

**RAILKING**<sup>®</sup>  
By M.T.H. Electric Trains

30-4073-1a  
30-4073-0a

# F-3 A Unit Diesel Engine



GL100202

# F-3 A Unit Diesel Engine

## Engine Parts

Name and Number	Part #	\$Price Per Unit	Name and Number	Part #	\$Price Per Unit
1.) Diaphragm ( black )( 3 rib ) ( 26.0x50.0x10.0mm )( 2 center mount tabs )	FI-0000027	2.00	34.) Wire nut ( yellow )	BI-4500003	0.25
2.) Shell ( black, yellow, green ) ( John Deere )	FC-2200375	*65.00	35.) Battery leads ( 60.0mm long wires w/ small black male 2 pin plug ) ( 80.0mm long wires w/ battery charger jack )	BC-0000189	6.00
3.) Lens ( clear ) ( portal )( 9.3x8.3x1.7mm )	FA-2260001	2.00	36.) Battery ( 8.4 volts )( re-chargable )( nickel-cadium )	BG-4000001	10.00
4.) Horn ( nickel )( 1 chime )	FC-2200010	3.00	37.) Bracket ( black )( metal ) ( 9.3x46.0x34.4mm )( horizontal mount )( battery )	IH-0000165	3.00
5.) Battery charger jack ( complete )	BG-0000001	3.00	38.) Screw ( 4/40x6.0mm )( flathead )	IA-0000038	0.15
6.) Number board ( #4010 ) ( white numbers on black background )( sticker ) ( John Deere )( #4010 )	FG-2200104	0.25	39.) Pilot ( black )( front ) ( 2 screw holes for mounting pilot )	DG-2230026	15.00
7.) Lens ( clear ) ( headlight )( 7.7x6.7x4.5mm )	FA-2230009	2.00	40.) Chassis ( black )( A unit ) ( Proto-Sound® 2.0 & Loco-Sound™ ) ( w/ holes for battery charger jack )	DH-2200079	*20.00
8.) Windows ( clear )( front & sides )	FA-2230008	5.00	41.) Speaker ( Star )( NR-045-A1Z04 )( 16 ohms )( 2.0 watt )	BF-0000031	10.00
9.) Rubber band	BI-4500004	0.50	42.) Screw ( M3x16.0mm )( washer head )( self-drilling )	IA-0000025	0.15
10.) Tach board ( standard )( for Proto-Sound 2.0® and Loco-Sound™ )	AG-0000033	6.00	43.) T-bar ( black ) ( 4.0x20.0mm )( plastic )	IG-0000001	0.50
11.) Motor ( RS-365SH ) ( 7.8x17.0mm worm gear w/ 10.5mm long threads ) ( 9.0x30.0mm white tapered flywheel w/ black stripes ) ( w/ tach board mount )	BE-0000142	25.00	44.) Proto-Coupler® ( Proto-Coupler® 2.0 )( 44.5mm long )	DD-0000033	10.00
12.) Boards ( Proto-Sound® 2.0 ) ( Proto-Sound® 2.0 )( w/ Rom memory )( 5v board )	AE-0000001	*200.00	45.) Spring ( nickel ) ( 6.5x14.0mm )( 0.5mm thick wire )	IE-0000022	0.50
13.) Motor ( RS-365SH ) ( 7.8x17.0mm worm gear w/ 10.5mm long threads ) ( 9.0x30.0mm black tapered flywheel )	BE-0000143	25.00	46.) Washer ( 4.5x10.0x0.6mm )	ID-0000041	0.15
14.) Bulb ( 6v )( small globe ) ( bayonet base )( headlight/cab interior )	CG-0000024	1.00	47.) E-clip ( 3.0x8.0x0.5mm )	IF-0000002	0.15
15.) Socket ( black )( plastic )( 7.0mm thick bayonet base )	CH-0000037	3.00	48.) Truck ( black )( 2 axle ) ( powered )( 2 holes tapped for mounting pilot ) ( 2 M2.5 holes tapped for mounting PCB under coupler ) ( truck sides mount from bottom )	DA-2000030	*30.00
16.) Screw ( M3x6.0mm )( roundhead )	IA-0000016	0.15	49.) Insulator ( black ) ( pick-up )( plastic )( top )( square )	BD-0000047	2.00
17.) Motor mount ( black )	BI-0000005	15.00	50.) Traction tire ( black ) ( rubber )( 4.0x17.0mm )	DE-0000018	0.75
18.) Screw ( 4/40x6.0mm )( roundhead )	IA-0000003	0.15	51.) Nut ( nickel )( 2.5x5.0x10.0mm )	IC-0000005	0.50
19.) Screw ( 6/32x12.0mm )( roundhead )	IA-0000062	0.15	52.) Insulator ( black ) ( pick-up )( plastic )( bottom )( square )	BD-0000039	2.00
20.) Screw ( M3x4.0mm )( roundhead )	IA-0000010	0.15	53.) Pick-up ( 8.0x11.0mm roller )( 28.0mm long )	BD-0000025	5.00
21.) Screw ( yellow Zinc ) ( M2.5x6.0mm )( roundhead )( w/ lock washer )	IA-0000089	0.15	54.) Truck side ( black ) ( fits 2 axle truck )( truck side screws mount from bottom )	DB-2150002	7.00
22.) Screw ( M3x14.0mm )( roundhead )( w/ lock washer )	IA-0000012	0.15	55.) Screw ( M2x4.0mm )( roundhead )	IA-0000058	0.15
23.) Screw ( M3x8.0mm )( roundhead )	IA-0000035	0.15	56.) Wire harness ( black flat male 4 pin plug w/ 130.0mm long wires ) ( w/ black female 4 pin plug on PC board )	BC-0000190	10.00
24.) Bracket ( Aluminum ) ( for Proto-Sound® 2.0 boards ) ( mounts boards sideways )	IH-0000385	4.00	57.) Spacer (black)(hexagon shaped) ( 25.0mm long )( 4.0mm long M2.5 screw on one end ) ( M2 tapped hole on the other end )	ID-0000121	1.00
25.) Wire strap ( black )(metal)(small)	IH-0000012	1.00	58.) Truck ( black )( powered ) ( 2 axle )( 2 holes tapped for mounting pilot ) ( truck sides mount from bottom )	DA-2000012	*30.00
26.) Insulator ( white ) ( washer )( 3.0x6.0x3.0mm )( plastic )	ID-0000025	0.15	59.) Screw ( nickel ) ( M3x6.0mm )( roundhead )	IA-0000015	0.15
27.) Voltage regulator ( LM2937ET )	AG-0000032	3.00	60.) Gasket ( black )( foam ) ( 39.0x45.0x2.0mm )( for 45.0mm speakers )	IB-0000013	1.00
28.) Volume pot ( small ) ( blue pot mounted on green PC board )	BI-0000040	5.00	61.) Screw ( M3x3.0mm )( roundhead )	IA-0000296	0.15
29.) Spacer ( black ) ( 3.0x6.0x4.0mm )( plastic )	ID-0000071	0.15	NS.) Speaker cone ( cardboard ) ( 18.0x48.5mm )( has top on cone )( 3 notches )	BF-0000032	2.00
30.) Insulator ( clear ) ( 13.0x16.0x0.1mm )( single hole )	ID-0000024	0.15			
31.) Switch ( large )( 2 position )	BB-0000006	5.00			
32.) Screw ( M2x4.0mm )( roundhead )	IA-0000058	0.15			
33.) Bracket ( brass )( speaker ) ( 6.0x8.5x1.0mm )( rounded corners on one end )	IH-0000372	1.00			

\*Requires Exchange

All parts are priced as each



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## Engine Parts

Name and Number	Part #	\$Price Per Unit
NS.) Bracket ( black )( metal ) ( 8.0x62.5mm )( 18.5mm step )( 2 mounting holes ) ( mounts speaker cone )	IH-0000386	3.00
NS.) Screw ( M3x3.0mm )( roundhead ) ( mounts speaker cone bracket to chassis )	IA-0000296	0.15
NS.) Wire harness ( black male 7 pin plug ) ( 215.0mm long wires w/ standard tach board ) ( 60.0mm long red & black wires )	BC-0000191	8.00
NS. Wire harness ( black male 5 pin plug )( for motors ) ( 200.0mm & 90.0mm long yellow & white wires )	BC-0000192	5.00
NS.) Wire harness ( for speaker ) ( 110.0mm long wires w/ white male 2 pin plug )	BC-0000138	3.00
NS.) Wire harness ( 90.0mm long wires w/ black male 2 pin plug ) ( black wire shield on wires )( for Proto-Coupler® )	BC-1100008	4.00
NS.) Wire harness ( 125.0mm long red & black wires w/ eyelets ) ( has black wire shield on wires ) ( power supply from pick-ups )	BC-0000193	4.00
NS.) Wire harness ( black male 12 pin plug ) ( 115.0mm long wires w/ small volume pot ) ( 65.0mm long black wire w/ black female 2 pin plug ) ( 90.0mm long brown wire w/ large switch ) ( 60.0mm long wires w/ white female 2 pin plug ) ( 100.0mm long green wire w/ black female 4 pin plug ) ( 165.0mm long light blue wire )	BC-2200075	16.00

### Loco-Sound™ Only Parts

41.) Speaker ( Unison ) ( U4508BSR, 8 ohms, 0.9 watts )	BF-4500013	8.95
45.) Spring ( nickel ) ( 6.5x9.0mm )( 0.4mm thick wire )	IE-0000009	0.50
46.) Washer ( black )( plastic ) ( 4.6x8.5x0.5mm )( cup shaped for spring to fit in )	ID-0000060	0.15
NS.) Coupler ( black ) ( mechanical )( 44.0mm long )	DD-0000003	3.00
NS.) Armature ( black ) ( 37.8mm long )	DD-0000010	1.00
NS.) Board ( Loco-Sound® )( DIESEL/ELECTRIC )	AE-0000002	*100.00
NS.) Bracket ( Aluminum ) ( 14.0x63.0mm )( 24.0mm step ) ( for mounting Loco-Sound® board )	IH-0000387	3.00
NS. Wire harness ( black male 5 pin plug )( for motors ) ( 170.0mm & 170.0mm long yellow & white wires )	BC-0000194	5.00
NS.) Wire harness ( black male 12 pin plug ) ( 115.0mm long wires w/ small volume pot ) ( 50.0mm long wires w/ white female 2 pin plug ) ( 170.0mm long light blue wire ) ( 140.0mm long purple wire )	BC-2200076	12.00

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