

A.Y. McDonald Mfg. Co. Stainless Steel Submersible Pump Assembly Guide

Assembly Guide for 90 GPM Pumps w/4" Motor

۲

	SEMBLY TOOLS						
KIT	PICTURE	ITEM #	DESCRIPTION	КІТ	PICTURE	ITEM #	DESCRIPTION
TORQUE WRENCH KIT		TRQWRN20-110NM	TORQUE WRENCH			JIG6PEX4MOT	JIG 4" MOTOR
		INSTTRQWRNCH	INSERT FOR TORQUE WRENCH	JIG SET KIT		LHEXALLEN6PEX4MOT	4 " HEXAGONAL Allen Tool
CLEARANCE Kit		FXSSTRAP6PEX4MOT	FIXTURE FOR STRAP		2	TOOL6PE90	IMPELLER NUT TOOL
		STRPSCKT6PEX4MOT	SOCKET FOR STRAP	ASSEMBLY KIT		SKTTL90	SOCKET FOR TOOL
		SHFTDPTCAL6PEX4MOT	DEPTH CALIPER			TRQTSTNUT90	TORQUE TESTING NUT
		SHFTDPTHTOOL6PEX4MOT	DEPTH TOOL				
FIXTURE Seat kit		FXS46810PE	FIXTURE SEAT				
		LHEXALLENFIXST	HEXAGONAL ALLEN TOOL FIXST				



()

WARNING: It is unlawful in CALIFORNIA & VERMONT (effective 1/1/2010); MARYLAND (effective 1/1/2012); LOUISIANA (effective 1/1/2013) and the UNITED STATES OF AMERICA (effective 1/4/2014) to use any product in the installation or repair of any public water system or any plumbing in a facility or system that provides water for human consumption if the wetted surface area of the product has a weighted average lead content greater than 0.25%. This prohibition does not extend to service saddles used in California, Louisiana or under USA Public Law 111-380. WARNING: This product can expose you to chemicals including lead, which is known to the State of CALIFORNIA to cause cancer and birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov.

800.292.2737 | sales@aymcdonald.com | aymcdonald.com

۲

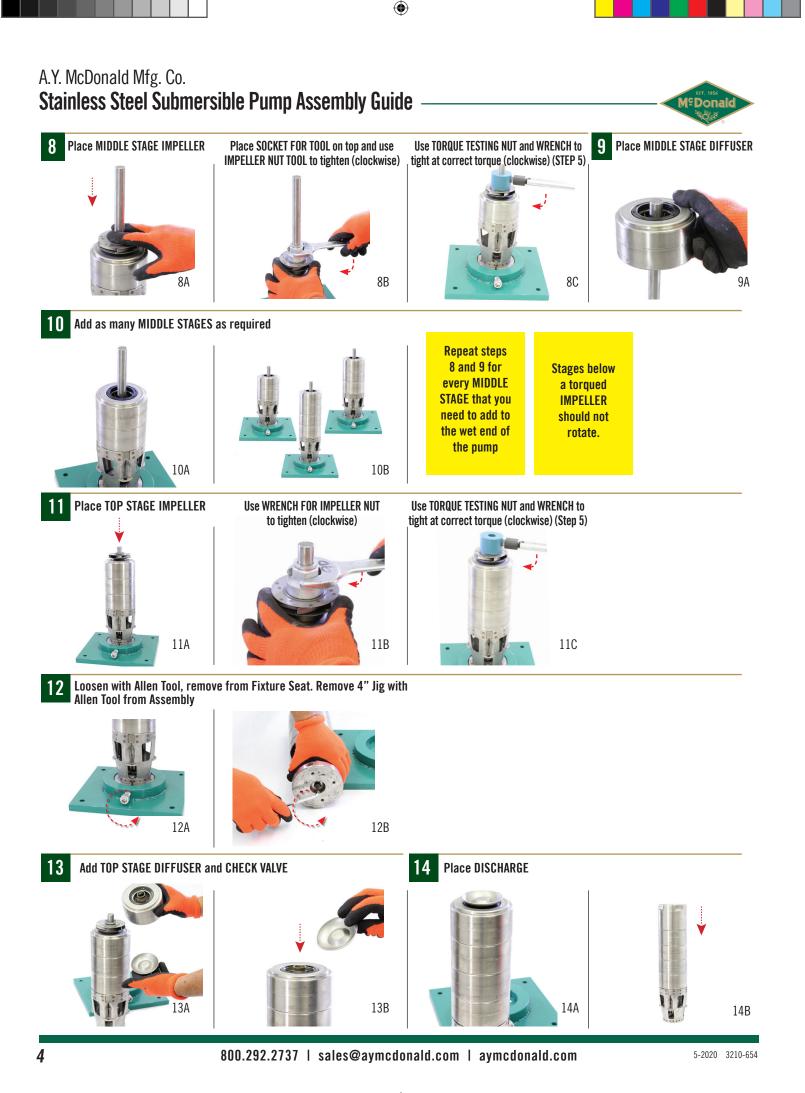
A.Y. McDonald Mfg. Co. Stainless Steel Submersible Pump Assembly Guide



PUMP COMPONENTS

KIT	PICTURE	CTURE DESCRIPTION KIT PICTURE		PICTURE	DESCRIPTION	
STANDARD Assembly Kit		DISCHARGE TOP VIEW			STRAPS	
	CHECK VALVE TOP VIEW	តុតុត្				
		TOP STAGE DIFFUSER TOP VIEW TOP VIEW	SPECIFIC Components (Mod)	82.0 BU	CABLE GUARDS	
		TOP STAGE IMPELLER				
		INTERCONNECTOR FOR 4" MOTOR			SHAFT	
MIDDLE Stage Assembly Kit		MIDDLE STAGE DIFFUSER		***	NUTS	
		MIDDLE STAGE IMPELLER	PLATES KIT		PLATE FOR MODEL & DOE INFORMATION	
BOTTOM Stage Assembly Kit		BOTTOM STAGE DIFFUSER TOP VIEW BOTTOM VIEW	BOLTS AND NUTS KIT		NUTS FOR 4" MOTORS	
		BOTTOM STAGE IMPELLER				
	0	STOP RING				





()



3210-654 5-2020

۲

800.292.2737 | sales@aymcdonald.com | aymcdonald.com

5

۲

A.Y. McDonald Mfg. Co. Stainless Steel Submersible Pump Assembly Guide

M°Donald

SHAFT TOLERANCES (CHART 1)

		AXIAL CLEARENCE - H(MM)			
MOTOR DIAMETER	MEASURAMENT REFERENCE	DOWN	UP		
4"		36.5	39.5-40		
6"		71-71.5	75-77		
8"	SHAFT/COUPLING	100	MIN 103		
10" Franklin		100	MIN 103		
10" HITACHI		125.5	MIN 129		



TORQUE FOR IMPELLER ASSEMBLY (CHART 2)

IURQUE						
MODEL		STRAP (N.M)	IMPELL	.ER (N.M)		
90 GPM SERIES	6"	45		A F		
90 GPM SERIES	6" x 4"	35	45			
150 GPM SERIES	6"	45	20			
150 GPM SERIES	6" x 4"	35	80			
230 GPM SERIES	6"	45	20			
230 GPM SERIES	6" x 4"	35	80			
300 GPM SERIES	6"	45	90			
300 GPM SERIES	6" x 4"	35	80			
400 GPM SERIES		100	100	100		
500 GPM SERIES		100	100	100		
650 GPM SERIES		100	160	160		
800 GPM SERIES		100	160	160		
1100 GPM SERIES		100	250	250		

DOE CHART

MODEL	90S	150S	230S	300\$	PEI di:	
PEI	0.87	0.90	0.88	0.90	S/N:	
IMP. DIA. (IN)	3.5	3.7	4.14	4.14	Imp.Dia: DC:	

6

()

۲