CEBM005600

Shop Manual

KOMATSU®

PW400MH-6

MATERIAL HANDLER

SERIAL NUMBERS **PW400MH-6** **A84210 AND UP**

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GRADE 5 AND 8 NON-PHOSPHATE COATED HARDWARE

Recommended torque for all standard application nuts and bolts, provided; all thread surfaces are clean and lubricated with SAE-30 engine oil or joints are rigid, that is, no gaskets or compressible materials are used. When reusing nuts or bolts, use minimum torque values.

THREAD	GRADE 5	
	N•m	lbf ft
1/4NC	8	6
1/4NF	9	7
5/16NC	18	13
5/16NF	20	15
3/8NC	33	24
3/8NF	37	27
7/16NC	52	38
7/16NF	57	42
1/2NC	79	58
1/2NF	88	65
9/16NC	114	84
9/16NF	126	93
5/8NC	156	115
5/8NF	175	130
3/4NC	278	205
3/4NF	312	240
7/8NC	414	305
7/8NF	454	334
1NC	617	455
1NF	691	510
1-1/8NC	827	610
1-1/8NF	929	685
1-1/4NC	1166	860
1-1/4NF	1295	955
1-3/8NC	1532	1130
1-3/8NF	1749	1290
1-1/2NC	2034	1400
1-1/2NF	2291	1690
1-3/4NC	3213	2370
2NC	4813	3550

THREAD	GRADE 8	
	N•m	lbf ft
1/4NC	12	9
1/4NF	15	11
5/16NC	24	18
5/16NF	28	21
3/8NC	46	34
3/8NF	52	38
7/16NC	73	54
7/16NF	81	60
1/2NC	111	82
1/2NF	122	90
9/16NC	163	120
9/16NF	179	132
5/8NC	224	165
5/8NF	251	185
3/4NC	393	290
3/4NF	434	320
7/8NC	617	455
7/8NF	698	515
1NC	942	695
1NF	1064	785
1-1/8NC	1342	990
1-1/8NF	1505	1110
1-1/4NC	1898	1400
1-1/4NF	2102	1550
1-3/8NC	2481	1830
1-3/8NF	2827	2085
1-1/2NC	3295	2430
1-1/2NF	3701	2730
1-3/4NC	5166	3810
2NC	7810	5760

Multiply the standard torque by 0.65 when finished jam nuts are used, 0.7 when molykote, white lead or similar mixture are used as lubricants, 0.75 when parkerized bolts or nuts are used, 0.85 when cadmium plated bolts or nuts and zinc bolts with waxed zinc nuts are used or 0.9 when hardened surfaces are used under the nut or bolt head. The general torque must be used in all cases where special torques are not given. Values listed in this manual are lubricated (wet) threads; values should be increased 1/3 for non lubricated (dry) threads.

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SPECIFICATIONS

PROPEL AND STEERING SYSTEM

Variable displacement, high torque drive motors with counterbalance valves. Komatsu tilt steering wheel with easy-entry seat accomidations. Foot service brake and parking brake. Easy-touch combination, directional accelerator pedal. Outrigger selection control box, Grapple, and generator option switch.

ELECTRICAL OPERATING SYSTEM

Hydraulic-powered 25kW Baldor DC Generator (100% duty cycle).
Hubbell Lifting Magnet Controller (automatic discharge).
Switchable grapple or magnet operation
.

TIRES

Type	4 - 1676 mm x588 mm – 66"x24" (ITL) Solid tires, 152 mm 6" thick rubber bonded to steel rim.

CHASSIS AND STABILIZERS

Two axel carrier, fabricated alloy steel frame with front steering axle trunnion mounted with +/- 5 degree oscillation. Front axle includes stabilizer locks. Hydraulic disk-type Brakes on front and rear, plus dry disk emergency brake on the input side of the rear axle. Hydraulic stabilizers front and rear, independently or simultaneously controlled with heave-duty pads.

PERFORMANCE

Range speed	9.6 km	0 to 6 mph
Tractive effort	22232 kg	49,000 lb
Grade ability	5 deg .	

OPERATING WEIGHT

Without grapple	60268 kg	132,831 lb
HD4460 carrier	2677 kg	61,600 lb
PC400 upper	23653 kg	71,831 lb

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IMPORTANT POINTS WHEN TROUBLESHOOTING CONTROLLER SYSTEM

1. Points to remember if abnormality returns to normal by itself

In the following two cases, there is a high probability that the same problem will occur again, so it is desirable to follow up this problem carefully.

1) If any abnormality returns to normal by itself.

2) If the connector is disconnected and the T-adapter is inserted, or if the T-adapter is removed and the connector is returned to its original position when carrying out troubleshooting of the failure, and the service code is no longer displayed, or if the monitor display returns to normal.

3) After completing troubleshooting, always erase the user code from memory.

2.User code memory retention function

When displaying the abnormality code in memory and carrying out troubleshooting, note down the content of the display, then erase the display. After trying to re-enact the problem, carry out troubleshooting according to the failure code that is displayed.

There are cases where mistaken operation or abnormalities that occur when the connector is disconnected are recorded by the memory retention function. Erasing the data in this way saves any wasted work.

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ELECTRIC CIRCUIT DIAGRAM FOR (F MODE)

REPLACE THIS PAGE WITH FOLDOUT 20-503 FROM SECTION 90.

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JUDGEMENT TABLE FOR GOVERNOR, PUMP CONTROLLER (PUMP CONTROL SYSTEM) AND HYDRAULIC RELATED PARTS

○ This shows applicable item for service code, simultaneous abnormality at front and rear

◉ This shows applicable item for service code

△ This shows item that needs only checking with monitor

● This shows item to check with monitoring or machine monitor

Remark

Chart modified for Young Application

| Failure mode | | | User code | LED off | Governor, pump controller -E2:XX system- Self diagnostic display | | | | | | | | | | | | | | | | | | | | | | | | | | | | Check items in monitoring mode | | | | | | | | | | | | | | | | | | |