

MAGNALOY'S PUMP/ENGINE MOUNTS are available for mounting SAE flange-mount pumps to gasoline and diesel engines with pilot mounting capabilities. Four basic engine pilot mounting configurations are available from inventory determined by the pilot diameter. Optional sizes are available upon request.



Engine Mount Selection Method

1. Check TABLES 2 thru 5 to determine pump flange size.
2. Determine the Engine Pilot Group from TABLE 14 (other sizes are available, consult factory)
3. Measure the pump shaft length from the shaft end to the flange mounting face and ADD to the engine shaft length measured from the shaft end to the pilot face. An additional 1/16 inch (minimum) is recommended for shaft end clearance.
4. Refer to the appropriate TABLE (15 thru 18) according to the Engine Pilot Group determined in STEP 2, above and locate the applicable pump flange selection from STEP 1, above.
5. Select the mount length option (dimension 'XM' in tables) based on the minimum length determined in STEP 3, above.
6. Check for proper clearance between the mount inner surfaces and the coupling O.D. (dimension 'Z' and 'CL' in tables). Dimensional data for Magnaloy Couplings is shown in TABLE 1 for reference. A complete Magnaloy Coupling catalog is available upon request or visit www.magnaloy.com.

Consult your Magnaloy Distributor for Magnaloy's Product CD ROM which includes the Magnaloy Pump/Motor Mount Selection Program for easy, computerized mount selection.

TABLE 14 - Engine Pilot Groups

Size	K	J
E575	5.75	6.50
E644	6.437	7.75
E700	7.00	7.75
E787	7.875	9.25
Pilot Group Size	Pilot Dia.	Bolt Circle Dia.

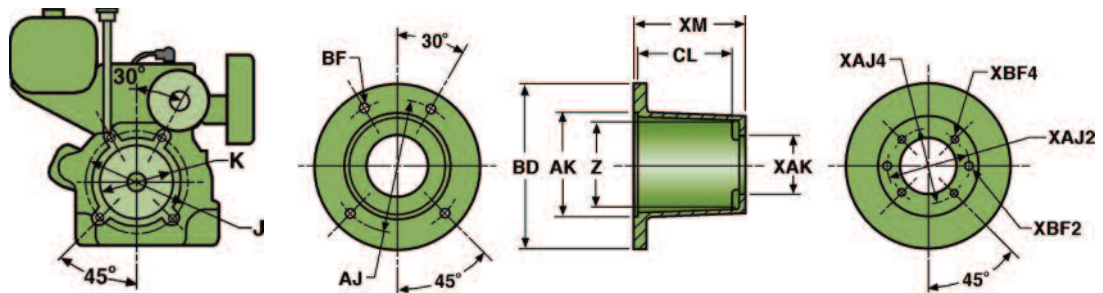


TABLE 15 - E575 Pilot Gasoline and Diesel Engines

ENGINE END DATA				RADIAL CLEARANCE "Z" = 4.15			"Z" = 4.15			"Z" = 5.00							
AJ	BF	BD	AK	*RADIAL CLEARANCE "Z" = 4.10			* "Z" = 4.10			"Z" = 5.00							
6.50	13.32	7.50	5.752	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM
USA4F17	4 Bolt	1.782					2.84	5/16-18	E575504F	4.31	5.00	E575524F	4.56	5.25	E575604F	5.14	6.06
SAE AA	2 Bolt	2.001	3.25	3/8-16					E575502AA	4.31	5.00	E575522AA	4.56	5.25	E575602AA	5.14	6.06
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16			E575502A	4.31	5.00	E575522A	4.56	5.25	E575602A	5.14	6.06
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13			E575502B*	3.93	5.00	E575522B*	4.18	5.25	E575602B	5.14	6.06
80 A2/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18			E5755080M	4.31	5.00	E5755280M	4.56	5.25	E5756080M	5.14	6.06
80 S4	4 Bolt	80.01mm			100mm	5/16-18			E5755080MS	4.31	5.00	E5755280MS	4.56	5.25	E5756080MS	5.14	6.06
100 A2/B4	2(4) Bolt	100.01mm	140mm	1/2-13	125mm	3/8-16			E57550100M*	3.93	5.00	E57552100M*	4.18	5.25	E57560100M	5.14	6.06
PUMP FLANGE				PUMP END DATA				5.00 LENGTH			5.25 LENGTH			6.06 LENGTH **			

** SOCKET HEAD CAP SCREWS REQUIRED ON ENGINE END, THIS LENGTH ONLY. RADIAL CLEARANCE "Z" = 5.00, THIS LENGTH ONLY.

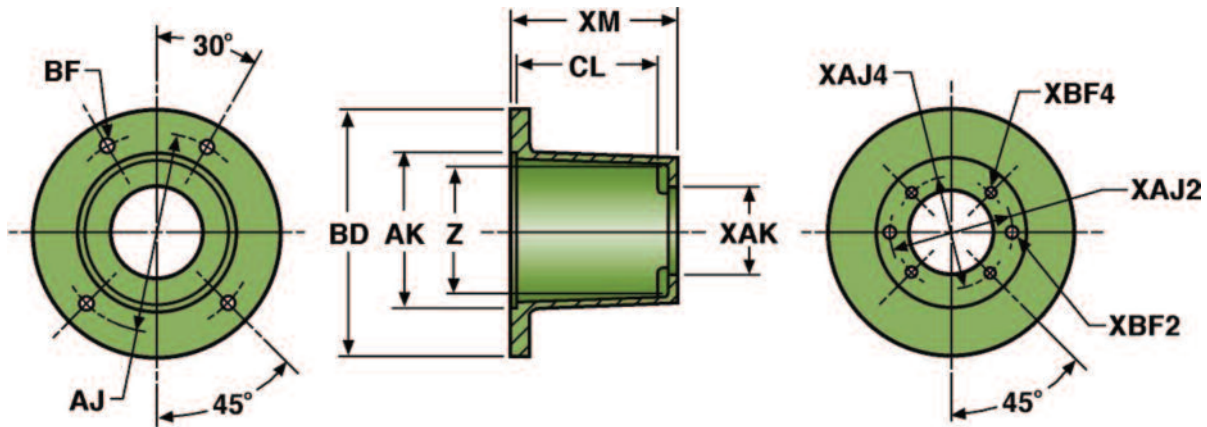
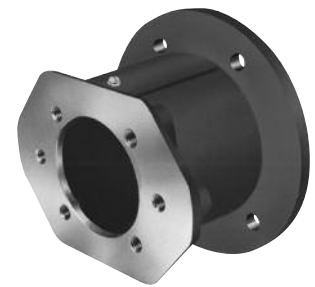


TABLE 16 - E644 Pilot Gasoline and Diesel Engines



ENGINE END DATA
AJ BF BD AK
7.75 15/32 9.00 6.439

RADIAL CLEARANCE "Z" = 5.00

		XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM
USA4F17	4 Bolt	1.782			2.84	5/16-18	E644504F	4.05	5.00	E644554F	4.36	5.50
SAE AA	2 Bolt	2.001	3.25	3/8-16			E644502AA	4.05	5.00	E644552AA	4.36	5.50
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16	E644502A	4.05	5.00	E644552A	4.36	5.50
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13				E644552B	4.36	5.50
80 A2/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18	E6445080M	4.05	5.00	E6445580M	4.36	5.50
80 S4	4 Bolt	80.01mm			100mm	5/16-18	E6445080MS	4.05	5.00	E6445580MS	4.36	5.50
100 A2/B4	2(4) Bolt	100.01mm	140mm	1/2-13	125mm	3/8-16				E64455100M	4.36	5.50

PUMP FLANGE PUMP END DATA 5.00 LENGTH 5.50 LENGTH

ENGINE END DATA
AJ BF BD AK
7.75 15/32 9.00 6.439

RADIAL CLEARANCE "Z" = 5.00

		XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM
USA4F17	4 Bolt	1.782			2.84	5/16-18	E644604F	5.11	6.00	E644704F	6.11	7.00			
SAE AA	2 Bolt	2.001	3.25	3/8-16			E644602AA	5.11	6.00	E644702AA	6.11	7.00			
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16	E644602A	5.11	6.00	E644702A	6.11	7.00			
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13	E644602B	5.11	6.00	E644702B	6.11	7.00	E644722B	6.31	7.25
SAE C	2(4) Bolt	5.001	7.12	5/8-11	6.38	1/2-13	E644602C	5.11	6.00	E644702C	6.11	7.00	E644722C	6.31	7.25
80 A2/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18	E6446080M	5.11	6.00	E6447080M	6.11	7.00			
80 S4	4 Bolt	80.01mm			100mm	5/16-18	E6446080MS	5.11	6.00	E6447080MS	6.11	7.00			
100 A2/B4	2(4) Bolt	100.01mm	140mm	1/2-13	125mm	3/8-16	E64460100M	5.11	6.00	E64470100M	6.11	7.00	E64472100M	6.31	7.25
125 A2/B4	2(4) Bolt	125.01mm	180mm	5/8-11	160mm	1/2-13	E64460125M	5.11	6.00	E64470125M	6.11	7.00	E64472125M	6.31	7.25

PUMP FLANGE PUMP END DATA 6.00 LENGTH 7.00 LENGTH 7.25 LENGTH

TABLE 17 - E700 Pilot Gasoline and Diesel Engines



ENGINE END DATA
AJ BF BD AK
7.75 1.5/32 9.00 7.002

RADIAL CLEARANCE "Z" = 5.00

		XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM
USA4F17	4 Bolt	1.782			2.84	5/16-18	E700504F	4.05	5.00	E700554F	4.36	5.50
SAE AA	2 Bolt	2.001	3.25	3/8-16			E700502AA	4.05	5.00	E700552AA	4.36	5.50
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16	E700502A	4.05	5.00	E700552A	4.36	5.50
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13			E700552B	4.36	5.50	
80 A2/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18	E7005080M	4.05	5.00	E7005580M	4.36	5.50
80 S4	4 Bolt	80.01mm			100mm	5/16-18	E7005080MS	4.05	5.00	E7005580MS	4.36	5.50
100 A2/B4	2(4) Bolt	100.01mm	140mm	1/2-13	125mm	3/8-16			E70055100M	4.36	5.50	

PUMP FLANGE PUMP END DATA 5.00 LENGTH 5.50 LENGTH

2

ENGINE END DATA
AJ BF BD AK
7.75 1.5/32 9.00 7.002

RADIAL CLEARANCE "Z" = 5.00

		XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM
USA4F17	4 Bolt	1.782			2.84	5/16-18	E700604F	5.11	6.00	E700704F	6.11	7.00			
SAE AA	2 Bolt	2.001	3.25	3/8-16			E700602AA	5.11	6.00	E700702AA	6.11	7.00			
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16	E700602A	5.11	6.00	E700702A	6.11	7.00			
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13	E700602B	5.11	6.00	E700702B	6.11	7.00	E700722B	6.31	7.25
SAE C	2(4) Bolt	5.001	7.12	5/8-11	6.38	1/2-13	E700602C	5.11	6.00	E700702C	6.11	7.00	E700722C	6.31	7.25
80 A2/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18	E7006080M	5.11	6.00	E7007080M	6.11	7.00			
80 S4	4 Bolt	80.01mm			100mm	5/16-18	E7006080MS	5.11	6.00	E7007080MS	6.11	7.00			
100 A2/B4	2(4) Bolt	100.01mm	140mm	1/2-13	125mm	3/8-16	E70060100M	5.11	6.00	E70070100M	6.11	7.00	E70072100M	6.31	7.25
125 A2/B4	2(4) Bolt	125.01mm	180mm	5/8-11	160mm	1/2-13	E70060125M	5.11	6.00	E70070125M	6.11	7.00	E70072125M	6.31	7.25

PUMP FLANGE PUMP END DATA 6.00 LENGTH 7.00 LENGTH 7.25 LENGTH

TABLE 18 - E787 Pilot Gasoline and Diesel Engines

ENGINE END DATA
AJ BF BD AK
9.25 2.1/32 11.00 7.877

RADIAL CLEARANCE "Z" = 6.40

		XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16	E787682A	5.80	6.88	E787752A	6.42	7.50	E787862A	7.61	8.69
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13	E787682B	5.80	6.88	E787752B	6.42	7.50	E787862B	7.61	8.69
SAE C	2(4) Bolt	5.001	7.12	5/8-11	6.38	1/2-13	E787682C	5.80	6.88	E787752C	6.42	7.50	E787862C	7.61	8.69
80 A2/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18	E7876880M	5.80	6.88	E7877580M	6.42	7.50	E7878680M	7.61	8.69
80 S4	4 Bolt	80.01mm			100mm	5/16-18	E7876880MS	5.80	6.88	E7877580MS	6.42	7.50	E7878680MS	7.61	8.69
100 A2/B4	2(4) Bolt	100.01mm	140mm	1/2-13	125mm	3/8-16	E78768100M	5.80	6.88	E78775100M	6.42	7.50	E78786100M	7.61	8.69
125 A2/B4	2(4) Bolt	125.01mm	180mm	5/8-11	160mm	1/2-13	E78768125M	5.80	6.88	E78775125M	6.42	7.50	E78786125M	7.61	8.69

PUMP FLANGE PUMP END DATA 6.88 LENGTH 7.50 LENGTH 8.69 LENGTH