



Instruction Manual

Scale Pallet Truck

Part Number: 272936 & 272938



Note: Operator MUST read and understand these operating instructions before using this Hand Pallet Truck.

ATTENTION: TO INSURE SAFE AND EASY USE OF YOUR WESCO PALLET TRUCK, READ THESE INSTRUCTIONS ENTIRELY BEFORE USING.

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WARNING: The battery in this product contains lead. The State of California under Proposition 65 has determined that exposure to lead is known to cause cancer or birth defects or other reproductive harm. Please wash hands after use.

1. GENERAL INFORMATION

1.1 DESCRIPTION

Thank you for purchasing a Wesco Scale Pallet Truck. This pallet truck is designed for transporting and horizontal lifting. The pallet truck features a 2 year pump warranty, and a LED display scale with a weighing accuracy of ± 4.4 lbs, or 2 kg. It operates with 7" moldon polyurethane or nylon steering wheels and 3" moldon polyurethane or nylon load wheels.

1.2 SPECIFICATIONS

Model	272936	272938
Capacity	5,000 lbs	5,000 lbs
Weight	336 lbs	314 lbs
Fork Lowered Height	2.9"	2.9"
Fork Raised Height	8"	8"
Single Fork Width	7"	7"
Fork Length	47.5"	47.5"
Overall Width	27.5"	22.5"
Overall Length	62.5"	62.5"
Overall Height	48.25"	48.25"
Steering & Load Wheels	Polyurethane	Polyurethane

Materials and specifications are subject to change without notice.

2. PRE-OPERATION ASSEMBLY

Note: Before use, the truck should be charged overnight for optimal performance.

2.1 ATTACHING DISPLAY UNIT (230)

- 1) Remove 4 pcs bolts (233) from the fork frame (218).
- 2) Remove 4 pcs bolts (237), then take away the cover board (231)
- 3) Set the fixation box (232) onto the head of pallet truck with one hand, and with the other hand take the cable out the door of the fixation box (232).
- 4) Tighten 4 pcs bolts (233) securely.
- 5) Open the cover of battery; fix battery pack in battery compartment with velcro as shown on page 4.
- 6) Connect the cable to the display unit (230). **NOTE: The connect port is on the back-left side of the display unit.**
- 7) Cover the coverboard 231, then tighten 4 pcs bolts (237) securely.

The display unit is now fixed.

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2. PRE-OPERATION ASSEMBLY (CONTINUED)

2.1 ATTACHING DISPLAY UNIT (230) (CONTINUED)

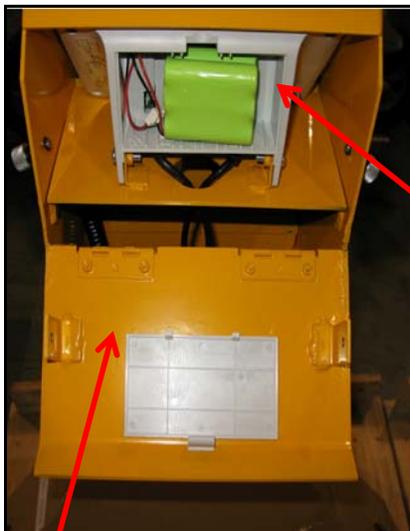
Step 5 Battery Attachment Details:



Rear Steel Cover of Battery Case



Plastic Internal Battery Cover visible after removal of Rear Steel Cover.



Rear Steel Cover opened and Plastic Internal Battery Cover removed.

Battery Compartment



Battery removed revealing Velcro Pad. Tape should be removed from pad to expose stick surface. Battery Pack should be pressed against sticky surface.

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2. PRE-OPERATION ASSEMBLY (CONTINUED)

2.2 ATTACHING DRAW-BAR TO PUMP

If you have purchased a boxed pallet truck, some assembly is required. You will need the following tools: a hammer, pliers, a wrench, etc. Along with those tools, the following parts are needed: one Axle with Hole (105) and two Elastic Pins (106). These parts are packaged in a plastic bag, which is packed inside the draw-bar. **NOTE: One Elastic Pin is in the Axle (105).**

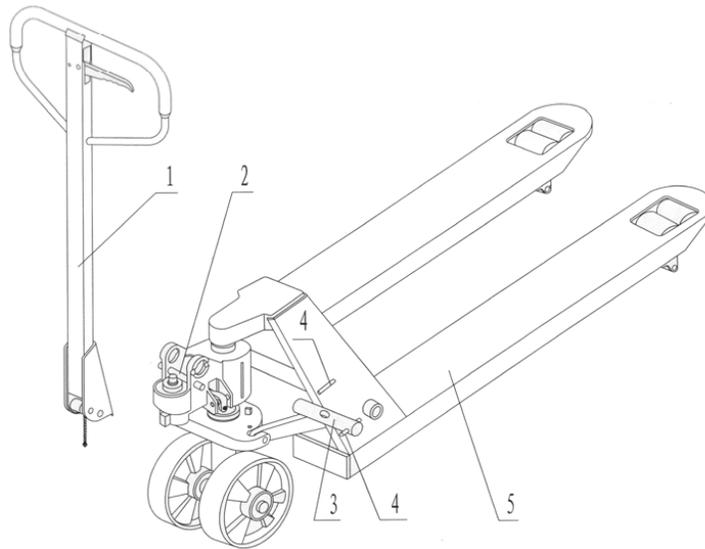


Figure 1 Part Identification

1. Draw Bar
2. Pin
3. Axle with Hole
4. Elastic Pin
5. Fork Frame

Fig. 1

2.2.1 Insert the Draw-Bar onto the Pump Piston (303), then use a hammer to insert the Axle with Hole (105) into the Hydraulic Pump and Draw-Bar **from the right to left** (from the perspective of standing behind the unit). (See Fig. 2).

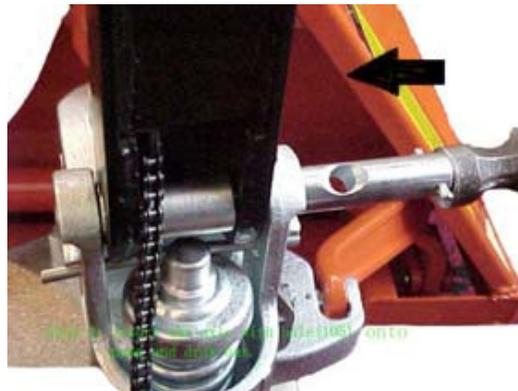


Fig. 2

2.2.2 Set the Control Handle (117) to the 'LOWER' position, then pass the Adjusting Nut (104), Adjusting Bolt (103) and Chain (102) through the hole of the axle (105) by hand.

2.2.3 Press the Draw-Bar (110) down and then take away the Pin (See Item 2 in Fig. 1).

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3. SCALE OPERATION

3.1 SCALE DISPLAY INFORMATION

3.1.1 Display

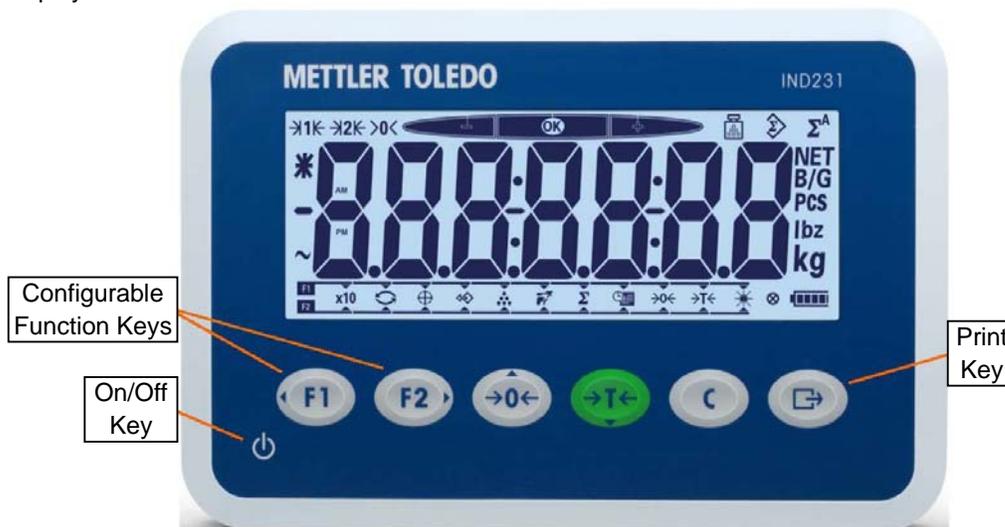


Figure 3

3.1.2 Keypad Functions

KEY	FUNCTION	DIRECTIONAL FUNCTION	DESCRIPTION
	Function 1	Left	- Function varies depending on what is selected in the menu. - Move the focus left or back to previous menu.
	Function 2	Right	- Function varies depending on what is selected in the menu. - Move the focus right or access to the next submenu.
	Zero	Up	- Used to reset the displayed weight to Zero.
	Tare	Down	- Captures current weight as a tare value, and sets terminal to Net mode.
	Clear	None	- When in the net weight mode, press CLEAR button to clear the current tare value; the display will revert to the gross weight value. CLEAR operates regardless of motion on the scale. NOTE: Once the tare value has been cleared, it cannot be recalled. The complete tare process as described above must be performed.
	Transfer/Print /Enter Key	None	- Send Information to the RS232 interface. - Access to setup menu by holding the button. - Used for printing application. - Press the ENTER key to accept the item or selection and move to the next display.
	On/Off	None	- Turn on or off the terminal. - Exit the setup menu. - Cancel the edit setting under applications/menu.

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3. SCALE OPERATION (CONTINUED)

3.1 SCALE DISPLAY INFORMATION (CONTINUED)

3.1.3 Display Symbols

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	Average Piece Weight		Function Keys F1 & F2
	Accumulation Weight		Expand Display
	Auto Accumulation Weight		Unit Switch
	Over/Under Checkweighing		Check Weigh
	Center Of Zero		Recall
	Range 1, Range 2		Counting
	Averaged Or X10 Weight		Animal Weighing
	Minus Value		Accumulation
	Dynamic State		Date & Time
	Dash And Colon		Backlight Adjustment
	B/G And Net		Zero
	Display Counts		Tare
	Unit		Key Press Indicator
	Battery Status		

3.2 ON/OFF

Switching On:

- Press  .
The display lights up and then shows the software number. When the weight display appears the weighing terminal is ready for operation.

Switching Off:

- Press and hold  until -OFF- is displayed.

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3. SCALE OPERATION (CONTINUED)

3.3 ZEROING

Zeroing corrects the influence of slight soiling on the load plate

Setting to Zero Manually

1. Unload weighing platform.
2. Press . The zero display appears.

Automatic Zeroing Maintenance (AZM)

- Automatic Zero Maintenance (AZM) enables the display to reset to the center of zero in order to compensate for conditions such as terminal or load cell drift or debris on a scale platform. The AZM operating range is selectable from 0.5, 1, 3 or 10 divisions. Within the configured range, when the terminal is in a no motion condition, AZM makes small adjustments to the current zero reading to drive the weight reading toward the true center-of-zero.

3.4 SIMPLE WEIGHING

1. Press and hold  until -OFF- is displayed.
2. Wait until the motion indicator goes out.
3. Read weighing result.

3.5 WEIGHING WITH TARE

Taring

- Place the empty container on the weighing platform and press .

Clearing the Tare

- Press . The **Net** indicator goes out, the gross weight appears in the display.

Automatic Tare

- The display can be configured so that tare is taken automatically by enabling auto tare. With auto tare enabled, the display changes to a zero net weight indication after the weight exceeds a set tare threshold value.

Printing/Transferring Data:

- Press . The display contents are printed out or transferred to a computer.

Note: The display contents will not be printed or transferred if the scale is in motion.

3.6 NOTES ON BATTERY

The amount of time the display will operate on a fully charged battery will depend on the number of load cells connected and the use of the backlight. The battery status icon indicates the amount of power remaining.

SYMBOL	BATTERY CONDITION
	Fully Powered
	Less than 10% charge remaining

4. ADJUSTING RELEASE DEVICE

The Control Handle (117) is located on the Draw-Bar of the truck and can be adjusted to three different positions:

- | | |
|--------------|---|
| Raise | -handle down |
| Drive | -handle in center position |
| Lower | -handle up, the lever moves back to the drive position when released. |

If however they have been changed, you can adjust according to following step:

- 4.1 If the forks elevate while pumping in the **DRIVE** position, turn the Adjusting Nut (104) on the Adjusting Bolt (103) clockwise until pumping action does not raise the forks and the **DRIVE** position functions properly.
- 4.2 If the forks descend while pumping in the **DRIVE** position, turn the Nut (104) counter-clockwise until the forks do not lower.
- 4.3 If the forks do not descend when the Control Handle (117) is in the **LOWER** position, turn the Nut (104) clockwise until raising the Control Handle (117) lowers the forks. Then check the **DRIVE** position according to item 4.1 and 4.2 to be sure the Nut (104) is in the proper position.
- 4.4 If the forks do not elevate while pumping in the **RAISE** position, turn the Nut (104) counter-clockwise until the forks elevate while pumping in the **RAISE** position. Then check the **LOWER** and **DRIVE** position according to item 4.1, 4.2 and item 4.3.

5. MAINTENANCE

5.1 OIL

Please check the oil level every six months. The oil can be hydraulic oil: ISO VG32, its viscosity should be 30cSt at 104°F (40°C), total volume is about 0.4lt.

5.2 AIR REMOVAL

Air may contaminate the hydraulic oil through use during transportation or pumping up to a position. It can cause the forks to not elevate while pumping in the **RAISE** position. The air can be cleared out by setting the control handle (117) to the **LOWER** position, then moving the draw-bar up and down repeatedly.

5.3 DAILY CHECK AND MAINTENANCE

Check the pallet truck daily to limit wear as much as possible. Pay special attention to the wheels and the axles because thread, rags, etc. may block the wheels. The forks should be unloaded and set to the lowest position when not in use.

5.4 LUBRICATION

All bearings and shafts are provided with long-life grease at the factory. Long-life grease only needs to be applied at monthly intervals or after each thorough cleaning of the lubrication points.

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6. SAFETY INFORMATION

- 6.1 Operator should read all warning labels and instructions before using this truck.
- 6.2 Do not use on uneven surfaces.
- 6.3 Do not operate the pallet truck unless you are familiar with the unit and have been trained or authorized to do so.
- 6.4 Do not operate the pallet truck unless you have checked its condition. Check the wheels, the rollers, the draw-bar unit, the fork unit, the lever plate, etc.
- 6.6 Do not lift or transport people on the pallet truck.
- 6.7 Do not load goods like fig. 4/B. Center loads on the pallet truck.
- 6.8 Do not load the truck over the maximum capacity of the unit: 5,000 lbs.

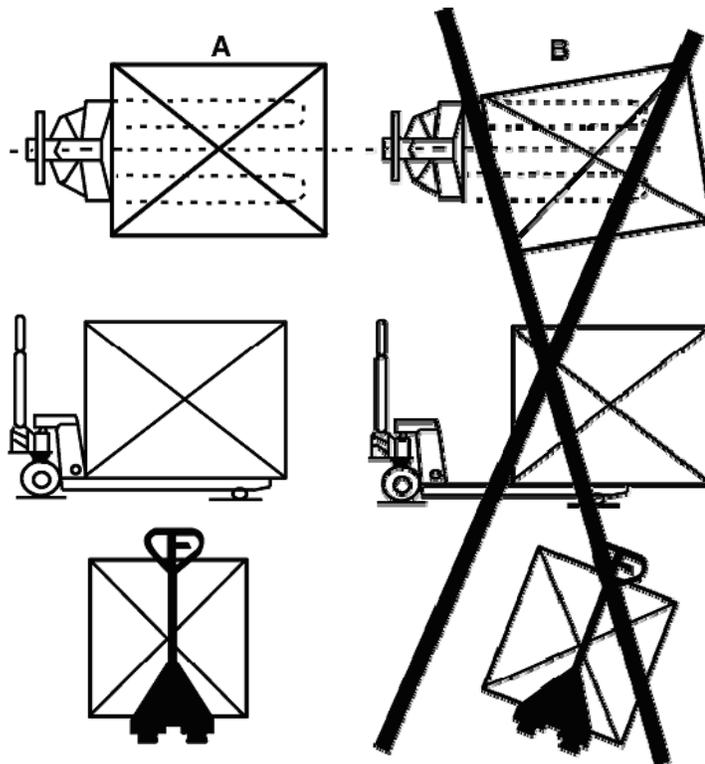


Figure 4

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7. TROUBLE SHOOTING

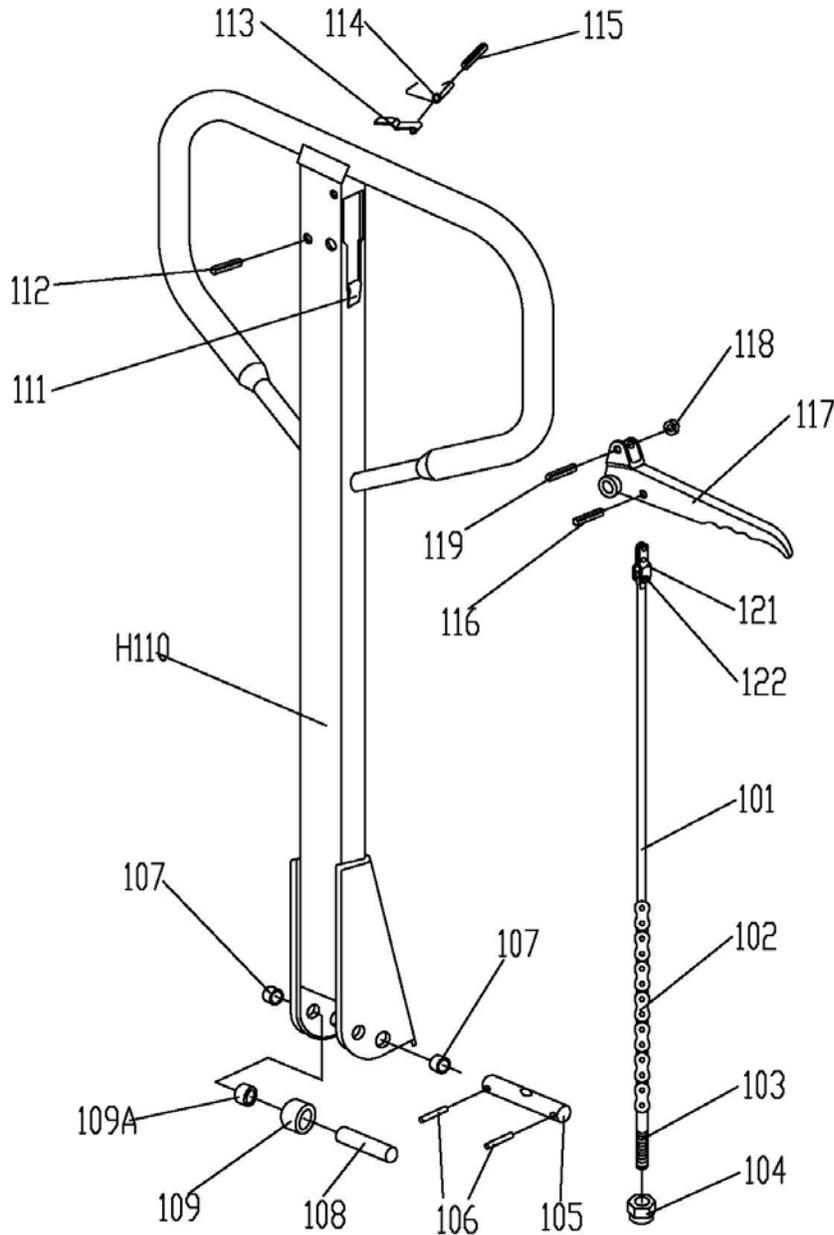
No	Problem	Causes	Solutions
1	Forks cannot lift to maximum height	- There is not enough hydraulic oil.	- Pour in hydraulic oil.
2	Forks cannot lift up	- No hydraulic oil. - The oil has impurities. - The Adjusting Nut (104) is too high, keeping the pumping valve open. - Air enters the hydraulic system.	- Refill the hydraulic oil. - Change the oil. - Adjust the nut (104) or screw (318) (see item 4.4) - Remove the air.(see item 5.2)
3	Forks cannot be lowered	-The Piston Rod (328) or Pump Body (322) is deformed resulting from partial loading slanting to one side or over-loading. -The fork was kept in a high position for an extended amount of time. The piston rod bore to arise in rusting and jamming of the rod. - The Adjusting Nut (104) or Screw (318) is not in correct position.	- Replace the Piston Rod (328) or Pump Body (322). -Keep the fork in the lowest position if not using, and pay more attention to lubricate the rod. -Adjust the Nut (104) or Screw (318) (see item 4.3)
4	Leaks	- Sealing parts worn or damaged. - Some part cracked or worn down.	- Replace with the new parts. - Replace with the new part.
5	Forks lowers without the release valve working	- Impurities in the oil prevent the release valve from closing. -Some part/s of hydraulic system are cracked or bored. - Air enters the hydraulic system. -Sealing parts worn or damaged. -The Adjusting Nut (104) or Screw (318) is not in the correct position.	- Replace with new oil. - Inspect and replace the damaged part/s. - Remove the air. (See item 5.2) - Replace with the new parts. - Adjust the nut (104) or screw (318). See item 4.2)
6	The scale's result is incorrect	- The bolts (224) scrape the platform (223) -The platform scrapes the fork (218)	- Adjust the bolts (224) - Face lifting the platform
7	Nothing is displayed by the terminal	- The battery power is too low	- Replace the battery
8	Error code appears: E1, E2, E3...	- See "METTLER TOLEDO HAWK Terminal Technical Manual" for IND221 or IND231 Weighing Terminal (Model labeled on display unit)	

NOTE: DO NOT ATTEMPT TO REPAIR THE PALLET TRUCK UNLESS YOU ARE TRAINED AND AUTHORIZED TO DO SO.

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8. HANDLE INFORMATION

8.1 HANDLE DIAGRAM



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8. HANDLE INFORMATION

8.2 HANDLE PARTS LIST

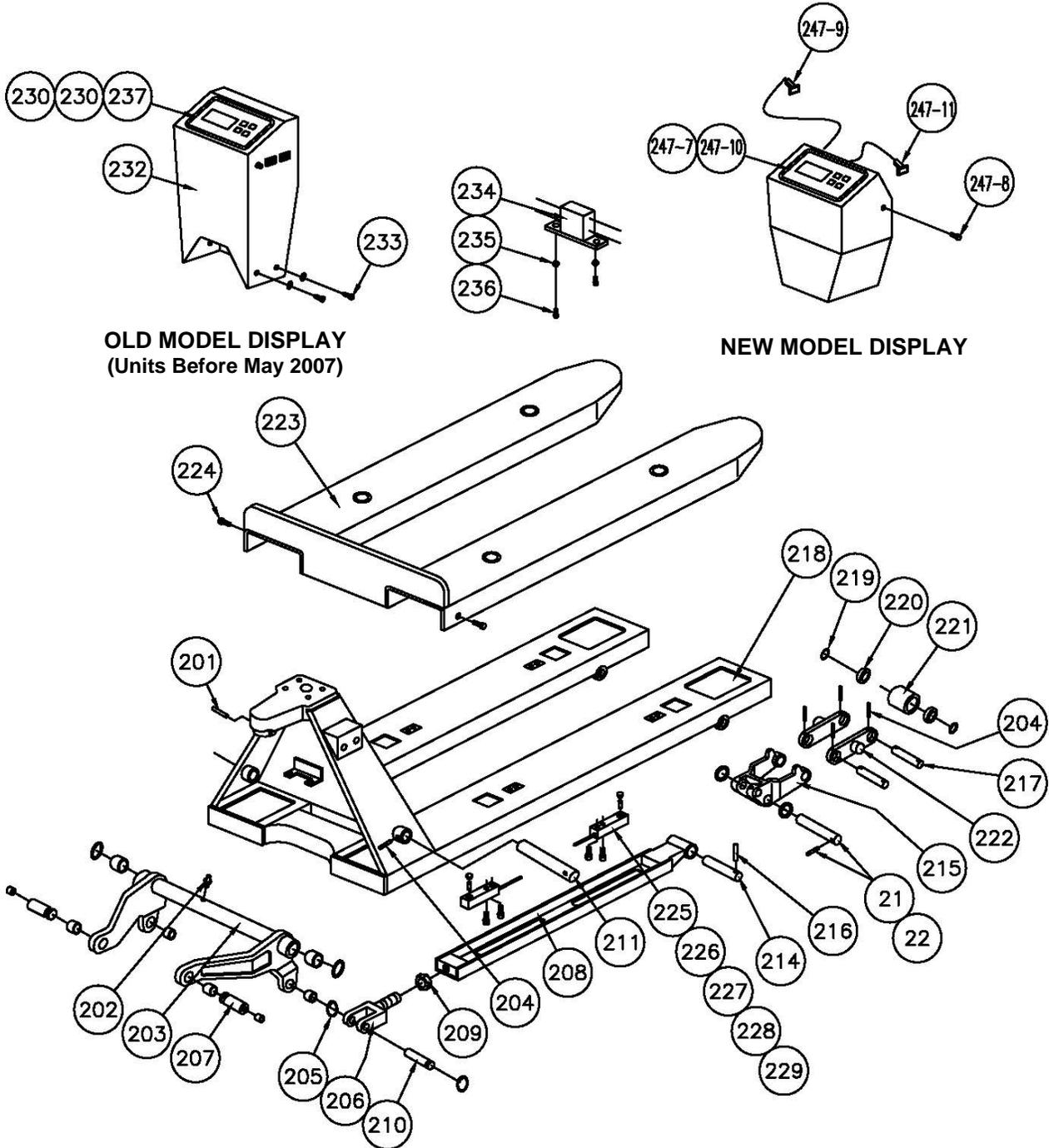
WESCO Replacement P/N	No.	Description	Qty.
270060: Handle Release Assembly	101	Release Rod	1
	102	Chain	1
	103	Adjusting Bolt	1
	104	Adjusting Nut	1
270004 Kit: Axle/Pin	105	Axle with Hole	1
	106	Elastic Pin	2
273008	107	Bushing	2
270005 Kit: Pressure Roller	108	Roller Pin	1
	109	Pressure Roller	1
	109A	Bushing	1
270007 Kit: Handle Assembly 273505	101	Release Rod	1
	102	Chain	1
	103	Adjusting Bolt	1
	104	Adjusting Nut	1
	107	Bushing	2
	108	Roller Pin	1
	109	Pressure Roller	1
	109A	Bushing	1
	110	Draw-bar	1
	111	Stop Rubber	1
	112	Elastic Pin	1
	113	Blade Spring	1
	114	Spring	1
	115	Elastic Pin	1
116	Elastic Pin	1	
272791 Kit: Control Handle	117	Control Handle	1
	118	Roller	1
	119	Elastic Pin	1

*Items within kits specify quantity included per kit

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9. FRAME INFORMATION

9.1 FRAME DIAGRAM



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9. FRAME INFORMATION

9.2 FRAME PARTS LIST

				IND221	IND231
WESCO P/N	No.	Description	Qty for Units Before 05/2007	Qty for Units After 05/2007	Qty for Units After 03/2015
270151	201	Fork Frame	1	1	1
270159	202	Oil-Holder	1	1	1
270160	203	Rock - Arm	1	1	1
270164	204	Elastic Pin	9	9	9
270172	205	Retaining Ring	4	4	4
270174	206	Joint	2	2	2
270178	207	Shaft	2	2	2
270179	208	Pushing Rod	2	2	2
270180	209	Nut	2	2	2
270181	210	Pin	2	2	2
270182	211	Long Shaft	1	1	1
270183	212	Shaft	2	2	2
270184	213	Elastic Pin	2	2	2
270185	214	Shaft	2	2	2
270186	215	Frame of Roller	2	2	2
270187	216	Elastic Pin	2	2	2
270189	217	Shaft of Roller	4	4	4
270190	218	Fork Frame	1	1	1
270191	219	Washer	8	8	8
270193	220	Bearing	8	8	8
270194	221	Roller	4	4	4
270195	222	Linking Plate	4	4	4
270197	223	Platform	1	1	1
270198	224	Bolt	2	2	2
270199	225	Load Pad	4	4	4
270200	226	Pin	4	4	4
Kit: Pin/O-Ring	227	O-Ring	8	8	8
270202	228	Bolt	4	8	8
270204	229	Set Of Load Cells (with Junction Box)	1	1	1
270205	230	Display Unit	1	Not Used	Not Used
270206	231	Cover Board	1	Not Used	Not Used
270207	232	Fixation Box	1	Not Used	Not Used
270209	233	Bolt	4	Not Used	Not Used
270210	234	Box of Cable	1	1	1
270212	235	Nut	2	2	2
270215	236	Screw	2	2	2
270216	237	Bolt	4	Not Used	Not Used
270224		Motherboard of Display	1	Not Used	Not Used
270395	247-7	Display Unit	Not Used	1	1
272850	247-8	Bolt	Not Used	2	2
Battery Arrangement	272851	**247-9 Charging Plug for IND 221	Not Used	1	Not Used
	273167	Charging Plug for IND 231			1
2 Rows of 3	272849	247-10 Battery (For IND 221)	Not Used	1	
1 Rows of 6	270793	Rechargeable Battery (For IND231)	Not Used	Not Used	1
6 "D" Cell	172180	Battery (For Units Before 05/2007)	1	Not Used	Not Used
	272852	247-11 Plug	Not Used	1	1
	270277	AC Adapter	1	Not Used	Not Used

*Items within kits specify quantity included per kit

** Charging plug details shown on page 16.

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9. FRAME INFORMATION

9.3 CHARGER PLUG INFORMATION

FOR NEW MODEL DISPLAYS AFTER 2007

P/N 272851

For IND 221 Display Units



Complete Charger Plug



Connector

P/N 273167

For IND 231 Display Units



Complete Charger Plug

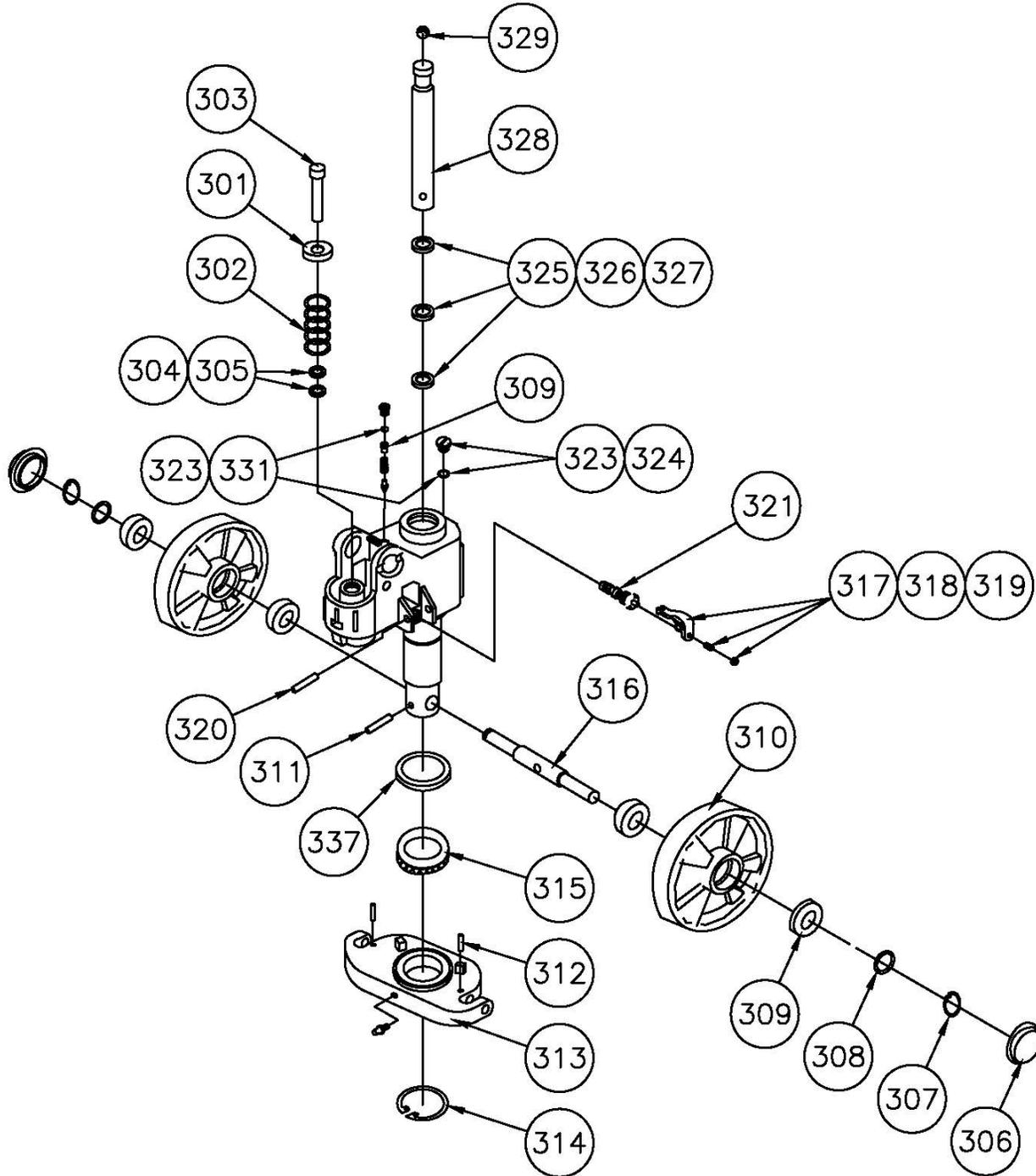


Connector

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10. HYDRAULIC SYSTEM INFORMATION

10.1 HYDRAULIC SYSTEM DIAGRAM



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10. HYDRAULIC SYSTEM INFORMATION

10.2 HYDRAULIC SYSTEM PARTS LIST

WESCO Replacement P/N	No.	Description	Quantity
270032	301	Spring Cab	1
270033	302	Spring	1
270035	303	Pump Piston	1
272665	306	Dust Cover (Yellow)	2
272793		Dust Cover (Black)	2
270036	307	Spring Washer	2
270037	308	Washer	1
272325	309	Bearing	4
272663	310	Poly Steering Wheel	2
270028	311	Elastic Pin	1
270041	312	Elastic Pin	2
270043	313	Thrust Plate	1
270044	314	Retaining Ring	1
272100	315	Thrust Plate	1
270045	316	Shaft	1
270050 Kit: Lever Plate	317	Nut	1
	318	Screw	1
	319	Lever Plate	1
270053	320	Elastic Pin	1
272664	321	Valve Cartridge	1
270057 Kit: Screw/Washer	323	Seal Washer	1
	324	Screw Plug	1
270058	328	Piston Rod	1
270059	329	Steel Ball	1
270061 Kit: Seal	304	Dust Ring	1
	305	Seal	1
	323	Seal Washer	1
	325	Seal	1
	326	O-Ring	1
	327	Dust Ring	1
	331	O-Ring	1
272661		Replacement Pump	1
270059	337	Bearing Cover	1

*Items within kits specify quantity included per kit