



RAILKING NW-2 CALF DIESEL ENGINE OPERATING INSTRUCTIONS



Thank you for purchasing the RailKing production of General Motor's NW-2 calf diesel engine. The engine's durable ABS body and die-cast trucks are traditionally sized for operation on any O-27 Gauge track. The engine makes a perfect compliment for a powered RailKing NW-2 Calf diesel engine and features an operating headlight and operating leading coupler and is completely compatible with most 3-rail locomotives, rolling stock and accessories.

If the locomotive is being operated with a ProtoCoupler™ equipped powered engine, a ProtoCoupler™ kit can be ordered so that the unit can be upgraded for use with the ProtoSound® module located in the powered unit. Contact your authorized MTH dealer or MTH directly for details on this option.

OIL & LUBRICATION INSTRUCTIONS

In order for the engine to perform correctly and quietly, it is important that the chassis be lubricated before operation. Lubrication should include all truck block bushings and pickup rollers to prevent them from squeaking. Use light household oil and follow the lubrication points marked "L" in Fig. 1 below.

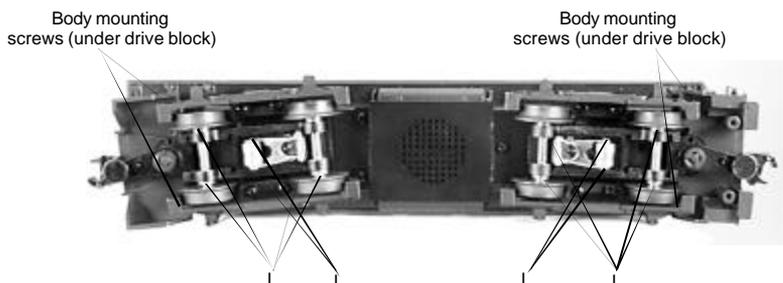


Figure 1: Lubricating The Chassis

Periodically, check the locomotive wheels and pickups for dirt buildup as this can significantly affect the engine's ability to perform properly. Dirty track and dirty wheels can cause both poor electrical contact as well as poor traction, especially on elevated track sections.

HEADLIGHT REPLACEMENT

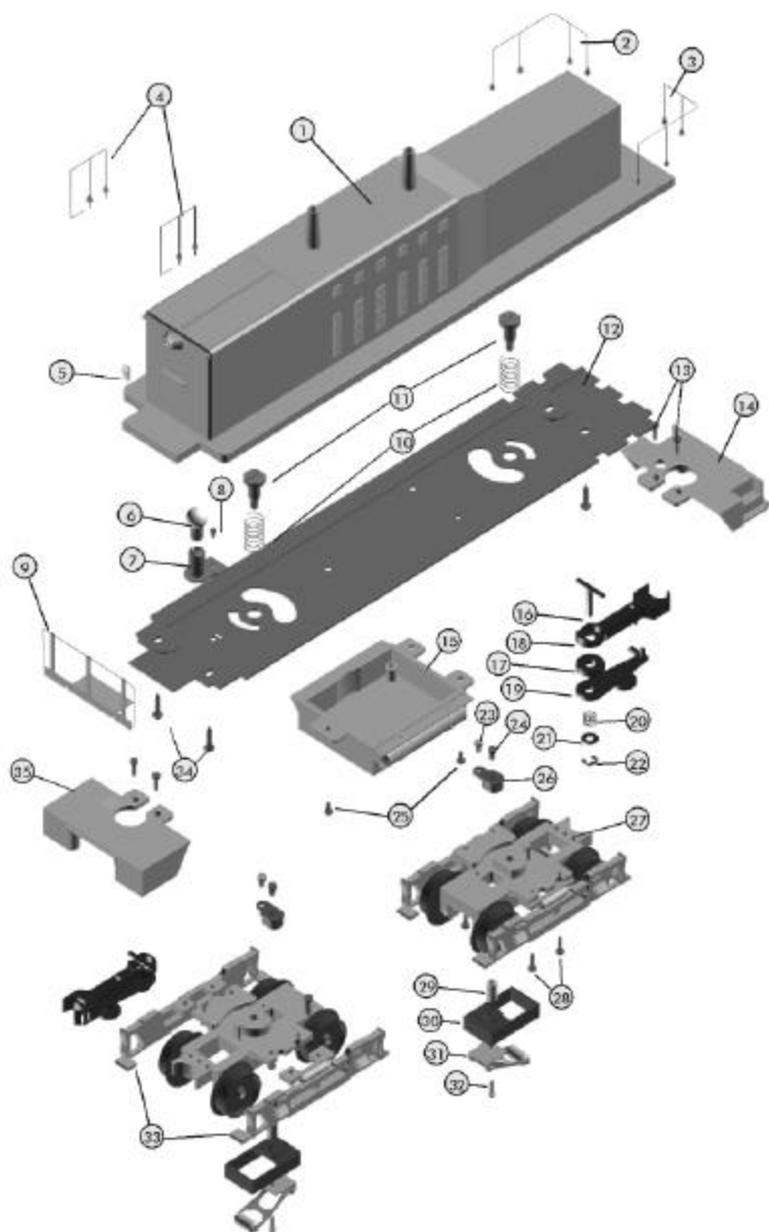
The NW-2 Calf locomotive contains one bayonet 18v headlight bulb that is controlled by the track voltage. The headlight bulb simply plugs into its lamp socket and can be easily removed should the bulbs expire. To remove the bulbs, remove the cab by unscrewing the body mount screws as shown in Figure 1. Once the cab has been removed from the chassis, gently twist and push the bulb to unlock it from its lamp housing. Once unlocked, the bulb will pull out of the socket. Replacement bulbs are available directly from MTH Electric Trains.

Railking NW-2 " Calf " Unit

P a r t s

Name and Number	Part #
1.) Shell (U.P. #D.S. 1050B)	FC-2200031
1.) Shell (C&NW #1105)	FC-2200032
2.) Handrail (black)(right)	FC-2210006
3.) Handrail (black)(left)	FC-2220006
4.) Handrail (black) (left & right sides)	FC-2250002
5.) headlight lens	FA-2230012
6.) Bulb (18V, small globe, bayonet base)	CG-0000002
7.) Socket	CH-0000005
8.) Screw (M2.5X3.0mm) (roundhead)	IA-0000022
9.) Handrail (black)	FC-2250003
10.) Spring (8.0X15.0mm) (w/ 0.6mm thick wire)	IE-0000025
11.) Bolt (8/32X15.0mm) (w/ 7.0mm oversized shank, flat slotted head)	IA-0000088
12.) Chassis	DH-2200011
13.) Screw (4/40X6.0mm) (roundhead)	IA-0000003
14.) Pilot (U.P. gray)	DG-2240002
14.) Pilot (C&NW green)	DG-2240003
15.) Fuel tank (U.P. gray)	FC-2200029
15.) Fuel tank (black)	FC-2200030
16.) T-bar	IG-0000001
17.) Spacer (4.5X13.0X3.0mm)	ID-0000047
18.) Coupler (44.0mm long)	DD-0000003
19.) Coupler armature (37.7mm long)(triangle shaped pin)	DD-0000007
20.) Spring (6.5X16.0mm) (w/ 0.4mm thick wire)	IE-0000019
21.) Washer (4.5X10.0X0.6mm)	ID-0000041
22.) E-clip (3.0X8.0X0.6mm)	IF-0000002
23.) Screw (M3X6.0mm)(roundhead)	IA-0000016
24.) Screw (4/40X6.0mm)(roundhead)	IA-0000003
25.) Screw (M3X4.0mm)(roundhead)	IA-0000010
26.) Insulator (pick-up)(top)	BD-0000035
27.) Truck block (2 axle)(dummy)	DA-2050007
28.) Screw (4/40X6.0mm)(roundhead)	IA-0000003
29.) Nut (chrome)(2.5X5.0X7.0mm)	IC-0000004
30.) Insulator (pick-up)(bottom)(rect.)	BD-0000039
31.) Pick-up (8.0mm roller)(28.0mm long)	BD-0000025
32.) Screw (M3X6.0mm)(roundhead)	IA-0000016
33.) Truck side (black)	DB-2060002
33.) Truck side (silver)	DB-2060001
34.) Screw (M3X12.0mm)(washerhead)(self-drilling)	IA-0000031
35.) Pilot (U.P. gray)	DG-2230004
35.) Pilot (C&NW green)	DG-2230005

* Requires Exchange



SERVICE & WARRANTY INFORMATION

HOW TO GET SERVICE UNDER THE TERMS OF THE LIMITED ONE YEAR WARRANTY

For warranty repair, do not return your product to the place of purchase unless it was purchased from Mike's Train House in Columbia, MD. Instead, follow the instructions below to obtain warranty service as our dealer network is not prepared to service the product under the terms of this warranty.

1. First, write, call or FAX MTH Electric Trains, 7020 Gateway Drive, Columbia, MD 21046, 410-381-2580 (FAX No. 410-381-6122), stating when it was purchased and what seems to be the problem. You will be given a return authorization number to assure that your merchandise will be properly handled upon its receipt.

2. CAUTION: Make sure the product is packed in its original factory packaging including its foam and plastic wrapping material so as to prevent damage to the merchandise. The shipment must be prepaid and we recommend that it be insured. *A cover letter, including your name, address, daytime phone number, Return Authorization number and a full description of the problem, and sales receipt must be included to facilitate the repairs. Please include the description regardless of whether you discussed the problem with one of our service technicians when contacting MTH for your Return Authorization number.*

3. Please make sure you have followed the instructions carefully before returning any merchandise for service.

LIMITED ONE YEAR WARRANTY

This item is warranted for one year from the date of purchase against defects in material or workmanship. We will repair or replace (at our option) the defective part without charge for parts or labor, if the item is returned to the address below within one year of the original date of purchase. This warranty does not cover items that have been abused or damaged by careless handling. Transportation costs incurred by the customer are not covered under this warranty.

This warranty gives you specific legal rights and you may have other rights which vary from state to state.

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