

**OPERATING
INSTRUCTIONS
And PARTS LIST**

**For:
Platform Hoists
Plus:
Platform and Hoist
Accessories**

OBSOLETE

USE APPROXIMATELY MID 1980s - EARLY 1990s


The Highest Standard

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Model: _____

Serial Number: _____

Date Purchaed: _____

Purchased From: _____

Two Basic Platform Hoists

Please Read

The hoists covered in this operations manual have been engineered to perform certain lifting tasks efficiently, with a minimum of risk, over extended periods without mechanical problems. Following the basic instructions contained in this manual will help ensure that this equipment performs its functions as stated without adding to the endangerment of personnel, equipment, or materials.

Powered Platform Hoists

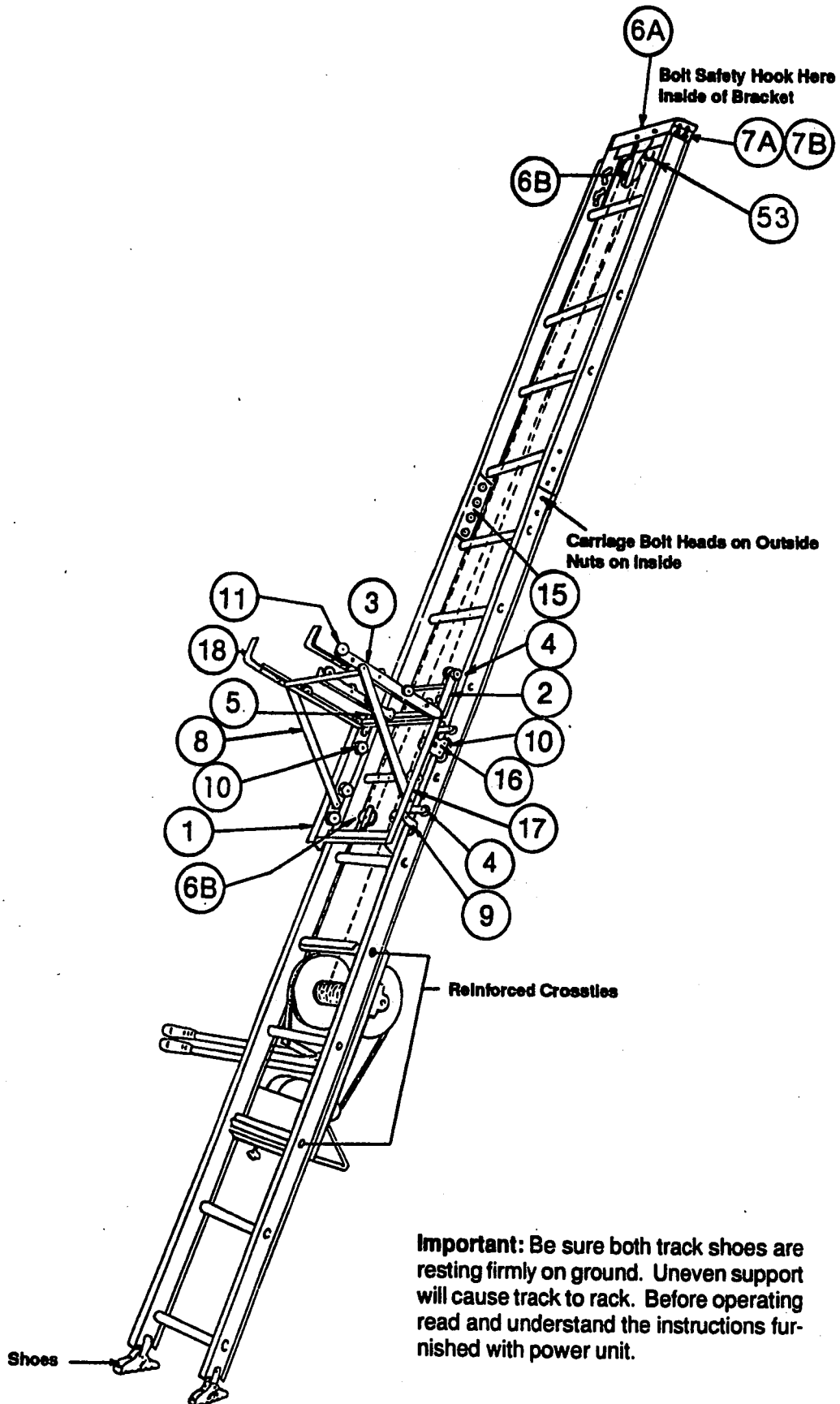
PL-250 ♦ Medium Duty

- Model PL-250 Platform.
- 17" wide track with 3¼" wide rails
- Model 250 Power Unit, gasoline or electric,
- Hoist speed varies to 220 ft./min.
- Capacity: 200 lbs. plus the 40 lb. platform.

PL-400 ♦ Heavy Duty

- Model PL-400 Platform.
- 24" wide track with 3¼" wide rails.
- Reinforced rungs for Power Hoist mounting.
- Model 250 Power Unit, gasoline or electric,
- Hoist speed varies to 110 ft./min.
- Capacity: 400 lbs. plus the 88 lb. platform.

Note: Platform speeds and capacities are average and are based on ⅝ inch diameter of cable. As cable builds up on drum, lifting speed increases and lifting capacity decreases in direct proportion to drum diameter.



Parts List

PL250 PLATFORM HOIST

ITEM	PART	QTY	DESCRIPTION
1	00803	1	MAIN FRAME
2	04302	1	PIVOT BRACKET
3	04303	1	PLATFORM
4	04804	6	GUIDE ROLLER
5	04305	1	ROD
6A	00576	1	TOP SHEAVE BRACKET
6B	00806	1	TOP SHEAVE
7A	00131	4	SPRING
7B	00575	4	BOLT & NUT FOR 6A
8	04308	2	BRACE
9	04309	2	RETAINING BRACKET
10	04810	6	TROLLEY WHEEL
11	04811	12	2" DIAMETER WHEEL
15	00828	2	SPLICE PLATE PL250
53	00653	1	SAFETY HOOK
	00831		NUT & BOLT SPLICE
*	06038	1	SHOE KIT W/BRKTS.
*	06039	1	SHOE KIT W/O BRKTS.
#	06095	1	SHOE KIT W/NUT&BOLT
#	06096	1	SHOE KIT W/BRKETS
	06042		REPLACEMENT RING
	00832		WING NUT & BOLT

PL400 PLATFORM HOIST

ITEM	PART	QTY	DESCRIPTION
1	00805	1	MAIN FRAME
2	04202	1	PIVOT BRACKET
3	04203	1	PLATFORM
4	04804	8	GUIDE ROLLER
5	04205	1	ROD
6A	00574	1	TOP SHEAVE BRACKET
6B	00806	2	TOP SHEAVE
7A	00131	4	SPRING
7B	00575	4	BOLT & NUT FOR 6A
8	04208	2	BRACE
9	04209	2	RETAINING BRACKET
10	04810	10	TROLLEY WHEEL
11	04811	16	2" DIAMETER WHEEL
15	00828	2	SPLICE PLATE PL200
16	04216	2	WHEEL BRACKET
17	04217	2	WHEEL PLATE
18	04218	2	PLATFORM STOP
53	00653	1	SAFETY HOOK
	00831		NUT & BOLT SPLICE
*	06038	1	SHOE KIT W/BRKTS.
*	06039	1	SHOE KIT W/O BRKTS.
#	06095	1	SHOE KIT W/NUT&BOLT
#	06096	1	SHOE KIT W/BRACKETS
	06042		REPLACEMENT RING
	00832		WING NUT & BOLT

* LOUISVILLE LADDER TRACK W/ROUND SIDE RAIL
WERNER LADDER TRACK W/SQUARE SIDE RAIL

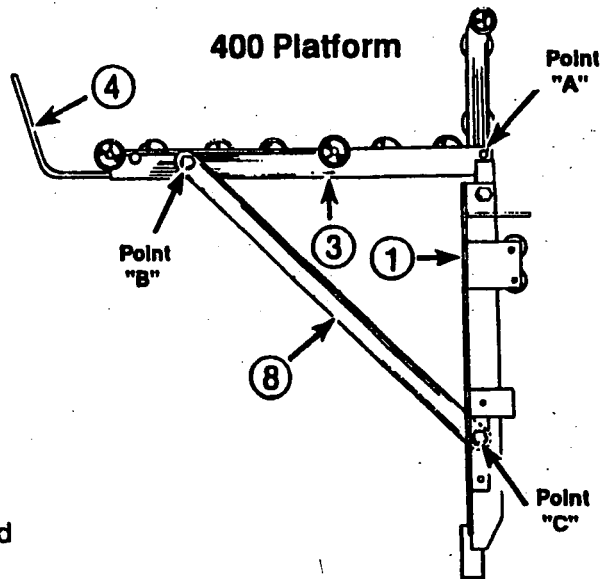
Completing The Platform Assembly

PL-250 ♦

The two # 8 braces are fastened in place with the bolts and nuts provided on the platform #3 at point "B" and the frame #1 at point "C". Tighten all bolts securely.

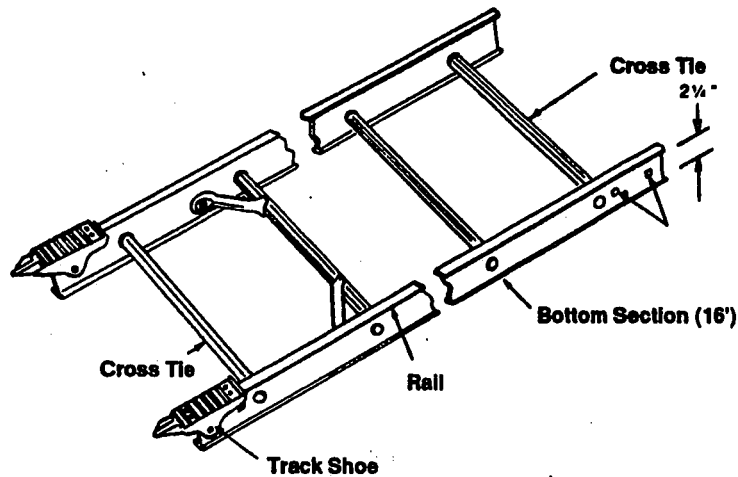
PL-400 ♦

Position the Platform #3 inside the Frame #1 sides and fasten with nuts and bolts provided at point "A". Assemble the two braces #8 as with the PL-250. Material Stops #18 may be bolted to the end of the Platform #3 if required.



Mounting the Platform On Track

Both models have the cross ties located off center of the rails to allow passage of the platform wheels. Before erecting the track, lay the bottom 16 ft. track section on the ground with the rail flange, (the larger distance, from the cross tie $2\frac{1}{4}$ "), up, and the track shoes as shown.



The assembled platform will slide onto the rails from the top of the track section (opposite the shoes). The platform bumper should be on the bottom facing the shoes. Roll the platform down the track without striking the shoes and securely tie it to any cross tie to prevent movement when raising the track.

Setting Up the Track

The standard sectional platform hoist consists of three sections of track: a 16 ft. bottom section with shoes, an 8 ft., and a 4 ft. section, both with splice plates bolted permanently to their bottom end. These sections may be joined together with their splice plates by sliding the bottom of one section into the top of the lower section and installing hex nuts and bolts provided. Tracks of 16 ft., 20 ft., 24 ft., and 28 ft. can be assembled as desired from these three sections. Select a length that will allow the top of the assembled rail to project 2 to $2\frac{1}{2}$ ft. above the cornice or eave of roof.

For longer track lengths, a 16 ft. center section with splice plates attached is available to provide tracks up to 44 ft. in 4 ft. increments. Lengths over 28 ft. require the use of a TRACK SUPPORT to provide additional support for these long tracks.

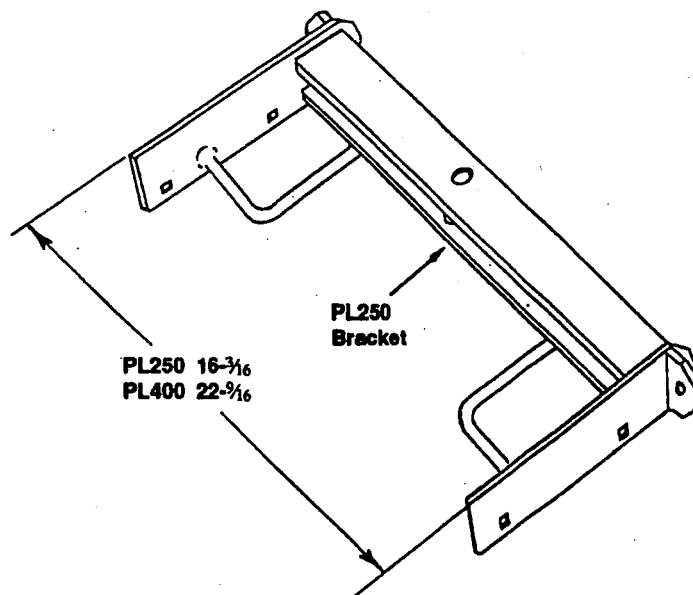


WARNING:
Tighten All Bolts and Nuts Securely. If All Bolts Are Not
in Place and Tightened Securely, Track Failure Will Occur
Under Load.

Mounting the Top Bracket

Slide Top Bracket into end of the top track section and bolt securely to the track. The bar loops (PL-250) or hooks (PL-400) on the back of the Top Bracket must face the flanges of the track opposite the flanges the platform rolls on.

Important: The PL-250 Top Bracket may have two sets of mounting holes. When Bracket is used on a 250 track, use the set of holes that locate the Bracket against the top track rail flanges, (see sketch). If wrong holes are used, cable may cut through top cross tie. The track is now ready to be raised to its operating position.



Use of Track Support

Track lengths in excess of 28 feet require the use of the track support. The table below provides the suggested information for the distance of the bottom of the track to the building and the location of the track support for various conditions.

Building Height	Length of Track	Base of Track to Building	Track Support Location Cross Tie to Bottom
42	44	10' 6"	21st
40	44	10' 0"	20th
36	40	9' 0"	18th
32	36	8' 0"	15th
28	32	7' 0"	13th
24	28	6' 0"	Not Required
20	24	5' 0"	Not Required
16	20	4' 0"	Not Required
12	16	3' 0"	Not Required

This base of track to building distance must be increased by the amount of any overhang on the building on which the platform is being used.



WARNING:

Tighten All Bolts and Nuts Securely. If All Bolts Are Not in Place and Tightened Securely, Track Failure Will Occur Under Load.

Raising the Track



Warning
Keep tracks clear of all electrical wires and equipment!
Never climb tracks!

Caution:

Because of its long length and with the top bracket attached, the track assembly is extremely top heavy and must be kept under control at all times.

Two alternate methods are suggested for raising the track to its operating position.

Procedure A

- 1 - Lay the assembled track with platform and top bracket attached parallel to the building wall that is to support the track.
- 2 - Use a man on the roof with a rope dropped from the roof and attached to the top bracket to pull up the track while a man on the ground with his feet braced against the track shoes to keep bottom of track from slipping aids in raising by pulling against rails, cross ties or platform.
- 3 - Another man on the ground may aid in erecting by "walking" the track up hand over hand on the rails or cross ties.
When track reaches a vertical position, carefully turn the track 90° with platform away from building. Move bottom of track away from building ¼ of height of building where track is to be supported. Allowance must be made for an overhang on building. See page 6 for approximate distances of base of track from building.

Alternate Procedure B

- 1 - Place track perpendicular to building with bottom shoes resting against building to prevent slipping.
- 2 - Use a man on the roof with rope dropped from the roof and attached to top bracket to pull up the track. A man on the ground may aid in erecting by "walking" up the track hand over hand on the rails or cross ties.
- 3 - When track reaches a vertical position, carefully turn the track 180° with platform away from building ¼ of height where track is supported. Allowance must be made for an overhang on building. See page 6 for approximate distances of base of track from building. AFTER USING ONE OF THE ABOVE PROCEDURES CONTINUE AS FOLLOWS.
- 4 - Securely tie the track to the roof with a rope fastened to a cross tie or top bracket to prevent track from slipping. Platform will not roll on track if rope is fastened around the rails.

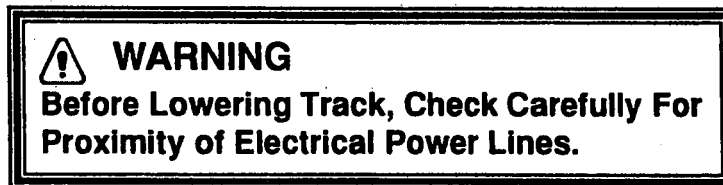
- 5 - Mount the power unit on the 3rd. and 5th. track cross ties (reinforced on PL-400 track) and clamp in place. Fasten or bolt the operating handles on the power hoist. When facing the power unit from the rear or building side of the track, the 250 power unit handles are on your right.

The Power Unit is designed to operate in essentially a vertical position. This is necessary for the proper operation of the brake and clutch levers. They will not work if the unit is in a horizontal position.

When used on platform hoist, place the #6 clamp on the fifth cross tie from the bottom on the underside of the track. Center the unit between the track rails and lock in place by rotating #7 lock to the left. Insert #38 lock pin in hole provided to prevent lock from loosening.

- 6 - Using a rope from the roof, and with brake released, pull the hoist cable to the roof on the underside of track and reeve through the sheave on the top bracket. Drop the cable to ground (on platform side of track) and fasten to hook provided on the platform. NOTE: The PL-400 requires two parts of line. After dropping cable end to ground, pass cable through block on PL-400 platform and pull end once more to the roof on platform side of track. Fasten end to hook provided on top bracket.
- 7 - Remove the tie rope holding platform in position on the track.
- 8 - Make certain that both track shoes or spikes are firmly resting on a level surface. This prevents track slippage or uneven loading of track which could cause damage or injury to equipment or personnel.
- 9 - Attach accessories to platform as required. Before operating, read and understand the power hoist operating instructions following this section on page 12. Your platform hoist is now ready for use.

Lowering the Track



When dismantling and lowering the equipment, reverse the erection procedure.

Raising the Platform and Load

To raise the loaded platform, lift the clutch lever, left. This tightens the clutch belt and automatically releases the brake, permitting the platform to roll up the track. When platform reaches the top of the track, release the clutch lever immediately. This action stops the platform and automatically applies the brake which holds the load and platform.

The load will now roll automatically off the platform on to the roof or angle guide, should you be using one. If platform is permitted to jam against the spring stops on the top bracket, the drive belt may jam in the drum sheave, preventing the lowering of the platform to the ground to receive the next load. Should this occur, it will be necessary to shut off gas engine or electric motor and release the jammed belt by inserting screwdriver between belt and sheave groove.

Lowering the Platform and Load

Lift the brake lever slowly to lower platform to the ground. Lowering speed, for SAFE operation, should not exceed 50 feet/minute. Continue to decelerate the platform as it nears the ground to prevent damage to platform or track.



WARNING

Never Jam on Brake. Broken hoist cables and/or severe injury to personnel or equipment may occur. Make certain platform does not strike track shoes on reaching the bottom of the track.

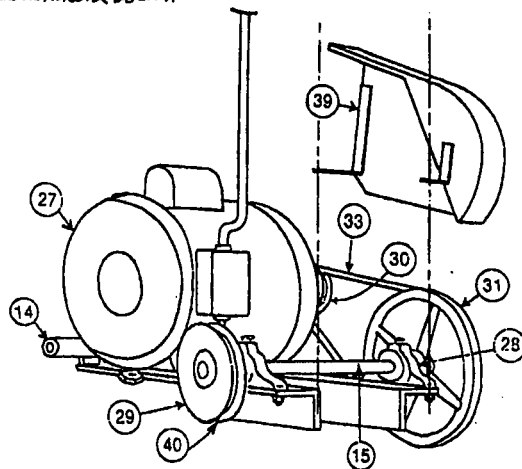
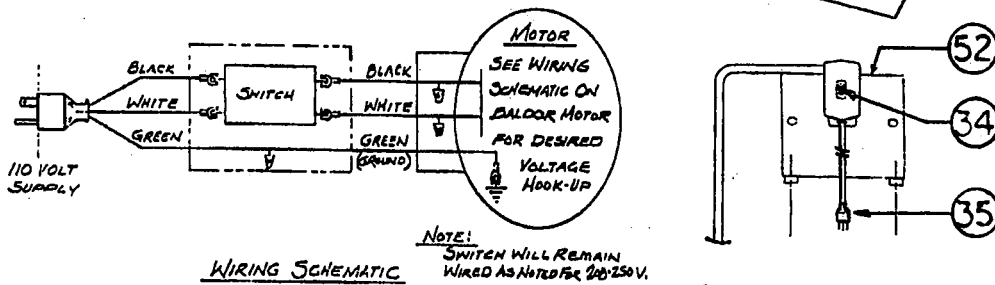
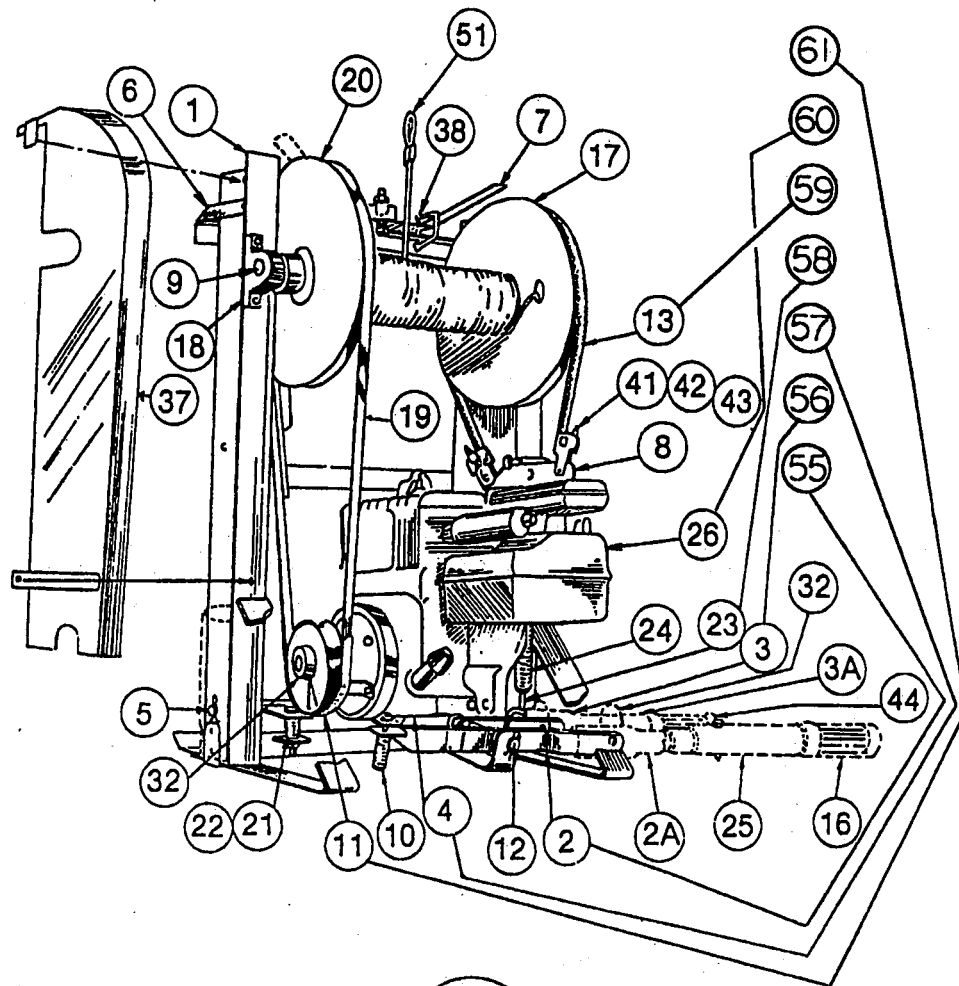
Power Hoist Models 250-G and 250-E

To prevent damage or injury to the equipment or operator it is important that the operator of this equipment thoroughly understands these instructions. OSHA and/or similar agencies require that these instructions for operating be readily available for reference on the job site.

Parts List

250E - 250G POWER DRIVES

ITEM	PART	QTY	DESCRIPTION	ITEM	PART	QTY	DESCRIPTION
1	00701	1	FRAME	23	00737	1	BOLT EYE 13 1/4"
2	04402	1	CLUTCH LEVER	24	00661	1	SPRING
2A	04403	1	CLUTCH HANDLE	25	04414	1	HANDLE EXTENSION
3	04404	1	BRAKE LEVER	26	00726	1	ENGINE GAS 3EP
3A	04405	1	BRAKE HANDLE	27	00166	1	MOTOR ELECT. 1.5 HP
4	04406	1	ENGINE PLATE	28	00728	2	BEARING 3/4"
5	04407	1	PIVOT SHAFT	29	00153	1	SHEAVE BK40 X 3/4
6	04408	1	RUNG CLAMP	30	00730	1	SHEAVE AK30 X 7/8
7	04409	1	RUNG LOCK	31	00731	1	SHEAVE SAK80 X 3/4
8	04410	1	BRAKE LEVER	32	00732	1	SHEAVE BK52 X 3/4
9	04411	1	SHAFT	33	00733	1	BELT A32
10	00149	1	SPRING	34	00163	1	SWITCH
11	04412	1	BELT GUIDE (GAS)	35	00173	1	CORD & PLUG
12	04413	1	PIN	37	05407	1	GUARD
13	00625	1	BRAKE ROPE	38	00138	3	SPRING & LOCK PIN
14	04401	1	MOTOR PLATE	39	05408	1	GUARD (ELECTRIC)
15	04400	1	COUNTER SHAFT	40	05399	1	BELT GUIDE (ELECT)
16	00654	1	HANDLE GRIP 7/8"	41	00123	2	BRAKE ROPE END(CBA)
17	00611	1	BRAKE SHEAVE 10"	42	00124	2	BRAKE ROPE CLAMP
18	00718	2	BEARING PB100 X 1	43	00125	2	PIN & COTTER 5/16
19	00719	1	V BELT B56	44	00143	1	HANDLE GRIP 1"
20	00720	1	SHEAVE & DRUM	51	04210	1	ROPE 5/32" 130 FEET
21	00131	1	SPRING	52	06720	1	GUARD/SWITCH ASSY.
22	00136	1	SPRING				
PARTS BELOW FOR HONDA UNIT ONLY							
1E	00702	1	FRAME HONDA	58	00739	1	ROD END HONDA
55	04420	1	CLUTCH LEVER HONDA	59	00628	1	BRAKE ROPE HONDA
56	04421	1	BRAKE LEVER HONDA	60	00630	1	ENGINE GAS HONDA
57	04422	1	ENGINE PLATE HONDA	61	04423	1	BELT GUIDE HONDA



Setting up

The Power Unit is designed to operate in essentially a vertical position. This is necessary for the proper operation of the brake and clutch levers. They will not work if the unit is in a horizontal position.

When used on platform hoist, place the #6 clamp on the fifth cross tie from the bottom on the underside of the track. Center the unit between the track rails and lock in place by rotating #7 lock to the left. Insert #38 lock pin in hole provided to prevent lock from loosening.

When you face the unit from the back of the track, the operating handles will be on your right.

250 Hoist Power Source

Gasoline Engines Are Shipped Without Oil in the Crankcase. Do Not Attempt to Operate the Engine Without Filling the Crankcase With Oil or Warranty On Engine May Be Voided.

The electric motor or gasoline engine are guaranteed against defect by their specific manufacturer. If trouble is experienced with these power sources, check your Yellow Pages for the Authorized Service Distributor nearest you.

Electric Motor

The motor is wired at the factory for 110 volt, single phase service. Consult the name plate for wiring changes required for 220 volt, single phase service.

To protect the motor and get maximum efficiency from the motor, be sure the extension cords used conform to the following table:

0 - 50 ft.....	#12 two wire and ground
50 - 150 ft.....	#10 two wire and ground
150 - 250 ft.....	#8 two wire and ground

Operation

Before operating the hoist, start the gasoline engine and let it warm up until it is operating smoothly. To raise the load, first advance the throttle to increase the engine speed. Then, lift the clutch handle slowly with a smooth upward motion. This automatically releases the brake and tightens the clutch belt to lift the load.

To stop, release the clutch handle. This loosens the belt and automatically applies the self locking brake. Note that the brake handle is not used in raising or stopping the load.

To lower a load, raise the brake handle slowly to keep the speed of lowering under control at all times. Lowering speed should never exceed lifting speed. Good safety practice will confine lowering speed to a maximum of 50 feet/minute.

Never Jam on Brake. Broken hoist cables and/or severe injury to personnel or equipment may occur. Make certain platform does not strike track shoes on reaching the bottom of the track.

Maintenance

Oiling: The main #18 bearings are lubricated for life and need no attention. Oil all pivots and linkage joints occasionally. The #28 bearings on the 250-E unit are bronze with graphite inserts. Reservoirs built into the bearings hold a good supply of oil. Inspect frequently and keep filled with light oil as required.

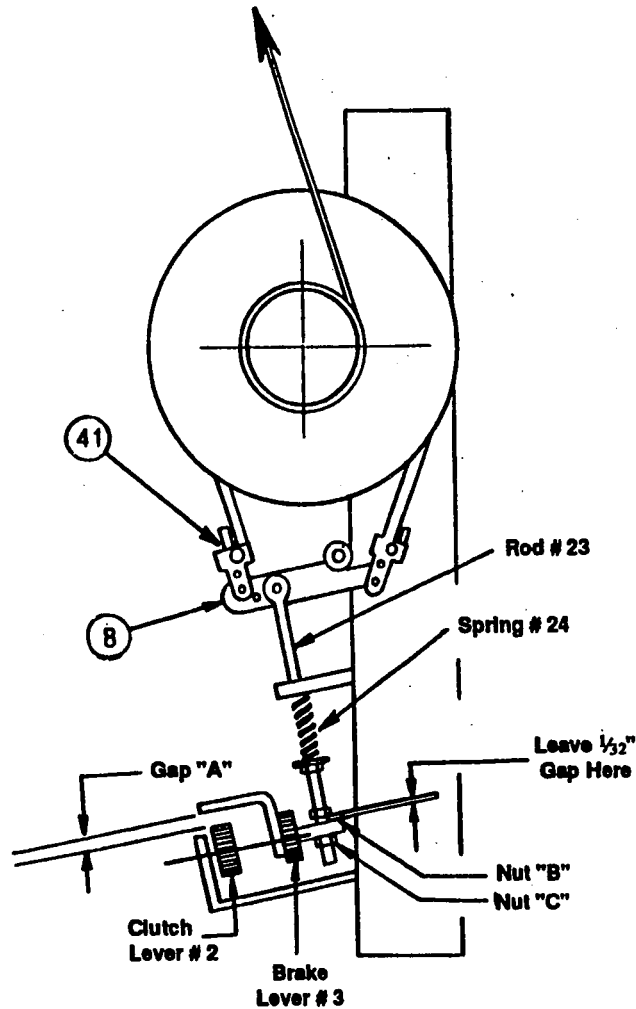
Brake Adjustment

The dacron brake will hold the load when the lever is released. If however, the load drifts down, tighten the nut to compress #24 spring. This will increase the initial load on the brake lever.

CAUTION:

Over-tightening will fully compress the spring and brake will not release.

If the load still drifts down, move the brake rope end, #41, from the outer hole to the inner hole on the brake lever. As the dacron brake wears, the brake lever may need adjusting to bring the lever up to its proper operating position. Alternate holes are provided in the brake rope ends for this purpose.



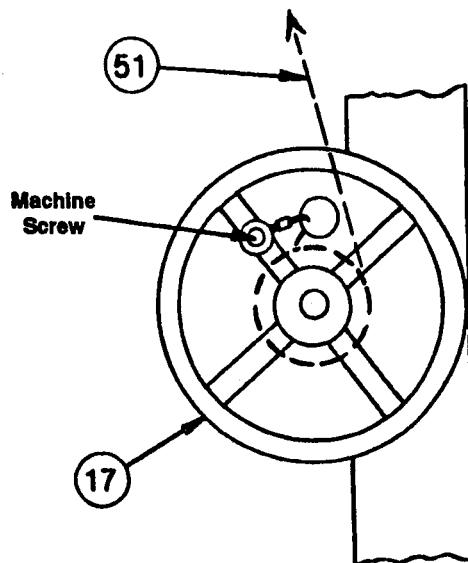
Clutch-Brake Adjustment

Combination clutch and brake actions to raise rated capacity loads with the clutch handle is adjusted at the factory. If engine stalls when clutch handle is lifted, check to determine if brake is releasing before clutch belt is tightened. To correct, close the gap by unscrewing Nuts "B" and "C" to lower brake lever.

When properly adjusted, the brake will release before #10 spring is entirely compressed. Make this adjustment carefully: if there is no Gap "A", the brake will release before clutch belt is tightened. This will cause a sudden jerking before clutch belt is tightened, resulting in an overload on hoist, cable and track. Always leave a $\frac{1}{32}$ " gap between #3 lever and nuts "B" and "C". (See diagram page 14).

Replacing Hoist Cable

Replace any hoist cable with a broken strand. Each end of the hoist cable is equipped with loops. The small loop is attached to the #17 brake sheave by passing it through the hole and bending it back against the pull or load, snubbing it over the web of the sheave and fastening it to the sheave with the screw provided. The large loop is used for attaching loads with a shackle and hook. On platform units the hook is mounted on the platform or top bracket, and the loop slipped over the hook.



Accessories for Platform Hoist

Solar Panel Attachment PL-400 especially designed to provide safe, sure lifting of virtually any size or shape of solar panel.

Mounting - Remove the platform stops if mounted on platform.

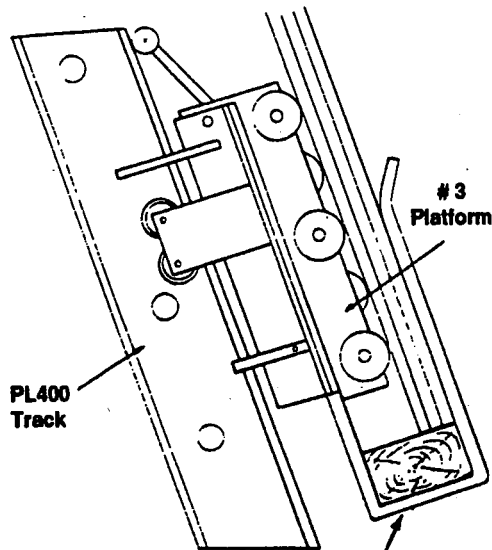
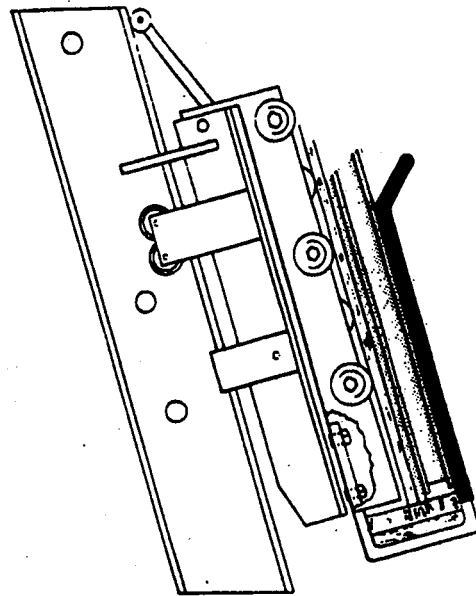
Detach the two platform braces as shown allowing the platform to drop down into a vertical position.

Attach the two padded solar panel brackets using the existing platform stop holes and hardware.

For extra width, simply remove the wheels from the platform.

To modify the base for special panel configurations, simply adjust

the base and blocking (sample idea shown.)



PL400
Track

#3
Platform

2' x 6' x 4' Long for Trusses
or Solar Panels. Bolt through
holes in carrier.

Plywood Carrier PL-400 Only
Remove #8 braces and bolt carrier in
place of stops. (See Pg. 17)

Material should be held against
track and platform with rope held by
man above.

Raise sheets slowly when nearing
top of track. Guide material over top
of track.

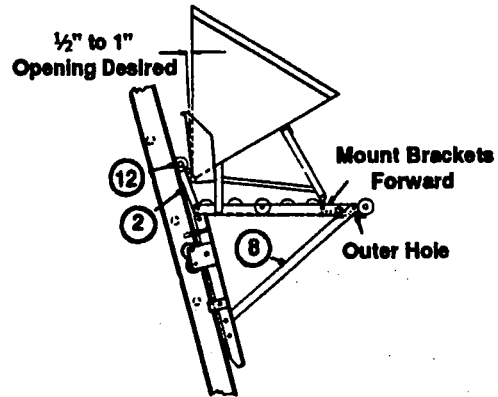
Gravel Hopper

Before placing hopper on platform select mounting position #1 or #2. Then, depending on choice, place #8 braces in inner or outer holes on #3 platform.

Before tightening the bolts on the hinged brackets, make certain that both frontlegs of hopper are resting solidly on platform. (If not, excessive load will be placed on #12 wheels causing undue wear.) The brackets are slotted for this adjustment. When the hopper is properly placed the discharge gate will be slightly open as shown on the sketches.

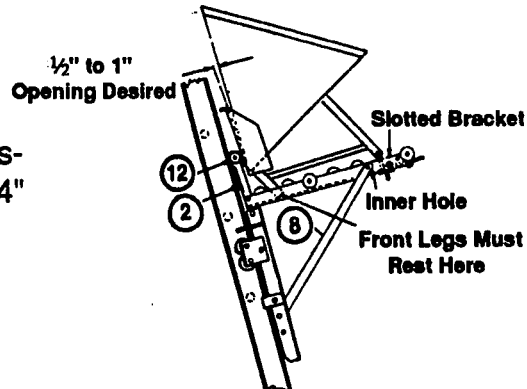
Position #1

Preferred mounting because the top of hopper is lower for easier filling. But, the gravel must be dry to slide on this discharge angle.



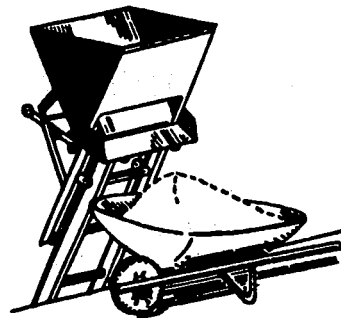
Position #2

This mounting gives steeper discharge angle, but filling height is 4\" higher.



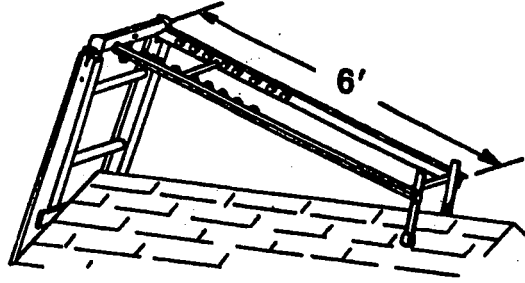
Operation

When the platform reaches the top, and #2 pivot bracket goes over the top of the rails, the discharge gate opens and dumps the material into waiting wheelbarrow or spreader.



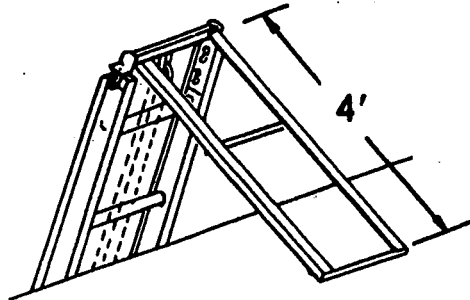
6' Roller Angle Guide

Similar to 4' Guide except equipped with conveyor wheels to carry and store material away from Platform discharge on shallow inclines.



4' Angle Guide

Fits on hooks or loops provided in 6A top bracket. It guides materials from platform to roof.



When ordering parts, give Model & Serial No. from name plate on #1 Frame. **Not Engine Serial No.** Order parts for engine and motor from Manufacturer.

Printed in U.S.A.


REIMANN
HOISTING EQUIPMENT
GEORGER
The Highest Standard