

2-8-4 Berkshire Steam Engine

Engine Parts

Name and Number	Part #	\$Price Per Unit	Name and Number	Part #	\$Price Per Unit
1.) Shell (black, yellow) (boiler)(Virginian)(# 505)	FB-1200266	*150.00	26.) Screw (M3x6.0mm)(roundhead) (for mounting motor to motor mount)	IA-0000016	0.15
Shell (black, yellow) (boiler)(L. & N.)(# 1967)	FB-1200267	*150.00	27.) Set screw (M3x10.0mm) (no screw head)(for mounting flywheel to motor)	IA-0000151	0.15
2.) Handrail (nickel) (right)(cab)(46.0mm long)	FB-1210016	2.00	28.) Screw (4/40x6.0mm)(roundhead) (for mounting PC board to drive block)	IA-0000003	0.15
3.) Handrail (nickel) (left)(cab)(46.0mm long)	FB-1220016	2.00	29.) Drive shaft (black) (plastic)(15.6mm long)(dog bone) (fits between flywheel and worm gear)	EH-1200002	2.00
4.) Handrail (nickel) (right)(boiler)(222.0mm long)	FB-1210017	3.00	30.) Worm gear (50.6mm long)	EH-1200005	6.00
5.) Handrail (nickel) (left)(boiler)(222.0mm long)	FB-1220017	3.00	31.) Bearing (brass)(2.9x5.3x4.6mm) (fits on worm gear shaft)	DC-0000006	3.00
6.) Stanchion (black)(plastic) (3.0mm long)(for mounting boiler handrails)	FB-1200242	0.50	32.) Gear box cover (black) (19.4x34.4x1.0mm)(metal)	BI-0000050	2.00
7.) Whistle (nickel)	FB-1200003	4.00	33.) Gasket (black)(fiber) (for gear box cover)(19.3x33.9x1.5mm)	BI-0000051	1.00
8.) Bell (nickel) (has hole tapped in top of bell)	FB-1200268	4.00	34.) Screw (4/40x8.0mm)(roundhead) (for mounting gear box cover)	IA-0000011	0.15
9.) Bell bracket (black) (for mounting hanging bell)	FB-1200269	3.00	35.) Bracket (black)(wire support) (stamped metal)(runs wires over top of motor)	IH-0000275	4.00
10.) Screw (M2x4.0mm)(roundhead) (for mounting bell bracket)	IA-0000058	0.15	36.) Wire nut (yellow)	BI-4500003	0.25
11.) Lens (clear) (headlight)(3.9x6.0x13.0mm) (1.6x6.8mm lens head)(4 ribs for press fit)	FA-1230001	3.00	37.) Smoke unit (Proto-Sound® 2.0) (6.9x8.0x2.2x3.7mm brass cup)(26.0mm long posts)	AA-0000044	50.00
12.) Lens (green)(marker)	FA-1230002	3.00	38.) Screw (4/40x6.0mm)(roundhead) (for mounting smoke unit to drive block)	IA-0000003	0.15
13.) Lens (red w/ flames) (firebox glow)	FA-0000077	2.00	39.) Bracket (nickel)(w/ socket) (metal)(31.0x24.0x17.9x26.0mm) (for mounting headlight/marker light bulb socket)	IH-0000276	5.00
14.) Screw (6/32x8.0mm)(roundhead) (for mounting shell to drive block)	IA-0000050	0.15	40.) Bulb (clear)(6v)(small globe) (screw base)(for headlight/marker light)	CA-0000038	1.00
15.) Bracket (black)(metal) (11.4x25.0mm)(for mounting fire box glow bulb)	IH-0000274	3.00	41.) Wire harness (115.0mm long wires w/ red male 2 pin plug) (for powering the board on smoke unit)	BC-1200126	2.00
16.) Grommet (black) (4.5x5.0mm)(rubber)(for fire box glow bulb)	IH-0000010	0.50	42.) Wire harness (115.0mm long wires w/ blue male 2 pin plug) (for powering smoke unit fan motor)	BC-1200127	2.00
17.) Bulb (clear)(1)(6v) (50.0mm long wires w/ yellow male 2 pin plug) (fire box glow light bulb)	CG-0000042	2.00	43.) Wire harness (95.0mm long wires w/ yellow male 2 pin plug) (for powering headlight bulb socket)	BC-1200128	2.00
18.) Screw (4/40x4.0mm)(roundhead) (for mounting bracket for firebox glow bulb)	IA-0000021	0.15	44.) Truck (black) (trailing)(2 axle)(engine)	DA-1240016	20.00
19.) PC board (10 pin female plug) (for plugging in tender wire harness)	AG-0000039	8.00	45.) Axle bushing (black) (plastic)(single bushing)(15.0mm long) (for rear 2 axle engine truck)	DC-1200002	2.00
20.) Wire harness (PC board w/ 10 pin female plug) (190.0mm long yellow & white wires w/ 2 ferrite beads) (220.0mm long black wire w/ eyelet) (170.0mm long wire w/ blue female 2 pin plug) (150.0mm long wires w/ black female 2 pin plug) (190.0mm long wires w/ yellow female 2 pin plug) (30.0mm long wires w/ yellow female 2 pin plug) (135.0mm long wires w/ tach board & 1.5mm spacer) (tach board has a tiny resistor on the back of board) (200.0mm long red wire)	BC-1200129	15.00	46.) Ground strap (copper) (mounts on rear 2 axle engine truck)	II-4500002	1.00
21.) Tach board (w/ tiny resistor) (w/ 1.5mm spacer between board & optical sensor)	AG-0000054	6.00	47.) Screw (4/40x4.0mm)(roundhead) (for mounting ground strap to truck)	IA-0000021	0.15
22.) Bracket (black)(plastic) (for tach board mounting)(fits on part # BI-0000052)	IH-0000192	3.00	48.) Pin (black) (4.8x26.0mm)(0.8x8.0mm flat head) (1 e-clip groove 0.8mm out from end and 1 15.0mm) (for mounting rear 2 axle truck to drive block)	IG-0000044	1.00
23.) Motor mount (black) (for motor RS-545RH)(stamped metal)	BI-0000052	6.00	49.) Washer (5.5x10.0x0.5mm) (small washer for mounting rear 2 axle truck)	ID-0000075	0.15
24.) Motor (RS-545RH)(no worm gear)	BE-0000087	25.00	50.) E-clip (3.5x9.0x0.6mm) (for mounting rear 2 axle truck)	IF-0000009	0.15
25.) Flywheel (white w/black stripes) (10.0x30.0mm)(w/ socket for drive shaft)	BE-0000086	5.00			

*Requires Exchange
All parts are priced as each



2-8-4 Berkshire Steam Engine

Engine Parts

Name and Number	Part #	\$Price Per Unit	Name and Number	Part #	\$Price Per Unit
51.) Draw bar (black) (10.6x113.0mm)(7.0mm & 10.0mm steps)	FB-1200068	4.00	77.) Drive block (black)(4 axle)	DF-1200041	*100.00
52.) Spring (nickel) (7.5x13.0x11.0mm)(for mounting rear 2 axle truck)	IE-0000013	0.50	78.) Drive rod guide (nickel) (right)(33.0mm long)(mounts on steam chest)	EA-1210010	3.00
53.) Washer (5.0x15.0x0.5mm) (larger washer for mounting rear 2 axle truck)	ID-0000013	0.15	79.) Drive rod guide (nickel) (left)(33.0mm long)(mounts on steam chest)	EA-1220010	3.00
54.) Screw (6/32x6.0mm)(washer head) (for mounting front of rear 2 axle truck to drive block)	IA-0000214	0.15	80.) Screw (nickel) (6/32x6.0mm)(roundhead) (for mounting drive rod guides)	IA-0000051	0.15
55.) Truck (black)(lead)(1 axle)	DA-1230008	15.00	81.) Motion hanger (black) (stamped metal)(for mounting eccentric rod & assembly)	EA-1250003	3.00
56.) Axle bushing (black) (plastic)(single bushing)(13.7mm long) (same as part # DC-1200002 but is cut down) (for front single axle engine truck)	DC-1200003	2.00	82.) Screw (4/40x6.0mm)(roundhead) (for mounting motion hangers)	IA-0000003	0.15
57.) Bracket (black)(metal) (7.6x43.2mm)(1.0mm thick) (for mounting lead single axle truck to drive block)	IH-1230003	1.00	83.) Side rod (nickel) (106.0mm long)(4 mounting holes)(fits both sides)	EC-1250009	4.00
58.) Pin (black) (4.8x18.0mm)(1.5x7.0mm flathead) (1 e-clip groove 0.7mm out from end) (for mounting front truck to drive block)	IG-0000045	1.00	84.) Bolt (nickel) (M3x9.4mm)(4.0x2.5mm shank) (5.0mm hex head)(for mounting side rods)	IA-0000054	1.00
59.) Spring (nickel) (7.0x12.0mm)(w/ 0.5mm thick wire) (for mounting front single axle truck)	IE-0000060	0.50	85.) Drive rod (nickel) (right)(96.7mm long)(w/ crosshead)	EC-1210012	5.00
60.) E-clip (3.5x9.0x0.6mm) (for mounting front single axle truck)	IF-0000009	0.15	86.) Drive rod (nickel) (left)(96.7mm long)(w/ crosshead)	EC-1220012	5.00
61.) Spacer (black) (3.5x15.0x2.5mm)(metal)(cupped) (for mounting the rear of the front single axle truck)	ID-0000014	1.00	87.) Screw (nickel) (M3x16.0mm)(flathead) (for mounting eccentric assembly & drive rod)	IA-0000052	0.15
62.) Screw (4/40x4.0mm)(washer head) (for mounting the front of the front single axle truck)	IA-0000217	0.15	88.) Sleeve (nickel) (outer)(6.8x10.0x4.4mm) (mounts between drive rod & side rod)	ID-0000059	1.00
63.) Screw (6/32x6.0mm)(washer head) (for mounting the rear of the front single axle truck)	IA-0000214	0.15	89.) Sleeve (nickel) (inner)(5.3x6.5x7.8mm) (mounts between drive rod & side rod)	ID-0000058	1.00
64.) Pilot/steam chest (black)	DG-1230008	30.00	90.) Eccentric assembly (nickel) (right)(46.3mm long rod)	ED-1210012	5.00
65.) Bracket (black)(metal) (11.6x60.4x0.12mm)(mounts under steam chest)	IH-0000277	2.00	91.) Eccentric assembly (nickel) (left)(46.3mm long rod)	ED-1220012	5.00
66.) Screw (4/40x6.0mm)(roundhead) (for mounting bracket to steam chest)	IA-0000003	0.15	92.) Eccentric rod (nickel) (right)(51.5mm long)(5.0mm step)	ED-1210011	2.00
67.) Screw (6/32x8.0mm)(roundhead) (for mounting pilot/steam chest to drive block)	IA-0000050	0.15	93.) Eccentric rod (nickel) (left)(51.5mm long)(5.0mm step)	ED-1220011	2.00
68.) Screw (6/32x4.0mm)(roundhead) (grease screw on bottom of drive block)	IA-0000060	0.15	94.) Screw (nickel) (M2x4.0mm)(roundhead)(w/ 2.0x2.5mm shank)	IA-0000104	0.15
69.) Washer (black)(fiber) (3.0x6.0x0.4mm)(for grease screw)	ID-0000040	0.15	95.) Capacitor (blue) (.01 micro uF)(blue w/ 2 wires)	AI-0000031	2.00
70.) Traction tire (black)(rubber)	DE-0000025	0.75	96.) Ferrite bead (gray) (for Loco-Sound® steam engines)(4.6x9.7x9.4mm)	AI-0000030	2.00
71.) Pick-up (8.0x11.0mm roller)(28.0mm long)	BD-0000048	5.00	97.) Inline Ferrite bead (gray) (for Loco-Sound® steam engines)	AI-0000033	2.00
72.) Insulator (black) (top)(square)(pick-up)(for mounting pick-up)	BD-0000026	2.00			
73.) Screw (4/40x6.0mm)(roundhead) (for mounting top pick-up insulator)	IA-0000003	0.15			
74.) Screw (nickel)(M3x6.0mm) (roundhead)(for mounting pick-up to insulators)	IA-0000015	0.15			
75.) Nut (nickel)(2.5x5.0x10.0mm) (for pick-up, mounts between insulators)	IC-0000005	0.50			
76.) Insulator (black) (pick-up)(bottom)(plastic)(for mounting pick-up)	BD-0000001	2.00			

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2-8-4 Berkshire Steam Engine

Tender Parts

Name and Number	Part #	\$Price Per Unit	Name and Number	Part #	\$Price Per Unit
1.) Shell (black w/ yellow letters) (tender)(Virginian)(# 505)	GA-1200108	*85.00	27.) E-clip (3.0x8.0x0.5mm)(for coupler)	IF-0000001	0.15
Shell (black w/ yellow letters) (tender)(L. & N.)(# 1967)	GA-1200109	*85.00	28.) Axle bushing (black) (plastic)(tender truck)(3 axle)	DC-1200001	3.00
2.) Chassis (black)(tender) (for Loco-Sound™)	GB-1200054	*15.00	29.) Switch (small) (for smoke unit on/off)	BB-0000009	5.00
3.) Handrail (nickel)(tender)(top)	GA-1200017	2.00	30.) Screw (M2x4.0mm)(roundhead) (for mounting smoke unit switch)	IA-0000058	0.15
4.) Stanchion (black) (plastic)(3.0mm long)	FB-1200242	0.50	31.) Volume pot (small) (blue w/ green board)	BI-0000040	5.00
5.) Lens (red)(marker light) (2.2x14.3mm)(1.2x2.7mm lens head)(tender)	FA-0000103	2.00	32.) Spacer (black) (3.0x6.0x4.3mm)(plastic)(for volume pot)	ID-0000071	0.15
6.) Lens (clear)(reverse light) (3.2x6.0mm)(0.7x3.8mm lens head) (4 ribs for press fit)(tender)	FA-0000104	2.00	33.) Screw (M3x8.0mm)(roundhead)(self-drilling) (for mounting volume pot)	IA-0000072	0.15
7.) Bracket (black)(metal) (for mounting bulb for reverse light)(tender)	IH-0000272	3.00	34.) Insulator (clear) (13.0x19.0x0.1mm)(single hole) (for mounting Loco-Sound™ board to bracket)	ID-0000024	0.15
8.) Screw (4/40x6.0mm)(roundhead) (for mounting bracket for reverse light)	IA-0000003	0.15	35.) Insulator (white) (3.0x6.0x3.0mm)(plastic)(washer) (for mounting Loco-Sound™ board to bracket)	ID-0000025	0.15
9.) Bulb (clear) (6v)(135.0mm long wires w/ blue male 2 pin plug) (grain of wheat)(reverse light)(1 bulb)	CF-0000022	2.00	36.) Screw (4/40x6.0mm)(roundhead) (for mounting Loco-Sound™ board to bracket)	IA-0000003	0.15
10.) Wire strap (white)(metal) (sticks to top of speaker cone)	IH-0000103	1.00	37.) Boards (Loco-Sound™)(steam/turbine)	AE-0000003	*100.00
11.) Speaker (STAR) (FR 05004-A0422)(8 ohms)(MAX 0.25 watt)(004E)	BF-0000018	8.95	38.) Bracket (Aluminum)(L-shaped) (for mounting Loco-Sound™ board)	IH-0000278	4.00
12.) Gasket (black) (43.8x49.8x3.0mm)(foam)(attaches to speaker)	IB-0000009	0.50	39.) Screw (M3x4.0mm)(roundhead) (for mounting Loco-Sound™ board bracket to chassis)	IA-0000010	0.15
13.) Speaker cone (black) (44.7x48.3x25.4mm)(plastic)(2 screw hole tabs)	BF-0000026	3.00	40.) Screw (6/32x8.0mm)(roundhead) (for mounting chassis to tender shell)	IA-0000050	0.15
14.) Screw (M3x8.0mm)(roundhead) (for mounting speaker cone)	IA-0000035	0.15	41.) Wire harness (black male 10 pin plug)(tender to engine wire harness) (255.0mm long wires w/ black male 7 pin plug) (black male 7 pin plug w/ 265.0mm long wire w/eyelet) (255.0mm long wires w/ black male 5 pin plug) (210.0mm long wires w/ black male 4 pin plug) (200.0mm long blue wire)	BC-1200130	18.00
15.) Screw (4/40x6.0mm)(roundhead) (for mounting ground wire to rear tender truck)	IA-0000003	0.15	42.) Wire harness (black male 12 pin plug) (100.0mm long pink wire w/ small switch) (170.0mm long wires w/ black female 2 pin plug) (90.0mm long blue wire)(looped yellow wire) (150.0mm long yellow wire) (145.0mm long wires w/ small volume pot)	BC-1200131	15.00
16.) Screw (6/32x6.0mm)(washer head) (for mounting trucks to chassis)	IA-0000214	0.15			
17.) Screw (4/40x6.0mm)(washer head) (for mounting draw bar to front truck)	IA-0000028	0.15			
18.) Draw bar (black) (metal)(12.0x67.0mm)(8.0mm step) (2 mounting holes)(2 coupling holes)	GA-1200110	3.00			
19.) Truck (black) (3 axle)(tender)(lead/trailing)	DA-1200017	30.00			
20.) Ground strap (copper) (4.9x19.5x10.5)(U-shaped)(2 mounting tabs)	II-0000016	2.00			
21.) Screw (4/40x4.0mm)(roundhead) (for mounting copper ground strap)	IA-0000021	0.15			
22.) Coupler (black)(51.5mm long) (centering pin is 36.3mm out from mounting end) (T-bar mounting)(mechanical)	DD-0000039	3.00			
23.) Armature (black) (45.0mm long)(mounts to coupler)	DD-0000040	1.00			
24.) T-bar (black)(plastic)(for coupler)	IG-0000001	0.50			
25.) Spring (nickel) (6.5x11.0mm)(w/ 0.4mm thick wire)(for coupler)	IE-0000007	0.50			
26.) Washer (black)(for coupler) (plastic)(cup shaped for spring to fit in) (4.6x8.5x2.0mm)(inside 7.0x1.0mm)	ID-0000060	0.15			

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