

LIONEL SERVICE MANUAL

ORE DUMP CAR NO. 3469

Cars of this type were first produced in 1946 under the number 3459, being changed to 3469 when the NTC-1 electromagnetic trucks with which these cars were first equipped were changed to 483-1 magnetic trucks.

The Ore Dump Car is operated by a solenoid and plunger which are located within the car body and are protected from particles of coal, etc. by a metal coil cover and a plastic frame cover. The coil is energized when the sliding shoes on the car trucks ride up on the energized control rails of a remote control track section. The motion of the plunger then lifts up the car tray and swings down the side of the car.

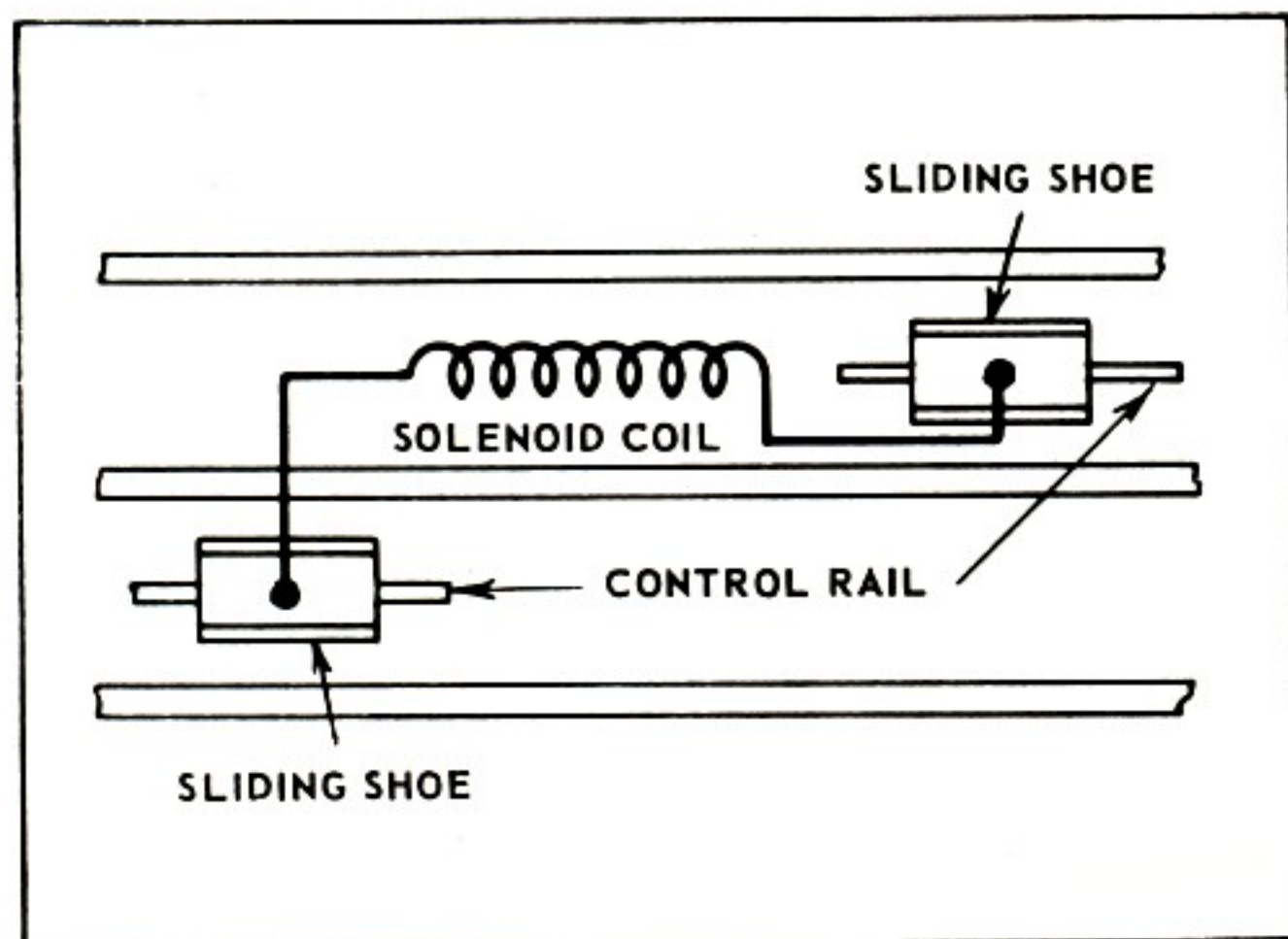


Figure 1 - Wiring Diagram of No. 3469 Ore Dump Car

When operating the car it is not advisable to load it with any fine-grained material such as sand, etc. which will tend to clog up the car's mechanism. If the car tray sticks in raised position examine the mechanism for bent or distorted parts which may cause interference. A drop of light oil at the pivot points will aid smooth operation.

In some of the older models of this car the swinging side was fastened to tray by means of two groove pins 3459-18, measuring .063" in diameter. In later models, the hole in the bearing plates and car tray were enlarged to .101" (Drill No. 38) and a larger groove pin 3459-37, measuring .093" in diameter, was used.

To adjust the movement of the tray and the swinging side follow this procedure:

1. Loosen the screw holding the main gear so that the gear is free to turn.
2. Close the swinging side and hold the car in dumping position.
3. Tighten the gear screw *almost* completely.
4. Hold the screw with the screwdriver to keep it from turning and push the car down to normal closed position.
5. Now tighten the gear screw firmly.

Note: No. 3469 Dump Car uses the same body casting and is similar externally to No. 5459 Electronic Dump Car made in 1946-47 and described in Section ECU, Page 14.

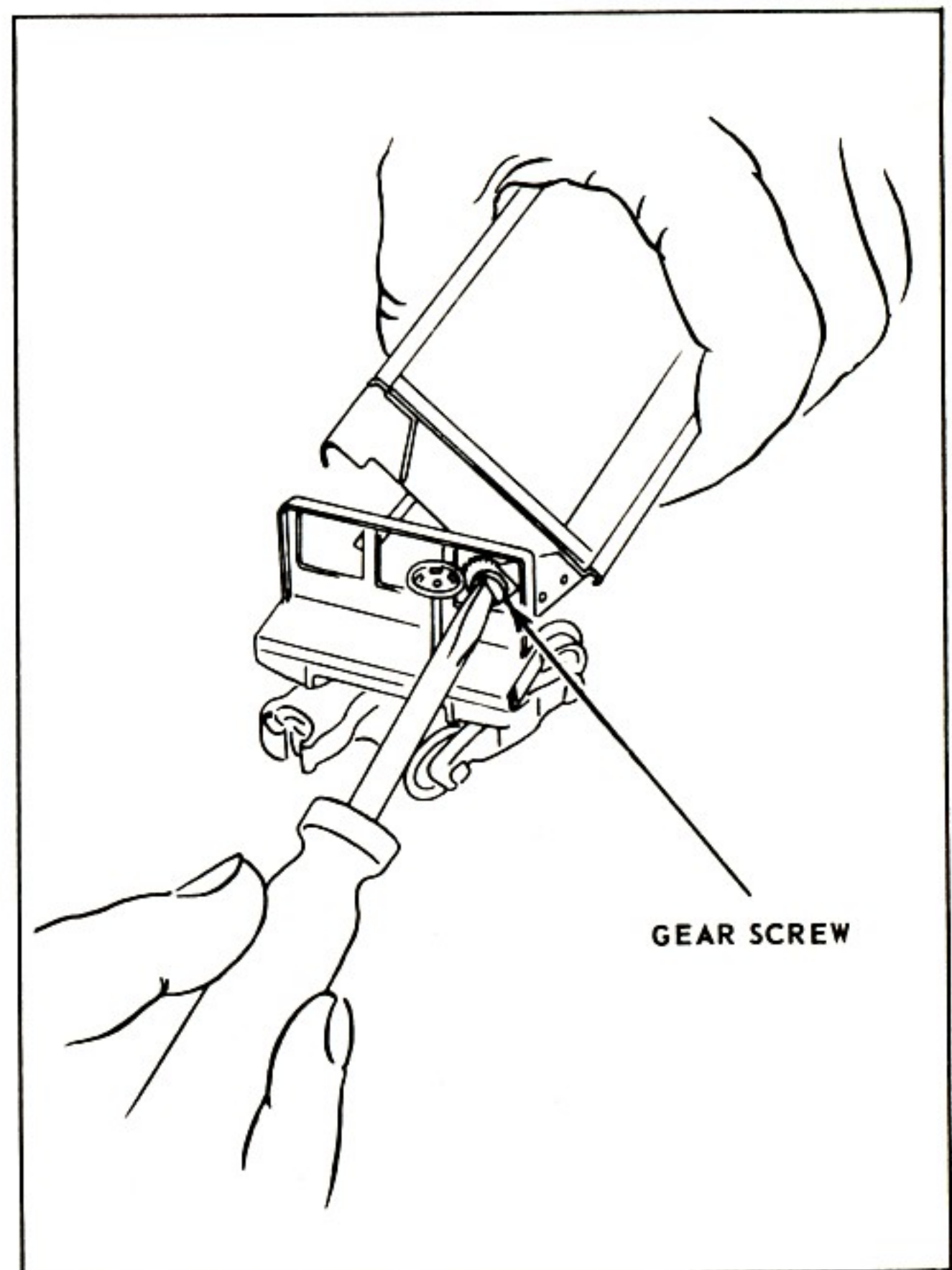
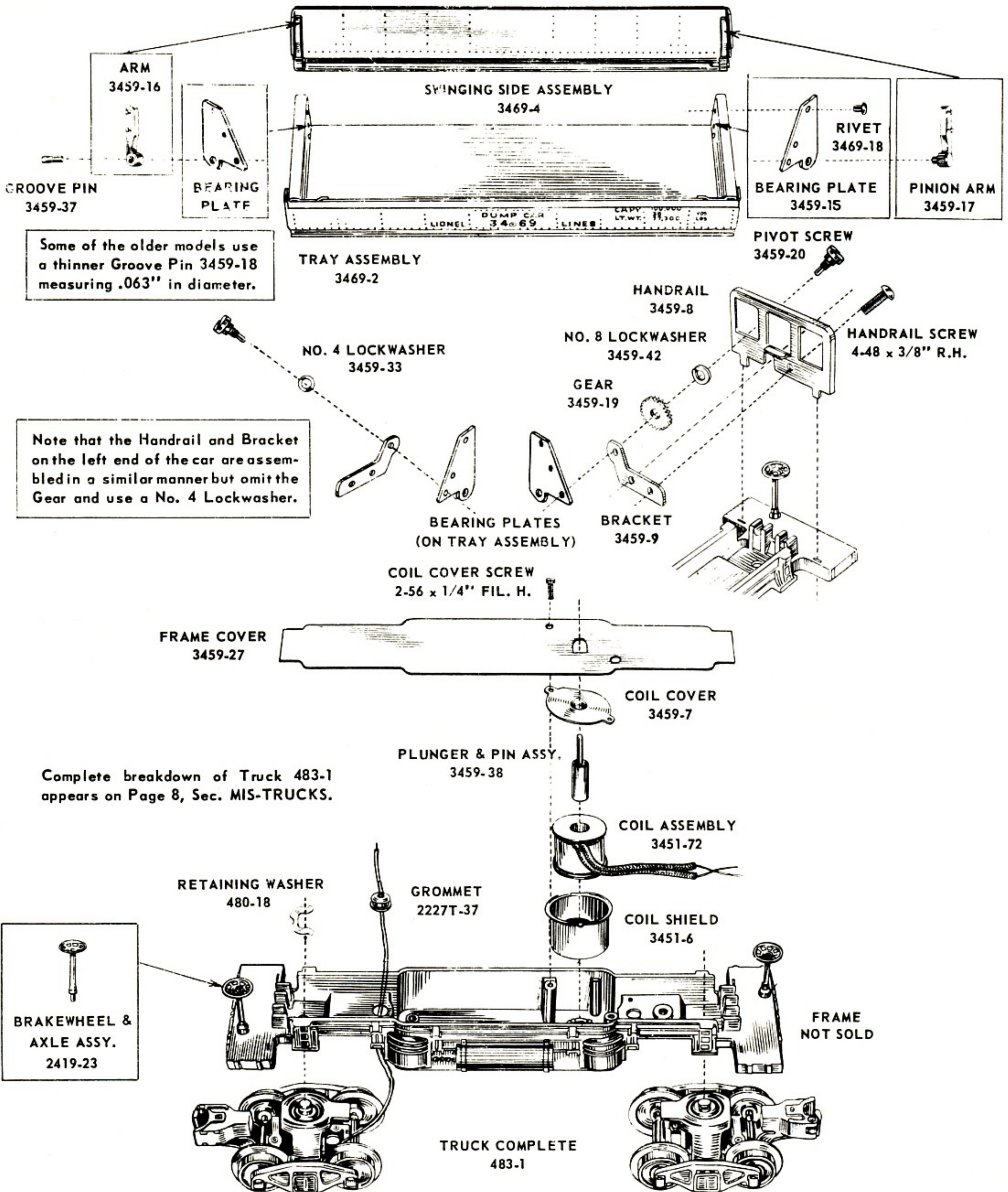


Figure 2 - Adjusting Dump Car

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REPLACEMENT PARTS FOR NO. 3469 ORE DUMP CAR

Part No.	Part Name	List Price
160-1	Unloading Bin	.50
480-18	Retaining Washer	.02
483-1	Truck Complete	1.50
2227T-37	Grommet	.05
2419-23	Brakewheel & Axle Assembly	.15
3451-6	Coil Shield	.10
3451-32	Coil Assembly	2.00
3459-7	Coil Cover	.10
3459-8	Handrail	.10
3459-9	Bracket	.10
3459-15	Bearing Plate	.10
3459-16	Arm	.15
3459-17	Pinion Arm	.15
3459-18	Groove Pin (.063" dia.)	.02
3459-19	Gear	.20
3459-20	Pivot Screw	.10
3459-27	Frame Cover	.25
3459-33	No. 4 Lockwasher	.02
3459-37	Groove Pin (.093" dia.)	.05
3459-38	Plunger & Pin Assembly	.15
3459-42	No. 8 Lockwasher	.02
3469-2	Tray Assembly	.75
3469-4	Swinging Side Assembly	.50
3469-18	Rivet	.02
2-56 x 1/4"	Fil. H. Coil Cover Screw	.02
4-48 x 1/4"	R. H. Bracket Screw	.02

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NOS. 3459 & 3469 - ORE DUMP CARS

<u>Part Number</u>	<u>Location</u>	<u>Unit Price</u>	<u>Min. Quan.</u>	<u>Description</u>
160-1	I-35	.75		Unloading Bin
480-18	G-52	.03	50	Retaining Washer
481-16	E-13	.75	6	Truck Bottom Plate W/Roller
2227T-37	G-81	.05	12	Grommet
2419-23	L-52	.25	4	Brakewheel Assem.
3451-6	L-74	.15	4	Coil Shield
3451-32	L-45	.75		Coil Assem.
3459-7	L-75	.15	4	Coil Cover
3459-8	L-71	.15	4	Handrail
3459-9	Obsolete			Bracket
3459-15	Obsolete			Bearing Plate
3459-16	L-75	.15	4	Arm
3459-17	Obsolete			Pinion Arm
3459-18	L-85	.02	25	Groove Pin (Bearing Plate)
3459-19	L-85	.20		Gear
3459-20	L-85	.20	4	Pivot Screw
3459-27	L-85	.25		Frame Cover
3459-33	Obsolete			#4 Lockwasher (Bracket Side)
3459-37	L-85	.05	12	Groove Pin (Arm)
3459-38	L-85	.25		Plunger & Pin Assem.
3459-42		.02	25	#8 Lockwasher (Gear Side)
3469-2	C-15	1.25		Tray Assem.
3469-4	L-76	.75		Swinging Side Assem.
3469-18	L-75	.02	25	Rivet (Bearing Plate)
PT-1	H-21	1.00		Basic Truck
2-56 x 1/4"		.02	25	Coil Cover Screw
4-48 x 3/8"		.02	25	RH Handrail Screw