

PRECISION PERFORMANCE PRODUCTS

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#330 Co2 SUPPLY & CONTROLS INSTALLATION AND OPERATION INSTRUCTIONS

PRECISION PERFORMANCE PRODUCTS CO2 SUPPLY ASSEMBLY #330 CAN OPERATE YOUR **PRECISION PERFORMANCE PRODUCTS** SHIFTER OR OTHER DEVICES WHICH REQUIRE CO2 FOR POWER. AS PER (FIG. 1) IT IS SIMPLE TO CONNECT TO **POWERS SHIFTERS** WHICH ARE COMPLETE ASSEMBLIES THAT ARE READY TO USE, REQUIRING ONLY THE HOSE CONNECTION. THIS IS ACCOMPLISHED BY SIMPLY INSERTING THE HOSE INTO THE FITTING SUPPLIED WITH THE SHIFTER AND ASSOCIATED COMPONENTS, (THE HOSE CAN BE REMOVED EASILY BY PUSHING IN THE ACTUATING RING ON THE FITTING AND PULLING OUT THE HOSE). IT IS RECOMMENDED WHEN MOUNTING THE TANK IN THE VEHICLE THAT IT BE IN REACH OF THE DRIVER TO VERIFY THAT THE TANK VALVE IS ON AS A FINAL CHECK OUT PRIOR TO STAGING. THE TANK AND REGULATOR SHOULD BE MOUNTED ONLY IN A **VERTICAL** POSITION (DO NOT LAY THE TANK HORIZONTAL) THIS WILL DISCHARGE THE GAS ONLY AND NOT THE LIQUID FROM THE TANK EXTENDING THE TIME BETWEEN REFILLS. WHEN INSTALLING THE REGULATOR TO THE TANK, MAKE SURE THE PLASTIC FLAT WASHER IS IN THE REGULATOR FITTING BEFORE ATTACHING TO THE TANK VALVE, THE REGULATOR HAS GAUGE THAT WILL INDICATE THE TANK VAPOR PRESSURE, THIS WILL BE APPROXIMATELY 800 PSI AT NORMAL TEMPERATURE LEVELS BUT WILL VARY WITH TEMPERATURE CONDITIONS. WHEN A CONSTANT LOSS OF PRESSURE OCCURS, THIS IS AN INDICATION THAT THE LIQUID IS EMPTY AND REQUIRES REFILLING. TYPICAL SOURCES THAT CAN REFILL ARE WELDING SUPPLY COMPANIES, PAINT BALL SUPPLY STORES AND FIRE EXTINGUISHER SUPPLY COMPANIES. AN EMPTY BOTTLE WILL REQUIRE 10 OUNCES MAXIMUM, OF LIQUID CARBON DIOXIDE. THE REGULATOR IS PRESET TO APPROXIMATELY 120 PSI FOR NORMAL CONDITIONS, A RANGE OF 100 TO 130 PSI IS RECOMMENDED FOR CORRECT SHIFTER OPERATION. THE NEXT STEP IS TO MOUNT THE SOLENOID VALVE WITHIN A MAXIMUM OF 12" FROM THE SHIFTER. CONNECT A LENGTH OF HOSE BETWEEN THE REGULATOR AND PORT (1) ON THE SOLENOID VALVE. THEN CONNECT A HOSE BETWEEN PORT (2) ON THE SOLENOID VALVE TO THE SHIFTER AIR CYLINDER. NOTE: PORT 3 ON THE 3 WAY SOLENOID VALVE HAS A MUFFLER THAT MUST BE KEPT OPEN TO RELIEVE PRESSURE FROM THE SHIFTER CYLINDER AND LINE WHEN THE VALVE IS IN THE OFF CONDITION. THE 12 VOLT DC SOLENOID VALVE ONLY REQUIRES 300 MILLIAMPS TO ACTUATE AND CONTROLS THE REGULATED GAS. YOU CAN MANUALLY ACTUATE THE VALVE WITH A POINTED OBJECT SUCH AS A PENCIL TO TEST THE SHIFTER ACTUATION WITHOUT ELECTRICAL INPUT AS SHOWN IN (FIG 1). THERE ARE VARIOUS METHODS TO ACTUATE THE SOLENOID VALVE ELECTRICALLY, SOME POPULAR EXAMPLES ARE SHOWN BELOW.

