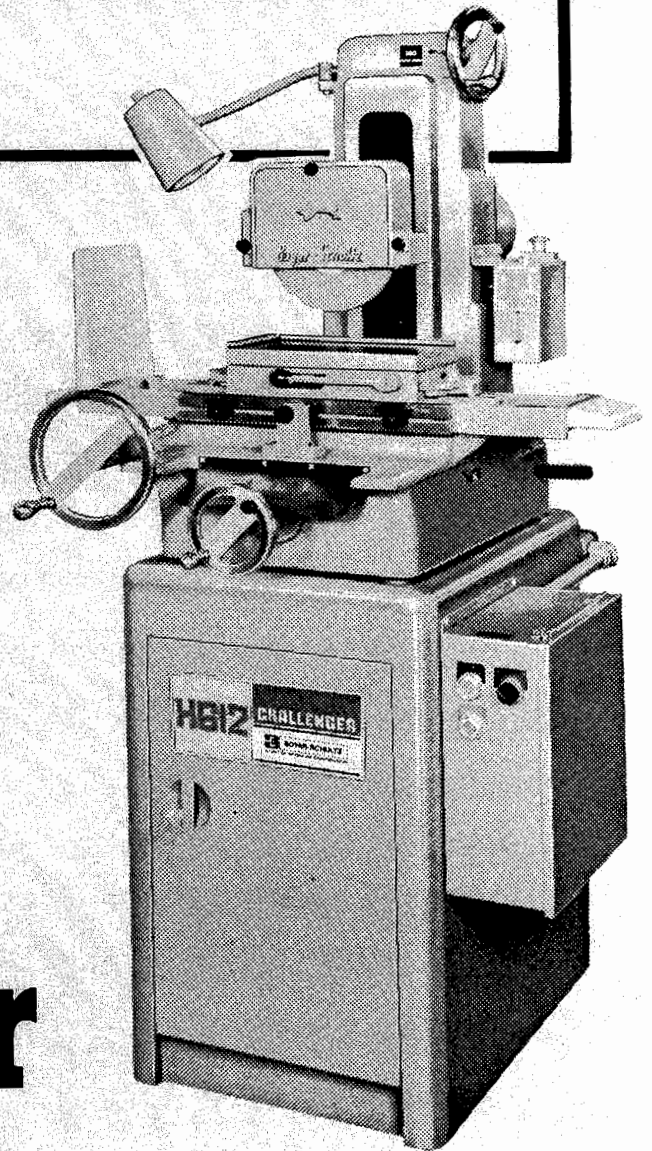


**Replacement Parts List for use with  
Challenger Surface Grinders,  
Manual of Instruction and Specifications**



# **Challenger**

**SURFACE GRINDER**

**BOYAR-SCHULTZ**

REPLACEMENT PARTS  
LIST

Effective 1/1/74

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Replacement Parts List

Item	Part Number	Description	Qty.
1	101948	Guard, Wheel	1
2	101561	Cover	1
3	3821-B	Insert, Heli-Coil	1
4	2078	Screw, Soc Cap	1
5	101568	Hinge	1
6	70928	Screw, Soc Flat	4
7	101575	Screw, Thumb	1
7	3325	Wrench, Mounting	1
8	15184	Ring, Retaining	1
9	3998-A	Strip, Rubber	1
10	3779-A	Puller, Wheel	1
16	4000	Adapter, Wheel	1
46	3086	Nut, Outer	1

NOTE: Indicate Machine Serial Number & Model When Ordering Replacement Parts

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Replacement Parts List

Item	Part Number	Description	Qty.
44	3505-D	Housing, Spindle	1
45	3557-A	Shaft, Spindle	1
50	3559	Cap, Dust	1
51	3815-A	Ring, "O"	1
52	3816-A	Screw, Soc Set	1
53	3814-A	Ring, Retaining	1
54	3612-B	Bearing, Front	1
55	101905	Spacer, Bearing	1
56	3617	Washer, Lock	1
57	3615	Nut, Lock	1
58	3874-A	Ring, Retaining	1
59	3553-A	Spring, Pre-Load	1
60	3613-B	Bearing, Rear	1
61	3310	Washer, Lock	1
62	1102	Nut, Lock	1
63	3560-A	Gasket	1
64	3800	Cap, Dust	1
65	3801-A	Cap, Dust	1
66	3665	Screw, Soc Set	1
67	3368	Screw, Soc Cap	3

NOTE: Indicate Machine Serial Number & Model When Ordering Replacement Parts

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Item	Part Number	Description	Qty.
2	3832-B	Shield, Dust	1
4	3844-B	Shield, Dust	1
5	3514-B	Cover, Way	4
6	3797	Stop, Table	1
7	3703-C	Apron, Dust	1
13	17400	Handwheel, Crossfeed	1
15	8509	Washer	3
19	3531	Indicator, Crossfeed	1
20	3662-A	Screw, Soc Button	2
21	3867	Plug, Friction	2
22	3868	Spring, Friction	1
24	3542-E	Key, Table	1
26	3580	Cover, Screw	2
27	3543	Clamp, Bellows	2
28	3777	Screw, Round Head	2
29	3683-A	Nut, Square	2
32	3746	Collar, Front	1
39	3845-B	Cover, Dust	1
47	3512	Housing, Crossfeed	1
48	3532-A	Washer	1
49	3607	Bearing, Needle	1
51	3726	Nut, Lock	1

NOTE: Indicate Machine Serial Number & Model When Ordering Replacement Parts

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REPLACEMENT PARTS  
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Item	Part Number	Description	Qty.
52	3727	Washer, Lock	1
53	3618	Bearing, Ball	1
54	3534-A	Screw, Crossfeed	1
56	3535-A	Bushing, Screw	1
57	3732	Nut, Bushing	1
58	3733	Washer, Lock	1
59	3633	Felt, Oiling	1

NOTE: Indicate Machine Serial Number & Model When Ordering Replacement Parts

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Item	Part Number	Description	Qty.
18	3500-8	Handwheel, Table (612)	1
18	17000-5	Handwheel, Table (618)	1
60	3609	Bearing, Needle	2
61	3529-B	Gear, Table	1
62	3812-B	Pin, Taper	1
63	3525-B	Rod, Torsion	1
64	9500-14	Bearing, Table	2
65	3500-5	Housing, Torsion	1
66	4399	Ring, "O"	6
68	9705-A	Retainer, Bearing	1
69	3622	Retainer, Oil	1
	3530	Rack Table	1

**NOTE:** Indicate Machine Serial Number & Model When Ordering Replacement Parts

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REPLACEMENT PARTS  
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Replacement Parts List

Item	Part Number	Description	Qty.
18	17000-5	Handwheel, Table	1
60	3609	Bearing, Needle	2
61	3529-B	Gear, Table	1
62	3812-B	Pin, Taper	1
63	3525-B	Rod, Torsion	1
64	9500-14	Bearing, Table	2
65	9704	Housing, Torsion	1
66	4399	Ring, "O"	6
68	9705-A	Retainer, Bearing	1
137	9703	Spacer, Bearing	1
143	9707	Ring, Retaining	2
145	9713	Spacer, Torsion	2
146	9714-A	Ring, "O"	1
148	9710	Pin, Disengage	1
	17010	Rack Table	1

NOTE: Indicate Machine Serial Number &amp; Model When Ordering Replacement Parts

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Item	Part Number	Description	Qty.
4	3608	Bearing, Needle	2
5	3619-B	Spring	1
6	3521-A	Plug	1
7	3668-A	Screw, Soc Set	1
10	17408	Handwheel, Elevating	1
21	3629-A	Race, Thrust	2
22	3630-A	Bearing, Thrust	1
23	3564-A	Collar, Screw	1
34	3520	Pointer, Elevating	1
41	3539-A	Pinion, Elevation	1
42	3677	Pin, Taper	1
43	3541	Shaft, Elevation	1
71	3540	Collar, Handwheel	1
74	3536-B	Screw Elevating	1
	3537-A	Elevating Screw Bushing	
75	3538-A	Gear, Bevel	1
76	3611-A	Bearing	1
77	55025	Screw, Soc Cap	1
78	1105	Key	1
92	3527-A	Screw, Retainer	1
36	3718	Screw Thumb	1
37	3717	Rod Locking	1

NOTE: Indicate Machine Serial Number &amp; Model When Ordering Replacement Parts



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Item	Part Number	Description	Qty.
35	3587	Screw, Gib	1
152	70848	Block, Mounting	1
153	70849	Lever, Locking	1
154	70850	Screw, Locking	1
155	70851	Knob, Locking	1
158	70852	Pin, Locking	1

NOTE: Indicate Machine Serial Number & Model When Ordering Replacement Parts

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Item	Part Number	Description	Qty.
5	9654	Ring "O"	2
12	4399	Ring "O"	1
13	9559	Cup, Piston	2
14	9553-A	Bearing, Rod	1
15	4400	Ring "O"	1
17	9653-A	Seal, Oil	1

**NOTE:** Indicate Machine Serial Number & Model When Ordering Replacement Parts

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Item	Part Number	Description	Qty.
9	9509-B	Head Pilot	1
9	9650	Ring, "O"	2
10	9512	Washer, Thrust	1
12	4399	Ring, "O"	2
13	9606	Gasket, Body	1
17	4403	Ring, "O"	1
18	4407	Rollpin	1
19	4402	Ring, "O"	1

NOTE: Indicate Machine Serial Number &amp; Model When Ordering Replacement Parts

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REPLACEMENT PARTS  
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Replacement Parts List

Item	Part Number	Description	Qty.
9	9650	Ring, "O"	3
12	4399	Ring, "O"	5

NOTE: Indicate Machine Serial Number & Model When Ordering Replacement Parts

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Item	Part Number	Description	Qty.
2	69762-B	Combination, Piston	1
6	69788-B	Felt	1
7	4403	Ring, "O"	1
7	69756	Bearing	1
10	69782	Ring, "O"	2
12	70932-A	Ring, "O"	1
13	4399	Ring, "O"	1
14	9650	Ring, "O"	1
15	9653-A	Seal, Oil	1
15	69765	Gasket	1
16	4396	Ring, "O"	1

**NOTE:** Indicate Machine Serial Number & Model When Ordering Replacement Parts

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REPLACEMENT PARTS  
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Replacement Parts List

Item	Part Number	Description	Qty.
7	9600-H	Motor & Pump	1
8	4427	Valve, Relief	1
12	9604-A	Filter, Oil	1
19	9609-C	Hose, Hydraulic	2
64	102363	Filter, Line	1

**NOTE:** Indicate Machine Serial Number & Model When Ordering Replacement Parts