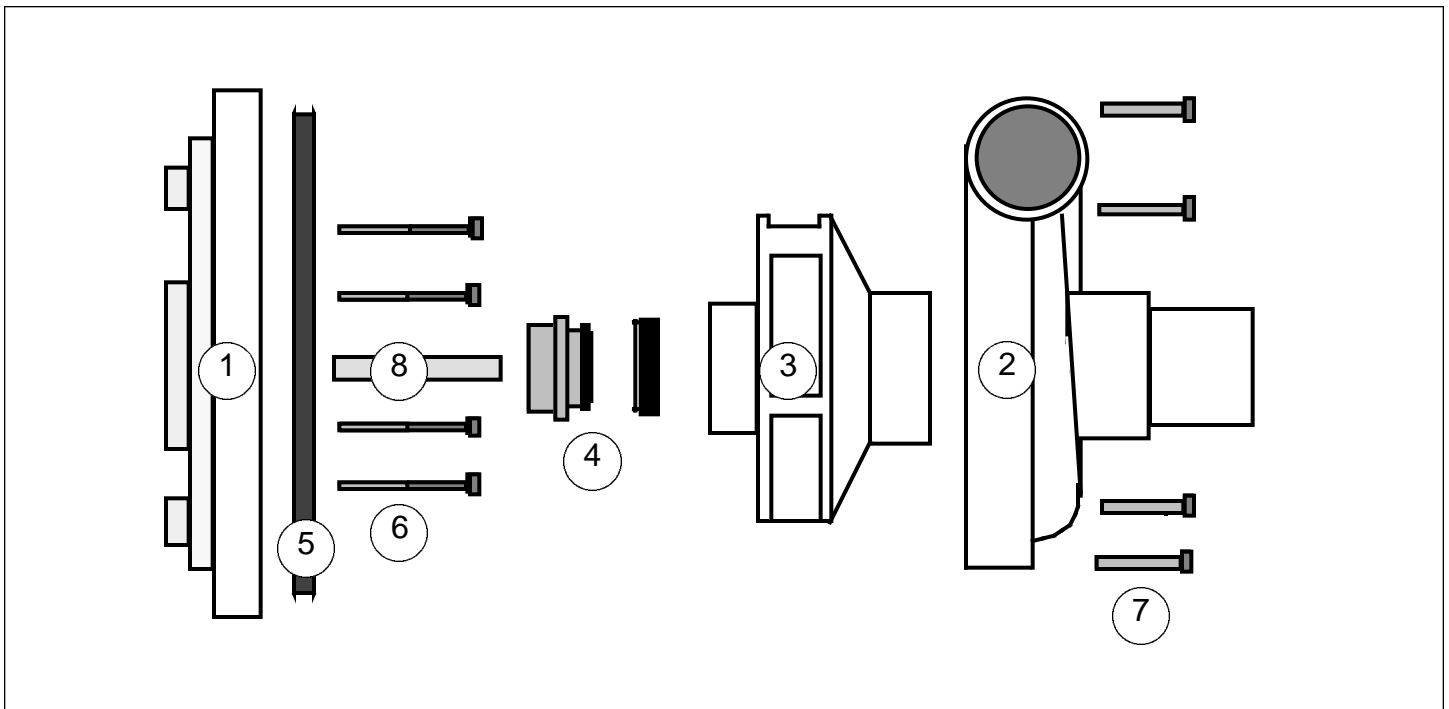


# P90 Pump Breakdown Assembly



Component Number	Quantity Used	Part Number	Description
1	1	903	P90 PUMP MOUNTING PLATE
2	1	951	P90 PUMP HOUSING
3	1	952	P90 PUMP IMPELLER
4	1	WPS2	PUMP SEAL 2.5/3.5/5HP
5	1	953	P-90 CORK GASKET
6	4	AHSFH250281000	Flat Head allen head bolt 1/4"-28x1"
7	4	AHS250201250	1/4"-20 X 1 1/4" ALLEN HEAD BOLT
8	1	954	1/4 28 x 1 Full Thread Stud
9	1	P90H (Not Shown)	New Handle for P90GH 2.5 Honda

## SEAL REMOVAL AND INSTALLATION

1. Remove the four housing bolts and remove the pump housing. 2 The impeller is directly mounted to the engine shaft. Unscrew in a counter clockwise direction. Lock the shaft in a fixed position to prevent it from turning. Insert a simple a pointed tool such as a screwdriver or an awl through starter housing cover, locking the flywheel into place. Rotate the pump impeller counterclockwise until it breaks loose. Unscrew the impeller until it comes off. All of our pumps use a two piece seal assembly. The ceramic side of the seal fits in side the back of the (3) P90 PUMP IMPELLER. . The rubber side goes against the impeller. The spring loaded side is pressed inside the (1) P90 PUMP MOUNTING PLATE. The spring side of the seal should be pressed in with a thin bead of silicon sealant. We recommend that the seal be pressed in with or pump setting tool WPK2 Pump Seal Kit. Thread the impeller onto the engine shaft until the impeller is hand tight. Install the housing and use care not to over tighten the bolts to avoid stripping the threads as they are a soft alloy aluminum.

**ALWAYS REMEMBER THAT RUNNING YOUR PUMP DRY WILL LEAD TO POSSIBLE DAMAGE AND DESTRUCTION OF THE WATER PUMP SEALS. IT IS RECOMMENDED TO KEEP A SPARE WATER PUMP SEAL KIT (WPK2) AND ONE ADDITIONAL WATER PUMP SEAL (WPK2) WHEN WORKING IN AN ISOLATED AREA.**

See "INSTALLATION & REPLACEMENT OF A PUMP SEAL, HOSE COUPLER & COMPRESSOR DRIVE ASSEMBLY" For further details on pump repair.