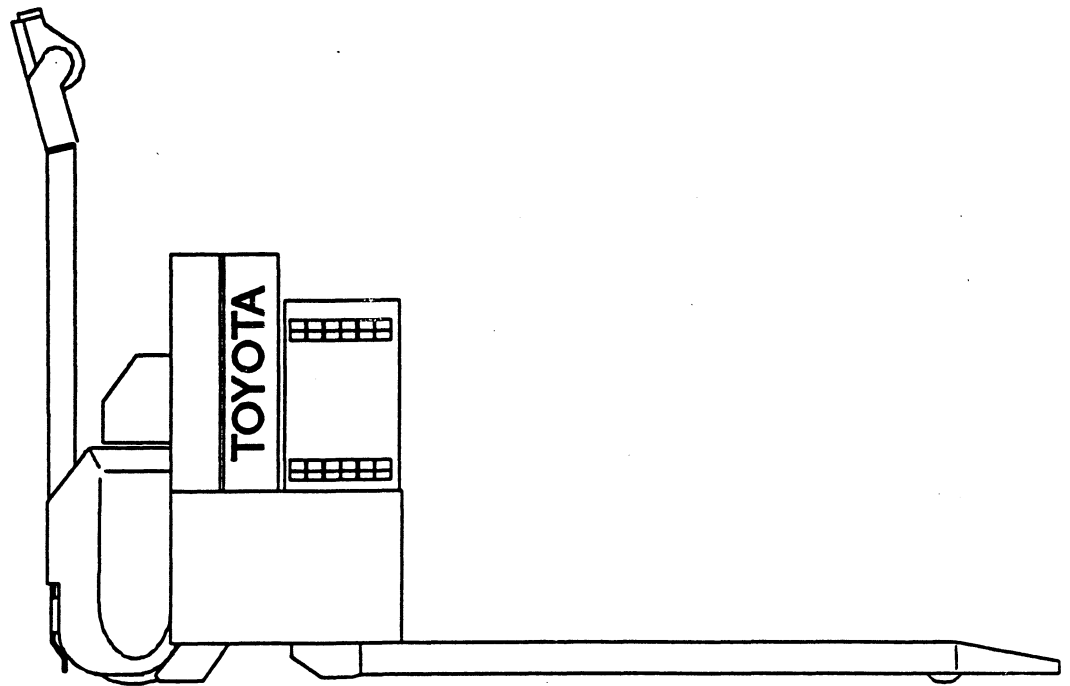

Service and Parts Manual

TOYOTA



Model
6HBW20

Serial No.
10011 and Up

Date: 10/01/95

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Tool List	Description
00590-04661-71	Diagnostic Service Tool (Programmer)
00590-04667-71	Pin Extractor
00590-04668-71	Pin Extractor
00590-04669-71	Pin Extractor
00590-04670-71	Pin Extractor
00590-04671-71	Crimping Tool
00590-04672-71	Extraction Tool
00590-04673-71	Model 1141 FasTest Accessory
00590-04674-71	Model 1142 Tester
00590-04675-71	Curtis Battery Book One
00590-04676-71	Bearing/Sealing Ring Installation Tool
00590-04677-71	Battery Pack Lifter

General Information

General Maintenance Instructions

Industrial vehicles may become hazardous if adequate maintenance is neglected. Only trained technicians, using approved procedures, in adequate maintenance facilities should work on this or any other industrial vehicle.

Maintenance Practices

1. Follow a scheduled lubrication, maintenance, and inspection schedule.
2. Only qualified, authorized technicians are permitted to inspect, maintain, **adjust**, and repair this vehicle.

⚠ CAUTION

REMOVE RINGS, WATCHES, AND ALL JEWELRY BEFORE DOING ANY WORK ON VEHICLE.

3. Before working on vehicle:
 - a. Lower load handling mechanism completely to the floor.
 - b. All controls must be in neutral.
 - c. Release any trapped pressure in hydraulic systems.
 - d. Block the wheels to prevent movement of the vehicle.
 - e. Disconnect battery connector
 - f. Elevate drive tire off floor.

⚠ WARNING

USE EXTREME CARE WHENEVER THE VEHICLE IS JACKED UP FOR ANY REASON. KEEP HANDS AND FEET CLEAR FROM BENEATH VEHICLE WHILE JACKING. USE JACK STANDS OR SOLID BLOCKS TO SUPPORT VEHICLE - DO NOT RELY ON JACKS.

- g. Before working on load handler, support to prevent movement.
4. After working on vehicle, test all controls and functions to assure proper operation.
5. Work in a clean, dry, well ventilated area.
6. Avoid fire hazards. Have adequate fire fighting equipment in the maintenance area.
7. **DO NOT** use open flame or sparking devices around the battery. The gasses given off by the battery are highly explosive.
8. Use extreme caution when using flammable cleaning solutions.

More information pertaining to operating and maintenance procedures may be obtained from:

American National Standards Institute
1430 Broadway
New York, NY 10018

Ask for ANSI B56.1 - 1988

General Information

Specifications

Model:	6HBW20
Battery Voltage:	24
Wheel:	
Drive:	10.5 x 5" Rubber
Load:	3.25 x 5" Polyurethane (2)
Install load wheels with at least 1 shim on each side and a maximum of 1/16" (1.58mm) end play.	

Transmission	
Fluid: Standard Use	80W-90W
Cold Storage	"DEXTRON II" ATF
Fluid Capacity:	0.8 Quart (0.75 liter)
Torque Requirement:	Torque drive tire retaining nut to 250 FT./LBS. (350Nm) (While rotating drive tire)
Torque pivot bearing retaining nut to Zero (0) end play on pivot bearings while pivoting transmission.	

Hydraulic

Lift/Lower System	
Fluid: Standard Use	10W-40W
Cold Storage	"Dextron II" ATF
Reservoir Capacity:	1 Quart (0.9 liters)
Relief Valve Setting:	2600 psi ± 50 psi (177 Bar ± 3.4 bar)

General Information

Component Identification

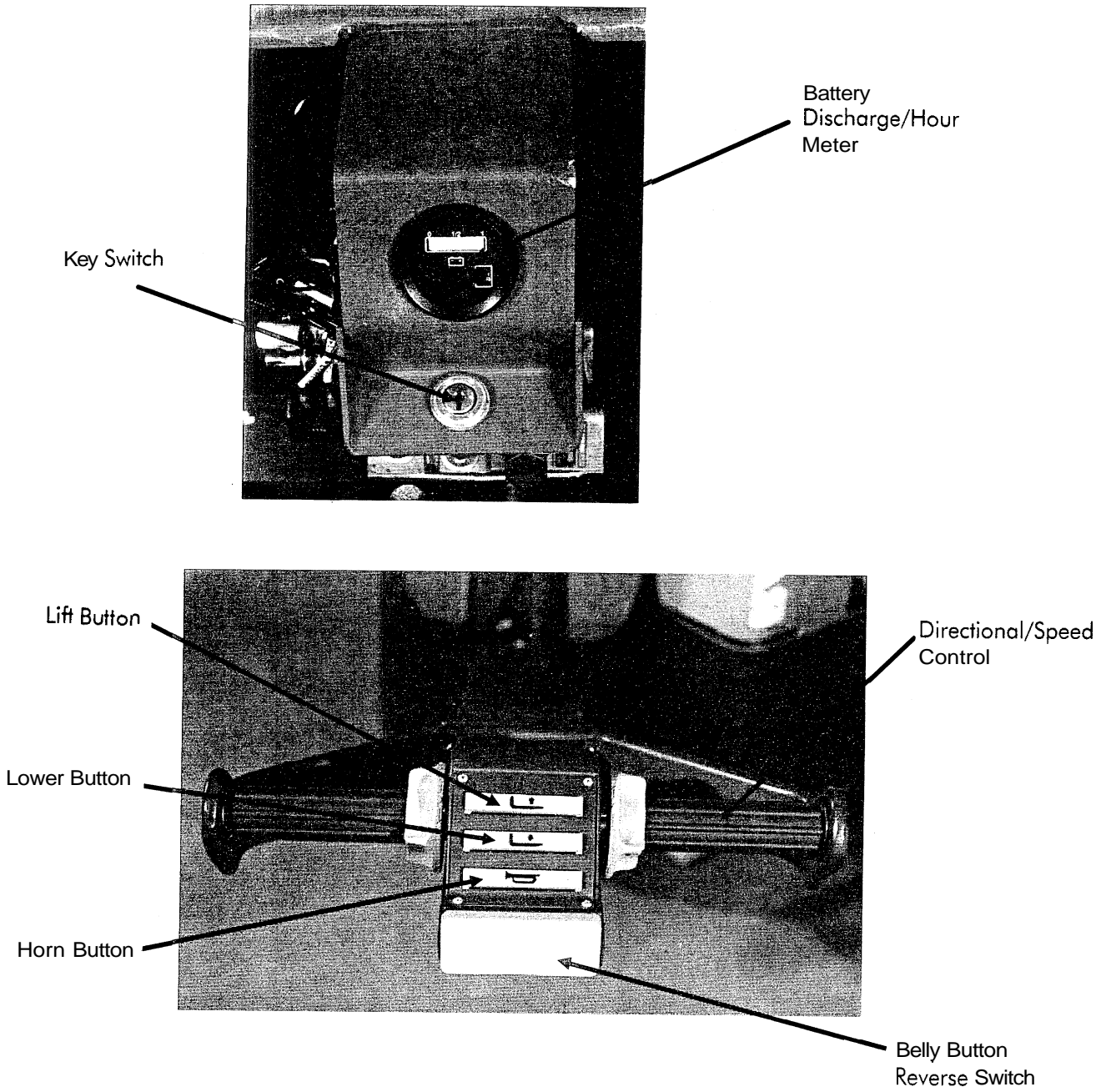


Figure 63 Component Identification

General Information

Component Identification (Cont'd.)

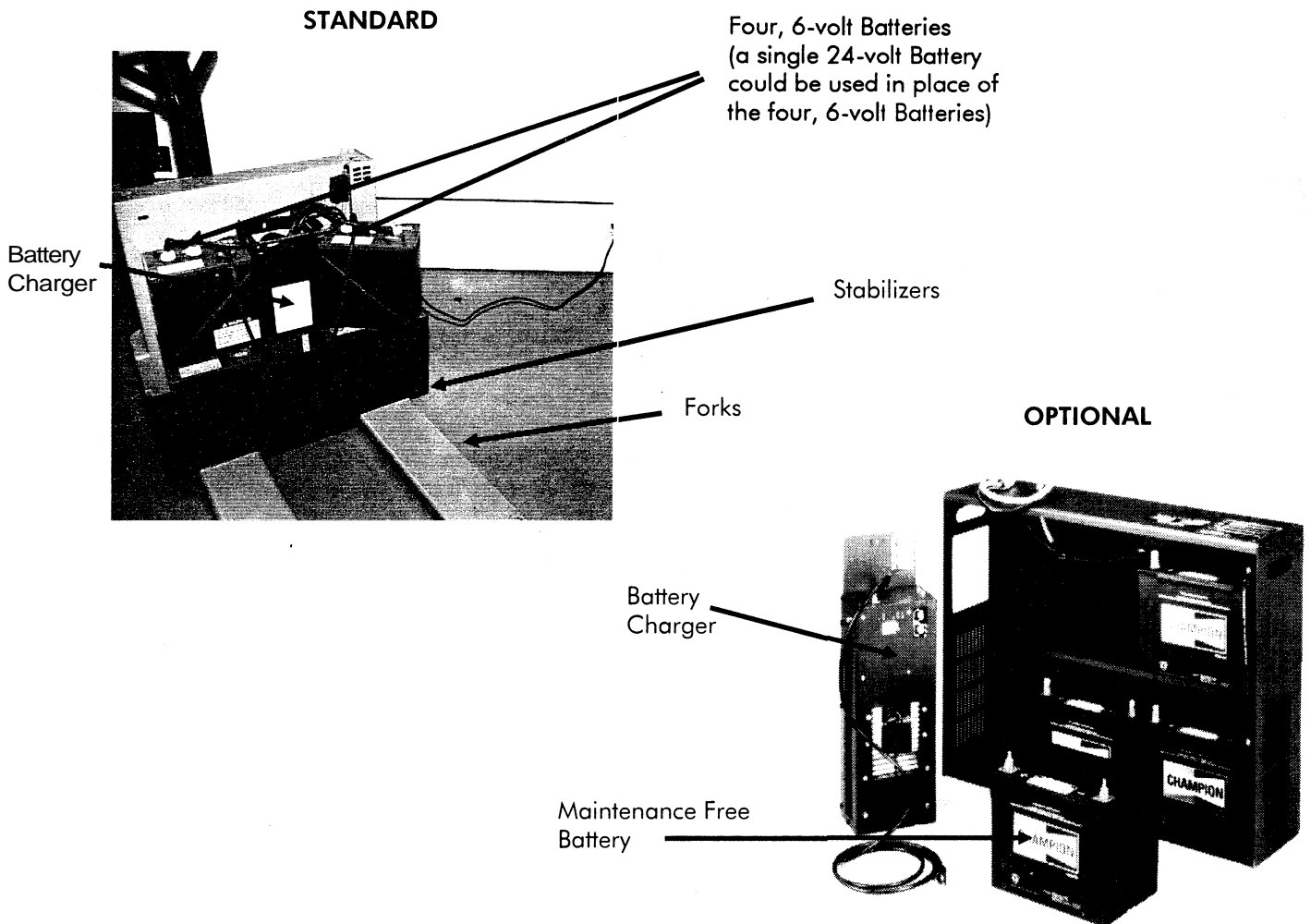
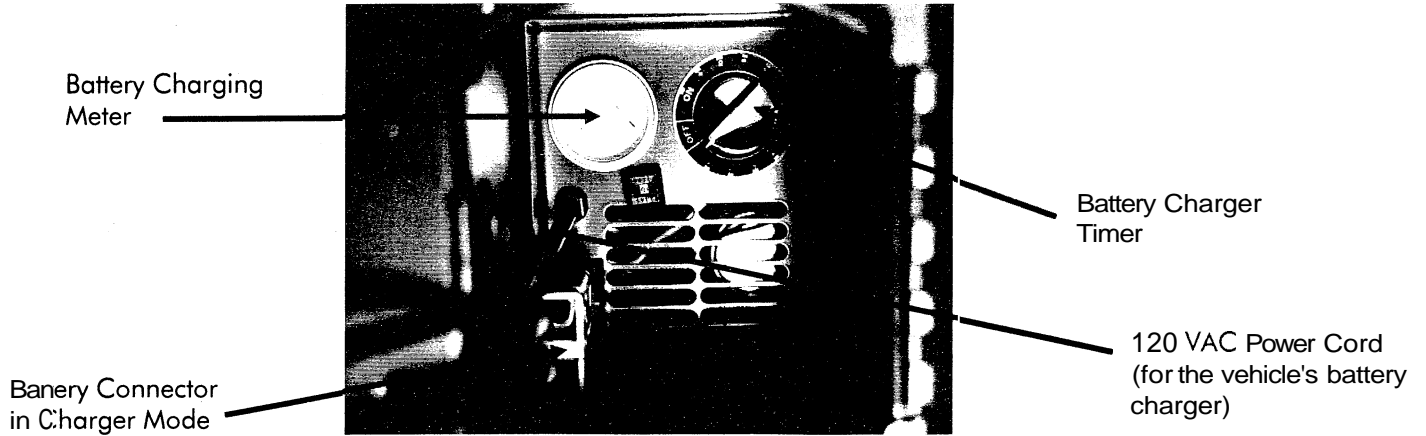


Figure 64 Component Identification (Cont'd.)

General Information

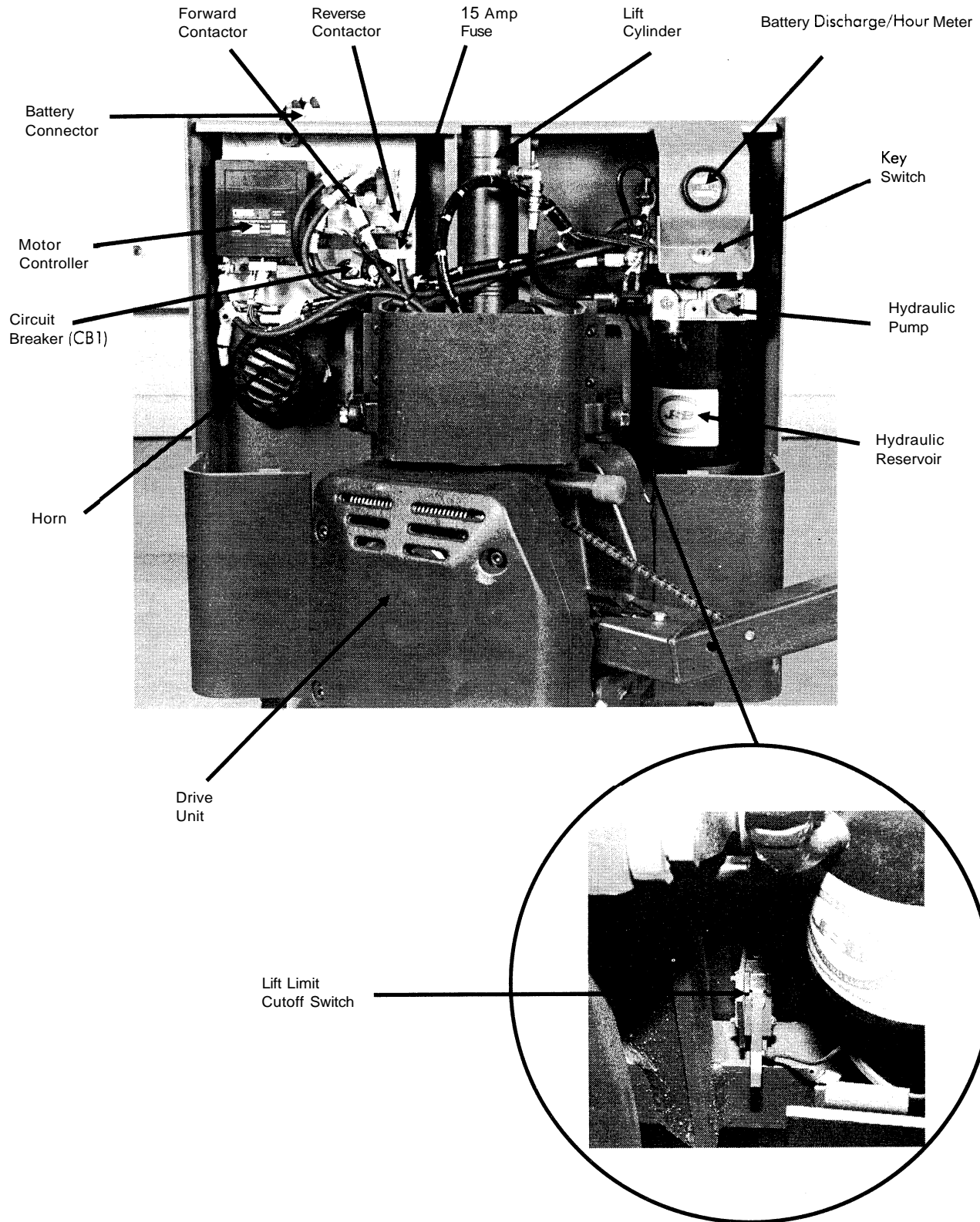


Figure 65 Component Identification (Cont'd.)

General Information

Standard Torque
Data For Bolts

GRADE IDENTIFICATION MARKING	NONE					
	SAE Grade 2 Bolts Tightening Torque Dry Lub.		SAE Grade 5 Bolts Tightening Torque Dry Lub.		SAE Grade 8 Bolts Tightening Torque Dry Lub.	
SIZE	in. lb.	in. lb.	in. lb.	in. lb.	in. lb.	in. lb.
4-40	5	4	8	6	12	9
4-48	6	5	9	7	13	10
6-32	10	8	16	12	23	17
6-40	12	9	18	13	25	19
8-32	19	14	30	22	41	31
8-36	20	15	31	23	43	32
10-24	27	21	43	32	60	45
10-32	31	23	49	38	68	51
1/4-20	66	49	96	75	144	108
1/4-28	76	56	120	86	168	120
	ft. lb.	ft. lb.	ft. lb.	ft. lb.	ft. lb.	ft. lb.
5/16-18	11	8	17	13	25	18
5/16-24	12	9	19	14	25	20
3/8-16	20	15	30	23	45	35
3/8-24	23	17	35	25	50	35
7/16-14	30	24	50	35	70	55
7/16-20	35	25	55	40	80	60
1/2-13	50	35	75	55	110	80
1/2-20	55	40	90	65	120	90
9/16-12	70	55	110	80	150	110
9/16-18	80	60	120	90	170	130
5/8-11	100	75	150	110	220	170
5/8-18	110	85	170	130	240	180
3/4-10	175	130	260	200	380	280
3/4-16	195	145	300	220	420	320
7/8-9	165	125	430	320	600	460
7/8-14	185	140	470	350	660	500
1-8	250	190	640	480	900	680
1-12	270	200	700	530	1000	740
1 1/8-7	350	270	800	600	1280	960
1 1/8-12	400	300	880	660	1440	1080
1 1/4-7	500	380	1120	840	1820	1360
1 1/4-12	550	420	1240	920	2000	1500
1 3/8-6	660	490	1460	1100	2380	1780
1 3/8-12	740	560	1680	1260	2720	2040
1 1/2-6	870	650	1940	1460	3160	2360
1 1/2-12	980	730	2200	1640	3560	2660

Figure 66 Standard Torque Data for Bolts

General Information

Conversion Table

To Convert...	Multiply by...
Inches to Millimeters	25.4
Inches to Centimeters	2.54
Feet to Meters	0.305
Yards to Meters	0.914
Miles to Kilometers	1.609
Millimeters to Inches	0.039
Centimeters to Inches	0.394
Meters to Feet	3.281
Meters to Yards	1.094
Kilometers to Miles	0.621
Square inches to Square Centimeters	6.452
Square Feet to Square Meters	0.093
Square Yards to Square Meters	0.836
Square Centimeters to Square Inches	0.155
Square Meters to Square Feet	10.155
Square Meters to Square Yards	1.196
Fahrenheit to Celsius	$(^{\circ}\text{F} - 32) \div 1.8$
Celsius to Fahrenheit	$(^{\circ}\text{C} \times 1.8) + 32$
PSI to Pascals (Pa)	6894.757
PSI to Bar	PSI \div 14.7

General Information

Decals

The following pages show proper mounting and location of decals.

NOTE: See the Parts Manual for decal description and ordering information.

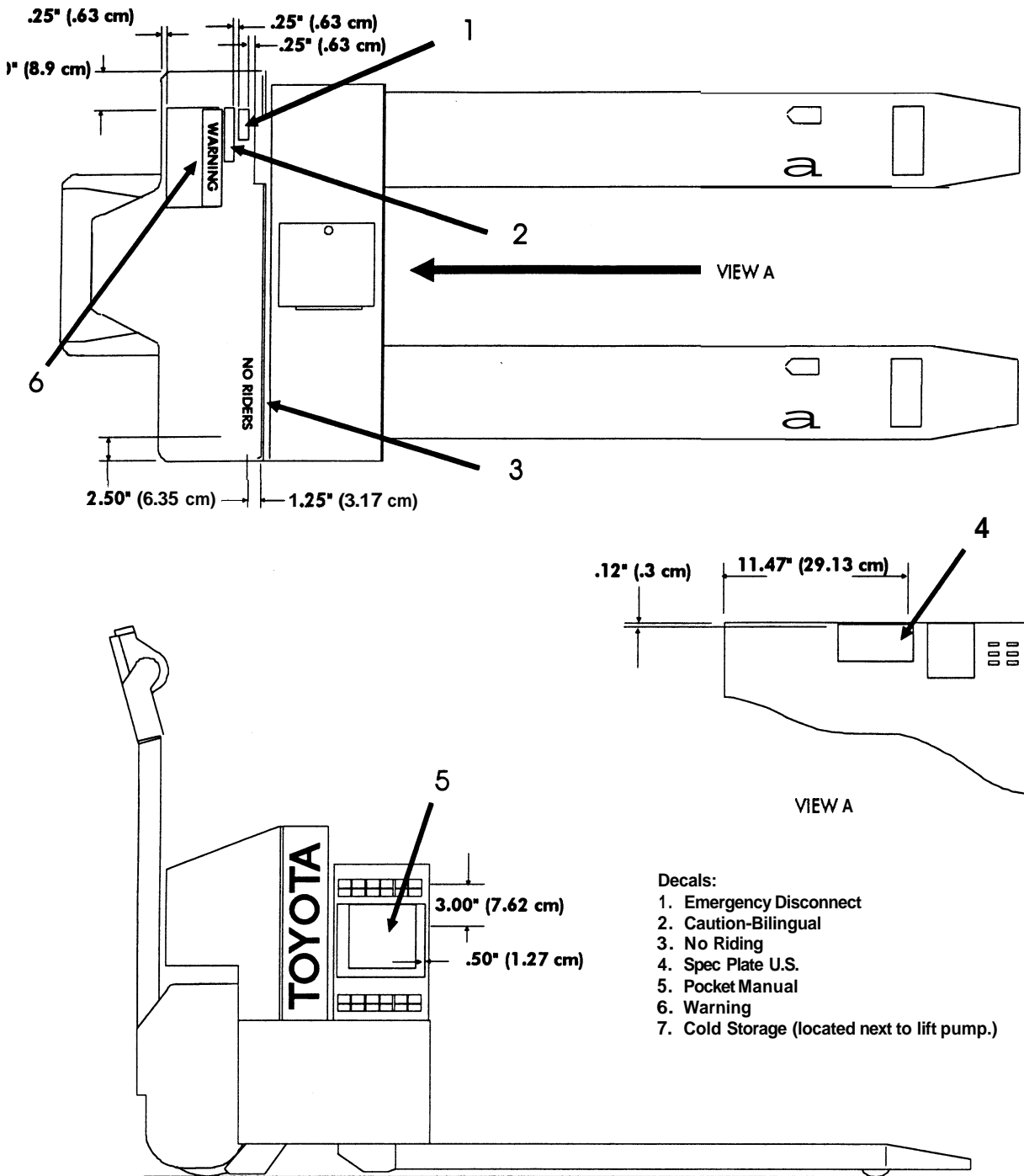


Figure 61 Standard Decal Placement

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perfect and complete manual in
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