

Installation Instructions



BOSCH® HYDRO-MAX™ MOTOR AND PUMP ASSEMBLY KIT

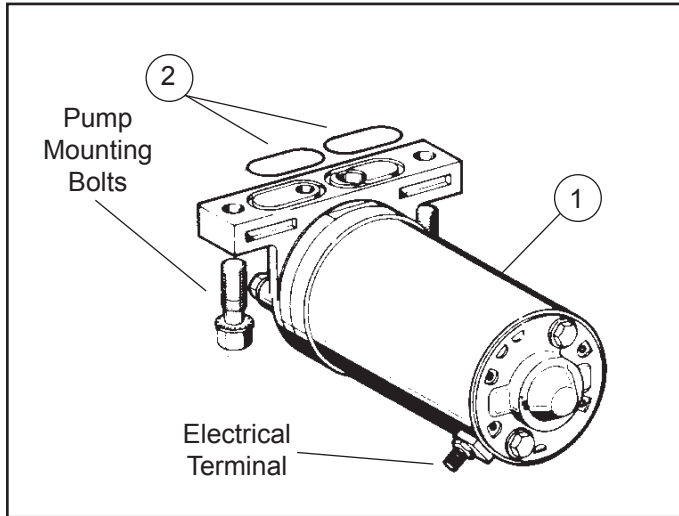


Figure 1 – Current Style Motor & Pump Assembly

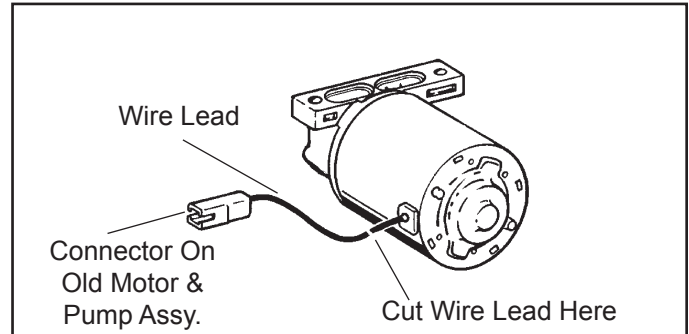


Figure 2 – Old Style Motor & Pump Assembly

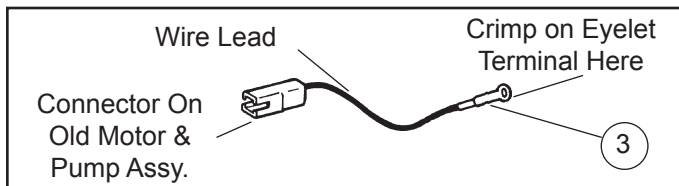


Figure 3 – Wire Harness from Old Style Motor & Pump Assembly

Kit Contents		
Item No.	Description	Qty.
1	Hydro-Max Motor Pump Assembly	1
2	Seals	4
3	Wire Terminal (eyelet)	1
4	#10-24 Nut (not shown)	1

GENERAL

This kit is intended for use when replacing the Bosch® Hydro-Max™ motor pump assembly.

REMOVING THE MOTOR & PUMP ASSEMBLY

1. Clean the area of the booster where the motor and pump assembly mounts to the booster.
2. Disconnect the electrical wire to the motor by removing the screw, securing the wire eyelet (3) to the motor and pump.

Note: If the existing motor and pump assembly has an integral wire and connector as illustrated in Figure 2, disconnect the connector and proceed to step 3.

3. Using a 9/16" wrench, remove and retain the two cap screws securing the motor and pump assembly (1) to the Hydro-Max booster. Remove and retain the motor and pump assembly.
4. Make sure the two face seals (2) were removed with the motor and pump assembly.

CLEANING AND INSPECTION

1. Clean the area of the booster where the motor and pump assembly mounts to the Bosch Hydro-Max, being careful to keep all contaminants away from the openings into the booster.
2. Visually inspect the entire Hydro-Max assembly and repair or replace any damaged parts noted. Tighten any fittings that show signs of leakage.

GENERAL SAFETY GUIDELINES

WARNING! PLEASE READ AND FOLLOW THESE INSTRUCTIONS

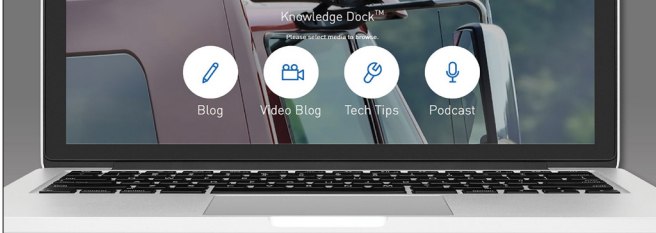
TO AVOID PERSONAL INJURY OR DEATH:

When working on or around a vehicle, the following guidelines should be observed AT ALL TIMES:

- ▲ Park the vehicle on a level surface, apply the parking brakes and always block the wheels. Always wear personal protection equipment.
- ▲ Stop the engine and remove the ignition key when working under or around the vehicle. When working in the engine compartment, the engine should be shut off and the ignition key should be removed. Where circumstances require that the engine be in operation, **EXTREME CAUTION** should be used to prevent personal injury resulting from contact with moving, rotating, leaking, heated or electrically-charged components.
- ▲ Do not attempt to install, remove, disassemble or assemble a component until you have read, and thoroughly understand, the recommended procedures. Use only the proper tools and observe all precautions pertaining to use of those tools.
- ▲ If the work is being performed on the vehicle's air brake system, or any auxiliary pressurized air systems, make certain to drain the air pressure from all reservoirs before beginning ANY work on the vehicle. If the vehicle is equipped with a Bendix® AD-IS® air dryer system, a Bendix® DRM™ dryer reservoir module, or a Bendix® AD-9si® air dryer, be sure to drain the purge reservoir.
- ▲ Following the vehicle manufacturer's recommended procedures, deactivate the electrical system in a manner that safely removes all electrical power from the vehicle.
- ▲ Never exceed manufacturer's recommended pressures.
- ▲ Never connect or disconnect a hose or line containing pressure; it may whip and/or cause hazardous airborne dust and dirt particles. Wear eye protection. Slowly open connections with care, and verify that no pressure is present. Never remove a component or plug unless you are certain all system pressure has been depleted.
- ▲ Use only genuine Bendix® brand replacement parts, components and kits. Replacement hardware, tubing, hose, fittings, wiring, etc. must be of equivalent size, type and strength as original equipment and be designed specifically for such applications and systems.
- ▲ Components with stripped threads or damaged parts should be replaced rather than repaired. Do not attempt repairs requiring machining or welding unless specifically stated and approved by the vehicle and component manufacturer.
- ▲ Prior to returning the vehicle to service, make certain all components and systems are restored to their proper operating condition.
- ▲ For vehicles with Automatic Traction Control (ATC), the ATC function must be disabled (ATC indicator lamp should be ON) prior to performing any vehicle maintenance where one or more wheels on a drive axle are lifted off the ground and moving.
- ▲ The power **MUST** be temporarily disconnected from the radar sensor whenever any tests **USING A DYNAMOMETER** are conducted on a vehicle equipped with a Bendix® Wingman® system.
- ▲ You should consult the vehicle manufacturer's operating and service manuals, and any related literature, in conjunction with the Guidelines above.

INSTALLING THE MOTOR AND PUMP ASSEMBLY

1. Put a light coating of power steering fluid on two of the face seals (2) contained in this kit and install them into the recesses on the mounting surface of the motor and pump assembly.
Note: A total of four seals are included in this kit to accommodate installations that utilize an adapter block between the motor and pump assembly and the booster assembly.
2. Install the motor and pump assembly (1) onto the booster making certain the face seals (2) remain in their proper position. Secure the motor and pump assembly to the booster using the two cap screws retained in Step 3. Torque the cap screws to 18-25 ft-lbs.
3. Install the wire eyelet (3) on the terminal post. Secure the wire eyelet (3) on the terminal with the 10-24 nut (4) provided in this kit. Torque the nut (4) to 10-24 in-lbs.
Note: If the original motor and pump assembly had an integral wire lead and molded connector, cut the wire lead where it enters the old motor. Connect the molded connector to the vehicle lead. Strip approximately 1/4" of insulation from the end of the wire lead (the end that was cut from the motor) and crimp the eyelet (3) connector securely onto the bare wire. Secure the wire eyelet (3) on the terminal with the terminal nut (4).
4. Check for proper operation of the hydro-max booster and refill the fluid reservoir according to the manufacturers recommendations prior to placing the vehicle back into service.




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