

Topic; Arimitsu Upgrade/retrofit kits for replacement of 310/5CP2120 series

The Arimitsu Upgrade kit is shipped fully assembled and ready to bolt to your existing base plate using the same bolt holes drilled for your 310/5CP. Each assembled kit includes pump, mounting rails, shaft key, hub, & type A/B single groove pulley.

Simply order the Upgrade kit that best fits your needs:

*Each kit shipped assembled & includes pump, rails, shaft key, hub, & single groove pulley.

P/N	Description	Specifications
61000	Model 313 Kit Left	4 GPM, 1500 PSI, 1050 RPM
61001	Model 313 Kit Right	4 GPM, 1500 PSI, 1050 RPM
61002	Model 516 Kit Left	4 GPM, 1500 PSI, 950 RPM
61003	Model 516 Kit Right	4 GPM, 1500 PSI, 950 RPM

We have calculated the pulley diameter necessary for the pump to provide the same flow (GPM) as your previously designed system when using your existing motor pulley. Use chart on next page as a guide for pump speed and flow for other motor pulley diameters.

FAQ's:

What are the differences between the 313 & 516? Which model is best for me?

The Model 313 is recommended for 3hp installations. Our most compact Series, where space is critical.

The Model 516 can be used for 3hp or 5hp installations. Other 5 Series models for Super Bay applications.

Other differences;

The model 313 has individual valve plugs for valve access.

The model 516 valves are accessed by separating the manifold.

There is no advantage/disadvantage with either style. It is just a customer preference issue. It is just as easy to service either style when needed.

The model 313 has 2 discharge ports. The model 516 has 4 discharge ports.

Again, there is no advantage/disadvantage with either style. It is just a customer preference issue. Some customers prefer the 4 discharge ports on the 516 for added plumbing options.



Model 313



Model 516

Don't deny yourself the opportunity of a quieter and more efficient operation. **UPGRADE** to Arimitsu Pumps on your equipment. The #1 selling CarWash pump in Japan.

Arimitsu of North America, Inc.
13915-H Radium Street N.W.
Ramsey, MN 55303



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Arimitsu Upgrade Kit - Motor Pulley quick reference table

Pump RPM and GPM display is based on 1725 rpm motor

Motor Pulley	3"	3-1/4"	3-1/2"	3-3/4"	4"	4-1/4"	4-1/2"	4-3/4"	5"
313 Kit (RPM)	718	778	838	898	958	1018	1078	1138	1198
pump pulley=7.2" (GPM)	2.7	3.0	3.2	3.4	3.6	3.9	4.1	4.3	4.5
516 Kit (RPM)	646	700	754	808	862	916	970	1024	1078
pump pulley=8" (GPM)	2.7	3.0	3.2	3.4	3.6	3.9	4.1	4.3	4.5

Nozzles Volume (GPM) at Various Pressures (PSI)

Nozzle Size	Orifice Dia.	40 PSI	100 PSI	250 PSI	500 PSI	600 PSI	700 PSI	800 PSI	1000 PSI	1200 PSI	1500 PSI	2000 PSI	2500 PSI	3000 PSI	3500 PSI	4000 PSI	5000 PSI
2	.034	.20	.32	.50	.71	.77	.84	.89	1.00	1.10	1.22	1.41	1.58	1.73	1.87	2.00	2.24
2.5	.039	.25	.40	.63	.88	.97	1.05	1.12	1.25	1.37	1.53	1.77	1.98	2.17	2.34	2.50	2.80
3	.043	.30	.47	.75	1.06	1.16	1.25	1.34	1.50	1.64	1.84	2.12	2.37	2.60	2.81	3.00	3.35
3.5	.048	.35	.55	.88	1.24	1.36	1.46	1.57	1.75	1.92	2.14	2.47	2.77	3.03	3.27	3.50	3.91
4	.052	.40	.63	1.00	1.41	1.55	1.67	1.79	2.00	2.19	2.45	2.83	3.16	3.46	3.74	4.00	4.47
4.5	.055	.45	.71	1.13	1.59	1.74	1.88	2.01	2.25	2.46	2.76	3.18	3.56	3.90	4.21	4.50	5.03
5	.057	.50	.79	1.25	1.77	1.94	2.09	2.24	2.50	2.74	3.06	3.54	3.95	4.33	4.68	5.00	5.59
5.5	.060	.55	.87	1.38	1.94	2.13	2.30	2.46	2.75	3.01	3.37	3.89	4.35	4.76	5.14	5.50	6.15
6	.062	.60	.95	1.50	2.12	2.32	2.51	2.68	3.00	3.29	3.67	4.24	4.74	5.20	5.61	6.00	6.71
6.5	.064	.65	1.03	1.63	2.30	2.52	2.72	2.91	3.25	3.56	3.98	4.60	5.14	5.63	6.08	6.50	7.27
7	.067	.70	1.11	1.75	2.47	2.71	2.93	3.13	3.50	3.83	4.29	4.95	5.53	6.06	6.55	7.00	7.83
7.5	.070	.75	1.19	1.88	2.65	2.90	3.14	3.35	3.75	4.11	4.59	5.30	5.93	6.50	7.02	7.50	8.39
8	.072	.80	1.26	2.00	2.83	3.10	3.35	3.58	4.00	4.38	4.90	5.66	6.32	6.93	7.48	8.00	8.94
8.5	.074	.85	1.34	2.13	3.01	3.29	3.56	3.80	4.25	4.66	5.21	6.01	6.72	7.36	7.95	8.50	9.50
9	.076	.90	1.42	2.25	3.18	3.49	3.76	4.02	4.50	4.93	5.51	6.36	7.12	7.79	8.42	9.00	10.06
9.5	.078	.95	1.50	2.38	3.36	3.68	3.97	4.25	4.75	5.20	5.82	6.72	7.51	8.23	8.89	9.50	10.62
10	.080	1.00	1.58	2.50	3.54	3.87	4.18	4.47	5.00	5.48	6.12	7.07	7.91	8.66	9.35	10.00	11.18
11	.083	1.10	1.74	2.75	3.89	4.26	4.60	4.92	5.50	6.02	6.74	7.78	8.70	9.53	10.29	11.00	12.30
12	.087	1.20	1.90	3.00	4.24	4.65	5.02	5.37	6.00	6.57	7.35	8.49	9.49	10.39	11.22	12.00	13.42
12.5	.089	1.25	1.98	3.13	4.42	4.84	5.23	5.59	6.25	6.85	7.65	8.84	9.88	10.83	11.69	12.50	13.98
13	.091	1.30	2.06	3.25	4.60	5.03	5.44	5.81	6.50	7.12	7.96	9.19	10.28	11.26	12.16	13.00	14.53
14	.093	1.40	2.21	3.50	4.95	5.42	5.86	6.26	7.00	7.67	8.57	9.90	11.07	12.12	13.10	14.00	15.65
15	.096	1.50	2.37	3.75	5.30	5.81	6.27	6.71	7.50	8.22	9.19	10.61	11.86	12.99	14.03	15.00	16.77
20	.109	2.00	3.16	5.00	7.07	7.75	8.37	8.94	10.00	10.95	12.25	14.14	15.81	17.32	18.71	20.00	22.36
25	.125	2.50	3.95	6.25	8.84	9.68	10.46	11.18	12.50	13.69	15.31	17.68	19.76	21.65	23.39	25.00	27.95
30	.141	3.00	4.74	7.50	10.61	11.62	12.55	13.42	15.00	16.43	18.37	21.12	23.72	25.98	28.06	30.00	33.54
40	.156	4.00	6.32	10.00	14.14	15.49	16.73	17.89	20.00	21.91	24.49	28.28	31.62	34.64	37.42	40.00	44.72
50	.172	5.00	7.91	12.50	17.68	19.36	20.92	22.36	25.00	27.39	30.62	35.36	39.53	43.30	46.77	50.00	55.90
60	.188	6.00	9.49	15.00	21.21	23.24	25.10	26.83	30.00	32.86	36.74	42.43	47.43	51.96	56.12	60.00	67.08

* A commonly used standard for nozzle size is the "nozzle number" which is equivalent to the nozzle capacity in GPM at 4000 PSI. Spray angle does not effect nozzle volume.

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