



INSTRUCTIONS & OPERATING INSTRUCTIONS WATERMAN FUEL PRESSURE CONTROL UNITS

INTRODUCTION:

WATERMAN PRESSURE CONTROL UNITS ARE DESIGNED FOR RACING ONLY AND SHOULD NOT BE USED ON ANY VEHICLES SUBJECT TO EMISSION CONTROL. THE UNIT IS A PRECISION ASSEMBLY AND FOR MAXIMUM PERFORMANCE, THE FOLLOWING INSTRUCTIONS SHOULD BE FOLLOWED CAREFULLY. THE UNIT IS SUPPLIED WITH A SERIAL NUMBER; THE NUMBER IS AN IMPORTANT PART OF THE YEAR LIMITED WARRANTY. PLEASE RECORD THE SERIAL NUMBER ON BOTH SECTIONS OF YOUR WARRANTY CARD. RETURN THE WARRANTY REGISTRATION CARD TO WATERMAN AND RETAIN THE WARRANTY REGISTRATION RECEIPT FOR YOUR RECORDS AND FOR REFERENCE IF YOU CALL FOR TECHNICAL ASSISTANCE. OUR "TECH LINE" IS (707) - 884 - 4181 .

DESCRIPTION OF OPERATION:

THIS UNIT IS COMPATIBLE WITH RACING GASOLINES AND ALCOHOL FUELS. THE PRESSURE CONTROL UNIT IS DESIGNED FOR FUEL PRESSURE REGULATION IN THE RANGE OF 3 TO 12 PSI (WITH SYSTEM SUPPLY AT 25 TO 30 PSI). ON FUEL SYSTEMS THAT HAVE LOWER SYSTEM SUPPLY PRESSURE, THE RANGE OF REGULATION WILL BE SLIGHTLY DIFFERENT. MOST CARBURATORS PREFORM BEST IN THE RANGE OF 6 TO 10 PSI. PLEASE BE SURE THE PUMP YOU HAVE SELECTED HAS ENOUGH VOLUME AND PRESSURE FOR THE LEVEL REQUIRED. AS AND EXAMPLE, THE BOOST REGULATOR REQUIRES ONE (1) PSI HIGHER SYSTEM SUPPLY PRESSURE FOR EACH POUND OF BOOST. WATERMAN PUMPS ARE COMPATIBLE WITH RACING FUELS (GASOLINE AND ALCOHOL) AND HAVE ENOUGH VOLUME AND PRESSURE.

WATERMAN PRESSURE CONTROL UNITS HAVE FIXED DIAMETER ORIFICE IN A REMOVABLE STAINLESS STEEL CARTRIDGE. THE DIAPHRAGM ASSISTED CONTROL VALVE IS DESIGNED TO RESPOND WITH MINIMAL TIME LAG IN COMPARISON TO FLOW DEMAND. EACH UNIT IS EQUIPPED WITH ONE (1) INLET PORT TAPPED #10AN AND TWO (2) POTENTIAL OUTLET PORTS TAPPED #6AN.

THE EXCLUSIVE STAINLESS STEEL CARTRIDGE MAKES MAINTENANCE AND REPAIR SIMPLE. ALL THAT'S REQUIRED IS TO REMOVE THE REGULATOR TOP AND UNSCREW THE CARTRIDGE, LEAVING THE HOSED AND BODY MOUNTED IN THE CAR.

CAUTION: DO NOT OPERATE FUEL PUMP WITH THE PRESSURE CONTROL UNIT TOP REMOVED!

THE REGULATOR'S FLOW CHARACTERISTICS ARE ENHANCED BY THE USE OF THE SPECIAL WATERMAN SUPER FLOW FITTINGS.

MOUNTING:

THIS REGULATOR SHOULD BE MOUNTED AWAY FROM THE ENGINE'S FLYWHEEL AREA WITH THE PREFERRED POSITION IN FRONT OF THE CARBURETOR(S). FLEXIBLE VIBRATION MOUNTS CAN BE USED WITH THE MOUNTING BRACKET SUPPLIED, SUCH AS THE GATES MODEL 302A20.

ADJUSTMENT:

THE FUEL PRESSURE CONTROL UNIT IS ADJUSTED WITH AN INTERNAL HEX WRENCH (3/16"). CLOCKWISE (CW) RAISED REGULATED PRESSURE AND COUNTER CLOCKWISE (CCW) LOWERS REGULATED PRESSURE. THE FUEL PRESSURE MUST BE SET WITH SOME FLOW OCCURRING (AT LEAST .5 CC/SEC) FOR CORRECT PRESSURE READINGS ON THE GAUGE. WATERMAN DOES NOT RECOMMEND LEAVING PRESSURE GAUGES ON RACE CARS FOR COMPETITION.

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