



U, UX, Alpha Series

Repair Limits Manual



10000 SE Pine St., Portland, OR 97216 • 800-852-1368 • (503) 254-6600

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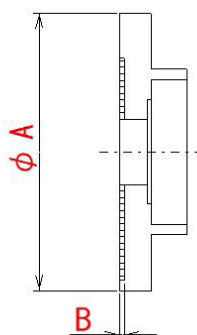
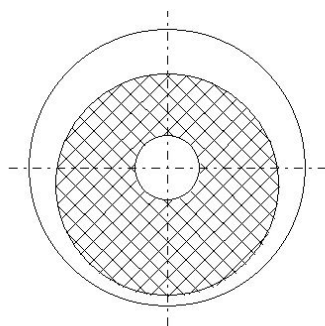
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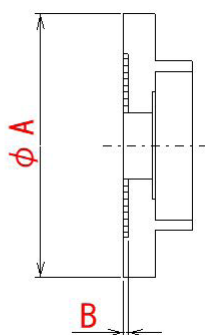
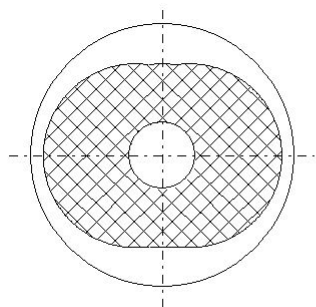
Rear Motor Plate Repair Limits: U, UX Series



Observe parts for deformities

CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
196-285-6	U-310SD	A	26	25.98	U-310SD
		B	-----	0.05	
197-285-6	U-400S	A	30	29.98	U-410D, U-410SD
		B	-----	0.05	
190-285-6	UX-620	A	37	36.97	U-501
		B	-----	0.05	
004-285-7	UW-6SLRK	A	37	36.97	U-500S, U-500C
		B	-----	0.05	
029-285-7	UW-6SBRK	A	41.3065	41.294	U-610
		B	-----	0.05	
191-285-8	U-600S	A	41.297	41.287	U-610S, U-610C
		B	-----	0.05	
026-285-7	UW-6SHARK	A	46.0295	46.017	U-700, UX-800
		B	-----	0.05	
180-285-6	UX-800S	A	46.026	46.017	U-700S, U-700C UX-800S, UX-800C
		B	-----	0.05	
031-285-7	UW-8SHRK	A	48.0295	48.017	U-800, U-800S, U-800C
		B	-----	0.05	
041-285-7	UW-9SRK	A	54.017	53.997	U-900, U-900S, U-900C UX-1000, UX-1000S, UX-1000C
		B	-----	0.05	
194-285-6	UX-1300	A	60.045	60.02	U-1000, U-1000S, U-1000C UX-1300, UX-1300S
		B	-----	0.05	
189-285-4	U-1301T	A	69.045	69.02	U-1301 UX-1400, UX-1600
		B	-----	0.05	
182-285-2	UX-450	A	33	32.97	UX-450 UX-500, UX-500S, UX-500C UX-612, UX-612S, UX-612C
		B	-----	0.05	
177-285-3	UX-450S	A	30	29.98	UX-450S
		B	-----	0.05	
190-285-6	UX-620	A	37	36.97	UX-620, UX-622
		B	-----	0.05	
194-285-6	UX-700	A	42.5295	42.517	UX-700
		B	-----	0.05	
180-285-4	UX-700S	A	42.5	42.47	UX-700S, UX-700C
		B	-----	0.05	
194-285-3	UX-900	A	50.0295	50.017	UX-900, UX-900S, UX-900C
		B	-----	0.05	
195-285-9	UX-1800	A	72.035	72.02	UX-1800, UX-1820, UXR-1820
		B	-----	0.05	
194-285-8	UX-2000	A	80.035	80.02	UX-2000, UX-2000S UXR-2000, UXR-2000S
		B	-----	0.05	
176-285-5	UXR-2400S	A	90.0405	90.023	UXR-2400S
		B	-----	0.05	
175-285-2	UXR-3000S	A	96.0405	96.023	UXR-3000S
		B	-----	0.05	

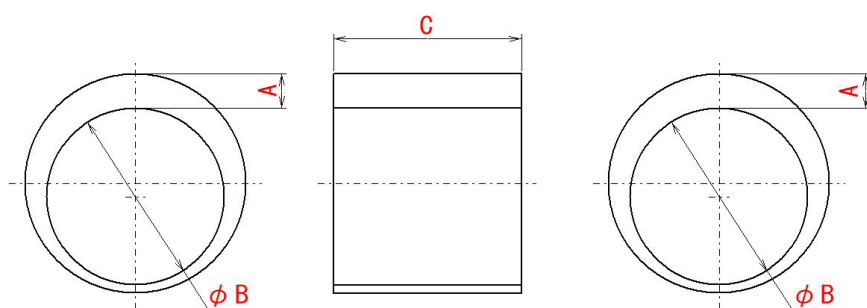
Rear Motor Plate Repair Limits: Alpha Series



Observe parts for deformities

CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
162-285-8	ALPHA-45	A	30	29.97	ALPHA-45
		B	-----	0.05	
161-285-3	ALPHA-45S	A	30	29.97	ALPHA-45S
		B	-----	0.05	
174-285-0	ALPHA-50	A	33	32.97	ALPHA-50 ALPHA-60, ALPHA-61 ALPHA-61GS, ALPHA-61GA
		B	-----	0.05	
161-285-6	ALPHA-50S	A	33	32.97	ALPHA-50S ALPHA-60S
		B	-----	0.05	
147-285-2	ALPHA-L61	A	33	32.97	ALPHA-L61
		B	-----	0.05	
164-285-0	ALPHA-70	A	39.5	39.47	ALPHA-70
		B	-----	0.05	
162-285-0	ALPHA-70S	A	39.5	39.47	ALPHA-70S ALPHA-70C, ALPHA-70CH
		B	-----	0.05	
163-285-0	ALPHA-80	A	43	42.97	ALPHA-80
		B	-----	0.05	
173-285-0	ALPHA-90	A	47	46.97	ALPHA-80K ALPHA-90, ALPHA-90K
		B	-----	0.05	
169-285-0	ALPHA-90E	A	47	46.97	ALPHA-90E
		B	-----	0.05	
163-285-2	ALPHA-100	A	51	50.97	ALPHA-100
		B	-----	0.05	
163-285-3	ALPHA-130	A	57	56.97	ALPHA-130
		B	-----	0.05	
163-285-4	ALPHA-140	A	64	63.97	ALPHA-140
		B	-----	0.05	
163-285-5	ALPHA-160	A	64	63.97	ALPHA-160
		B	-----	0.05	
163-285-6	ALPHA-180	A	69	68.97	ALPHA-180
		B	-----	0.05	

Cylinder Repair Limits: U, UX Series

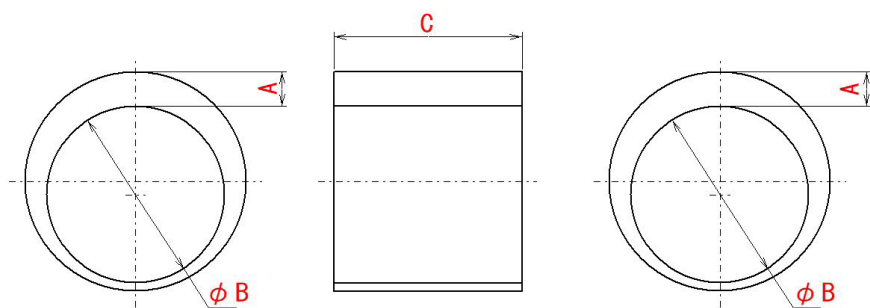


Observe parts for deformities

CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
196-286-8	U-310SD	A	4.5	4.462	U-310SD
		B	20.4	-----	
		C	20	19.995	
418-286-1	US-4	A	5	4.962	U-410D, U-410SD
		B	23.2	-----	
		C	38	37.995	
190-286-7	UX-620	A	6	5.94	U-501
		B	29	-----	
		C	42	41.995	
004-286-7	UW-6SLRK	A	6	5.94	U-500S, U-500C
		B	29	-----	
		C	42	41.995	
029-286-7	UW-6SBRK	A	6.35	6.326	U-610
		B	33.3	-----	
		C	31.751	31.746	
191-286-8	U-610S	A	6.35	6.31	U-610S, U-610C
		B	33.3	-----	
		C	31.751	31.746	
026-286-7	UW-6SHARK	A	7.2	7.14	U-700, UX-800
		B	37	-----	
		C	36	35.995	
180-286-6	UX-800S	A	7.2	7.14	U-700S, U-700C UX-800S, UX-800C
		B	37	-----	
		C	36	35.995	
187-286-3	U-800T	A	8	7.94	U-800, U-800S, U-800C
		B	38	-----	
		C	38	37.995	
188-286-9	U-900T	A	8.73	8.67	U-900, U-900S, U-900C UX-1000, UX-1000S, UX-1000C
		B	42.25	-----	
		C	39.729	39.709	
063-286-7	UW-13SRK	A	9.5	9.47	U-1000, U-1000S, U-1000C UX-1300, UX-1300S
		B	48	-----	
		C	46	45.995	
189-286-4	U-1301T	A	10.5	10.44	U-1301 UX-1400
		B	56.2	-----	
		C	47	46.997	
182-286-2	UX-450	A	6.5	6.4	UX-450
		B	23.2	-----	
		C	38	37.995	
177-286-3	UX-450S	A	5	4.97	UX-450S
		B	23.2	-----	
		C	38	37.995	

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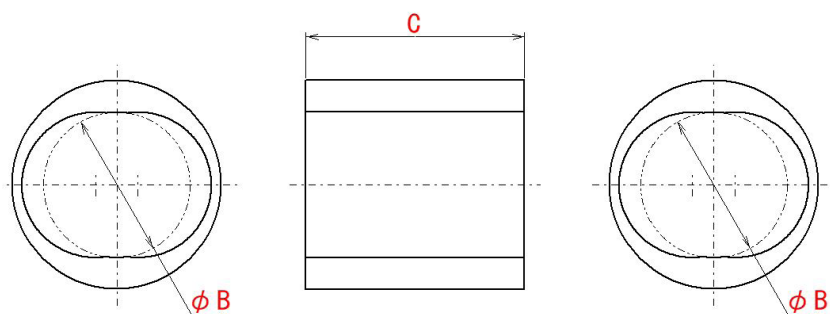
Cylinder Repair Limits: U, UX Series (Continued)



Observe parts for deformities

CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
177-286-5	UX-500	A	5.5	5.44	UX-500
		B	26	-----	
		C	38	37.995	
177-286-7	UX-500S	A	5.5	5.44	UX-500S, UX-500C
		B	26	-----	
		C	38	37.995	
178-286-8	UX-612	A	5.5	5.44	UX-612
		B	26	-----	
		C	45	44.995	
180-286-2	UX-602S	A	5.5	5.44	UX-612S, UX-612C
		B	26	-----	
		C	45	44.995	
190-286-7	UX-620	A	6	5.94	UX-622
		B	29	-----	
		C	42	41.995	
194-286-0	UX-700	A	6.75	6.69	UX-700
		B	34.2	-----	
		C	36	35.995	
180-286-4	UX-700S	A	6.75	6.69	UX-700S, UX-700C
		B	34.2	-----	
		C	36	35.995	
194-286-3	UX-900	A	8.25	8.19	UX-900, UX-900S, UX-900C
		B	39.9	-----	
		C	38	37.995	
195-286-6	UX-1600	A	10.5	10.44	UX-1600, UX-1620
		B	56.8	-----	
		C	55	54.995	
195-286-9	UX-1800	A	11.5	11.44	UX-1800, UX-1820, UXR-1820
		B	58.2	-----	
		C	58	57.995	
194-286-8	UX-2000	A	12	11.94	UX-2000, UX-2000S UXR-2000, UXR-2000S
		B	65.8	-----	
		C	70	69.995	
176-286-5	UXR-2400S	A	14	13.977	UXR-2400S
		B	73	-----	
		C	86	85.995	
175-286-2	UXR-3000S	A	15.5	16.477	UXR-3000S
		B	77	-----	
		C	84	83.995	

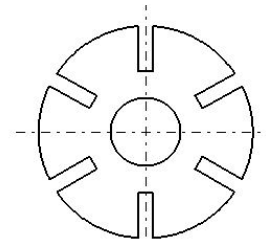
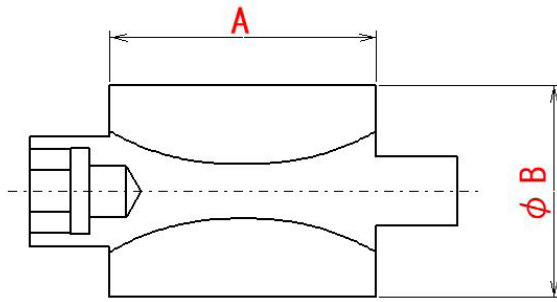
Cylinder Repair Limits: Alpha Series



Observe parts for
deformities

CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
162-286-8	ALPHA-45	B	20	20.071	ALPHA-45
		C	35	34.995	
161-286-3	ALPHA-45S	B	20	20.071	ALPHA-45S
		C	35	34.995	
174-286-0	ALPHA-50	B	22	22.071	ALPHA-50
		C	38	37.995	
161-286-6	ALPHA-50S	B	22	22.071	ALPHA-50S
		C	38	37.995	
174-286-9	ALPHA-60	B	22	22.071	ALPHA-60, ALPHA-61 ALPHA-61GS, ALPHA-61GA
		C	45	44.995	
161-286-8	ALPHA-60S	B	22	22.071	ALPHA-60S
		C	45	44.995	
147-286-2	ALPHA-L61	B	23.5	23.571	ALPHA-L61
		C	38	37.995	
164-286-0	ALPHA-70	B	27.5	27.571	ALPHA-70
		C	41	40.995	
162-286-0	ALPHA-70S	B	27.5	27.571	ALPHA-70S, ALPHA-70C ALPHA-70CH
		C	41	40.995	
163-286-0	ALPHA-80	B	30	30.071	ALPHA-80
		C	41	40.995	
173-286-0	ALPHA-90	B	32	32.075	ALPHA-80K, ALPHA-90 ALPHA-90K
		C	43	42.995	
169-286-0	ALPHA-90E	B	30	30.071	ALPHA-90E
		C	45	44.995	
163-286-2	ALPHA-100	B	36	36.075	ALPHA-100
		C	43	42.995	
163-286-3	ALPHA-130	B	40	40.075	ALPHA-130
		C	52	51.995	
163-286-4	ALPHA-140	B	46	46.075	ALPHA-140
		C	52	51.995	
163-286-5	ALPHA-160	B	46	46.075	ALPHA-160
		C	58	57.995	
163-286-6	ALPHA-180	B	48	48.075	ALPHA-180
		C	63	62.995	

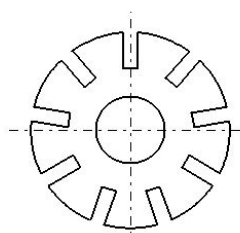
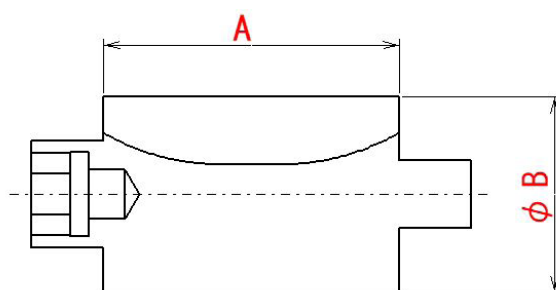
Rotor Repair Limits: U, UX Series



Observe parts for deformities

CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
196-287-6	U-310SD	A	20	19.925	U-310SD
		B	17	16.918	
191-287-6	U-410SD	A	38	37.925	U-410D, U-410SD
		B	20	19.918	
196-287-1	U-600S	A	42	41.905	U-501, U-500S, U-500C UX-622
		B	25	24.913	
185-287-1	U-610	A	31.75	31.655	U-610, U-610S, U-610C
		B	28.576	28.502	
186-287-1	U-700	A	36	35.905	U-700, U-700S, U-700C
		B	31.6	31.522	
187-287-1	U-800	A	38	37.905	U-800, U-800S, U-800C
		B	32	31.922	
188-287-1	U-900	A	39.69	39.595	U-900, U-900S, U-900C
		B	36.514	36.402	
199-287-1	U-1000	A	46	45.905	U-1000, U-1000S, U-1000C
		B	41	40.91	
189-287-8	U-1301	A	47	46.905	U-1301
		B	48	47.923	UX-1400
177-287-3	UX-450S	A	38	37.925	UX-450, UX-450S
		B	20	19.918	
177-287-5	UX-500	A	38	37.925	UX-500, UX-500S, UX-500C
		B	22	21.918	
196-287-4	UX-602	A	45	44.925	UX-612, UX-612S, UX-612C
		B	22	21.918	
194-287-0	UX-700	A	36	35.915	UX-700, UX-700S, UX-700C
		B	29	28.926	
194-287-2	UX-800	A	36	35.905	UX-800, UX-800S, UX-800C
		B	31.6	31.522	
194-287-3	UX-900	A	38	37.905	UX-900, UX-900S, UX-900C
		B	33.5	33.422	
194-287-4	UX-1000	A	39.69	39.595	UX-1000, UX-1000S, UX-1000C
		B	36.514	36.402	
194-287-6	UX-1300	A	46	45.905	UX-1300, UX-1300S
		B	41	40.91	
195-287-6	UX-1600	A	55	54.905	UX-1600, UX-1620
		B	48	47.923	
195-287-9	UX-1800	A	58	57.9	UX-1800, UX-1820, UXR-1820
		B	49	48.923	
194-287-8	UX-2000	A	70	69.9	UX-2000, UX-2000S
		B	56	55.9	UXR-2000, UXR-2000S
176-287-5	UXR-2400S	A	86	85.915	UXR-2400S
		B	62	61.9	
175-287-2	UXR-3000S	A	84	83.915	UXR-3000S
		B	65	64.9	

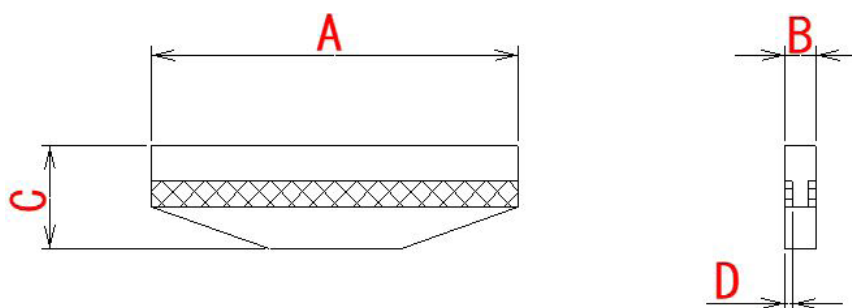
Rotor Repair Limits: Alpha Series



Observe parts for deformities

CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
161-287-3	ALPHA-45S	A	35	34.93	ALPHA-45, ALPHA-45S
		B	20	19.918	
174-287-0	ALPHA-50	A	38	37.925	ALPHA-50, ALPHA-50S
		B	22	21.918	
174-287-8	ALPHA-60	A	45	44.925	ALPHA-60, ALPHA-60S ALPHA-61, ALPHA-61GS ALPHA-61GA
		B	22	21.918	
147-287-3	ALPHA-L61	A	38	37.925	ALPHA-L61
		B	23.5	23.418	
164-287-0	ALPHA-70	A	41	40.92	ALPHA-70, ALPHA-70S ALPHA-70C, ALPHA-70CH
		B	27.5	27.426	
163-287-0	ALPHA-80	A	41	40.92	ALPHA-80
		B	30	29.924	
172-287-0	ALPHA-80K	A	43	42.92	ALPHA-80K
		B	32	31.918	
173-287-0	ALPHA-90	A	43	42.92	ALPHA-90
		B	32	31.918	
173-287-5	ALPHA-90K	A	43	42.92	ALPHA-90K
		B	32	31.918	
169-287-0	ALPHA-90E	A	45	44.92	ALPHA-90E
		B	30	29.918	
163-287-2	ALPHA-100	A	43	42.92	ALPHA-100
		B	36	35.918	
163-287-3	ALPHA-130	A	52	51.92	ALPHA-130
		B	40	39.918	
163-287-4	ALPHA-140	A	52	51.92	ALPHA-140
		B	46	45.918	
163-287-5	ALPHA-160	A	58	57.92	ALPHA-160
		B	46	45.923	
163-287-6	ALPHA-180	A	63	62.92	ALPHA-180
		B	48	47.923	

Motor Blade Repair Limits: U, UX Series

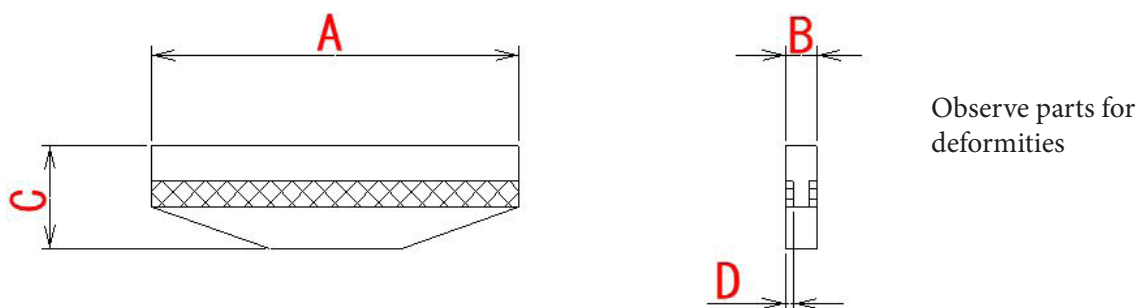


Observe parts for deformities

CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
196-288-6	U-310SD	A	20	19.5	U-310SD
		B	1.5	1.3	
		C	5.7	5.2	
		D	-----	0.1	
197-288-6	U-400S	A	38	37.5	U-410D, U-410SD UX-450, UX-450S UX-622
		B	1.5	1.3	
		C	7.7	7.2	
		D	-----	0.1	
004-288-1	UW-6SL	A	42	41.5	U-501, U-500S, U-500C
		B	2	1.8	
		C	8.5	8.0	
		D	-----	0.1	
010-288-1	UW-6S	A	31.75	31.25	U-610, U-610S, U-610C
		B	2	1.8	
		C	10.2	9.7	
		D	-----	0.1	
018-288-1	UW-6SH	A	36	35.5	U-700, U-700S, U-700C
		B	2.5	2.3	
		C	11.3	10.8	
		D	-----	0.1	
031-288-1	UW-8SH	A	38	37.5	U-800, U-800S, U-800C
		B	2.5	2.3	
		C	11.4	10.9	
		D	-----	0.1	
041-288-1	UW-9S	A	39.69	39.19	U-900, U-900S, U-900C
		B	2.5	2.3	
		C	13.1	12.6	
		D	-----	0.1	
063-288-1	UW-13S	A	46	45.5	U-1000, U-1000S, U-1000C
		B	3	2.8	
		C	15	14.5	
		D	-----	0.1	
189-288-9	U-1301	A	47	46.5	U-1301 UX-1400
		B	4	3.8	
		C	17.2	16.7	
		D	-----	0.1	
177-288-5	UX-500	A	38	37.5	UX-500, UX-500S, UX-500C
		B	1.8	1.6	
		C	17.2	7.2	
		D	-----	0.1	
150-288-9	ALPHA-T60	A	45	44.5	UX-612, UX-612S UX-612C, UX-612A
		B	1.65	1.45	
		C	7.2	6.7	
		D	-----	0.1	
174-288-4	UX-T700	A	36	35.5	UX-700, UX-700S, UX-700C
		B	1.85	1.65	
		C	10.2	9.7	
		D	-----	0.1	

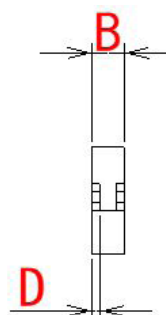
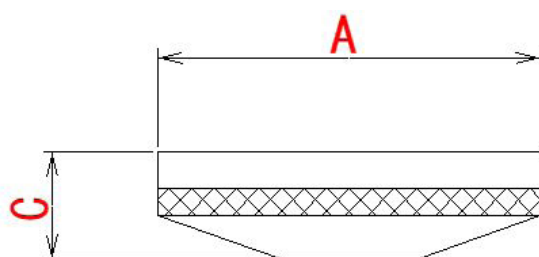
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Motor Blade Repair Limits: U, UX Series (Continued)



CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
167-288-6	UX-T800	A	36	35.5	UX-800, UX-800S, UX-800C
		B	2.35	2.15	
		C	11.3	10.8	
		D	-----	0.1	
168-288-6	UX-T900	A	38	37.5	UX-900, UX-900S, UX-900C
		B	2.35	2.15	
		C	12.2	11.7	
		D	-----	0.1	
175-288-9	UX-T1000	A	39.69	39.19	UX-1000, UX-1000S, UX-1000C
		B	2.35	2.15	
		C	13.1	12.6	
		D	-----	0.1	
194-288-6	UX-1300	A	46	45.5	UX-1300, UX-1300S
		B	3	2.8	
		C	15	14.5	
		D	-----	0.1	
195-288-6	UX-1600	A	55	54.5	UX-1600, UX-1620
		B	4	3.8	
		C	17.5	17	
		D	-----	0.1	
195-288-9	UX-1800	A	58	57.5	UX-1800, UX-1820, UXR-1820
		B	4	3.8	
		C	17.9	17.4	
		D	-----	0.1	
194-288-8	UX-2000	A	70	69.5	UX-2000, UX-2000S UXR-2000, UXR-2000S
		B	5	4.8	
		C	19	18.5	
		D	-----	0.1	
176-288-5	UXR-2400S	A	86	85.5	UXR-2400S
		B	5	4.8	
		C	20.8	20.3	
		D	-----	0.1	
175-288-2	UXR-3000S	A	84	83.5	UXR-3000S
		B	5	4.8	
		C	22.3	21.8	
		D	-----	0.1	

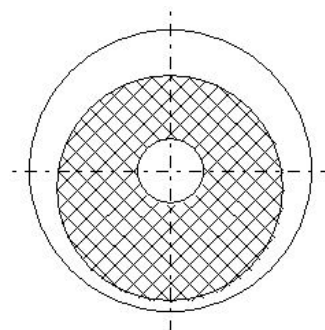
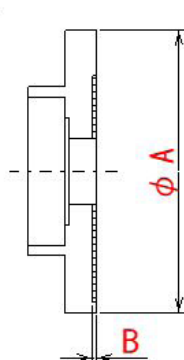
Motor Blade Repair Limits: Alpha Series



Observe parts for deformities

CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
161-288-3	ALPHA-45S	A	35	34.5	ALPHA-45, ALPHA-45S
		B	1.5	1.3	
		C	6.7	6.2	
		D	-----	0.1	
174-288-0	ALPHA-50	A	38	37.5	ALPHA-50, ALPHA-50S
		B	1.8	1.6	
		C	7.2	6.7	
		D	-----	0.1	
174-288-8	ALPHA-60	A	45	44.5	ALPHA-60, ALPHA-60S ALPHA-61, ALPHA-61GS ALPHA-61GA
		B	1.8	1.6	
		C	7.2	6.7	
		D	-----	0.1	
147-288-2	ALPHA-L61	A	38	37.5	ALPHA-L61
		B	1.65	1.45	
		C	8.3	7.8	
		D	-----	0.1	
164-288-0	ALPHA-70	A	41	40.5	ALPHA-70, ALPHA-70S ALPHA-70C, ALPHA-70CH ALPHA-80
		B	2	1.8	
		C	9	8.5	
		D	-----	0.1	
173-288-0	ALPHA-90	A	43	42.5	ALPHA-80K ALPHA-90, ALPHA-90K ALPHA-100
		B	2.5	2.3	
		C	10.7	10.2	
		D	-----	0.1	
169-288-0	ALPHA-90E	A	45	44.5	ALPHA-90E
		B	2.5	2.3	
		C	9.8	9.3	
		D	-----	0.1	
163-288-3	ALPHA-130	A	52	51.5	ALPHA-130, ALPHA-140
		B	3	2.8	
		C	14.1	13.6	
		D	-----	0.1	
163-288-5	ALPHA-160	A	58	57.5	ALPHA-160
		B	3	2.8	
		C	14.1	13.6	
		D	-----	0.1	
163-288-6	ALPHA-180	A	63	62.5	ALPHA-180
		B	3	2.8	
		C	14.6	14.1	
		D	-----	0.1	

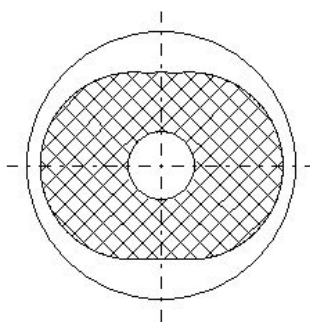
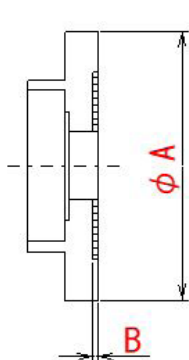
Front Motor Plate Repair Limits: U, UX Series



Observe parts for deformities

CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
196-289-8	U-310SD	A	26	25.98	U-310SD
		B	-----	0.05	
197-289-6	U-400S	A	30	29.98	U-410D, U-410SD
		B	-----	0.05	
190-289-0	UX-620	A	37	36.97	U-501
		B	-----	0.05	
198-289-5	U-500S	A	37	36.97	U-500S, U-500C
		B	-----	0.05	
185-289-7	U-610T	A	41.297	41.987	U-610, U-610S, U-610C
		B	-----	0.05	
026-289-7	UW-6SHARK	A	46.0295	46.017	U-700
		B	-----	0.05	
193-289-7	U-700S	A	46.02	46.01	U-700S, U-700C
		B	-----	0.05	
187-289-3	U-800T	A	48.0295	48.017	U-800, U-800S, U-800C
		B	-----	0.05	
188-289-9	U-900T	A	54.012	53.994	U-900, U-900S, U-900C
		B	-----	0.05	
199-289-3	U-1000T	A	60.035	60.02	U-1000, U-1000S, U-1000C
		B	-----	0.05	
189-289-4	U-1301T	A	69.035	69.02	U-1301
		B	-----	0.05	
182-289-2	UX-450	A	33	32.97	UX-1400, UX-1600, UX-1620
		B	-----	0.05	
177-289-3	UX-450S	A	30	29.97	UX-450, UX-500, UX-500S
		B	-----	0.05	
177-289-9	UX-500C	A	33	32.97	UX-612, UX-612S
		B	-----	0.05	
190-289-6	UX-620	A	37	36.97	UX-450S
		B	-----	0.05	
194-289-0	UX-700	A	42.5295	42.517	UX-500C, UX-612C
		B	-----	0.05	
180-289-4	UX-700S	A	42.5	42.47	UX-620, UX-622
		B	-----	0.05	
194-289-2	UX-800	A	46.0295	46.017	UX-700
		B	-----	0.05	
180-289-6	UX-800S	A	46.026	46.017	UX-700S, UX-700C
		B	-----	0.05	
194-289-3	UX-900	A	50.0295	50.017	UX-800
		B	-----	0.05	
194-289-4	UX-1000	A	54.012	53.997	UX-800S, UX-800C
		B	-----	0.05	
194-289-6	UX-1300	A	60.035	60.02	UX-900, UX-900S, UX-900C
		B	-----	0.05	
195-289-9	UX-1800	A	72.035	72.02	UX-1000, UX-1000S, UX-1000C
		B	-----	0.05	
194-289-8	UX-2000	A	80.035	80.02	UX-1300, UX-1300S
		B	-----	0.05	
176-289-5	UXR-2400S	A	90.0405	90.023	UX-1800, UX-1820, UXR-1820
		B	-----	0.05	
175-289-2	UXR-3000S	A	96.0405	96.023	UX-2000, UX-2000S
		B	-----	0.05	
					UXR-2000, UXR-2000S
					UXR-2400S
					UXR-3000S

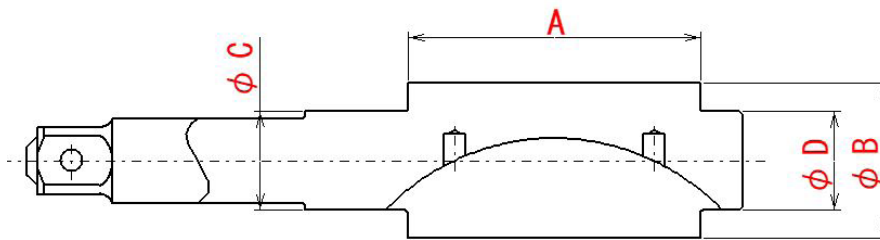
Front Motor Plate Repair Limits: Alpha Series



Observe parts for deformities

CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
162-289-8	ALPHA-45	A	30	29.97	ALPHA-45
		B	-----	0.05	
161-289-3	ALPHA-45S	A	30	29.97	ALPHA-45S
		B	-----	0.05	
174-289-0	ALPHA-50	A	33	32.97	ALPHA-50 ALPHA-60, ALPHA-61 ALPHA-61GS, ALPHA-61GA
		B	-----	0.05	
161-289-6	ALPHA-50S	A	33	32.97	ALPHA-50S ALPHA-60S
		B	-----	0.05	
147-289-2	ALPHA-L61	A	33	32.97	ALPHA-L61
		B	-----	0.05	
164-289-0	ALPHA-70	A	39.5	39.47	ALPHA-70
		B	-----	0.05	
162-289-0	ALPHA-70S	A	39.5	39.47	ALPHA-70S ALPHA-70C ALPHA-70CH
		B	-----	0.05	
163-289-0	ALPHA-80	A	43	42.97	ALPHA-80
		B	-----	0.05	
173-289-0	ALPHA-90	A	47	46.97	ALPHA-80K, ALPHA-90 ALPHA-90K, ALPHA-90E
		B	-----	0.05	
163-289-2	ALPHA-100	A	51	50.97	ALPHA-100
		B	-----	0.05	
163-289-3	ALPHA-130	A	57	56.97	ALPHA-130
		B	-----	0.05	
163-289-4	ALPHA-140	A	64	63.97	ALPHA-140
		B	-----	0.05	
163-289-5	ALPHA-160	A	64	63.97	ALPHA-160
		B	-----	0.05	
163-289-6	ALPHA-180	A	69	68.97	ALPHA-180
		B	-----	0.05	

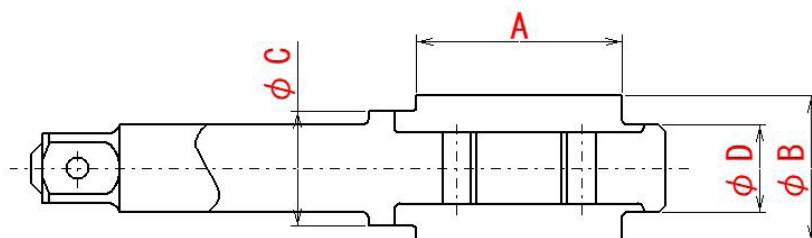
Anvil Repair Limits: U Series



Observe parts for deformities

CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
196-350-6	U-310SD	A	30	29.95	U-310SD
		B	12	11.94	
		C	9.1	9.06	
		D	8	7.95	
197-350-6	U-410SD	A	30	29.95	U-410D, U-410SD
		B	16	15.94	
		C	11.1	11.06	
		D	8	7.95	
198-319-1	U-500	A	30	29.96	U-501, U-500S, U-500C
		B	19	18.935	
		C	12.3	12.24	
		D	12	11.95	
185-319-1	U-610	A	31	30.96	U-610, U-610S, U-610C
		B	22	21.935	
		C	14	13.96	
		D	14	13.95	
186-319-1	U-700	A	41	40.96	U-700, U-700S, U-700C
		B	22	21.935	
		C	14	13.96	
		D	14	13.95	
187-319-1	U-800	A	40	39.96	U-800, U-800S, U-800C
		B	23	22.95	
		C	14.85	14.81	
		D	14	13.95	
188-319-2	U-900	A	40	39.96	U-900, U-900S, U-900C
		B	28	27.935	
		C	15.875	15.835	
		D	14	13.95	
199-319-2	U-1000	A	51	50.96	U-1000, U-1000S, U-1000C
		B	31	30.935	
		C	17.2	17.15	
		D	15	14.95	
189-319-2	U-1300	A	43	42.945	U-1301
		B	38	37.935	
		C	20.9	28.5	
		D	18	17.95	

Anvil Repair Limits: UX, Alpha Series

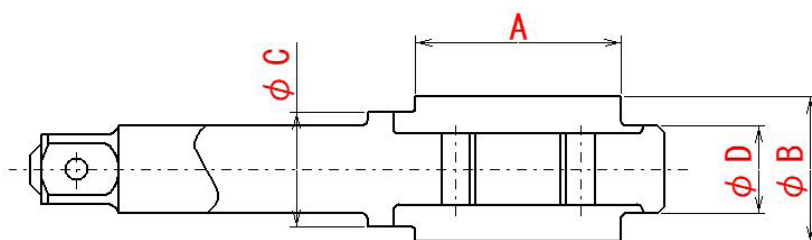


Observe parts for deformities

CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
177-319-2	UX-500	A	21	20.95	UX-450, UX-450S
		B	18	17.91	UX-500, UX-500S, UX-500C
		C	12	11.94	ALPHA-45, ALPHA-45S
		D	12	11.96	ALPHA-50, ALPHA-50S
178-319-8	UX-612	A	26	25.95	UX-612, UX-612S
		B	18	17.925	UX-612C, UX-622
		C	12	11.94	ALPHA-60, ALPHA-60S
		D	12	11.96	
194-319-0	UX-700	A	28	27.95	UX-700, UX-700S, UX-700C
		B	20	19.94	ALPHA-70, ALPHA-70S
		C	15.9	15.86	ALPHA-70C, ALPHA-70CH
		D	12	11.96	
194-319-2	UX-800	A	35	34.95	UX-800, UX-800S, UX-800C
		B	20	19.94	
		C	15.9	15.86	
		D	12	11.96	
194-319-3	UX-900	A	30	29.95	UX-900, UX-900S, UX-900C ALPHA-90, ALPHA-90E
		B	23	22.94	
		C	19.9	19.86	
		D	15	14.95	
194-319-4	UX-1000	A	32	31.95	UX-1000, UX-1000S, UX-1000C ALPHA-100
		B	26	25.94	
		C	19.9	19.86	
		D	16	15.96	
194-319-6	UX-1300	A	40	39.95	UX-1300, UX-1300S ALPHA-130
		B	26	25.94	
		C	19.9	19.86	
		D	16	15.96	
195-319-2	UX-1400	A	40	39.95	UX-1400
		B	31	30.915	
		C	24.72	24.68	
		D	17	16.96	
195-319-5	UX-1600	A	45	44.95	UX-1600
		B	31	30.915	
		C	24.72	24.68	
		D	17	16.96	
199-319-6	UX-1620	A	45	44.95	UX-1620
		B	31	30.915	
		C	25.2	25.15	
		D	17	16.96	
195-319-8	UX-1800	A	45	44.95	UX-1800
		B	38	37.905	
		C	24.72	24.68	
		D	18	17.96	
195-319-7	UX-1820	A	45	44.95	UX-1820
		B	38	37.905	
		C	29.4	29.36	
		D	18	17.96	

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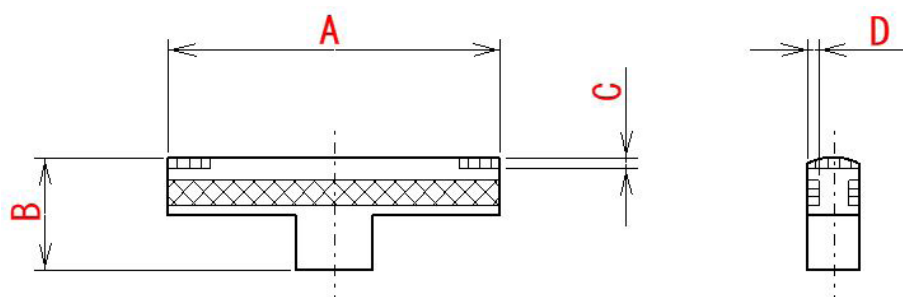
Anvil Repair Limits: UX, Alpha Series (Continued)



Observe parts for deformities

CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
173-319-2	UXR-1820	A	45	44.95	UXR-1820 ALPHA-180
		B	37.7	37.67	
		C	29.4	29.36	
		D	18	17.96	
194-319-9	UX-2000	A	55	54.94	UX-2000, UX-2000S
		B	44	43.78	
		C	36	35.96	
		D	24	23.96	
176-319-0	UXR-2000	A	55	54.94	UXR-2000, UXR-2000S
		B	43.7	43.67	
		C	36	35.96	
		D	24	23.96	
176-319-5	UXR-2400S	A	55	54.94	UXR-2400S
		B	51.7	51.67	
		C	44	43.96	
		D	30	29.96	
175-319-2	UXR-3000S	A	72	71.93	UXR-3000S
		B	57.6	57.57	
		C	48	47.96	
		D	26	25.96	
168-319-0	ALPHA-61	A	26	25.95	ALPHA-61
		B	18	17.925	
		C	15	14.973	
		D	12	11.96	
147-319-2	ALPHA-L61	A	21	20.95	ALPHA-L61
		B	18	17.94	
		C	15	14.973	
		D	12	11.96	
850-899-1	ALPHA-61GS	A	26	25.95	ALPHA-61GS, ALPHA-61GA
		B	18	17.935	
		C	15	14.973	
		D	12	11.96	
163-319-1	ALPHA-80	A	35	34.95	ALPHA-80
		B	20	19.94	
		C	15.875	15.815	
		D	12	11.96	
172-319-0	ALPHA-80K	A	35	34.95	ALPHA-80K
		B	20	19.94	
		C	15.875	15.815	
		D	12	11.96	
173-319-5	ALPHA-90K	A	30	29.95	ALPHA-90K
		B	23	22.94	
		C	19.9	19.86	
		D	15	14.96	
163-319-4	ALPHA-140	A	40	39.95	ALPHA-140
		B	31	30.915	
		C	25.2	25.15	
		D	17	16.96	
163-319-5	ALPHA-160	A	45	44.95	ALPHA-160
		B	31	30.915	
		C	25.2	25.15	
		D	17	16.96	

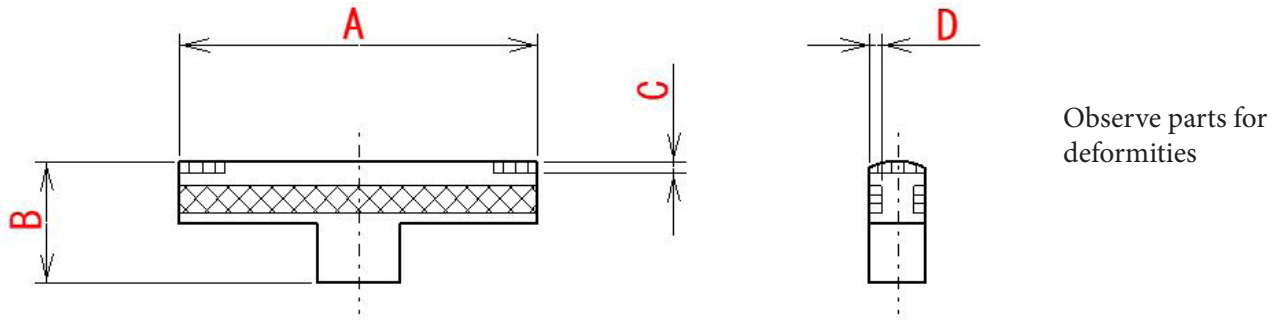
Driving Blade Repair Limits: U Series



Observe parts for deformities

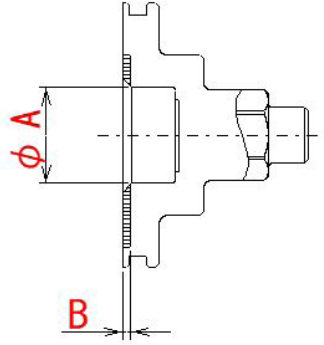
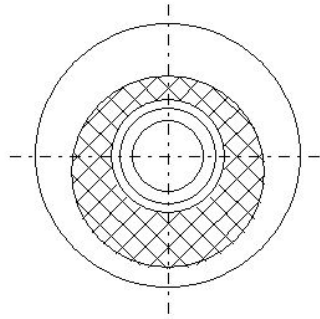
CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
196-440-7	U-310SD	A	30	29.94	U-310SD
		B	8	7.95	
		C	-----	0.05	
		D	-----	0.1	
198-440-1	U-500	A	30	29.95	U-410D, U-410SD U-501, U-500S, U-500C
		B	10	9.95	
		C	-----	0.05	
		D	-----	0.1	
185-440-1	U-610	A	31	30.95	U-610, U-610S, U-610C
		B	12	11.95	
		C	-----	0.05	
		D	-----	0.1	
186-440-1	U-700	A	41	40.95	U-700, U-700S, U-700C
		B	12	11.95	
		C	-----	0.05	
		D	-----	0.1	
187-440-2	U-800	A	40	39.95	U-800, U-800S, U-800C
		B	14	13.95	
		C	-----	0.05	
		D	-----	0.1	
188-440-1	U-900	A	40	39.95	U-900, U-900S, U-900C
		B	15	14.95	
		C	-----	0.05	
		D	-----	0.1	
199-440-1	U-1000	A	51	50.95	U-1000, U-1000S, U-1000C
		B	16	15.95	
		C	-----	0.05	
		D	-----	0.1	
189-440-2	U-1300	A	43	42.95	U-1301
		B	18.5	18.45	
		C	-----	0.05	
		D	-----	0.1	

Driving Blade Repair Limits: UX, Alpha Series



CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
177-440-5	UX-500	A	21	20.945	UX-450, UX-450S, UX-500 UX-500S, UX-500C, ALPHA-45 ALPHA-45S, ALPHA-50 ALPHA-50S, ALPHA-L61
		B	8.7	8.55	
		C	-----	0.05	
		D	-----	0.1	
190-440-6	UX-620	A	26	25.945	UX-612, UX-612S, UX-612C UX-622, ALPHA-60 ALPHA-60S, ALPHA-61 ALPHA-61GS, ALPHA-61GA
		B	8.7	8.55	
		C	-----	0.05	
		D	-----	0.1	
194-440-0	UX-700	A	28	27.95	UX-700, UX-700S, UX-700C ALPHA-70, ALPHA-70S ALPHA-70C, ALPHA-70CH
		B	9.6	9.45	
		C	-----	0.05	
		D	-----	0.1	
194-440-2	UX-800	A	35	34.95	UX-800, UX-800S, UX-800C ALPHA-80, ALPHA-80K
		B	9.4	9.25	
		C	-----	0.05	
		D	-----	0.1	
194-440-3	UX-900	A	30	29.95	UX-900, UX-900S, UX-900C ALPHA-90, ALPHA-90K ALPHA-90E
		B	11.2	11.05	
		C	-----	0.05	
		D	-----	0.1	
194-440-4	UX-1000	A	32	31.95	UX-1000, UX-1000S, UX-1000C ALPHA-100
		B	12.6	12.45	
		C	-----	0.05	
		D	-----	0.1	
194-440-6	UX-1300	A	40	39.95	UX-1300, UX-1300S, UX-1300C ALPHA-130
		B	12.9	12.8	
		C	-----	0.05	
		D	-----	0.1	
195-440-3	UX-1400	A	40	39.95	UX-1400 ALPHA-140
		B	15.2	15.05	
		C	-----	0.05	
		D	-----	0.1	
195-440-6	UX-1600	A	45	44.95	UX-1620, UX-1620 ALPHA-160
		B	15.2	15.05	
		C	-----	0.05	
		D	-----	0.1	
195-440-9	UX-1800	A	45	44.95	UX-1800, UX-1820, UXR-1820 ALPHA-180
		B	17.5	17.35	
		C	-----	0.05	
		D	-----	0.1	
194-440-9	UX-2000	A	55	54.95	UX-2000, UX-2000S UXR-2000, UXR-2000S
		B	20.7	20.55	
		C	-----	0.05	
		D	-----	0.1	
176-440-5	UXR-2400S	A	55	54.95	UXR-2400S
		B	25	24.85	
		C	-----	0.05	
		D	-----	0.1	
175-440-2	UXR-3000S	A	72	71.95	UXR-3000S
		B	26	25.85	
		C	-----	0.05	
		D	-----	0.1	

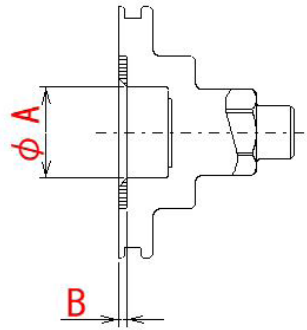
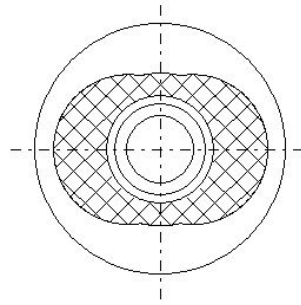
Rear Liner Plate Repair Limits: U Series



Observe parts for deformities

CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
196-901-6	U-310SD	A	8	8.02	U-310SD
		B	-----	0.01	
197-901-7	U-400S	A	8	8.02	U-410D, U-410SD
		B	-----	0.01	
198-901-1	U-500	A	12	12.023	U-501, U-500S, U-500C
		B	-----	0.01	
185-901-1	U-610	A	14	14.023	U-610, U-610S, U-610C U-700, U-700S, U-700C
		B	-----	0.01	
187-901-1	U-800	A	14	14.023	U-800, U-800S, U-800C
		B	-----	0.01	
188-901-1	U-900	A	14	14.023	U-900, U-900S, U-900C
		B	-----	0.01	
199-901-1	U-1000	A	15	15.023	U-1000, U-1000S, U-1000C
		B	-----	0.01	
189-901-8	U-1301	A	18	18.023	U-1301
		B	-----	0.01	

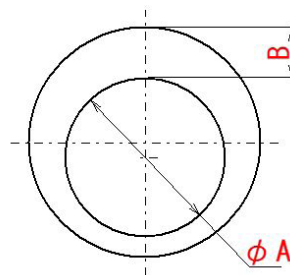
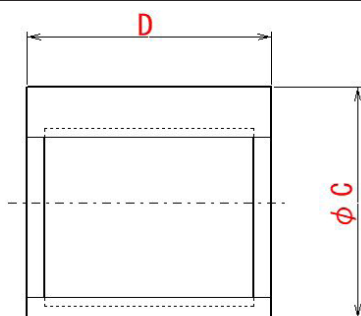
Rear Liner Plate Repair Limits: UX, Alpha Series



Observe parts for deformities

CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
196-901-4	UX-602	A	12.02	12.043	UX-450, UX-450S UX-500, UX-500S, UX-500C UX-612, UX-612S, UX-612C ALPHA-45, ALPHA-45S ALPHA-50, ALPHA-50S ALPHA-60, ALPHA-60S ALPHA-61, ALPHA-61GS ALPHA-61GA
		B	-----	0.01	
190-901-6	UX-620	A	12.02	12.043	UX-622
		B	-----	0.01	
147-901-2	ALPHA-L61	A	12	12.023	ALPHA-L61
		B	-----	0.01	
194-901-0	UX-700	A	12	12.023	UX-700, UX-700S, UX-700C ALPHA-70, ALPHA-70S ALPHA-70C, ALPHA-70CH
		B	-----	0.01	
194-901-2	UX-800	A	12	12.023	UX-800, UX-800S, UX-800C ALPHA-80, ALPHA-80K
		B	-----	0.01	
194-901-3	UX-900	A	15	15.023	UX-900, UX-900S, UX-900C ALPHA-90, ALPHA-90K ALPHA-90E
		B	-----	0.01	
194-901-4	UX-1000	A	16	16.023	UX-1000, UX-1000S, UX-1000C ALPHA-100
		B	-----	0.01	
194-901-6	UX-1300	A	16	16.023	UX-1300, UX-1300S ALPHA-130
		B	-----	0.01	
195-901-3	UX-1400	A	17	17.023	UX-1400, UX-1600, UX-1620 ALPHA-140, ALPHA-160
		B	-----	0.01	
195-901-9	UX-1800	A	18	18.023	UX-1800, UX-1820 UXR-1820, ALPHA-180
		B	-----	0.01	
194-901-8	UX-2000	A	24	24.026	UX-2000, UX-2000S UXR-2000, UXR-2000S
		B	-----	0.01	
176-901-5	UXR-2400S	A	30	30.026	UXR-2400S
		B	-----	0.01	
175-901-2	UXR-3000S	A	26	26.026	UXR-3000S
		B	-----	0.01	

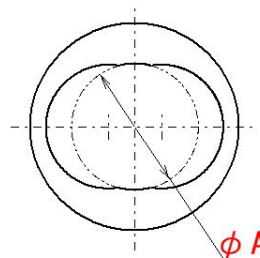
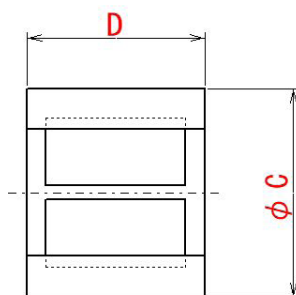
Liner Repair Limits: U Series



Observe parts for deformities

CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
196-902-6	U-310SD	A	15	15.028	U-310SD
		B	5	4.975	
		C	22	21.985	
		D	30	29.99	
191-902-6	U-410SD	A	20	20.031	U-410D, U-410SD
		B	6	5.975	
		C	28	27.985	
		D	30	29.99	
198-902-1	U-500	A	23	23.031	U-501, U-500S, U-500C
		B	8	7.975	
		C	35	34.985	
		D	30	29.99	
185-902-1	U-610	A	27	27.031	U-610, U-610S, U-610C
		B	8.5	8.475	
		C	39	38.985	
		D	31	30.99	
186-902-1	U-700	A	27	27.031	U-700, U-700S, U-700C
		B	8.5	8.475	
		C	39	38.985	
		D	41	40.99	
187-902-1	U-800	A	29	29.031	U-800, U-800S, U-800C
		B	10	9.97	
		C	43	42.985	
		D	40	39.99	
188-902-1	U-900	A	34	34.035	U-900, U-900S, U-900C
		B	9.5	9.47	
		C	47	46.985	
		D	40	39.99	
199-902-1	U-1000	A	37	37.035	U-1000, U-1000S, U-1000C
		B	9.5	9.47	
		C	50	49.985	
		D	51	50.99	
189-902-2	U-1300	A	46	46.035	U-1301
		B	11.5	11.47	
		C	61	60.985	
		D	43	42.99	

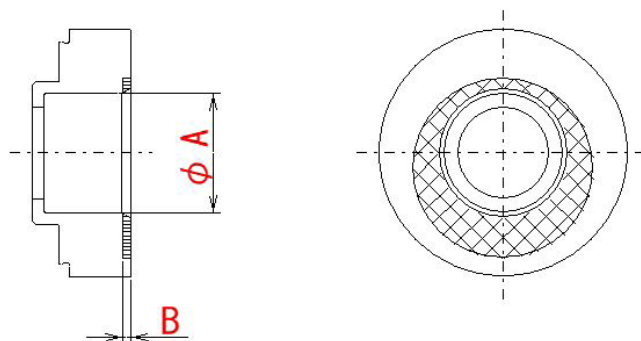
Liner Repair Limits: UX, Alpha Series



Observe parts for deformities

CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
177-902-5	UX-500	A	18	18.015	UX-450, UX-450S UX-500, UX-500S, UX-500C ALPHA-45, ALPHA-45S ALPHA-50, ALPHA-50S ALPHA-L61
		C	29	28.985	
		D	21	20.99	
190-902-6	UX-620	A	18	18.015	UX-612, UX-612S UX-612C, UX-622 ALPHA-60, ALPHA-60S ALPHA-61, ALPHA-61GS ALPHA-61GA
		C	29	28.985	
		D	26	25.99	
194-902-1	UX-700	A	20	20.015	UX-700, UX-700S, UX-700C ALPHA-70, ALPHA-70S ALPHA-70C, ALPHA-70CH
		C	33	32.985	
		D	28	27.99	
194-902-2	UX-800	A	20	20.015	UX-800, UX-800S, UX-800C ALPHA-80, ALPHA-80K
		C	38.5	38.485	
		D	35	34.99	
194-902-3	UX-900	A	23	23.015	UX-900, UX-900S, UX-900C ALPHA-90, ALPHA-90K ALPHA-90E
		C	41.5	41.485	
		D	30	29.99	
194-902-4	UX-1000	A	26	26.015	UX-1000, UX-1000S, UX-1000C ALPHA-100
		C	46	45.985	
		D	32	31.99	
194-902-6	UX-1300	A	26	26.015	UX-1300
		C	46	45.985	
		D	40	39.99	
195-902-3	UX-1400	A	31	31.03	UX-1400
		C	51	50.985	
		D	40	39.99	
195-902-6	UX-1600	A	31	31.03	UX-1600, UX-1620
		C	51	50.985	
		D	45	44.99	
195-902-9	UX-1800	A	38	38.03	UX-1800, UX-1820, UXR-1820
		C	60	59.985	
		D	45	44.99	
194-902-8	UX-2000	A	44	44.03	UX-2000, UX-2000S UXR-2000, UXR-2000S
		C	70	69.985	
		D	55	54.99	
176-902-5	UXR-2400S	A	52	52.03	UXR-2400S
		C	80	79.985	
		D	55	54.99	
175-902-2	UXR-3000S	A	58	58.03	UXR-3000S
		C	88	87.985	
		D	72	71.99	
166-902-3	UX-T1300	A	26	26.015	ALPHA-130
		C	46	45.985	
		D	40	39.99	
175-902-9	UX-T1400	A	31	31.03	ALPHA-140
		C	51	50.985	
		D	40	39.99	
172-902-5	UX-T1620	A	31	31.03	ALPHA-160
		C	51	50.985	
		D	45	44.99	
172-902-2	UXR-T1820	A	38	38.03	ALPHA-180
		C	60	59.985	
		D	45	44.99	

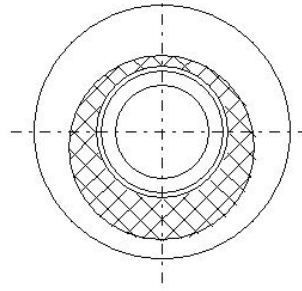
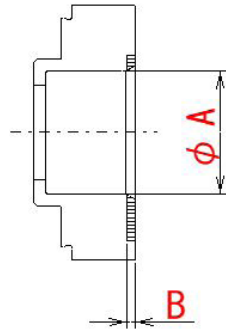
Front Liner Plate Repair Limits: U Series



Observe parts for deformities

CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
196-904-6	U-310SD	A	9.1	9.12	U-310SD
		B	-----	0.01	
191-904-6	U-410SD	A	11.1	11.123	U-410D, U-410SD
		B	-----	0.01	
198-904-1	U-500	A	12.3	12.323	U-501, U-500S, U-500C
		B	-----	0.01	
185-904-1	U-610	A	14	14.023	U-610, U-610S, U-610C U-700, U-700S, U-700C
		B	-----	0.01	
187-904-1	U-800	A	14.85	14.873	U-800, U-800S, U-800C
		B	-----	0.01	
188-904-2	U-900	A	15.875	15.898	U-900, U-900S, U-900C
		B	-----	0.01	
199-904-1	U-1000	A	17.2	17.223	U-1000, U-1000S, U-1000C
		B	-----	0.01	
189-904-2	U-1300	A	20.9	20.926	U-1301
		B	-----	0.01	

Front Liner Plate Repair Limits: UX, Alpha Series



Observe parts for deformities

CODE NO.	MOTHER MODEL	STANDARD DIMENSION		REPAIR LIMIT	MODEL
178-904-8	UX-612	A	12	12.023	UX-450, UX-450S, UX-500 UX-500S, UX-500C, UX-612 UX-612S, UX-612C, UX-622 ALPHA-45, ALPHA-45S ALPHA-50, ALPHA-50S ALPHA-60, ALPHA-60S
194-904-0	UX-700	A	15.9	15.923	UX-700, UX-700S, UX-700C ALPHA-70, ALPHA-70S ALPHA-70C, ALPHA-70CH
		B	-----	0.01	
194-904-2	UX-800	A	15.9	15.923	UX-800, UX-800S, UX-800C
		B	-----	0.01	
194-904-3	UX-900	A	19.9	19.926	UX-900, UX-900S, UX-900C ALPHA-90, ALPHA-90K ALPHA-90E
		B	-----	0.01	
194-904-4	UX-1000	A	19.9	19.926	UX-1000, UX-1000S, UX-1000C UX-1300, UX-1300S, ALPHA-100
		B	-----	0.01	
195-904-3	UX-1400	A	24.72	24.746	UX-1400, UX-1600
		B	-----	0.01	
199-904-6	UX-1620	A	25.2	25.226	UX-1620
		B	-----	0.01	
195-904-9	UX-1800	A	24.72	24.746	UX-1800
		B	-----	0.01	
195-904-7	UX-1820	A	29.4	29.426	UX-1820, UXR-1820
		B	-----	0.01	
176-904-0	UXR-2000	A	36	36.03	UX-2000, UX-2000S UXR-2000, UXR-2000S
		B	-----	0.01	
176-904-5	UXR-2400S	A	39.6	39.63	UXR-2400S
		B	-----	0.01	
175-904-2	UXR-3000S	A	39.6	39.63	UXR-3000S
		B	-----	0.01	
168-904-0	ALPHA-61	A	15	15.023	ALPHA-61, ALPHA-L61 ALPHA-61GS, ALPHA-61GA
		B	-----	0.01	
163-904-1	ALPHA-80	A	15.875	15.898	ALPHA-80, ALPHA-80K
		B	-----	0.01	
175-904-7	UX-T1000	A	19.9	19.926	ALPHA-130
		B	-----	0.01	
172-904-5	UX-T1620	A	25.2	25.226	ALPHA-140
		B	-----	0.01	
163-904-5	ALPHA-160	A	25.2	25.226	ALPHA-160
		B	-----	0.01	
163-904-6	ALPHA-180	A	29.4	29.426	ALPHA-180
		B	-----	0.01	



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