



20-3054-1

R-2 Steam Engine 2-8-8-2

Text Only

Most Requested Parts Only



GL121801



R-2 Steam Engine 2-8-8-2

Boiler Parts

Name and Number	Part #	\$Price Per Unit	Name and Number	Part #	\$Price Per Unit
1.) Screw (4/40x6.0mm)(roundhead)(mounts bracket that holds wire to top of shell)	IA-0000003	0.15	26.) Screw (6/32x4.0mm)(roundhead)(mounts pop-off valves)	IA-0000060	0.15
2.) Screw (4/40x6.0mm)(roundhead)(mounts PC board to shell)	IA-0000003	0.15	27.) Screw (6/32x6.0mm)(roundhead)(mounts steam dome)	IA-0000027	0.15
3.) Insulator (black)(cardboard)(mounts between PC board and shell)	BD-0000073	1.00	28.) Screw (6/32x6.0mm)(roundhead)(mounts sand dome)	IA-0000027	0.15
4.) Wire harness (PC board w/2 black female 10 pin plugs)(290.0mm long wires w/black male 5 pin plug)(310.0mm long wires w/black male 7 pin plug)(340.0mm long wires w/black male 12 pin plug)(330.0mm long red wire w/small black male 2 pin plug)(340.0mm long orange wire w/black male 8 pin plug)	BC-1100004	20.00	29.) Screw (4/40x6.0mm)(roundhead)(mounts plate behind smoke stack)	IA-0000003	0.15
5.) Screw (4/40x6.0mm)(roundhead)(mounts voltage regulator & PS2 boards bracket)	IA-0000003	0.15	30.) Screw (6/32x6.0mm)(roundhead)(mounts airlines)	IA-0000027	0.15
6.) Insulator washer (white)(6.0x4.0x2.5mm)(plastic)	ID-0000033	0.15	31.) Screw (M1.4x6.5mm)(roundhead)(mounts hatch to smoke stack)	IA-0000343	0.15
7.) Insulator (clear)(single hole)(13.0x19.0x0.1mm)(mounts voltage regulator)	ID-0000024	1.00	32.) Builder's Plate	FB-1100217	4.00
8.) Voltage regulator (LM2937ET)	AG-0000032	3.00	33.) Screw (6/32x6.0mm)(roundhead)(mounts top of boiler front)	IA-0000027	0.15
9.) Screw (6/32x6.0mm)(roundhead)(mounts front of Proto-Sound® 2.0 boards bracket)	IA-0000027	0.15	34.) Screw (4/40x6.0mm)(flathead)(mounts bottom of boiler front)	IA-0000038	0.15
10.) Screw (6/32x12.0mm)(roundhead)(mounts bracket to Proto-Sound® 2.0 boards)	IA-0000062	0.15	35.) Bell (brass bell, black bracket)(w/bracket)(mounts on top of boiler front)	FB-1100218	10.00
11.) Insulator (black)(cardboard)(mounts between bracket & Proto-Sound® 2.0 boards)	BD-0000074	2.00	36.) Screw (M2x4.0mm)(roundhead)(mounts bell bracket)	IA-0000058	0.15
12.) Boards (Proto-Sound® 2.0)(w/flash memory)	AE-0000004	*225.00	37.) Screw (4/40x8.0mm)(roundhead)(mounts compressor to boiler front)	IA-0000011	0.15
13.) Screw (4/40x6.0mm)(roundhead)(mounts bracket that holds front drive block)	IA-0000003	0.15	38.) Marker lighthouse (black)(mounts on top of boiler front)	FB-1100219	4.00
14.) Screw (4/40x6.0mm)(roundhead)(mounts piped detail)	IA-0000003	0.15	39.) Screw (M2x4.0mm)(roundhead)(mounts marker lighthouse to boiler front)	IA-0000058	0.15
15.) Screw (4/40x6.0mm)(roundhead)(mounts tank detail)	IA-0000003	0.15	40.) L.E.D.s (green)(6v)(2)(100.0mm long wires w/yellow male 2 pin plug)	CC-0000039	5.00
16.) Screw (4/40x6.0mm)(roundhead)(mounts reverser detail)	IA-0000003	0.15	41.) Smoke unit (7.0x8.0x2.0x3.7mm brass cup)(7.5mm long posts)(Proto-Sound 2.0®)	AA-0000029	50.00
17.) Engineer (whiteman)	FI-0000001	5.00	42.) Wire harness (165.0mm long wires w/black male 4 pin plug)	BC-0000128	4.00
17.) Engineer (blackman)	FI-0000030	5.00	43.) Screw (4/40x6.0mm)(roundhead)(mounts smoke unit to bracket)	IA-0000003	0.15
18.) Fireman (whiteman)	FI-0000009	5.00	44.) Screw (6/32x6.0mm)(roundhead)(mounts smoke unit bracket to shell)	IA-0000027	0.15
18.) Fireman (blackman)	FI-0000033	5.00			
19.) Screw (4/40x6.0mm)(flathead)(mounts Engineer & Fireman seats)	IA-0000038	0.15			
20.) Screw (4/40x6.0mm)(roundhead)(mounts bottom of cab)	IA-0000003	0.15			
21.) Screw (6/32x6.0mm)(roundhead)(mounts top of cab)	IA-0000027	0.15			
22.) Bulb (clear)(1)(6v)(60.0mm long wires w/black male 2 pin plug)(grain of wheat)(for fire box glow)	CG-0000048	3.00			
23.) Screw (4/40x6.0mm)(roundhead)(mounts fire box glow bulb bracket to shell)	IA-0000003	0.15			
24.) Grommet (black)(4.5x5.0mm)(rubber)	IH-0000010	0.50			
25.) Bulb (clear)(1)(6v)(60.0mm long wires w/whitemale 2 pin plug)(grain of wheat)(cab light)	CG-0000049	3.00			

*Requires Exchange
All parts are priced as each



R-2 Steam Engine 2-8-8-2

Drive Block Parts

Name and Number	Part #	\$Price Per Unit	Name and Number	Part #	\$Price Per Unit
1.) Pilot(black)(complete)(#2055)	FB-1130018	50.00	26.) Screw	IA-0000011	0.15
2.) Screw	IA-0000027	0.15	(4/40x8.0mm)(roundhead)		
(6/32x6.0mm)(roundhead)			(formountinggearboxcoveronfrontdriveblock)		
(connectstop&bottomsectionsofpilot)			27.) Wireharness	BC-1100005	8.00
3.) Screw	IA-0000027	0.15	(blackmale3pinplug)		
(6/32x6.0mm)(roundhead)			(140.0mmlongwiresw/blackfemale2pinplug)		
(mountsbottomsectionofpilottodriveblock)			(130.0mmlongblackwire/eyelet)		
4.) Screw	IA-0000003	0.15	(125.0mmlongblackwire/eyeletoffirsteyelet)		
(4/40x6.0mm)(roundhead)(mountstoolboxtopilot)			(mountsontofrontdriveblock)		
5.) Headlight/#boardhousing	FB-1130019	15.00	(forheadlightandgroundwires)		
(black)(#2055)(completew/lens&#boards)			28.) Insulator(black)	BD-0000026	2.00
6.) Screw	IA-0000058	0.15	(top)(square)(pick-up)		
(M2x4.0mm)(roundhead)			29.) Screw	IA-0000003	0.15
(mountsheadlighthousingtopilot)			(4/40x6.0mm)(roundhead)		
7.) Numberboard	FG-1100001	2.00	(mountstoppick-upinsulators)		
(#2055)(blackw/clearletters)			30.) Screw(nickel)	IA-0000015	0.15
8.) Lens(clear)(headlight)	FA-1130004	3.00	(M3x6.0mm)(roundhead)(formountingpick-up)		
9.) Bulb(clear)(6v)(1)	CA-0000058	3.00	31.) Nut(nickel)	IC-0000005	0.50
(100.0mmlongwiresw/blackmale2pinplug)			(2.5x5.0x10.0mm)(formountingpick-up)		
(haswireshieldonwires)(grainofwheat)(headlight)			32.) Insulator(black)	BD-0000024	2.00
10.) Coupler(black)(scale)	DD-0000005	6.00	(pick-up)(bottom)(flat)(square)		
11.) Coupler(black)	DD-0000006	6.00	33.) Pick-up	BD-0000005	5.00
(non-operating)(fordoubleheadingengines)			(8.0x11.0mmroller)(28.0mmlong)		
12.) Bolt(black)(M2.4x7.5mm)	IA-0000344	1.00	34.) Screw	IA-0000050	0.15
(1.0x3.0mmslottedhead)(1.7x4.5mmpinonend)			(6/32x8.0mm)(roundhead)		
(formountingcouplerontopilot)			(mountsmotionhangers)		
13.) Screw	IA-0000214	0.15	35.) Screw	IA-0000280	0.15
(6/32x6.0mm)(washerhead)(mountsleadtruck)			(M2x9.0mm)(roundhead)(w/2.0x6.0mmshank)		
14.) Spring(nickel)	IE-0000072	0.50	(formountingeccentricassemblytomotionhanger)		
(6.5x11.0x12.0mm)(w/0.6mmthickwire)			36.) Screw	IA-0000053	0.15
(formountingleadtruck)			(M2x4.0mm)(roundhead)(w/2.0x2.5mmshank)		
15.) E-clip(black)	IF-0000009	0.15	(formountingeccentricassemblytomotionhanger)		
(3.5x9.0x0.6mm)(formountingleadtruck)			37.) Screw	IA-0000003	0.15
16.) Screw	IA-0000050	0.15	(4/40x6.0mm)(roundhead)		
(6/32x8.0mm)(roundhead)			(mountsbrakeshoeassemblies)		
(mountssteamcheststodriveblocks)			38.) Screw	IA-0000060	0.15
17.) Screw	IA-0000176	0.15	(6/32x4.0mm)(roundhead)(greasescrew)		
(6/32x10.0mm)(flathead)			39.) Washer(black)	ID-0000040	0.15
(mountsdriverodguidestosteammchests)			(3.0x6.0x0.4mm)(fiber)(forgreasescrew)		
18.) Screw	IA-0000027	0.15	40.) Tractiontire(black)	DE-0000025	0.75
(6/32x6.0mm)(roundhead)			(3.5x25.6mm)(rubber)		
(mountseccentricrodguidestosteammchest)			41.) Bolt(blackened)	IA-0000305	2.00
19.) Bolt(black)(6/32x12.0mm)	IA-0000345	2.00	(M2.5x13.0mm)(2.5x2.0mmshank)		
(1.5x8.0mmslottedhead)(4.4x4.0mmshank)			(hexheadtaperedtowardshank)		
(mountsdrysteampipeontofrontsteamchest)			(formountingdriverod&eccentricassembly)		
20.) Spring(black)(3.5x19.0mm)	IE-0000021	0.50	42.) Bolt(blackened)	IA-0000306	2.00
(w/0.3mmthickwire)(has2loopsoneachend)			(M2.5x7.0mm)(hexhead)(formountingsiderod)		
(tensionspringfordrysteampipe)			43.) Screw	IA-0000050	0.15
21.) Bolt(black)(8/32x16.0mm)	IA-0000079	2.00	(6/32x8.0mm)(roundhead)		
(2.0x8.0mmslottedhead)(w/5.0x8.5mmshank)			(mountsreardriveblocktoshell)		
(connectsfront&reardriveblocks)			44.) Wireharness	BC-1100006	25.00
22.) Screw	IA-0000003	0.15	(blackmale10pinplug)		
(4/40x6.0mm)(roundhead)			(210.0mmlongwiresw/2femalespadeconnecters)		
(mountsbracketthatholdswirestofrontdriveblock)			(150.0mmlongpink&bluwiresw/largeswitch)		
23.) Washer(black)	ID-0000046	0.15	(240.0mmlongwiresw/tachboard)		
(2.0x13.0mm)(w/slotincenter)(cupped)			(tachboardhas2.5mmspacer)		
(mountsontogearboxcoveronfrontdriveblock)			(345.0mmwiresw/PCboard,blackfemale3pinplug)		
24.) Spring(nickel)	IE-0000030	0.50	(215.0mmlongredwirew/2eyelets)		
(7.0x10.0mm)(w/0.5mmthickwire)			45.) Tachboard(green)	AG-0000041	6.00
(mountsontogearboxcoveronfrontdriveblock)			(w/2.2mmspacerbetweenboard&opticalsensor)		
25.) Screw	IA-0000017	0.15			
(M3x8.0mm)(flathead)					
(formountinggearboxcoveronfrontdriveblock)					

*RequiresExchange
Allpartsarepricedaseach



R-2 Steam Engine 2-8-8-2

Drive Block Parts

Name and Number	Part #	\$Price Per Unit
46.) Switch(large) (for smoke unit on/off)	BB-0000006	5.00
47.) Screw (M2x4.0mm)(roundhead) (mounts switch to rear drive block)	IA-0000058	0.15
48.) Screw (6/32x8.0mm)(roundhead) (mounts motor mount to drive block)	IA-0000050	0.15
49.) Setscrew(black) (M3x10.0mm)(no screw head) (mounts flywheel to motor shaft)	IA-0000151	0.15
50.) Screw (8/32x8.0mm)(roundhead) (mounts bottom of motor mount to motor)	IA-0000195	0.15
51.) Screw (8/32x8.0mm)(flathead) (mounts top of motor mount to motor)	IA-0000346	0.15
52.) Motor (Pittman, #9434J434)(12VDC)(no flywheel)	BE-0000030	50.00
53.) Screw (4/40x8.0mm)(roundhead) (mounts gearbox cover and PC board)	IA-0000011	0.15
54.) Screw (6/32x6.0mm)(washerhead) (mounts front of trailing truck)	IA-0000214	0.15
55.) Washer(black) (6.5x12.0x0.8mm)(for mounting trailing truck)	ID-0000108	0.15
56.) Washer(black) (5.5x15.0x0.6mm)(for mounting trailing truck)	ID-0000039	0.15
57.) Spring(nickel) (6.5x11.0x12.0mm)(w/0.6mm thick wire) (for mounting trailing truck)	IE-0000072	0.50
58.) E-clip (3.5x9.0x0.6mm)(for mounting trailing truck)	IF-0000009	0.15
59.) Screw (4/40x4.0mm)(roundhead) (for mounting truck sides on trailing truck)	IA-0000021	0.15
60.) Bolt(black) (8/32x16.0mm)(2.0x8.0mm slotted head) (w/5.0x8.5mm shank)(for mounting drawbar)	IA-0000079	2.00
61.) Spring(nickel) (6.5x10.0mm)(w/0.6mm thick wire) (for mounting drawbar)	IE-0000061	0.50

*Requires Exchange
All parts are priced as each



R-2 Steam Engine 2-8-8-2

Tender Parts

NameandNumber	Part #	\$Price PerUnit	NameandNumber	Part #	\$Price PerUnit
1.) Screw (6/32x10.0mm)(roundhead)(mountshelltochassis)	IA-0000040	0.15	25.) Washer(black) (5.2x10.0x0.5mm)(metal)	ID-0000075	0.15
2.) Screw (6/32x6.0mm)(roundhead) (mountsfront/topshellsectiontotendershell)	IA-0000027	0.15	26.) E-clip(black) (3.0x8.0x0.5mm)(metal)	IF-0000002	0.15
3.) Bulb(clear)(1)(6v) (160.0mmlongwiresw/greenmale2pinplug) (grainofwheat)(back-uilight)	CF-0000025	3.00	27.) Wireharness (tenderwireharness) (blackmaleangled10pinplug) (160.0mmlongwiresw/patchboard) (30.5x33.5mmpatchboard)(w/redfemale3pinplug) (w/white,black,blue,green, yellowfemale2pinplugs)	BC-0000127	12.00
4.) Grommet(black) (4.5x5.0mm)(rubber)	IH-0000010	0.50	28.) Screw (4/40x4.0mm)(roundhead) (mountspatchboardto bracket)	IA-0000021	0.15
5.) Screw (4/40x6.0mm)(roundhead) (mountsreverselightbracketto shell)	IA-0000003	0.15	29.) Screw (M3x3.0mm)(roundhead) (mountspatchboardbrackettochassis)	IA-0000021	0.15
6.) Wireharness (190.0mmlongwires)(extensionforreverselight) (w/greenmale&female2pinplugs)	BC-0000124	3.00			
7.) Lens(dear)(reverselight) (3.2x1.9x5.8mm)(0.6x3.8mmlenshead) (4ribsforpressfit)	FA-1140004	2.00			
8.) Battery(white) (8.4volts)(re-chargable)(nickel-cadium)	BG-4000001	10.00			
9.) Batteryleads (195.0mmlongwiresw/blackmale2pinplug)	BC-0000057	3.00			
10.) Screw (M3x3.0mm)(roundhead) (formountingbatterybrackettochassis)	IA-0000296	0.15			
11.) Volumepot(small) (bluew/greenboard)	BI-0000040	5.00			
12.) Wireharness (redmale3pinplug) (175.0mmlongwiresw/smallvolumepot)	BC-0000125	7.00			
13.) Screw (M3x8.0mm)(roundhead) (mountsvolumepottochassis)	IA-0000035	0.15			
14.) Spacer(black)(plastic) (3.0x6.0x4.3mm)(formountingvolumepottochassis)	ID-0000071	0.15			
15.) Speaker (STAR)(FR-045-A1421)(16ohms)(5W)	BF-0000021	9.95			
16.) Gasket(black)(foam) (39.0x45.0x2.0mm)(for45.0mmspeakers)	IB-0000013	1.00			
17.) Screw (M3x3.0mm)(roundhead) (mountsspeakerbrackettochassis)	IA-0000296	0.15			
18.) Screw (4/40x6.0mm)(roundhead) (mountsbrakecylindertobottomofchassis)	IA-0000003	0.15			
19.) Screw (6/32x6.0mm)(washerhead) (mountstruckstotenderchassis)	IA-0000214	0.15			
20.) Screw (4/40x6.0mm)(roundhead) (mountstrucksidestotruckblock)	IA-0000003	0.15			
21.) T-bar (black) (4.0x20.0mm)(plastic) (formountingProto-Coupler® 2.0to reartruck)	IG-0000001	0.50			
22.) Proto-Coupler® (Proto-Coupler® 2.0)(44.5mmlong)	DD-0000033	10.00			
23.) Wireharness (290.0mmlongwiresw/bluemale2pinplug) (wirehasblackprotectiveshield) (forProto-Coupler®)	BC-0000126	7.00			
24.) Spring(nickel)(7.0x11.0mm) (w/0.5mmthickwire)(formountingProto-Coupler®)	IE-0000012	0.50			

*RequiresExchange
Allpartsarepricedaseach

