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MANUAL PREVIEW

J.I. Case

Service Manual

W9, W9A, W10 & W12

Wheel Loaders

Volume 1 of 3

Service Manual

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CA-S-W9+

W9, W9A, W10, AND W12 LOADERS

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SECTION

C

MANUAL PREVIEW

SPECIFICATIONS FOR CASE

W7 - A284 GASOLINE ENGINE

W7 - A301 DIESEL ENGINE

W9 - A251 GASOLINE ENGINE

W9 - A267 DIESEL ENGINE

W9A - A284 GASOLINE ENGINE

W9A - A301 DIESEL ENGINE

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The Specifications Listed are The Same Unless Otherwise Indicated

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GENERAL TORQUE SPECIFICATION TABLE (Revised 5-64)

USE THE FOLLOWING TORQUES WHEN SPECIAL TORQUES ARE NOT GIVEN

NOTE: These values apply to fasteners as received from supplier, dry, or when lubricated with normal engine oil. They do not apply if special graphited or moly-disulphide greases or other extreme pressure lubricants are used. This applies to both UNF and UNC threads.

SAE Grade No.	5		8*	
Bolt head identification marks as per grade				
Note: Manufacturing Marks Will Vary	Torque Foot Pounds		Torque Foot Pounds	
Bolt Size	Min.	Max.	Min.	Max.
1/4"	9	11	12	15
5/16	15	18	24	28
3/8	35	40	45	50
7/16	54	60	70	80
1/2	80	90	110	125
9/16	110	120	160	180
5/8	150	165	220	240
3/4	260	280	380	420
7/8	360	400	600	660
1"	540	600	900	1000
1-1/8	720	800	1280	1440
1-1/4	1000	1100	1800	2000
1-3/8	1460	1680	2380	2720
1-1/2	1940	2200	3160	3560

* Thick nuts must be used with Grade 8 bolts

TIMING CHART

ENGINE	FULL LOAD GOVERNED ENGINE SPEED	NUMBER OF DEGREES
A251G—W9	1800	32° BTDC
A267D—W9	1800	33° BTDC
A284G—W7 W9A	2000	32° BTDC
A301D—W7 W9A	2000	32° BTDC

VALVE TIMING

With valve clearances set correctly, dial indicator mounted above valve stem, reading taken with valve .040" off its seat.

A267D and A301D Inlet Opening (No. 1 Cyl.) ----- 3° BTDC

A251G and A284G Inlet Opening (No. 1 Cyl.) ----- 6° ATC

NOTE "Inlet opening" is the only position on these engines that can be checked by the crankshaft pulley marks. Since the crankshaft pulley is only marked to 5° ATC, the 6° ATC mark will have to be measured and scribed on the pulley. Use the degree marks already on the pulley for measurement. If this position is correct, it can be assumed that the timing gears are correctly marked and properly assembled.

NOTE: The J I Case Company reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.