



**Bobcat®**

# Loader Technical Service Guide

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## ALL-WHEEL STEER LOADERS SPECIFICATIONS

|                                        |         |
|----------------------------------------|---------|
| A220 LOADER SPECIFICATIONS .....       | A220-1  |
| (S/N 519611001 & Above) .....          | A220-1  |
| A300 BICS™ LOADER SPECIFICATIONS ..... | A770-1  |
| (S/N 521111001 & Above) .....          | A770-1  |
| (S/N 523411001 & Above) .....          | A770-5  |
| (S/N 526411001 & Above) .....          | A770-9  |
| (S/N 539911001 & Above) .....          | A770-13 |
| (S/N A5GW11001 & Above) .....          | A770-17 |
| (S/N A5GY11001 & Above) .....          | A770-17 |
| A770 BICS™ LOADER SPECIFICATIONS ..... | A770-1  |
| (S/N A3P611001 & Above) .....          | A770-1  |
| (S/N A3P711001 & Above) .....          | A770-1  |
| (S/N ASRW11001 & Above) .....          | A770-5  |

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## A220 LOADER SPECIFICATIONS (S/N 519611001 & Above)

| ENGINE                                         |                                                               |
|------------------------------------------------|---------------------------------------------------------------|
| Make & Model                                   | Deutz, 4 cylinder BF4M1011F Turbo-Charged                     |
| Horsepower/Displacement (SAE Net)              | 73.0 hp (54 kW) 2912 cm <sup>3</sup> (177.7 in <sup>3</sup> ) |
| Ignition Type                                  | Diesel-Compression                                            |
| Low Idle                                       | 1125 - 1175 rpm                                               |
| High Idle                                      | 2550 - 2625 rpm                                               |
| Engine Oil Pressure @ Low Idle                 | 117 kPa (1,2 bar) (17 psi)                                    |
| High Idle                                      | 586 kPa (5,9 bar) (85 psi)                                    |
| Fuel Lift Pump Pressure                        | 41 kPa (0,4 bar) (5.9 psi)                                    |
| Injector Nozzle Opening Pressure               | 20995 kPa (210 bar) (3045 psi)                                |
| Glow Plug Resistance                           | 0.2 ohm                                                       |
| Firing Order                                   | 1-3-4-2                                                       |
| Location of #1 Cylinder                        | Closest to fly wheel                                          |
| Timing                                         | See Service Manual                                            |
| Location of Timing Marks                       | See Service Manual                                            |
| Crankshaft Rotation (Facing Crankshaft Pulley) | Clockwise                                                     |
| Compression @ Cranking Speed                   | 2206 - 2703 kPa (22 - 27 bar) (320 - 392 psi)                 |
| Valve Tappet Clearance (Cold) Intake           | 0,3 mm (0.012 in)                                             |
| Exhaust                                        | 0,5 mm (0.020 in)                                             |

| ENGINE TORQUES                 |                                 |
|--------------------------------|---------------------------------|
| Engine Oil Drain Plug          | 54 N•m (40 ft-lb)               |
| Fuel Injection T-beltline Nuts | 13,5 - 16,5 N•m (10 - 12 ft-lb) |
| Glow Plugs                     | 20 - 24 N•m (15 - 18 ft-lb)     |
| Injection Pump Mounting Nuts   | 20 - 22 N•m (15 - 16 ft-lb)     |
| Valve Cover Bolts              | 8,5 N•m (75 in-lb)              |

| COOLING SYSTEM                    |                |
|-----------------------------------|----------------|
| Engine Lubrication/Cooling System | 15,1 L (16 qt) |

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