

# **PARTS MANUAL**

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**RIDER**

**B60Z (A230)**

**B80Z (A233)**

CUSTOMER EDITION

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***HYSTER***

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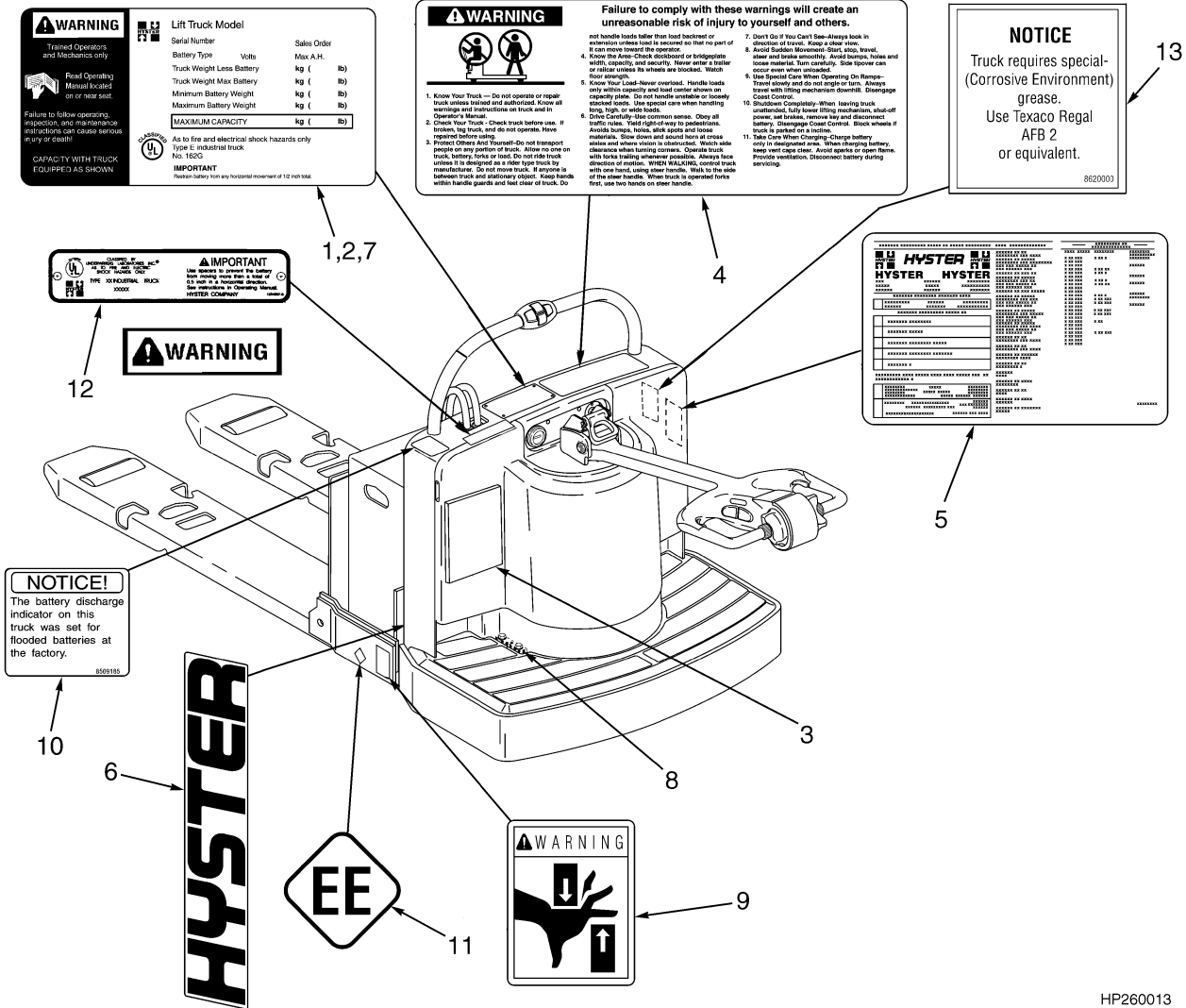
## PUBLICATIONS

Every new lift truck is provided with an OPERATING MANUAL. This manual has information that the operator must know for inspection and operation of the lift truck.

SERVICE MAINTENANCE MANUALS, which provide service and overhaul procedures, and PARTS MANUALS with complete replacement part identification, are available at a nominal fee from your Hyster dealer to assist users in effectively maintaining Hyster lift trucks in a safe, useful condition. See the list below for information on ordering specific publications for this model lift truck.

PUBLICATION	HYSTER PART NUMBER
<b>Operating Manual</b> .....	1471935
<b>Service Manual (Complete)</b> .....	1480465
<b>Parts Manual</b> .....	1479557

**DECAL AND PLATE LOCATION (Figure 1-4)**



HP260013

ITEM	PART NO.	DESCRIPTION	QTY
1	389688	Cover .....	1
2	2307400	Rivet.....	4
3	1471935	Operator Manual.....	1
4	2041635	Label (Warning).....	1
5	389692	Label (US Patents and Trademarks).....	1
6	2305417	Label (Hyster).....	2
7	1498264	Nameplate label.....	1
8	a 292682	Lockwasher.....	2
8	a 2034403	Capscrew.....	2
8	a 320160	Washer.....	2
9	2305689	Label (Pinch Warning).....	1
10	2044484	Label (Battery Discharge Notice).....	1
11	196927	Label (Type EE).....	1
12	325956	UL Inspection Plate (Type EE).....	1
13	2305668	Label (Special Grease).....	1

**FOOTNOTES:**

**a** Used for Shim Storage

**SECTION 2  
ELECTRICAL SYSTEM**

DESCRIPTION	PAGE
<b>CONTROL PANEL ASSEMBLY</b>	
A233 - ALL	
A230	
D/B 10/2001 ⇒ .....	2-4
⇒ D/B 10/2001 A230 .....	2-2
<b>TRACTION MOTOR</b>	
A230	
⇒ D/B 10/2001 .....	2-6
D/B 10/2001 ⇒ .....	2-8
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**TRACTION MOTOR  
A233**

ITEM	PART NO.	DESCRIPTION	QTY
	2041763	Traction Motor .....	1
1	1500186	Fan .....	1
2	1500176	Armature .....	1
3	1500177	Stator.....	1
4	1500181	Brush Holder .....	1
5	1500180	Brushes with Springs .....	4
6	1500178	Connection Plate .....	1
7	1500185	Central Cover .....	1
8	1500182	Bearing.....	1
9	1500183	Commutator End Bracket .....	1
10	1500184	Cover Band .....	1

**CONTROL HANDLE ARM ASSEMBLY**

ITEM	PART NO.	DESCRIPTION	QTY
1	1474897	Control Handle (☞ Figure 3-6) .....	1
2	2039567	Tube .....	1
3	1450356	Plug .....	2
4	2039166	Steering Hub.....	1
5	2045230	Steer Plate (A233) .....	1
5	2040844	Steering Plate (A230) .....	1
6	2040952	Instrument Panel.....	1
7	2043199	Capscrew.....	2
8	2046783	Dash .....	1
9	293632	Capscrew (A233).....	1
9	296032	Capscrew (A230).....	2
10	320159	Washer .....	4
11	292682	Lockwasher.....	4
12	136692	Nut .....	2
13	292529	Capscrew.....	4
14	320162	Washer .....	8
15	292683	Lockwasher.....	4
16	216877	Nut .....	4
17	2046784	Steer Shaft Weldment.....	1
18	136985	Capscrew.....	2
19	320157	Washer .....	2
20	15155	Lockwasher.....	1
21	136692	Nut .....	2
22	2043858	Cover .....	1
23	1378550	Capscrew.....	3
24	326306	Bearing Cup.....	2
25	326307	Bearing Cone.....	2
26	2307654	Washer .....	1
27	2042863	Key .....	1
28	2307321	Sleeve .....	2
29	2046785	Spacer .....	2
30	2303042	Nut .....	1
31	293780	Lockwasher.....	2
32	296010	Capscrew.....	2
33	320157	Washer .....	2
34	2007882	Lube Fitting.....	1
35	2043856	Capscrew.....	3
36	177599	Clamp .....	1
37	292680	Lockwasher.....	1
38	302043	Screw.....	1
	<b>a</b> 2040486	Wire Harness (Tiller Handle) .....	1
	<b>a</b> 1463849	Grease .....	AR
39	2047880	Spacer .....	1
40	2043570	Screw.....	2

**FOOTNOTES:****a** Not Illustrated

**LIFT LINKAGE**

ITEM	PART NO.	DESCRIPTION	QTY
1	2039114	Pin .....	1
2	2034090	Pin .....	14
3	2040201	Bushing.....	2
4	2038055	Lift Cylinder (☞ Figure 5-5) .....	1
5	2039115	Pin .....	1
6	2039903	Link Assembly (Upper) .....	2
7	2039225	Bushing .....	2
8	2039116	Pin .....	2
9	2039117	Pin .....	2
10	2305246	Pin .....	6
11	13957	Fitting.....	10
12	2039238	Rocker Arm.....	2
13	2039224	Bushing .....	4
14	2039119	Pin .....	2
15	2039122	Pin .....	2
16	2039118	Pin .....	2
17	2034673	Pin .....	4
18	16046	Lube Fitting.....	6
19	2040196	Pin .....	2
20	2045519	Capscrew.....	2
21	15058	Nut .....	2
22	<b>ab</b> 2041394	Pull Rod Assembly (36 in.) .....	2
22	<b>ab</b> 2041395	Pull Rod Assembly (42 in.) .....	2
22	<b>ab</b> 2039856	Pull Rod Assembly (48 in.) .....	2
22	<b>ab</b> 2041396	Pull Rod Assembly (54 in.) .....	2
22	<b>ab</b> 2041397	Pull Rod Assembly (60 in.) .....	2
23	2039227	Bushing .....	2
24	2039315	Rod .....	2
25	1458439	Nut .....	6
26	<b>ab</b> 2041404	Fork (36 in.) .....	1
26	<b>ab</b> 2041405	Fork (42 in.) .....	1
26	<b>ab</b> 2039270	Fork (48 in.) .....	1
26	<b>ab</b> 2041406	Fork (54 in.) .....	1
26	<b>ab</b> 2041407	Fork (60 in.) .....	1
27	2039904	Link Assembly (Rear) .....	2
28	2039223	Bushing.....	2
29	2039120	Pin .....	2
30	221719	Nut.....	4
31	2033691	Pin .....	2
32	2040200	Pin .....	2
33	2039255	Axle Shaft .....	2
34	2007882	Lube Fitting.....	10
35	2039905	Roller Assembly.....	2
36	2042864	Bushing.....	2
37	16041	Lube Fitting.....	2
38	2039236	Yoke Assembly.....	2
39	2039226	Bushing.....	2
40	16041	Lube Fitting.....	2
41	2039236	Yoke Assembly.....	2
42	2039226	Bushing.....	2

**SECTION 5  
HYDRAULIC SYSTEM**

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<b>DESCRIPTION</b>	<b>PAGE</b>
HYDRAULIC ASSEMBLY	
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HYDRAULIC POWER UNIT	
A230.....	5-6
A233.....	5-8
LIFT CYLINDER ASSEMBLY .....	5-10

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**OPTIONS**

**HEAVY DUTY CASTER OPTION**

ITEM	PART NO.	DESCRIPTION	QTY
	2043682	Caster (Heavy Duty) .....	1
	<b>b</b> 2047713	Swivel Fork .....	1
1	2045902	Plate (Top) .....	1
2	2045903	Fork .....	1
3	2045904	Roller Bearing .....	1
4	2045905	Roller Bearing .....	1
5	2045906	Seal (Felt) .....	1
6	2045907	Nut .....	1
7	2045908	Pin .....	1
8	2045909	Hub Cap .....	1
9	2045910	Wheel Fork (Lower) .....	1
10	2045911	Pin .....	2
11	2045912	Spring .....	2
12	2045924	Axle .....	1
13	2045913	Screw .....	2
14	2045914	Lockwasher .....	2
15	2045915	Fitting (Grease) .....	1
	<b>a</b> 2047714	Wheel .....	1
16	2045917	Wheel .....	1
17	2045919	Ball Bearing .....	2
	<b>c</b> 2047715	Axle Assembly .....	1
18	2045925	Axle .....	1
19	2045920	Washer .....	2
20	2045923	Fitting (Grease) .....	1
21	136985	Capscrew .....	8
22	2039377	Shim .....	16
23	292682	Lockwasher .....	10

**FOOTNOTES:**

- a** Includes Items 16 & 17
- b** Includes Items: 1-15
- c** Includes Items: 13, 14, & 18-20

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