 39 | * Fuel Strainer Screen | 011516 | 011516 | ---- | 011516 | 011516 | 011516 |
| 40 | Fuel Strainer Cover Gasket | 014804 | 014804 | ---- | 010529 | 010529 | 010529 |
| 41 | Fuel Strainer Cover | ---- | ---- | ---- | 014937 | 014937 | 014937 |
| 42 | * Fuel Strainer Cover Retaining Screw | ---- | ---- | ---- | 010571 | 010571 | 010571 |
| 43 | Idle Mixture Screw | 015864 | 015864 | 014239 | 014239 | 014239 | 014239 |
| 44 | * Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * Idle Speed Screw | 015361 | 015361 | 05095 | 015361 | 05095 | 05095 |
| 48 | Idle Speed Screw Cup | ---- | ---- | ---- | ---- | 014478 | ---- |
| 49 | * Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | Idle Speed Screw Bracket | ---- | ---- | 014349 | ---- | 014349 | ---- |
| 53 | Idle Speed Brkt Ret. Screw & Lkwshr (2) | ---- | ---- | 014142 | ---- | 014142 | --- |
| 55 | * Inlet Control Lever | 014020 | 014020 | 014020 | 014020 | 014020 | 014020 |
| 56 | * Inlet Control Lever Fulcrum Pin | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket | 015596 | 015596 | 015596 | 015596 | 015596 | 015596 |
| 59 | Inlet Screen | 015218 | 015218 | 015218 | 015218 | 015218 | 015218 |
| 60 | Inlet Screen Ret. Spring | 015219 | 015219 | 015219 | 015219 | 015219 | 015219 |
| 61 | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring | 011503 | 011503 | 011503 | 011503 | 011503 | 011503 |
| 63 | Inlet Valve Gasket | 014646 | 014646 | 014646 | 014646 | 014646 | 014646 |
| 64 | * Inlet Valve Diaphragm | 014647 | 014647 | 014647 | 014647 | 014647 | 014647 |
| 65 | Inlet Valve Body & Strainer | 015188 | 015188 | 015188 | 014648 | 014648 | 014648 |
| 66 | Inlet Valve Body Screw & Lkwshr (6) | 014687 | 014687 | 014687 | 014687 | 014687 | 014687 |
| 67 | High Speed Mixture Screw | 014247 | 014247 | 014247 | 014247 | 014247 | 014247 |
| 68 | High Speed Mixture Screw Gland | 013853 | 013853 | 013853 | 013853 | ---- | 013853 |
| 69 | High Speed Mixture Screw Gland Gasket | 0676 | 0676 | 0676 | 0676 | ---- | 0676 |
| 70 | High Speed Mixture Screw Gland Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 71 | * High Speed Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 72 | High Speed Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 73 | Lead Shot | ---- | 01449 | ---- | ---- | ---- | ---- |
| 74 | Main Fuel Jet (.089) | ---- | ---- | 014993 | 014993 | ---- | 014993 |
| 74 | Main Fuel Jet (.096) | ---- | 014920 | ---- | ---- | ---- | ---- |
| 74 | Main Fuel Jet (.1015) | 015190 | ---- | ---- | ---- | ---- | ---- |
| 74A | Main Fuel Jet Gasket | 013683 | 013683 | 013683 | 013683 | ---- | 013683 |
| 76 | Nozzle Check Valve | 014578 | ---- | 014578 | 014578 | 014578 | 014578 |
| 77 | Nozzle Check Valve Assembly | ---- | 016198 | ---- | ---- | ---- | ---- |
| 80 | Recirculator, Connector Elbow | ---- | ---- | ---- | ---- | 015455 | ---- |
| 81 | Throttle Cable Bracket | 015336 | 015336 | ---- | 014999 | ---- | 014999 |
| 82 | Throttle Cable Bracket Lockwasher (2) | 0992 | 0992 | ---- | 0992 | ---- | 0992 |
| 83 | Throttle Cable Bracket Ret. Screw (2) | 015384 | 015384 | ---- | 015384 | ---- | 015384 |
| 84 | Throttle Cable Clamp | 014995 | 014995 | ---- | 014995 | ---- | 014995 |
| 85 | Throttle Cable Clamp Ret. Screw | 014998 | 014998 | ---- | 014998 | ---- | 014998 |
| 86 | Throttle Cable Clamp Ret. Nut | 014997 | 014997 | ---- | 014997 | ---- | 014997 |
| 87 | Throttle Shaft & Lever | 015223 | 016106 | 016160 | 014992 | 015393 | 014992 |
| 88 | Throttle Shaft Clip | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | Throttle Shaft Clip Ret. Screw | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring | 014348 | 015988 | 015988 | 015988 | 015988 | 014348 |
| 96 | Throttle Shutter | 013745 | 015984 | 013745 | 013745 | 013745 | 013745 |
| 97 | * Throttle Shutter Screw (2) | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 103 | * Throttle Wire Retaining Screw | 055 | 055 | 055 | 055 | 055 | 055 |
| | * **Gasket Set** | GS-1HD | GS-3HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD |
| | **Repair Parts Kit** | RK-1HD | RK-5HD | RK-4HD | RK-4HD | RK-4HD | RK-1HD |
| | **Diaphragm & Gasket Set** | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD |

(*) Indicates Contents of Repair Parts Kit



**Marvel-Schebler/Tillotson** BORG WARNER
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**BASIC PARTS ILLUSTRATIONS:** See Front Page for illustrations corresponding to reference **numbers** in list below.

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-89A | | Featherweight |
| HD-90A | | Skiroule |
| HD-91A | | Skiroule |
| HD-92A | | Skiroule |
| HD-93A | | Skiroule |
| HD-94A | | Kiekhafer Aeromarine |

| Ref. No. | Part Name | HD-89A | HD-90A | HD-91A | HD-92A | HD-93A | HD-94A |
|---|---|---|---|---|---|---|---|
| 9 | Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | Choke Friction Ball | 04784 | 04784 | 04784 | 04784 | 04784 | 04784 |
| 13 | Choke Friction Spring | 08805 | 08805 | 08805 | 08805 | 08805 | 08805 |
| 14 | Choke Lever | 015051 | ---- | ---- | ---- | ---- | ---- |
| 15 | Choke Lever Retaining Screw | 0240 | ---- | ---- | ---- | ---- | ---- |
| 18 | Choke Shaft | 015052 | ---- | ---- | ---- | ---- | ---- |
| 19 | Choke Shaft & Lever | ---- | 015676 | 015676 | 016181 | 015676 | 014991 |
| 22 | Choke Shutter | 015010 | 015010 | 015010 | 015010 | 015010 | 015010 |
| 23 | Choke Shutter Screw (2) | 08942 | 08942 | 08942 | 08942 | 08942 | 015912 |
| 27 | * Choke Wire Retaining Screw | 055 | ---- | ---- | ---- | ---- | 055 |
| 28 | Diaphragm Gasket | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * Diaphragm | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | Diaphragm Cover | 015941 | 015941 | 014705 | 014705 | 014705 | 014705 |
| 34 | Elbow Connector | 015455 | 015455 | 015455 | 015455 | 015455 | 015455 |
| 35 | Flange Gasket | 014834 | 014834 | 014834 | 014834 | 014834 | 014834 |
| 36 | Fuel Pump Gasket | 014643 | 014643 | 014643 | 014643 | 014643 | 014643 |
| 37 | * Fuel Pump Diaphragm | 014644 | 014644 | 014644 | 014644 | 014644 | 014644 |
| 38 | Fuel Pump Body | 014645 | 014645 | 014645 | 014645 | 014645 | 014645 |
| 39 | * Fuel Strainer Screen | 011516 | 011516 | 011516 | 011516 | 011516 | 011516 |
| 40 | Fuel Strainer Cover Gasket | 010529 | ---- | ---- | ---- | ---- | 010529 |
| 41 | Fuel Strainer Cover | 014937 | ---- | ---- | ---- | ---- | 014937 |
| 42 | * Fuel Strainer Cover Retaining Screw | 010571 | ---- | ---- | ---- | ---- | 010571 |
| 43 | Idle Mixture Screw | 014239 | 015864 | 015864 | 014239 | 015864 | 014239 |
| 44 | * Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * Idle Speed Screw | 05095 | 05095 | 05095 | 05095 | 05095 | 015361 |
| 49 | * Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | Idle Speed Screw Bracket | 014349 | ---- | ---- | ---- | 014349 | ---- |
| 53 | Idle Speed Bracket Ret. Screw & Lkwshr (2) | 014142 | ---- | ---- | ---- | 014142 | ---- |
| 55 | * Inlet Control Lever | 014020 | 014020 | 014020 | 014020 | 014020 | 014020 |
| 56 | * Inlet Control Lever Fulcrum Pin | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket | 015596 | 015596 | 015596 | 015596 | 015596 | 015596 |
| 59 | Inlet Screen | 015218 | 015218 | 015218 | 015218 | 015218 | 015218 |
| 60 | Inlet Screen Ret. Spring | 015219 | 015219 | 015219 | 015219 | 015219 | 015219 |
| 61 | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring | 011503 | 011503 | 011503 | 011503 | 011503 | 011503 |
| 63 | Inlet Valve Gasket | 014646 | 014646 | 014646 | 014646 | 014646 | 014646 |
| 64 | * Inlet Valve Diaphragm | 014647 | 014647 | 014647 | 014647 | 014647 | 014647 |
| 65 | Inlet Valve Body & Strainer | 014648 | 015188 | 015188 | 015188 | 015188 | 014648 |
| 66 | Inlet Valve Body Screw & Lkwshr (6) | 014687 | 014687 | 014687 | 014687 | 014687 | 014687 |
| 67 | High Speed Mixture Screw | 014247 | 014247 | 014247 | 014247 | 014247 | 014247 |
| 68 | High Speed Mixture Screw Gland | 013853 | 013853 | 013853 | 013853 | 013853 | 013853 |
| 69 | High Speed Mixture Screw Gland Gasket | 0676 | 0676 | 0676 | 0676 | 0676 | 0676 |
| 70 | High Speed Mixture Screw Gland Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 71 | * High Speed Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 72 | High Speed Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 74 | Main Fuel Jet (.089) | 014993 | 014993 | 014993 | 014993 | 014993 | 014993 |
| 74A | Main Fuel Jet Gasket | 013683 | 013683 | 013683 | 013683 | 013683 | 013683 |
| 76 | Nozzle Check Valve | 014578 | 014578 | 014578 | 014578 | 014578 | 014578 |
| 81 | Throttle Cable Bracket | ---- | 015336 | 015336 | 015336 | ---- | 014999 |
| 82 | Throttle Cable Bracket Lockwasher (2) | ---- | 0992 | 0992 | 0992 | ---- | 0992 |
| 83 | Throttle Cable Brkt. Ret. Screw (2) | ---- | 015384 | 015384 | 015384 | ---- | 015384 |
| 84 | Throttle Cable Clamp | ---- | 014995 | 014995 | 014995 | ---- | 014995 |
| 85 | Throttle Cable Clamp Ret. Screw | ---- | 014998 | 014998 | 014998 | ---- | 014998 |
| 86 | Throttle Cable Clamp Ret. Nut | ---- | 014997 | 014997 | 014997 | ---- | 014997 |
| 87 | Throttle Shaft & Lever | 015025 | 015223 | 015223 | 016183 | 015025 | 015882 |
| 88 | Throttle Shaft Clip | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | Throttle Shaft Clip Retaining Screw | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring | 015988 | 015988 | 015988 | 015988 | 015988 | 015988 |
| 96 | Throttle Shutter | 013745 | 013745 | 013745 | 013745 | 013745 | 013745 |
| 97 | * Throttle Shutter Screw (2) | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 103 | * Throttle Wire Retaining Screw | 055 | 055 | 055 | 055 | 055 | 055 |
| | * **Gasket Set** | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD |
| | **Repair Parts Kit** | RK-4HD | RK-4HD | RK-4HD | RK-4HD | RK-4HD | RK-4HD |
| | **Diaphragm & Gasket Set** | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD |

(*) Indicates Contents of Repair Parts Kit

**BASIC PARTS ILLUSTRATIONS:** See Front Page for illustrations corresponding to reference numbers in list below.

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-95A | | Kiekhaefer Aeromarine |
| HD-96A | | Sno-Jet |
| HD-97A | | AMF |
| HD-98A | | Bombardier |
| HD-99A | | Bombardier |
| HD-100A | | Bombardier |

| Ref. No. | Part Name | HD-95A | HD-96A | HD-97A | HD-98A | HD-99A | HD-100A |
|---|---|---|---|---|---|---|---|
| 7 | Body Channel Plug Screw | ---- | 014988 | 014988 | ---- | ---- | ---- |
| 8 | Body Channel Plug Screw | ---- | 0244 | ---- | ---- | 0244 | 0244 |
| 9 | Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | Choke Friction Ball | 04784 | 04784 | 04784 | 04784 | ---- | ---- |
| 13 | Choke Friction Spring | 08805 | 08805 | 08805 | 08805 | ---- | ---- |
| 14 | Choke Lever | 015051 | ---- | ---- | ---- | ---- | ---- |
| 15 | Choke Lever Retaining Screw | 0240 | ---- | ---- | ---- | ---- | ---- |
| 18 | Choke Shaft | 015102 | ---- | ---- | ---- | ---- | ---- |
| 19 | Choke Shaft & Lever | ---- | 014991 | 016196 | 015185 | ---- | ---- |
| 22 | Choke Shutter | 015010 | 015010 | 015010 | 015010 | ---- | ---- |
| 23 | Choke Shutter Screw (2) | 015912 | 015912 | 08942 | 015912 | ---- | ---- |
| 27 | * Choke Wire Retaining Screw. | 055 | 055 | 055 | ---- | ---- | ---- |
| 28 | Diaphragm Gasket. | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * Diaphragm | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | Diaphragm Cover | 014705 | 014705 | 014705 | 014642 | 016292 | 016292 |
| 34 | Elbow Connector | 015455 | ---- | 015455 | 015455 | ---- | ---- |
| 35 | Flange Gasket | 014834 | 014834 | 014834 | 015194(2) | 015194(2) | 016104(2) |
| 36 | Fuel Pump Gasket. | 014643 | 014643 | 014643 | 014643 | 014643 | 014643 |
| 37 | * Fuel Pump Diaphragm | 014644 | 014644 | 014644 | 014644 | 014644 | 014644 |
| 38 | Fuel Pump Body. | 014645 | 014645 | 014645 | 014645 | 014645 | 014645 |
| 39 | * Fuel Strainer Screen. | 011516 | ---- | 011516 | 011516 | 011516 | 011516 |
| 40 | Fuel Strainer Cover Gasket. | 010529 | ---- | 010529 | 014804 | 010529 | 010529 |
| 41 | Fuel Strainer Cover | 014937 | ---- | 014937 | ---- | 014937 | 014937 |
| 42 | * Fuel Strainer Cover Retaining Screw | 010571 | ---- | 010571 | ---- | 010571 | 010571 |
| 43 | Idle Mixture Screw. | 014239 | 014239 | 014239 | 015864 | 015864 | 015864 |
| 44 | * Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing. | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * Idle Speed Screw. | 05095 | 05095 | 05095 | 015361 | 015361 | 015361 |
| 49 | * Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | Idle Speed Screw Bracket. | 014349 | ---- | 014349 | 014349 | ---- | ---- |
| 53 | Idle Speed Brkt Ret. Screw & Lkwshr (2) | 014142 | ---- | 014142 | 014142 | ---- | ---- |
| 55 | * Inlet Control Lever | 014020 | 014020 | 010513 | 014020 | 014020 | 014020 |
| 56 | * Inlet Control Lever Fulcrum Pin | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket | 015596 | 015596 | 014632 | 015596 | 015596 | 015596 |
| 59 | Inlet Screen. | 015218 | 015218 | 015218 | 015218 | 015218 | ---- |
| 59A | * Inlet Screen. | ---- | ---- | ---- | ---- | ---- | 010301 |
| 60 | Inlet Screen Ret. Spring. | 015219 | 015219 | 015219 | 015219 | 015219 | ---- |
| 61 | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring. | 011503 | 011503 | 011503 | 011503 | 011503 | 011503 |
| 63 | Inlet Valve Gasket. | 014646 | 014646 | 014646 | 014646 | 014646 | 014646 |
| 64 | * Inlet Valve Diaphragm | 014647 | 014647 | 014647 | 014647 | 014647 | 014647 |
| 65 | Inlet Valve Body & Strainer | 014648 | 015188 | 014648 | 015188 | 015188 | 015188 |
| 66 | Inlet Valve Body Screw & Lockwasher (6) | 014687 | 014687 | 014687 | 014687 | 014687 | 014687 |
| 67 | High Speed Mixture Screw. | 014247 | 014247 | 014247 | 014247 | 014247 | 014247 |
| 68 | High Speed Mixture Screw Gland. | 013853 | 013853 | 013853 | 013853 | 013853 | 013853 |
| 69 | High Speed Mixture Screw Gland Gasket | 0676 | 0676 | 0676 | 0676 | 0676 | 0676 |
| 70 | High Speed Mixture Screw Gland Packing. | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 71 | * High Speed Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 72 | High Speed Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 73 | Lead Shot | ---- | ---- | ---- | ---- | ---- | 01449 |
| 74 | Main Fuel Jet (.089). | 014993 | 014993 | ---- | 014993 | ---- | ---- |
| 74 | Main Fuel Jet (.096). | ---- | ---- | ---- | ---- | ---- | 014920 |
| 74 | Main Fuel Jet (.1015) | ---- | ---- | ---- | ---- | 015190 | ---- |
| 74 | Main Fuel Jet (.120). | ---- | ---- | 015009 | ---- | ---- | ---- |
| 74A | Main Fuel Jet Gasket. | 013683 | 013683 | 013683 | 013683 | 013683 | 013683 |
| 76 | Nozzle Check Valve. | 014578 | 014578 | 013789 | 014578 | 014578 | ---- |
| 77 | Nozzle Check Valve Assembly | ---- | ---- | ---- | ---- | ---- | 016198 |
| 81 | Throttle Cable Bracket. | ---- | 014999 | ---- | ---- | 015336 | 015336 |
| 82 | Throttle Cable Bracket Lockwasher (2) | ---- | 0992 | ---- | ---- | 0992 | 0992 |
| 83 | Throttle Cable Bracket Ret. Screw (2) | ---- | 015384 | ---- | ---- | 015384 | 015384 |
| 84 | Throttle Cable Clamp. | ---- | 014995 | ---- | ---- | 014995 | 014995 |
| 85 | Throttle Cable Clamp Ret. Screw | ---- | 014998 | ---- | ---- | 014998 | 014998 |
| 86 | Throttle Cable Clamp Ret. Nut | ---- | 014997 | ---- | ---- | 014997 | 014997 |
| 87 | Throttle Shaft & Lever. | 014992 | 014992 | 015025 | 015223 | 015908 | 016233 |
| 88 | Throttle Shaft Clip | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher. | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | Throttle Shaft Clip Retaining Screw | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring. | 015988 | 015988 | 014348 | 015988 | 015988 | 015988 |
| 96 | Throttle Shutter. | 013745 | 013745 | 013745 | 013745 | 013745 | 015984 |
| 97 | * Throttle Shutter Screw (2). | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 103 | * Throttle Wire Retaining Screw | 055 | 055 | 055 | 055 | 055 | 055 |
| | * **Gasket Set** | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-3HD |
| | **Repair Parts Kit** | RK-4HD | RK-4HD | RK-1HD | RK-4HD | RK-4HD | RK-5HD |
| | **Diaphragm & Gasket Set** | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD |

(*) Indicates Contents of Repair Parts Kit



**Marvel-Schebler/Tillotson** BORG WARNER®
DIVISION OF BORG-WARNER CORPORATION
761 Berdan Avenue • Box 6598, Toledo, Ohio 43612

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-100AX | | Bombardier |
| HD-101A | | Bombardier |
| HD-104A | | Bombardier |
| HD-105A | | Rupp |
| HD-105B | | Rupp |
| HD-106A | | Sno-Jet * |

| Ref. No. | Part Name | HD-100AX | HD-101A | HD-104A | HD-105A | HD-105B | HD-106A |
|---|---|---|---|---|---|---|---|
| 7 | Body Channel Plug Screw. | ---- | ---- | ---- | ---- | 016714 | 014988 |
| 8 | Body Channel Plug Screw. | 0244 | ---- | ---- | 0244 | ---- | ---- |
| 9 | Body Channel Welch Plug (2). | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | Choke Friction Ball. | ---- | 04784 | 04784 | ---- | ---- | 04784 |
| 13 | Choke Friction Spring. | ---- | 08805 | 08805 | ---- | ---- | 08805 |
| 18 | Choke Shaft. | ---- | ---- | ---- | ---- | ---- | 016355 |
| 19 | Choke Shaft & Lever. | ---- | 015185 | 016196 | ---- | ---- | ---- |
| 22 | Choke Shutter. | ---- | 015010 | 015010 | ---- | ---- | 015010 |
| 23 | Choke Shutter Screw (2). | ---- | 015912 | 08942 | ---- | ---- | 015912 |
| 27 | * Choke Wire Retaining Screw | ---- | ---- | 055 | ---- | ---- | ---- |
| 28 | Diaphragm Gasket | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * Diaphragm. | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | Diaphragm Cover. | 016292 | 014642 | 014642 | 014705 | 014705 | 015941 |
| 34 | Elbow Connector. | ---- | 015455 | 015455 | 015455 | 015455 | 015455 |
| 35 | Flange Gasket. | 016104 | 015194 | 015194(2) | 016104 | 016104 | 014834 |
| 36 | Fuel Pump Gasket | 014643 | 014643 | 014643 | 014643 | 014643 | 014643 |
| 37 | * Fuel Pump Diaphragm. | 014644 | 014644 | 014644 | 014644 | 014644 | 014644 |
| 38 | Fuel Pump Body | 014645 | 014645 | 014645 | 014645 | 014645 | 014645 |
| 39 | * Fuel Strainer Screen | 011516 | 011516 | 011516 | 011516 | 011516 | 011516 |
| 40 | Fuel Strainer Cover Gasket | 010529 | 010529 | 010529 | 010529 | 010525 | 010529 |
| 41 | Fuel Strainer Cover. | 014937 | 014937 | 014937 | 014937 | 014937 | 014937 |
| 42 | * Fuel Strainer Cover Retaining Screw. | 010571 | 010571 | 010571 | 010571 | 010571 | 010571 |
| 43 | Idle Mixture Screw | 015864 | 015864 | 014239 | 015864 | 015864 | 014239 |
| 44 | * Idle Mixture Screw Spring. | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer. | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * Idle Speed Screw | 015361 | 015361 | 05095 | 05095 | 05095 | 05095 |
| 49 | * Idle Speed Screw Spring. | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | Idle Speed Screw Bracket | ---- | ---- | ---- | ---- | ---- | ---- |
| 53 | Idle Speed Brkt Ret. Screw & Lkwshr (2). | ---- | ---- | ---- | ---- | ---- | ---- |
| 55 | * Inlet Control Lever. | 013100 | 014020 | 014020 | 010513 | 010513 | 014020 |
| 56 | * Inlet Control Lever Fulcrum Pin. | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw. | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket. | 014632 | 015596 | 015596 | 014237 | 014237 | 015596 |
| 59 | Inlet Screen | 010301 | 015218 | 015218 | 015218 | ---- | 015218 |
| 60 | Inlet Screen Ret. Spring | ---- | 015219 | 015219 | 015219 | ---- | 015219 |
| 61 | Inlet Seat Gasket. | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring | 011503 | 011503 | 011503 | 011503 | 011503 | 011503 |
| 63 | Inlet Valve Gasket | 014646 | 014646 | 014646 | 014646 | 014646 | 014646 |
| 64 | * Inlet Valve Diaphragm. | 014647 | 014647 | 014647 | 014647 | 014647 | 014647 |
| 65 | Inlet Valve Body & Strainer. | 015188 | 015188 | 015188 | 015188 | 015188 | 014648 |
| 66 | Inlet Valve Body Screw & Lkwshr (6). | 014687 | 014687 | 014687 | 014687 | 014687 | 014687 |
| 67 | High Speed Mixture Screw | 014247 | 014247 | 014247 | 014247 | 014247 | 014247 |
| 68 | High Speed Mixture Screw Gland | 013853 | 013853 | 013853 | ---- | ---- | 013853 |
| 69 | High Speed Mixture Screw Gland Gasket. | 0676 | 0676 | 0676 | ---- | ---- | 0676 |
| 70 | High Speed Mixture Screw Gland Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 71 | * High Speed Mixture Screw Spring. | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 72 | High Speed Mixture Screw Washer. | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 73 | Lead Shot. | 01449 | ---- | ---- | 01449 | 01449 | ---- |
| 74 | Main Fuel Jet (.076) | ---- | ---- | 016290 | ---- | ---- | ---- |
| 74 | Main Fuel Jet (.089) | ---- | 014993 | ---- | ---- | ---- | 014993 |
| 74 | Main Fuel Jet (.125) | 016648 | ---- | ---- | ---- | ---- | ---- |
| 74A | Main Fuel Jet Gasket | 013683 | 013683 | 013683 | ---- | ---- | 013683 |
| 76 | Nozzle Check Valve | ---- | 014578 | 014578 | ---- | ---- | 014578 |
| 77 | Nozzle Check Valve Assembly | 016198 | ---- | ---- | 016305 | 016690 | ---- |
| 81 | Throttle Cable Bracket | 015336 | 015336 | 015336 | 014999 | 014999 | 014999 |
| 82 | Throttle Cable Bracket Lockwasher (2). | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 83 | Throttle Cable Bracket Ret. Screw (2). | 015384 | 015384 | 015384 | 015384 | 015384 | 015384 |
| 84 | Throttle Cable Clamp | 014995 | 014995 | 014995 | 014995 | 014995 | 014995 |
| 85 | Throttle Cable Clamp Ret. Screw. | 014998 | 014998 | 014998 | 014998 | 014998 | 014998 |
| 86 | Throttle Cable Clamp Ret. Nut. | 014997 | 014997 | 014997 | 014997 | 014997 | 014997 |
| 87 | Throttle Shaft & Lever | 016233 | 015223 | 015223 | 015987 | 015987 | 014992 |
| 88 | Throttle Shaft Clip. | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher | 0992 | 0992* | 0992 | 0992 | 0992 | 0992 |
| 90 | Throttle Shaft Clip Retaining Screw. | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring | 015988 | 015988 | 015988 | 015988 | 015988 | 015988 |
| 96 | Throttle Shutter | 015984 | 013745 | 013745 | 015984 | 015984 | 013745 |
| 97 | * Throttle Shutter Screw (2) | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 103 | * Throttle Wire Retaining Screw. | 055 | 055 | 055 | 055 | 055 | 055 |
| | * Gasket Set | GS-3HD | GS-1HD | GS-1HD | GS-3HD | GS-3HD | GS-1HD |
| | Repair Parts Kit | RK-5HD | RK-4HD | RK-4HD | RK-6HD | RK-6HD | RK-4HD |
| | Diaphragm & Gasket Set | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DH-1HD |

(*) Indicates contents of Repair Parts Kit



**Tillotson Carburetors**
**Marvel-Schebler/Tillotson Division,** Borg-Warner Corporation
761 Berdan Avenue, Box 6598, Toledo, Ohio 43612

BORG WARNER Transportation Equipment

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-107A. | | Bombardier |
| HD-108A. | | Bombardier |
| HD-109A. | | Bombardier |
| HD-110A. | | Bombardier |
| HD-111A. | | McCulloch |
| *HD-113A. | | Moto-Ski |

| Ref. No. | Part Name | HD-107A | HD-108A | HD-109A | HD-110A | HD-111A | HD-113A |
|---|---|---|---|---|---|---|---|
| 7 | Body Channel Plug Screw. | ---- | ---- | ---- | ---- | 014988 | ---- |
| 8 | Body Channel Plug Screw. | ---- | 01102 | ---- | ---- | ---- | ---- |
| 9 | Body Channel Welch Plug (2). | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | Choke Friction Ball. | 04784 | 04784 | 04784 | 04784 | 04784 | 04784 |
| 13 | Choke Friction Spring. | 08805 | 08805 | 08805 | 08805 | 08805 | 08805 |
| 14 | Choke Lever. | ---- | ---- | ---- | ---- | 015051 | ---- |
| 15 | Choke Lever Retaining Screw. | ---- | ---- | ---- | ---- | 0240 | ---- |
| 18 | Choke Shaft. | ---- | ---- | ---- | ---- | 016412 | ---- |
| 19 | Choke Shaft & Lever. | 016036 | 016036 | 016036 | 016036 | ---- | 014990 |
| 22 | Choke Shutter. | 015010 | 015010 | 016466 | 016103 | 016103 | 015010 |
| 23 | Choke Shutter Screw (2). | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 27 | * Choke Wire Retaining Screw | 055 | 055 | 055 | 055 | 055 | ---- |
| 28 | Diaphragm Gasket | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * Diaphragm. | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | Diaphragm Cover. | 014705 | 015941 | 014705 | 014705 | 016371 | 016376 |
| 34 | Elbow Connector. | 016330 | 016330 | 016330 | 016330 | 015455 | 015455 |
| 35 | Flange Gasket. | 015194(2) | 015194(2) | 016104(3) | 016104(2) | 015953 | 014834 |
| 36 | Fuel Pump Gasket | 014643 | 014643 | 014643 | 014643 | 014643 | 014643 |
| 37 | * Fuel Pump Diaphragm. | 014644 | 014644 | 014644 | 014644 | 014644 | 014644 |
| 38 | Fuel Pump Body | 014645 | 014645 | 014645 | 014645 | 014645 | 014645 |
| 39 | * Fuel Strainer Screen | 011516 | 011516 | 011516 | 011516 | 011516 | 011516 |
| 40 | Fuel Strainer Cover Gasket | 014804 | 014804 | 014804 | 014804 | 010529 | 010529 |
| 41 | Fuel Strainer Cover. | ---- | ---- | ---- | ---- | 014937 | 014937 |
| 42 | * Fuel Strainer Cover Retaining Screw. | ---- | ---- | ---- | ---- | 010571 | 010571 |
| 43 | Idle Mixture Screw | 015864 | 015864 | 015864 | 015864 | 014239 | 014239 |
| 44 | * Idle Mixture Screw Spring. | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer. | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * Idle Speed Screw | 05095 | 05095 | 05095 | 05095 | 05095 | 05095 |
| 48 | Idle Speed Screw Cup | ---- | ---- | 014478 | ---- | ---- | ---- |
| 49 | * Idle Speed Screw Spring. | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | Idle Speed Screw Bracket | ---- | 014349 | ---- | ---- | 014349 | ---- |
| 53 | Idle Speed Bracket Ret. Screw & Lkwshr (2) | ---- | 014142 | ---- | ---- | 014142 | ---- |
| 55 | * Inlet Control Lever. | 014020 | 014020 | 010513 | 010513 | 014020 | 014020 |
| 56 | * Inlet Control Lever Fulcrum Pin. | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw. | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket. | 015596 | 015596 | 014632 | 014632 | 015596 | 015596 |
| 59 | Inlet Screen | 015218 | 015218 | 015218 | 015218 | 015218 | 015218 |
| 60 | Inlet Screen Ret. Spring | 015219 | 015219 | 015219 | 015219 | 015219 | 015219 |
| 61 | Inlet Seat Gasket. | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring | 011503 | 011503 | 011503 | 011503 | 011503 | 011503 |
| 63 | Inlet Valve Gasket | 014646 | 014646 | 014646 | 014646 | 014646 | 014646 |
| 64 | * Inlet Valve Diaphragm. | 014647 | 014647 | 014647 | 014647 | 014647 | 014647 |
| 65 | Inlet Valve Body & Strainer. | 015188 | 015188 | 015188 | 015188 | 014648 | 014648 |
| 66 | Inlet Valve Body Screw & Lkwshr. (6) | 014687 | 014687 | 014687 | 014687 | 014687 | 014687 |
| 67 | High Speed Mixture Screw | 014247 | ---- | 014247 | ---- | 014247 | 014247 |
| 68 | High Speed Mixture Screw Gland | 013853 | ---- | 013853 | ---- | 013853 | ---- |
| 69 | High Speed Mixture Screw Gland Gasket. | 0676 | ---- | 0676 | ---- | 0676 | ---- |
| 70 | High Speed Mixture Screw Gland Packing | 010511 | ---- | 010511 | ---- | 010511 | 010511 |
| 71 | * High Speed Mixture Screw Spring. | 011103 | ---- | 011103 | ---- | 011103 | 011103 |
| 72 | High Speed Mixture Screw Washer. | 03114 | ---- | 03114 | ---- | 03114 | 03114 |
| 73 | Lead Shot. | ---- | ---- | 01449 | 01449 | 01449 | ---- |
| 74 | Main Fuel Jet (.053) | ---- | 016594 | ---- | ---- | ---- | ---- |
| 74 | Main Fuel Jet (.060) | ---- | ---- | ---- | 016618 | ---- | ---- |
| 74 | Main Fuel Jet (.081) | 015192 | ---- | ---- | ---- | ---- | ---- |
| 74 | Main Fuel Jet (.096) | ---- | ---- | ---- | ---- | 014920 | ---- |
| 74 | Main Fuel Jet (.120) | ---- | ---- | 015009 | ---- | ---- | ---- |
| 74A | Main Fuel Jet Gasket | 013683 | 013683 | 013683 | 013683 | 013683 | ---- |
| 75 | Main Fuel Jet Plug Screw | ---- | ---- | ---- | 01102 | ---- | ---- |
| 76 | Nozzle Check Valve | 014578 | 014578 | ---- | ---- | ---- | 014578 |
| 77 | Nozzle Check Valve Assembly. | ---- | ---- | 016517 | 016198 | 016198 | ---- |
| 81 | Throttle Cable Bracket | 016332 | ---- | 016578 | 016332 | ---- | 014999 |
| 82 | Throttle Cable Bracket Lockwasher (2). | 0992 | ---- | 0992 | 0992 | ---- | 0992 |
| 83 | Throttle Cable Bracket Ret. Screw (2). | 015384 | ---- | 015384 | 015384 | ---- | 015384 |
| 84 | Throttle Cable Clamp | 014995 | ---- | 014995 | 014995 | ---- | 014995 |
| 85 | Throttle Cable Clamp Ret. Screw. | 016322 | ---- | 016322 | 016322 | ---- | 014998 |
| 86 | Throttle Cable Clamp Ret. Nut. | 014997 | ---- | 014997 | 014997 | ---- | 014997 |
| 87 | Throttle Shaft & Lever | 016331 | 016331 | 016614 | 016537 | 016369 | 014992 |
| 88 | Throttle Shaft Clip. | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | Throttle Shaft Clip Ret. Screw | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring | 015988 | 015988 | 015988 | 015988 | 015988 | 015988 |
| 96 | Throttle Shutter | 013745 | 013745 | 015984 | 015984 | 015984 | 013745 |
| 97 | * Throttle Shutter Screw (2) | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 103 | * Throttle Wire Retaining Screw. | 055 | 055 | 055 | 055 | 055 | 055 |
| | * Gasket Set | GS-1HD | GS-1HD | GS-3HD | GS-3HD | GS-1HD | GS-1HD |
| | Repair Parts Kit | RK-4HD | RK-4HD | RK-6HD | RK-6HD | RK-4HD | RK-4HD |
| | Diaphragm & Gasket Set | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD |

(*) Indicates contents of Repair Parts Kit



**Tillotson Carburetors**

**Marvel-Schebler/Tillotson Division,** Borg-Warner Corporation
761 Berdan Avenue, Box 6598, Toledo, Ohio 43612

BORG WARNER Transportation Equipment

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-114A. | | Kiekhaefer Aeromarine |
| HD-115A. | | Kiekhaefer Mercury |
| HD-116A. | | Air Cushion Vehicles |
| HD-117A. | | Fitchel & Sachs |
| HD-118A. | | Alsport |
| HD-119A. | | Rupp |

| Ref. No. | Part Name | HD-114A | HD-115A | HD-116A | HD-117A | HD-118A | HD-119A |
|---|---|---|---|---|---|---|---|
| 7 | Body Channel Plug Screw | ---- | 014988 | 014988 | 014988 | 014988 | ---- |
| 8 | Body Channel Plug Screw | ---- | 01102 | 0244 | 0244 | ---- | ---- |
| 9 | Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | Choke Friction Ball | 04784 | 04784 | 04784 | 04784 | 04784 | 04784 |
| 13 | Choke Friction Spring | 08805 | 08805 | 08805 | 08805 | 08805 | 08805 |
| 14 | Choke Lever | 015051 | 015051 | ---- | ---- | ---- | ---- |
| 15 | Choke Lever Ret. Screw. | 0240 | 0240 | ---- | ---- | ---- | ---- |
| 18 | Choke Shaft | 015102 | 016412 | ---- | ---- | ---- | ---- |
| 19 | Choke Shaft & Lever | ---- | ---- | 014991 | 014991 | 014991 | 016458 |
| 22 | Choke Shutter | 015010 | 015010 | 016103 | 015010 | 014232 | 016466 |
| 23 | Choke Shutter Screw (2) | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 27 | * Choke Wire Retaining Screw. | 055 | 055 | 055 | 055 | 055 | 055 |
| 28 | Diaphragm Gasket. | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * Diaphragm | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | Diaphragm Cover | 014705 | 015378 | 014705 | 014705 | 015791 | 015378 |
| 34 | Elbow Connector | 015455 | 016409 | ---- | ---- | 015455 | 015455 |
| 35 | Flange Gasket | 014834 | 014834 | 015953 | 014834 | 014834 | 016104 |
| 36 | Fuel Pump Gasket. | 014643 | 014643 | 014643 | 014643 | 014643 | 014643 |
| 37 | * Fuel Pump Diaphragm | 014644 | 014644 | 014644 | 014644 | 014644 | 014644 |
| 38 | Fuel Pump Body. | 014645 | 014645 | 014645 | 014645 | 014645 | 014645 |
| 39 | * Fuel Strainer Screen. | 011516 | 011516 | 011516 | 011516 | 011516 | 011516 |
| 40 | Fuel Strainer Cover Gasket. | 010529 | 010529 | 010529 | 010529 | 010529 | 010529 |
| 41 | Fuel Strainer Cover | 014937 | 014937 | 014937 | 014937 | 014937 | 014937 |
| 42 | * Fuel Strainer Cover Retaining Screw | 010571 | 010571 | 010571 | 010571 | 010571 | 010571 |
| 43 | Idle Mixture Screw. | 014239 | 014239 | 015864 | 014239 | 014239 | 015864 |
| 44 | * Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing. | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * Idle Speed Screw. | 05095 | 05095 | 015361 | 05095 | 05095 | 05095 |
| 49 | * Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | Idle Speed Screw Bracket. | 014349 | 014349 | ---- | ---- | ---- | ---- |
| 53 | Idle Speed Brkt Ret. Screw & Lkwshr (2). | 014142 | 014142 | ---- | ---- | ---- | ---- |
| 55 | * Inlet Control Lever | 014020 | 014020 | 014020 | 014020 | 014020 | 014020 |
| 56 | * Inlet Control Lever Fulcrum Pin | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket | 015596 | 015596 | 015596 | 016153 | 015596 | 015596 |
| 59 | Inlet Screen. | 015218 | 015218 | 015218 | 015218 | 015218 | 015218 |
| 60 | Inlet Screen Ret. Spring. | 015219 | 015219 | 015219 | 015219 | 015219 | 015219 |
| 61 | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring. | 011503 | 011503 | 011503 | 011503 | 011503 | 011503 |
| 63 | Inlet Valve Gasket. | 014646 | 014646 | 014646 | 014646 | 014646 | 014646 |
| 64 | * Inlet Valve Diaphragm | 014647 | 014647 | 014647 | 014647 | 014647 | 014647 |
| 65 | Inlet Valve Body & Strainer | 014648 | 014648 | 015188 | 014648 | 014648 | 014648 |
| 66 | Inlet Valve Body Screw & Lkwshr (6) | 014687 | 014687 | 014687 | 014687 | 014687 | 014687 |
| 67 | High Speed Mixture Screw. | 014247 | ---- | 014247 | 014247 | 014247 | 014247 |
| 68 | High Speed Mixture Screw Gland. | ---- | ---- | 013853 | 013853 | 013853 | 013853 |
| 69 | High Speed Mixture Screw Gland Gasket | ---- | ---- | 0676 | 0676 | 0676 | 0676 |
| 70 | High Speed Mixture Screw Gland Packing. | 010511 | ---- | 010511 | 010511 | 010511 | 010511 |
| 71 | * High Speed Mixture Screw Spring | 011103 | ---- | 011103 | 011103 | 011103 | 011103 |
| 72 | High Speed Mixture Screw Washer | 03114 | ---- | 03114 | 03114 | 03114 | 03114 |
| 73 | Lead Shot | ---- | ---- | 01449 | ---- | ---- | 01449 |
| 74 | Main Fuel Jet (.084). | ---- | 014302 | ---- | ---- | ---- | ---- |
| 74 | Main Fuel Jet (.089). | ---- | ---- | ---- | 014993 | 014993 | ---- |
| 74 | Main Fuel Jet (.096). | ---- | ---- | 014920 | ---- | ---- | ---- |
| 74 | Main Fuel Jet (.1015) | ---- | ---- | ---- | ---- | ---- | 015190 |
| 74A | Main Fuel Jet Gasket. | ---- | 013683 | 013683 | 013683 | 013683 | 013683 |
| 76 | Nozzle Check Valve. | 014578 | 014578 | ---- | 014578 | 014578 | ---- |
| 77 | Nozzle Check Valve Assembly | ---- | ---- | 016198 | ---- | ---- | 016198 |
| 81 | Throttle Cable Bracket. | ---- | ---- | 015336 | 014999 | 014999 | 014999 |
| 82 | Throttle Cable Bracket Lockwasher (2) | ---- | ---- | 099 | 0992 | 0992 | 0992 |
| 83 | Throttle Cable Bracket Ret. Screw (2) | ---- | ---- | 015154 | 015384 | 015384 | 015384 |
| 84 | Throttle Cable Clamp. | ---- | ---- | 014995 | 014995 | 014995 | 014995 |
| 85 | Throttle Cable Clamp Ret. Screw | ---- | ---- | 014998 | 014998 | 014998 | 014998 |
| 86 | Throttle Cable Clamp Ret. Nut | ---- | ---- | 014997 | 014997 | 014997 | 014997 |
| 87 | Throttle Shaft & Lever. | 014992 | 015375 | 015106 | 014992 | 014992 | 016460 |
| 88 | Throttle Shaft Clip | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher. | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | Throttle Shaft Clip Retaining Screw | 01974 | 01974 | 01974 | 01947 | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring. | 015988 | 015988 | 015988 | 014348 | 015988 | 015988 |
| 96 | Throttle Shutter. | 013745 | 013745 | 015984 | 013745 | 013745 | 015984 |
| 97 | * Throttle Shutter Screw (2). | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 103 | * Throttle Wire Retaining Screw | 055 | 055 | 055 | 055 | 055 | 055 |
| | * Gasket Set. | GS-1HD | GS-1HD | GS-1HD | GD-1HD | GS-1HD | GS-3HD |
| | Repair Parts Kit. | RK-4HD | RK-4HD | RK-4HD | RK-1HD | RK-4HD | RK-6HD |
| | Diaphragm & Gasket Set. | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD |

(*) Indicates contents of Repair Parts Kit



**Tillotson Carburetors**
**Marvel-Schebler/Tillotson Division,** Borg-Warner Corporation
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BORG WARNER Transportation Equipment

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-120A. | | Massey-Ferguson |
| HD-121A. | | Moto-Ski |
| HD-122A. | HD-122B | Moto-Ski |
| HD-122B. | | Moto-Ski |
| HD-123A. | | Bombardier |
| HD-124A. | | Bombardier |

| Ref. No. | Part Name | HD-120A | HD-121A | HD-122A | HD-122B | HD-123A | HD-124A |
|---|---|---|---|---|---|---|---|
| 7 | Body Channel Plug Screw | 014988 | ---- | ---- | ---- | ---- | ---- |
| 8 | Body Channel Plug Screw | ---- | ---- | ---- | ---- | 0244 | ---- |
| 9 | Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | Choke Friction Ball | 04784 | 04784 | 04784 | 04784 | 04784 | 04784 |
| 13 | Choke Friction Spring | 08805 | 08805 | 08805 | 08805 | 08805 | 08805 |
| 14 | Choke Lever | ---- | ---- | 015051(2) | 015051(2) | ---- | ---- |
| 15 | Choke Lever Retaining Screw | ---- | ---- | 0240(2) | 0240(2) | ---- | ---- |
| 18 | Choke Shaft | ---- | ---- | 016598 | 016598 | 016581 | ---- |
| 19 | Choke Shaft & Lever | 016522 | 014990 | ---- | ---- | ---- | 016036 |
| 22 | Choke Shutter | 016466 | 015010 | 015010 | 015010 | 015010 | 016466 |
| 23 | Choke Shutter Screw (2) | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 27 | * Choke Wire Retaining Screw. | 055 | ---- | 055(2) | 055(2) | ---- | 055 |
| 28 | Diaphragm Gasket. | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * Diaphragm | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | Diaphragm Cover | 015378 | 016376 | 016371 | 016371 | 014705 | 014705 |
| 34 | Elbow Connector | 015455 | 015455 | 015455 | 015455 | ---- | 016330 |
| 35 | Flange Gasket | 015953 | 014834 | 015194(2) | 015194(2) | 015194 | 016104(2) |
| 36 | Fuel Pump Gasket. | 014643 | 014643 | 014643 | 014643 | 014643 | 014643 |
| 37 | * Fuel Pump Diaphragm | 014644 | 014644 | 014644 | 014644 | 014644 | 014644 |
| 38 | Fuel Pump Body. | 014645 | 014645 | 014645 | 014645 | 014645 | 014645 |
| 39 | * Fuel Strainer Screen. | 011516 | 011516 | 011516 | 011516 | 011516 | 011516 |
| 40 | Fuel Strainer Cover Gasket. | 010529 | 010529 | 010529 | 010529 | 010529 | 014804 |
| 41 | Fuel Strainer Cover | 014937 | 014937 | 014937 | 014937 | 014937 | ---- |
| 42 | * Fuel Strainer Cover Retaining Screw | 010571 | 010571 | 010571 | 010571 | 010571 | ---- |
| 43 | Idle Mixture Screw. | 015864 | 014239 | 014239 | 014239 | 015864 | 015864 |
| 44 | * Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing. | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * Idle Speed Screw. | 05095 | 05095 | 05095 | 05095 | 05095 | 05095 |
| 49 | * Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | Idle Speed Screw Bracket. | 014349 | ---- | 014349 | 014349 | ---- | ---- |
| 53 | Idle Speed Brkt Ret. Screw & Lkwshr (2) | 014142 | ---- | 014142 | 014124 | ---- | ---- |
| 55 | * Inlet Control Lever | 014020 | 014020 | 014020 | 014020 | 013100 | 010513 |
| 56 | * Inlet Control Lever Fulcrum Pin | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket | 015596 | 015596 | 015596 | 015596 | 014683 | 014632 |
| 59 | Inlet Screen. | 015218 | 015218 | 015218 | 015218 | 015218 | 015218 |
| 60 | Inlet Screen Ret. Spring. | 015219 | 015219 | 015219 | 015219 | 015219 | 015219 |
| 61 | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring. | 011503 | 011503 | 011503 | 011503 | 011503 | 011503 |
| 63 | Inlet Valve Gasket. | 014646 | 014646 | 014646 | 014646 | 014646 | 014646 |
| 64 | * Inlet Valve Diaphragm | 014647 | 014647 | 014647 | 014647 | 014647 | 014647 |
| 65 | Inlet Valve Body & Strainer | 014648 | 014648 | 015188 | 015188 | 014648 | 015188 |
| 66 | Inlet Valve Body Screw & Lkwshr (6) | 014687 | 014687 | 014687 | 014687 | 014687 | 014687 |
| 67 | High Speed Mixture Screw. | 014247 | 014247 | 014247 | 014247 | 014247 | ---- |
| 68 | High Speed Mixture Screw Gland. | 013853 | ---- | 013853 | 013853 | ---- | ---- |
| 69 | High Speed Mixture Screw Gland Gasket | 0676 | ---- | 0676 | 0676 | ---- | ---- |
| 70 | High Speed Mixture Screw Gland Packing. | 010511 | 010511 | 010511 | 010511 | 010511 | ---- |
| 71 | * High Speed Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | ---- |
| 72 | High Speed Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | ---- |
| 73 | Lead Shot | 01410 | ---- | ---- | ---- | ---- | 01449 |
| 74 | Main Fuel Jet (.073). | ---- | ---- | ---- | ---- | ---- | 016676 |
| 74 | Main Fuel Jet (.076). | ---- | ---- | 016290 | 016290 | ---- | ---- |
| 74 | Main Fuel Jet (.096). | 014920 | ---- | ---- | ---- | ---- | ---- |
| 74A | Main Fuel Jet Gasket. | 013683 | ---- | 013683 | 013683 | ---- | 013683 |
| 75 | Main Fuel Jet Plug Screw. | ---- | ---- | ---- | ---- | ---- | 01102 |
| 76 | Nozzle Check Valve. | ---- | 014578 | 014578 | 016586 | 014578 | ---- |
| 77 | Nozzle Check Valve Assembly | 016524 | ---- | ---- | ---- | ---- | 016675 |
| 80 | Recirculator, Connector Elbow | ---- | ---- | ---- | ---- | 016330 | ---- |
| 81 | Throttle Cable Bracket. | ---- | 014999 | ---- | ---- | 016578 | 016332 |
| 82 | Throttle Cable Bracket Lkwshr (2) | ---- | 0992 | ---- | ---- | 0992 | 0992 |
| 83 | Throttle Cable Brkt. Ret. Screw (2) | ---- | 015384 | ---- | ---- | 015384 | 015384 |
| 84 | Throttle Cable Clamp. | ---- | 014995 | ---- | ---- | 014995 | 014995 |
| 85 | Throttle Cable Clamp Ret. Screw | ---- | 014998 | ---- | ---- | 016322 | 016322 |
| 86 | Throttle Cable Clamp Ret. Nut | ---- | 014997 | ---- | ---- | 014997 | 014997 |
| 87 | Throttle Shaft & Lever. | 016520 | 016546 | 016575 | 016575 | 016331 | 016614 |
| 88 | Throttle Shaft Clip | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher. | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | Throttle Shaft Clip Retaining Screw | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring. | 015988 | 015988 | 015988 | 015988 | 015988 | 015988 |
| 96 | Throttle Shutter. | 015984 | 013745 | 013745 | 013745 | 013745 | 015984 |
| 97 | * Throttle Shutter Screw (2). | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 103 | * Throttle Wire Retaining Screw | 055 | 055 | 055 | 055 | 055 | 055 |
| | * Gasket Set. | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-3HD |
| | Repair Parts Kit. | RK-4HD | RK-4HD | RK-4HD | RK-4HD | RK-7HD | RK-6HD |
| | Diaphragm & Gasket Set. | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD |

(*) Indicates contents of Repair Parts Kit



**Tillotson Carburetors**

**Marvel-Schebler/Tillotson Division,** Borg-Warner Corporation
761 Berdan Avenue, Box 6598, Toledo, Ohio 43612

BORG WARNER Transportation Equipment

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-126A. | | Moto-Ski |
| HD-127A. | | Mercury Marine |
| HD-128A. | | Bombardier |
| HD-129A. | HD-129B | Outboard Marine |
| HD-129B. | HD-129C | Outboard Marine |
| HD-129C. | | Outboard Marine |

| Ref. No. | Part Name | HD-126A | HD-127A | HD-128A | HD-129A | HD-129B | HD-129C |
|---|---|---|---|---|---|---|---|
| 1 | * Accelerator Pump Assembly | ---- | ---- | ---- | ---- | 017112 | 017112 |
| 2 | Accelerator Pump Lever | ---- | ---- | ---- | ---- | 012761 | 012761 |
| 3 | * Accelerator Pump Lever Screw | ---- | ---- | ---- | ---- | 06393 | 06393 |
| 4 | * Accelerator Pump Lever Lockwasher | ---- | ---- | ---- | ---- | 06396 | 06396 |
| 7 | Body Channel Plug Screw | ---- | 014988 | ---- | ---- | ---- | ---- |
| 9 | * Body Channel Welch Plug (2) | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | Choke Friction Ball | 04784 | 04784 | 04784 | 04784 | 04784 | 04784 |
| 13 | Choke Friction Spring | 08805 | 08805 | 08805 | 08805 | 08805 | 08805 |
| 14 | Choke Lever | ---- | 015051 | ---- | ---- | ---- | ---- |
| 15 | Choke Lever Ret. Screw | ---- | 0240 | ---- | ---- | ---- | ---- |
| 16 | Choke Relief Valve | ---- | ---- | ---- | ---- | 013742 | 013742 |
| 17 | * Choke Relief Valve Spring | ---- | ---- | ---- | ---- | 013775 | 013775 |
| 18 | Choke Shaft | ---- | 016660 | ---- | ---- | ---- | ---- |
| 19 | Choke Shaft & Lever | 014990 | ---- | 016036 | 016954 | 016954 | 016954 |
| 22 | Choke Shutter | 015010 | 015010 | 015010 | 013741 | 013741 | 013741 |
| 23 | Choke Shutter Screw (2) | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 27 | * Choke Wire Ret. Screw | ---- | 055 | 055 | 016956 | 016956 | 016956 |
| 28 | Diaphragm Gasket | 014120 | 014120 | 014120 | 014120 | 017110 | 017110 |
| 29 | * Diaphragm | 014248 | 014248 | 014248 | 014248 | 017109 | 017109 |
| 30 | Diaphragm Cover | 016376 | 016685 | 015941 | 014117 | 017118 | 017118 |
| 32 | Diaphragm Cover Ret. Screw (6) | ---- | ---- | ---- | ---- | 010278 | 010278 |
| 34 | Elbow Connector | 015455 | 016681 | 016330 | ---- | 017154 | 017154 |
| 35 | Flange Gasket | 014834 | 014834 | 015194 | 014834 | 014834 | 014834 |
| 36 | Fuel Pump Gasket | 014643 | 014643 | 014643 | ---- | ---- | ---- |
| 37 | * Fuel Pump Diaphragm | 014644 | 014644 | 014644 | ---- | ---- | ---- |
| 38 | Fuel Pump Body | 014645 | 014645 | 014645 | ---- | ---- | ---- |
| 39 | * Fuel Strainer Screen | 011516 | 011516 | 011516 | ---- | ---- | ---- |
| 40 | Fuel Strainer Cover Gasket | 010529 | 010529 | 014804 | ---- | ---- | ---- |
| 41 | Fuel Strainer Cover | 014937 | 014937 | ---- | ---- | ---- | ---- |
| 42 | * Fuel Strainer Cover Ret. Screw | 010571 | 010571 | ---- | ---- | ---- | ---- |
| 43 | Idle Mixture Screw | 014239 | 014239 | 015874 | 013772 | 014239 | 014239 |
| 44 | * Idle Mixture Screw Spring | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * Idle Speed Screw | 05095 | 05095 | 05095 | 05095 | 05095 | 05095 |
| 49 | * Idle Speed Screw Spring | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | Idle Speed Screw Bracket | ---- | 014349 | ---- | 016831 | 016831 | 016831 |
| 53 | Idle Speed Brkt Ret. Screw & Lkwshr (2) | ---- | 014142 | ---- | 015384 | 015384 | 015384 |
| 55 | * Inlet Control Lever | 014020 | 014020 | 010513 | 010513 | 010513 | 010513 |
| 56 | * Inlet Control Lever Fulcrum Pin | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket | 015596 | 015596 | 014632 | 014632 | 014632 | 014632 |
| 59 | * Inlet Screen | 015218 | 015218 | 015218 | 010301 | 010301 | 010301(2) |
| 60 | Inlet Screen Ret. Spring | 015219 | 015219 | 015219 | ---- | ---- | ---- |
| 61 | Inlet Seat Gasket | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring | 011503 | 011503 | 011503 | 013434 | 013434 | 013434 |
| 63 | Inlet Valve Gasket | 014646 | 014646 | 014646 | ---- | ---- | ---- |
| 64 | * Inlet Valve Diaphragm | 014647 | 014647 | 014647 | ---- | ---- | ---- |
| 65 | Inlet Valve Body & Strainer | 014648 | 014648 | 015188 | ---- | ---- | ---- |
| 66 | Inlet Valve Body Screw & Lkwshr (6) | 014687 | 014687 | 014687 | ---- | ---- | ---- |
| 67 | High Speed Mixture Screw | 014247 | ---- | ---- | 014247 | 014247 | 014247 |
| 68 | High Speed Mixture Screw Gland | 013853 | ---- | ---- | ---- | ---- | ---- |
| 69 | High Speed Mixture Screw Gland Gasket | 0676 | ---- | ---- | ---- | ---- | ---- |
| 70 | High Speed Mixture Screw Gland Packing | 010511 | ---- | ---- | 010511 | 010511 | 010511 |
| 71 | * High Speed Mixture Screw Spring | 011103 | ---- | ---- | 011103 | 011103 | 011103 |
| 72 | High Speed Mixture Screw Washer | 03114 | ---- | ---- | 03114 | 03114 | 03114 |
| 74 | Main Fuel Jet (.089) | 014993 | ---- | ---- | ---- | ---- | ---- |
| 74 | Main Fuel Jet (.056) | ---- | 015338 | ---- | ---- | ---- | ---- |
| 74 | Main Fuel Jet (.054) | ---- | ---- | 016682 | ---- | ---- | ---- |
| 74A | Main Fuel Jet Gasket | 013683 | 013683 | 013683 | ---- | ---- | ---- |
| 75 | Main Fuel Jet Plug Screw | ---- | 01102 | 01102 | ---- | ---- | ---- |
| 76 | Nozzle Check Valve | 014578 | 014578 | 014578 | 014578 | 014578 | 014578 |
| 81 | Throttle Cable Bracket | 014999 | ---- | 016683 | ---- | ---- | ---- |
| 82 | Throttle Cable Bracket Lkwshr (2) | 0992 | ---- | 0992 | ---- | ---- | ---- |
| 83 | Throttle Cable Bracket Ret. Screw (2) | 015384 | ---- | 015384 | ---- | ---- | ---- |
| 84 | Throttle Cable Clamp | 014995 | ---- | 014995 | ---- | ---- | ---- |
| 85 | Throttle Cable Clamp Ret. Screw | 014998 | ---- | 016322 | ---- | ---- | ---- |
| 86 | Throttle Cable Clamp Ret. Nut | 014997 | ---- | 014997 | ---- | ---- | ---- |
| 87 | Throttle Shaft & Lever | 016546 | 015375 | 016160 | 016952 | 017114 | 017114 |
| 88 | Throttle Shaft Clip | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | Throttle Shaft Clip Ret. Screw | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring | 015988 | 015988 | 015988 | 016955 | 016955 | 016955 |
| 96 | Throttle Shutter | 013745 | 013745 | 013745 | 013745 | 013745 | 013745 |
| 97 | * Throttle Shutter Screw (2) | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 103 | * Throttle Wire Retaining Screw | 055 | 055 | 055 | ---- | ---- | ---- |
| | * Gasket Set | GS-1HD | GS-1HD | GS-1HD | GS-1HD | GS-4HD | GS-4HD |
| | Repair Parts Kit | RK-4HD | RK-4HD | RK-7HD | RK-9HD | RK-11HD | RK-11HD |
| | Diaphragm & Gasket Set | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-2HD | DG-2HD |

(*) Indicates contents of Repair Parts Kit



**Tillotson Carburetors**
**Marvel-Schebler/Tillotson Division,** Borg-Warner Corporation
761 Berdan Avenue, Box 6598, Toledo, Ohio 43612

BORG WARNER Transportation Equipment

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-130A. | HD-130B | Outboard Marine |
| HD-130B. | HD-130C | Outboard Marine |
| HD-130C. | | Outboard Marine |
| HD-131A. | | Bombardier |
| HD-132A. | | Sno-Jet |
| HD-133A. | | Bombardier |
| HD-134A. | | Bombardier |

| Ref. No. | Part Name | HD-130A | HD-130B HD-130C | HD-131A | HD-132A | HD-133A | HD-134A |
|---|---|---|---|---|---|---|---|
| 1 | * Accelerator Pump Assembly. | ---- | 017112 | ---- | ---- | ---- | ---- |
| 2 | Accelerator Pump Lever | ---- | 012761 | ---- | ---- | ---- | ---- |
| 3 | * Accelerator Pump Lever Screw | ---- | 06393 | ---- | ---- | ---- | ---- |
| 4 | * Accelerator Pump Lever Lockwasher. | ---- | 06396 | ---- | ---- | ---- | ---- |
| 7 | Body Channel Plug Screw. | ---- | ---- | ---- | 014988 | ---- | ---- |
| 8 | Body Channel Plug Screw. | ---- | ---- | 0244 | ---- | ---- | ---- |
| 9 | * Body Channel Welch Plug (2). | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | Choke Friction Ball. | 04784 | 04784 | ---- | 04784 | 04784 | 04784 |
| 13 | Choke Friction Spring. | 08805 | 08805 | ---- | 08805 | 08805 | 08805 |
| 16 | Choke Relief Valve | ---- | 013742 | ---- | ---- | ---- | ---- |
| 17 | * Choke Relief Valve Spring. | ---- | 013775 | ---- | ---- | ---- | ---- |
| 18 | Choke Shaft. | ---- | ---- | ---- | 016355 | ---- | ---- |
| 19 | Choke Shaft & Lever. | 016954 | 016954 | ---- | ---- | 016036 | 016869 |
| 22 | Choke Shutter. | 013741 | 013741 | ---- | 015010 | 016466 | 015010 |
| 23 | Choke Shutter Screw (2). | 015912 | 015912 | ---- | 015912 | 015912 | 015912 |
| 27 | * Choke Wire Ret. Screw. | 016956 | 016956 | ---- | ---- | 055 | 055 |
| 28 | Diaphragm Gasket | 014120 | 017110 | 014120 | 014120 | 014120 | 014120 |
| 29 | * Diaphragm. | 014248 | 017109 | 014248 | 014248 | 014248 | 014248 |
| 30 | Diaphragm Cover. | 014117 | 017118 | 016292 | 015941 | 014705 | 014705 |
| 32 | Diaphragm Cover Ret. Screw (6) | ---- | 010278 | ---- | ---- | ---- | ---- |
| 34 | Elbow Connector. | ---- | 017154 | ---- | 016330 | 016330 | 016330 |
| 35 | Flange Gasket. | 014834 | 014834 | 016104 | 014834 | 016104 | 015194 |
| 36 | Fuel Pump Gasket | ---- | ---- | 014643 | 014643 | 014643 | 014643 |
| 37 | * Fuel Pump Diaphragm. | ---- | ---- | 014644 | 014644 | 014644 | 014644 |
| 38 | Fuel Pump Body | ---- | ---- | 014645 | 014645 | 014645 | 014645 |
| 39 | * Fuel Strainer Screen | ---- | ---- | 011516 | 011516 | 011516 | 011516 |
| 40 | Fuel Strainer Cover Gasket | ---- | ---- | 010529 | 010529 | 014804 | 014804 |
| 41 | Fuel Strainer Cover. | ---- | ---- | 014937 | 014937 | ---- | ---- |
| 42 | * Fuel Strainer Cover Ret. Screw | ---- | ---- | 010571 | 010571 | ---- | ---- |
| 43 | Idle Mixture Screw | 013772 | 013772 | 015864 | 014239 | 015864 | 015864 |
| 44 | * Idle Mixture Screw Spring. | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer. | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * Idle Speed Screw | 05095 | 05095 | 05095 | 05095 | 05095 | 05095 |
| 49 | * Idle Speed Screw Spring. | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 50 | Idle Speed Screw Bracket | 016831 | 016831 | ---- | ---- | ---- | ---- |
| 53 | Idle Speed Brkt. Ret. Screw & Lkwshr (2) | 015384 | 015384 | ---- | ---- | ---- | ---- |
| 55 | * Inlet Control Lever. | 010513 | 010513 | 013100 | 014020 | 010513 | 014020 |
| 56 | * Inlet Control Lever Fulcrum Pin. | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw. | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket. | 014632 | 014632 | 014632 | 015596 | 014632 | 015596 |
| 59 | * Inlet Screen | 010301 | 010301 | 010301 | 015218 | 015218 | 015218 |
| 60 | Inlet Screen Ret. Spring | ---- | ---- | ---- | 015219 | 015219 | 015219 |
| 61 | Inlet Seat Gasket. | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring | 013434 | 013434 | 011503 | 011503 | 011503 | 011503 |
| 63 | Inlet Valve Gasket | ---- | ---- | 014646 | 014646 | 014646 | 014646 |
| 64 | * Inlet Valve Diaphragm. | ---- | ---- | 014647 | 014647 | 014647 | 014647 |
| 65 | Inlet Valve Body & Strainer. | ---- | ---- | 015188 | 014643 | 015188 | 015188 |
| 66 | Inlet Valve Body Screw & Lkwshr (6). | ---- | ---- | 014687 | 014687 | 014687 | 014687 |
| 67 | High Speed Mixture Screw | 014247 | 014247 | 014247 | 014247 | ---- | 014247 |
| 68 | High Speed Mixture Screw Gland | ---- | ---- | 013853 | 013853 | ---- | 013853 |
| 69 | High Speed Mixture Screw Gland Gasket. | ---- | ---- | 0676 | 0676 | ---- | 0676 |
| 70 | High Speed Mixture Screw Gland Packing | 010511 | 010511 | 010511 | 010511 | ---- | 010511 |
| 71 | * High Speed Mixture Screw Spring. | 011103 | 011103 | 011103 | 011103 | ---- | 011103 |
| 72 | High Speed Mixture Screw Washer. | 03114 | 03114 | 03114 | 03114 | ---- | 03114 |
| 73 | Lead Shot. | ---- | ---- | 01449 | ---- | 01449 | ---- |
| 74 | Main Fuel Jet (.096) | ---- | ---- | 014920 | ---- | ---- | 014920 |
| 74 | Main Fuel Jet (.089) | ---- | ---- | ---- | 014993 | ---- | ---- |
| 74 | Main Fuel Jet (.067) | ---- | ---- | ---- | ---- | 016837 | ---- |
| 74A | Main Fuel Jet Gasket | ---- | --- | 013683 | 013683 | 013683 | 013683 |
| 75 | Main Fuel Jet Plug Screw | ---- | ---- | ---- | ---- | 01102 | ---- |
| 76 | Nozzle Check Valve | 014578 | 014578 | ---- | 014578 | ---- | 014578 |
| 77 | Nozzle Check Valve Assembly. | ---- | ---- | 016720 | ---- | 016843 | ---- |
| 81 | Throttle Cable Bracket | ---- | ---- | 016578 | 014999 | 016332 | 016332 |
| 82 | Throttle Cable Bracket Lockwasher (2). | ---- | ---- | 0992 | 0992 | 0992 | 0992 |
| 83 | Throttle Cable Bracket Ret. Screw (2). | ---- | ---- | 015384 | 015384 | 015384 | 015384 |
| 84 | Throttle Cable Clamp | ---- | ---- | 014995 | 014995 | 014995 | 014995 |
| 85 | Throttle Cable Clamp Ret. Screw. | ---- | ---- | 016322 | 014998 | 016322 | 016322 |
| 86 | Throttle Cable Clamp Ret. Nut. | ---- | ---- | 014997 | 014997 | 014997 | 014997 |
| 87 | Throttle Shaft & Lever | 016952 | 017114 | 016233 | 016160 | 016614 | 016331 |
| 88 | Throttle Shaft Clip. | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | Throttle Shaft Clip Ret. Screw | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring | 016955 | 016955 | 015988 | 015988 | 015988 | 015988 |
| 96 | Throttle Shutter | 013745 | 013745 | 015984 | 013745 | 015984 | 013745 |
| 97 | * Throttle Shutter Screw (2) | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 103 | * Throttle Wire Retaining Screw. | ---- | ---- | 055 | 055 | 055 | 055 |
| | * Gasket Set | GS-1HD | GS-4HD | GS-3HD | GS-1HD | GS-3HD | GS-1HD |
| | Repair Parts Kit | RK-9HD | RK-11HD | RK-5HD | RK-4HD | RK-6HD | RK-4HD |
| | Diaphragm & Gasket Set | DG-1HD | DG-2HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD |

(*) Indicates contents of Repair Parts Kit



**Tillotson Carburetors**

**Marvel-Schebler/Tillotson Division,** Borg-Warner Corporation
761 Berdan Avenue, Box 6598, Toledo, Ohio 43612

BORG WARNER Transportation Equipment

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-135A. | | Alouette Recreational |
| HD-136A. | | Massey-Ferguson |
| HD-137A. | HD-137B | Andrews Products |
| HD-137B. | | Andrews Products |
| HD-138A. | | Bombardier |
| HD-139A. | | Harley-Davidson |

| Ref. No. | Part Name | HD-135A | HD-136A | HD-137A | HD-137B | HD-138A | HD-139A |
|---|---|---|---|---|---|---|---|
| 1 | * Accelerator Pump Assembly. | ---- | ---- | 013785 | 013785 | ---- | ---- |
| 2 | Accelerator Pump Lever | ---- | ---- | 012761 | 012761 | ---- | ---- |
| 3 | * Accelerator Pump Lever Screw | ---- | ---- | 06393 | 06393 | ---- | ---- |
| 4 | * Accelerator Pump Lever Lockwasher. | ---- | ---- | 06396 | 06396 | ---- | ---- |
| 5 | * Body Channel Cup Plug (2). | ---- | ---- | 010588 | 010588 | ---- | ---- |
| 7 | Body Channel Plug Screw. | ---- | ---- | ---- | ---- | ---- | 014988 |
| 8 | Body Channel Plug Screw. | ---- | 0244 | ---- | ---- | ---- | ---- |
| 9 | * Body Channel Welch Plug (2). | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 11 | * Body Channel Welch Plug (Choke). | ---- | ---- | 03489 | 03489 | ---- | ---- |
| 12 | Choke Friction Ball. | 04784 | 04784 | 04784 | 04784 | 04784 | 04784 |
| 13 | Choke Friction Spring. | 08805 | 08805 | 08805 | 08805 | 08805 | 08805 |
| 14 | Choke Lever. | 015051 | 015051 | ---- | ---- | ---- | ---- |
| 15 | Choke Lever Ret. Screw | 0240 | 0240 | ---- | ---- | ---- | ---- |
| 16 | Choke Relief Valve | ---- | ---- | 016897 | 016897 | ---- | ---- |
| 17 | * Choke Relief Valve Spring. | ---- | ---- | 013775 | 013775 | ---- | ---- |
| 18 | Choke Shaft. | 015052 | 016412 | ---- | ---- | ---- | 015052 |
| 19 | Choke Shaft & Lever. | ---- | ---- | 014296 | 014296 | 016869 | ---- |
| 21 | Choke Shaft Seal | ---- | ---- | 09484 | 09484 | ---- | ---- |
| 22 | Choke Shutter. | 015010 | 016466 | 013741 | 013741 | 016466 | 015010 |
| 23 | Choke Shutter Screw (2). | 015912 | 015912 | 08942 | 08942 | 015912 | 015912 |
| 24 | Choke Wire Connection. | ---- | ---- | 014294 | 014294 | ---- | ---- |
| 25 | Choke Wire Ret. Clip | ---- | ---- | 010392 | 010392 | ---- | ---- |
| 26 | Choke Wire Connection Washer | ---- | ---- | 012174 | 012174 | ---- | ---- |
| 27 | * Choke Wire Ret. Screw. | 055 | 055 | 012305 | 012305 | 055 | ---- |
| 28 | Diaphragm Gasket | 014120 | 014120 | 013731 | 013731 | 014120 | 014120 |
| 29 | * Diaphragm. | 014248 | 014248 | 013709 | 013790 | 014248 | 014248 |
| 30 | Diaphragm Cover. | 015941 | 016865 | 014871 | 014871 | 014705 | 015941 |
| 31 | Diaphragm Cover Plug Screw | ---- | ---- | 013771 | 013771 | ---- | ---- |
| 32 | Diaphragm Cover Ret. Screw (6) | ---- | ---- | 010278 | 010278 | ---- | ---- |
| 34 | Elbow Connector. | 015455 | ---- | ---- | ---- | 016330 | 015455 |
| 35 | Flange Gasket. | 014834 | 014834 | ---- | ---- | 016104 | ---- |
| 36 | Fuel Pump Gasket | 014643 | 014643 | ---- | ---- | 014643 | 014643 |
| 37 | * Fuel Pump Diaphragm. | 014644 | 014644 | ---- | ---- | 014644 | 014644 |
| 38 | Fuel Pump Body | 014645 | 014645 | ---- | ---- | 014645 | 014645 |
| 39 | * Fuel Strainer Screen | 011516 | 011516 | ---- | ---- | 011516 | 011516 |
| 40 | Fuel Strainer Cover Gasket | 010529 | 010529 | ---- | ---- | 014804 | 010529 |
| 41 | Fuel Strainer Cover. | 014937 | 014937 | ---- | ---- | ---- | 014937 |
| 42 | * Fuel Strainer Cover Ret. Screw | 010571 | 010571 | ---- | ---- | ---- | 010571 |
| 43 | Idle Mixture Screw | 014239 | 014239 | 016894 | 016894 | 015864 | 014239 |
| 44 | * Idle Mixture Screw Spring. | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer. | 03114 | 03114 | ---- | ---- | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing | 010511 | 010511 | ---- | ---- | 010511 | 010511 |
| 47 | * Idle Speed Screw | 05095 | 05095 | 012177 | 012177 | 05095 | 05095 |
| 48 | Idle Speed Screw Cup | ---- | ---- | 010050 | 010050 | ---- | ---- |
| 49 | * Idle Speed Screw Spring. | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 54 | Idle Speed Screw Washer. | ---- | ---- | 04920 | 04920 | ---- | ---- |
| 55 | * Inlet Control Lever. | 014020 | 014020 | 014020 | 014020 | 010513 | 014020 |
| 56 | * Inlet Control Lever Fulcrum Pin. | 013406 | 013406 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw. | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket. | 015596 | 015596 | 014853 | 014853 | 014632 | 015596 |
| 59 | * Inlet Screen | 015218 | 015218 | 010301(2) | 010301(2) | 015218 | 015218 |
| 60 | Inlet Screen Ret. Spring | 015219 | 015219 | ---- | ---- | 015219 | 015219 |
| 61 | Inlet Seat Gasket. | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring | 011503 | 011503 | 013434 | 013434 | 011503 | 011503 |
| 63 | Inlet Valve Gasket | 014646 | 014646 | ---- | ---- | 014646 | 014646 |
| 64 | * Inlet Valve Diaphragm. | 014647 | 014647 | ---- | ---- | 014647 | 014647 |
| 65 | Inlet Valve Body & Strainer. | 014648 | 014648 | ---- | ---- | 015188 | 014648 |
| 66 | Inlet Valve Body Screw & Lkwshr (6). | 014687 | 014687 | ---- | ---- | 014687 | 014687 |
| 67 | High Speed Mixture Screw | 014247 | 016911 | 013772 | 013772 | 014247 | 014247 |
| 68 | High Speed Mixture Screw Gland | 013853 | ---- | ---- | ---- | 013853 | 013853 |
| 69 | High Speed Mixture Screw Gland Gasket. | 0676 | ---- | ---- | ---- | 0676 | 0676 |
| 70 | High Speed Mixture Screw Gland Packing | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 71 | * High Speed Mixture Screw Spring. | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 72 | High Speed Mixture Screw Washer. | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 73 | Lead Shot. | ---- | ---- | 01449 | 01449 | 01449 | ---- |
| 74 | Main Fuel Jet (.060) | ---- | ---- | 016618 | 016618 | ---- | ---- |
| 74 | Main Fuel Jet (.0635). | ---- | ---- | ---- | ---- | ---- | 016995 |
| 74 | Main Fuel Jet (.081) | ---- | ---- | ---- | ---- | 015192 | ---- |
| 74 | Main Fuel Jet (.1015). | 015190 | ---- | ---- | ---- | ---- | ---- |
| 74A | Main Fuel Jet Gasket | 013683 | ---- | 013683 | 013683 | 013683 | 013683 |
| 75 | Main Fuel Jet Plug Screw | ---- | ---- | 01102 | 01102 | ---- | ---- |
| 76 | Nozzle Check Valve | ---- | 016909 | ---- | ---- | ---- | 014578 |
| 77 | Nozzle Check Valve Assembly. | ---- | ---- | 016896 | 016896 | 016949 | ---- |
| 78 | Pump Outlet Check Ball | ---- | ---- | 05322 | 05322 | ---- | ---- |
| 79 | Pump Outlet Check Ball Retainer. | ---- | ---- | 013737 | 013737 | ---- | ---- |

(*) Indicates contents of Repair Parts Kit



**Tillotson Carburetors**
**Marvel-Schebler/Tillotson Division,** Borg-Warner Corporation
761 Berdan Avenue, Box 6598, Toledo, Ohio 43612

BORG WARNER Transportation Equipment

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-135A. | | Alouette Recreational |
| HD-136A. | | Massey-Ferguson |
| HD-137A. | HD-137B | Andrews Products |
| HD-137B. | | Andrews Products |
| HD-138A. | | Bombardier |
| HD-139A. | | Harley-Davidson |

| Ref. No. | Part Name | HD-135A | HD-136A | HD-137A | HD-137B | HD-138A | HD-139A |
|---|---|---|---|---|---|---|---|
| 81 | Throttle Cable Bracket. | 014999 | 016917 | ---- | ---- | 016578 | 015960 |
| 82 | Throttle Cable Bracket Lkwshr (2) | 0992 | 0992 | ---- | ---- | 0992 | 0992 |
| 83 | Throttle Cable Bracket Ret. Screw (2) | 015384 | 015384 | ---- | ---- | 015384 | 015384 |
| 84 | Throttle Cable Clamp. | 014995 | 014995 | ---- | ---- | 014995 | 014995 |
| 85 | Throttle Cable Clamp Ret. Screw | 014998 | 016322 | ---- | ---- | 016322 | 014998 |
| 86 | Throttle Cable Clamp Ret. Nut | 014997 | 014997 | ---- | ---- | 014997 | 014997 |
| 87 | Throttle Shaft & Lever. | 014992 | 016916 | 016892 | 016892 | 016614 | 015959 |
| 88 | Throttle Shaft Clip | 014118 | 014118 | ---- | ---- | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher. | 0992 | 0992 | ---- | ---- | 0992 | 0992 |
| 90 | Throttle Shaft Clip Ret. Screw. | 01974 | 01974 | ---- | ---- | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring. | 015988 | 016913 | ---- | ---- | 015988 | 014348 |
| 91A | * Throttle Shaft Compression Spring | ---- | ---- | 013738 | 013738 | ---- | ---- |
| 92 | Throttle Shaft Seal (2) | ---- | ---- | 013740 | 013740 | ---- | ---- |
| 94 | * Throttle Shaft Seal Washer (2). | ---- | ---- | 013746 | 013746 | ---- | ---- |
| 96 | Throttle Shutter. | 013745 | 013745 | 015984 | 015984 | 015984 | 013745 |
| 97 | * Throttle Shutter Screw (2). | 015912 | 015912 | 015912 | 015912 | 015912 | 015912 |
| 103 | * Throttle Wire Retaining Screw | 055 | 055 | 058 | 058 | 055 | 055 |
| | * Gasket Set. | GS-1HD | GS-1HD | GS-2HD | GS-2HD | GS-3HD | GS-1HD |
| | Repair Parts Kit. | RK-4HD | RK-7HD | RK-3HD | RK-3HD | RK-6HD | RK-1HD |
| | Diaphragm & Gasket Set. | DG-1HD | DG-1HD | DG-3HD | DG-3HD | DG-1HD | DG-1HD |

(*) Indicates contents of Repair Parts Kit



**Tillotson Carburetors**
**Marvel-Schebler/Tillotson Division,** Borg-Warner Corporation
761 Berdan Avenue, Box 6598, Toledo, Ohio 43612

BORG WARNER Transportation Equipment

| Carburetor Model | Superseding Model | Equipment |
|---|---|---|
| HD-140A. . . . . | | Bombardier |
| HD-141A. . . . . | | Harley Davidson |
| HD-142A. . . . . | | Bombardier |
| HD-143A. . . . . | | Air Cushion Vehicles |
| HD-144A. . . . . | | Moto-Ski |
| HD-145A. . . . . | | Bombardier |

| Ref. No. | Part Name | HD-140A | HD-141A | HD-142A | HD-143A | HD-144A | HD-145A |
|---|---|---|---|---|---|---|---|
| 77 | Auxiliary Nozzle. . . . . | ---- | ---- | ---- | ---- | 016947 | ---- |
| 7 | Body Channel Plug Screw . . . . . | ---- | 014988 | ---- | ---- | ---- | ---- |
| 8 | Body Channel Plug Screw . . . . . | ---- | ---- | ---- | 0244 | ---- | ---- |
| 9 | * Body Channel Welch Plug (2) . . . . . | 04326 | 04326 | 04326 | 04326 | 04326 | 04326 |
| 12 | Choke Friction Ball . . . . . | 04784 | 04784 | 04784 | ---- | 04784 | 04784 |
| 13 | Choke Friction Spring . . . . . | 08805 | 08805 | 08805 | ---- | 08805 | 08805 |
| 18 | Choke Shaft . . . . . | ---- | 015052 | ---- | ---- | ---- | ---- |
| 19 | Choke Shaft & Lever . . . . . | 016036 | ---- | 016036 | ---- | 016869 | 016869 |
| 22 | Choke Shutter . . . . . | 015010 | 015010 | 015010 | ---- | 016466 | 015010 |
| 23 | Choke Shutter Screw (2) . . . . . | 015912 | 015912 | 015912 | ---- | 015912 | 015912 |
| 27 | * Choke Wire Retaining Screw. . . . . | 055 | ---- | 055 | ---- | 055 | 055 |
| 28 | Diaphragm Gasket. . . . . | 014120 | 014120 | 014120 | 014120 | 014120 | 014120 |
| 29 | * Diaphragm . . . . . | 014248 | 014248 | 014248 | 014248 | 014248 | 014248 |
| 30 | Diaphragm Cover . . . . . | 015941 | 015941 | 015941 | 015941 | 014705 | 014705 |
| 34 | Elbow Connector . . . . . | 016330 | 015455 | 016330 | ---- | 016330 | 016330 |
| 35 | Flange Gasket . . . . . | 015194(2) | ---- | 015194(2) | 016104 | 016104(3) | 015194(2) |
| 36 | Fuel Pump Gasket. . . . . | 014643 | 014643 | 014643 | 014643 | 014643 | 014643 |
| 37 | * Fuel Pump Diaphragm . . . . . | 014644 | 014644 | 014644 | 014644 | 014644 | 014644 |
| 38 | Fuel Pump Body. . . . . | 014645 | 014645 | 014645 | 014645 | 014645 | 014645 |
| 39 | * Fuel Strainer Screen. . . . . | 011516 | 011516 | 011516 | 011516 | 011516 | 011516 |
| 40 | Fuel Strainer Cover Gasket. . . . . | 014804 | 010529 | 014804 | 010529 | 014804 | 014804 |
| 41 | Fuel Strainer Cover . . . . . | ---- | 014937 | ---- | 014937 | ---- | ---- |
| 42 | * Fuel Strainer Cover Retaining Screw . . | ---- | 010571 | ---- | 010571 | ---- | ---- |
| 43 | Idle Mixture Screw. . . . . | 015864 | 014239 | 015864 | 015864 | 015864 | 015864 |
| 44 | * Idle Mixture Screw Spring . . . . . | 011103 | 011103 | 011103 | 011103 | 011103 | 011103 |
| 45 | Idle Mixture Screw Washer . . . . . | 03114 | 03114 | 03114 | 03114 | 03114 | 03114 |
| 46 | Idle Mixture Screw Packing. . . . . | 010511 | 010511 | 010511 | 010511 | 010511 | 010511 |
| 47 | * Idle Speed Screw. . . . . | 05095 | 05095 | 05095 | 05095 | 05095 | 05095 |
| 49 | * Idle Speed Screw Spring . . . . . | 0788 | 0788 | 0788 | 0788 | 0788 | 0788 |
| 55 | * Inlet Control Lever . . . . . | 010513 | 014020 | 010513 | 014020 | 010513 | 014020 |
| 56 | * Inlet Control Lever Fulcrum Pin . . . . | 013406 | 013405 | 013406 | 013406 | 013406 | 013406 |
| 57 | * Inlet Control Lever Fulcrum Pin Screw . . | 013269 | 013269 | 013269 | 013269 | 013269 | 013269 |
| 58 | Inlet Needle, Seat & Gasket . . . . . | 014632 | 015596 | 014632 | 015596 | 014632 | 015596 |
| 59 | Inlet Screen. . . . . | 015218 | 015218 | 015218 | 015218 | 015218 | 015218 |
| 60 | Inlet Screen Ret. Spring. . . . . | 015219 | 015219 | 015219 | 015219 | 015219 | 015219 |
| 61 | Inlet Seat Gasket . . . . . | 013744 | 013744 | 013744 | 013744 | 013744 | 013744 |
| 62 | * Inlet Tension Spring. . . . . | 011503 | 011503 | 011503 | 011503 | 011503 | 011503 |
| 63 | Inlet Valve Gasket. . . . . | 014646 | 014646 | 014646 | 014646 | 014646 | 014646 |
| 64 | * Inlet Valve Diaphragm . . . . . | 014647 | 014647 | 014647 | 014647 | 014647 | 014647 |
| 65 | Inlet Valve Body & Strainer . . . . . | 015188 | 014648 | 015188 | 015188 | 015188 | 015188 |
| 66 | Inlet Valve Body Screw & Lkwshr (6) . . . | 014687 | 014687 | 014687 | 014687 | 014687 | 014687 |
| 67 | High Speed Mixture Screw. . . . . | ---- | 014247 | ---- | 014247 | 014247 | 014247 |
| 68 | High Speed Mixture Screw Gland. . . . . | ---- | 013853 | ---- | ---- | 013853 | 013853 |
| 69 | High Speed Mixture Screw Gland Gasket . . | ---- | 0676 | ---- | ---- | 0676 | 0676 |
| 70 | High Speed Mixture Screw Gland Packing. . | ---- | 010511 | ---- | 010511 | 010511 | 010511 |
| 71 | * High Speed Mixture Screw Spring . . . . | ---- | 011103 | ---- | 011103 | 011103 | 011103 |
| 72 | High Speed Mixture Screw Washer . . . . | ---- | 03114(2) | ---- | 03114 | 03114 | 03114 |
| 73 | Lead Shot . . . . . | ---- | ---- | ---- | 01449 | 01449 | ---- |
| 74 | Main Fuel Jet (.058). . . . . | 015430 | ---- | 015430 | ---- | ---- | ---- |
| 74 | Main Fuel Jet (.0635) . . . . . | ---- | 016995 | ---- | ---- | ---- | ---- |
| 74 | Main Fuel Jet (.081). . . . . | ---- | ---- | ---- | ---- | 015192 | ---- |
| 74 | Main Fuel Jet (.096). . . . . | ---- | ---- | ---- | ---- | ---- | 014920 |
| 74A | Main Fuel Jet Gasket. . . . . | 013683 | 013683 | 013683 | ---- | 013683 | 013683 |
| 75 | Main Fuel Jet Plug Screw. . . . . | 01102 | ---- | 01102 | ---- | ---- | ---- |
| 76 | Nozzle Check Valve. . . . . | 014578 | 014578 | 014578 | ---- | ---- | 014578 |
| 77 | Nozzle Check Valve Assembly . . . . . | ---- | ---- | ---- | 016198 | 016949 | ---- |
| 81 | Throttle Cable Bracket. . . . . | 016332 | 015960 | 016332 | 014999 | 016683 | 016683 |
| 82 | Throttle Cable Bracket Lkwshr (2) . . . . | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 83 | Throttle Cable Bracket Ret. Screw (2) . . | 015384 | 015384 | 015384 | 015384 | 015384 | 015384 |
| 84 | Throttle Cable Clamp. . . . . | 014995 | 014995 | 014995 | 014995 | 014995 | 014995 |
| 85 | Throttle Cable Clamp Ret. Screw . . . . . | 016322 | 014998 | 016322 | 014998 | 016322 | 016322 |
| 86 | Throttle Cable Clamp Ret. Nut . . . . . | 014997 | 014997 | 014997 | 014997 | 014997 | 014997 |
| 87 | Throttle Shaft & Lever. . . . . | 016331 | 015959 | 016331 | 015987 | 017256 | 017273 |
| 88 | Throttle Shaft Clip . . . . . | 014118 | 014118 | 014118 | 014118 | 014118 | 014118 |
| 89 | Throttle Shaft Clip Lockwasher. . . . . | 0992 | 0992 | 0992 | 0992 | 0992 | 0992 |
| 90 | Throttle Shaft Clip Retaining Screw . . . | 01974 | 01974 | 01974 | 01974 | 01974 | 01974 |
| 91 | * Throttle Shaft Return Spring. . . . . | 015988 | 014348 | 015988 | 015988 | 015988 | 015988 |
| 92A | Throttle Shaft Seal (Small) . . . . . | ---- | 015954 | ---- | ---- | ---- | ---- |
| 93 | Throttle Shaft Seal (Large) . . . . . | ---- | 015955 | ---- | ---- | ---- | ---- |
| 96 | Throttle Shutter. . . . . | 013745 | 013745 | 013745 | 015984 | 015984 | 013745 |
| 97 | * Throttle Shutter Screw (2). . . . . | 015912 | 08942 | 015912 | 015912 | 015912 | 015912 |
| 103 | * Throttle Wire Retaining Screw . . . . . | 055 | 055 | 055 | 055 | 055 | 055 |
| | * Gasket Set. . . . . | GS-1HD | GS-1HD | GS-1HD | GS-3HD | GS-3HD | GS-1HD |
| | Repair Parts Kit. . . . . | RK-7HD | RK-1HD | RK-7HD | RK-6HD | RK-6HD | RK-4HD |
| | Diaphragm & Gasket Set. . . . . | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD | DG-1HD |

(*) Indicates contents of Repair Parts Kit



**Tillotson Carburetors**
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BORG WARNER Transportation Equipment