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- 1) The water pump has the capability to connect to three different types of inlet hoses. If you want to use braided line, the inlet elbow has been drilled and tapped for a 1" pipe thread. If you are using Chevy radiator hose (1-3/4 inch inside diameter) you can slip it directly over the inlet elbow. If you are using a Volkswagen radiator hose (1-1/4 inch inside diameter) an easy modification to the inlet elbow will need to be made prior to installation - remove the elbow by removing the four socket head screws. Take a hacksaw and cut off the end of the inlet, then deburr the cut off part with a file. Reinstall the elbow.
- 2) Remove the old water pump and scrape the gasket surface clean.
- 3) Flush the block. If any block sealer has been used, the system must be flushed prior to installation. Make sure the cooling system is free of rust, scale, sediment and corrosion. IMPORTANT: Do not use "block sealer or radiator "stop leak" in this pump. It may cause damage to the seal.
- 4) Install new gaskets and mount the Dedenbear pump on the engine using your bolts and the four supplied flat washers (NOTE: the pump inlet is in the stock location). Check for clearance between the pump body and the timing gear cover.
- 5) Install the inlet hose of your choice, using a hose clamp to hold it in place if you are using a rubber hose. If you are using braided line, install the fitting using a thread sealer.
- 6) Connect the wiring. Ground the black wire and connect the red wire to switched +12 volts through a 10 amp fuse or circuit breaker.
- 7) Remove the top radiator hose at the engine, tip it up and fill the system slowly by pouring water into the engine. When water runs out of the top radiator outlet, reconnect the hose.
- 8) Turn on the pump for short bursts of time and let the water circulate. Top off the engine each time. The purpose of this is to remove all of the air from the system. Because the pump is a high performance design, it does not tolerate air trapped in the cooling system. If you are using a radiator without an upper and lower tank, such as a Volkswagen or late model Chevrolet, it is recommended that you install an expansion tank (available from Dedenbear). Please refer to the Dedenbear Products cooling system technical brochure for more details.
- 9) If the pump motor runs but the water doesn't circulate, the system is "air locked." To correct this, press the bleed valve button at the front of the pump. This bleeds the trapped air out of the pump cavity and allows the pump to work properly.

#### LIMITED 1 YEAR WARRANTY

DEDENBEAR Products, Inc. warrants to the consumer that all DEDENBEAR Products purchased from an Authorized DEDENBEAR Reseller will be free from defects in material and workmanship for a period of twelve (12) months from date of the original purchase. Products that fail within this 12 month warranty period will be repaired or replaced at DEDENBEAR's option, when determined by DEDENBEAR that the product failed due to defects in material or workmanship. This warranty is limited to the repair or replacement of parts in the DEDENBEAR Product and the necessary labor done by DEDENBEAR to effect the repair or replacement of the DEDENBEAR product. In no event shall DEDENBEAR's cost to repair or replace a DEDENBEAR under this warranty exceed the original purchase price of the DEDENBEAR Product. Nor shall DEDENBEAR Products, Inc. be responsible for special, incidental or consequential damages or costs incurred due to the failure of a DEDENBEAR Product. This warranty applies only to the original purchaser of the DEDENBEAR Product and is non-transferable. This warranty also applies only to DEDENBEAR Products purchased from an Authorized DEDENBEAR Reseller. All implied warranties shall be limited in duration to the said 12 month warranty period. Breaking the instrument seal, improper use or installation, accident, water damage, abuse, unauthorized repairs or alterations voids this warranty. DEDENBEAR disclaims any liability for consequential damages due to the breach of any written or implied warranty on all products manufactured by DEDENBEAR Products, Inc.

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