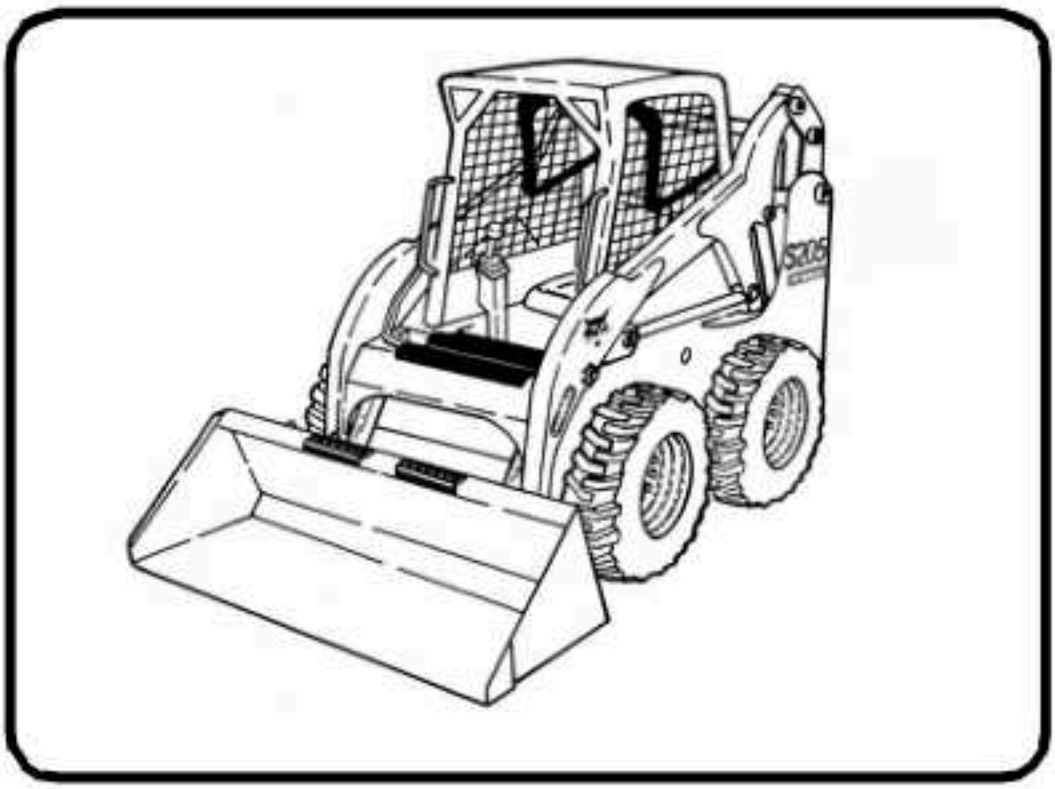
Bobcat®

# Service Manual
# S205 Skid-Steer Loader

## S/N A3LJ11001 & Above
## S/N A3LK11001 & Above



**EQUIPPED WITH**
**BOBCAT INTERLOCK**
**CONTROL SYSTEM (BICS™)**

6987050 (8-08)

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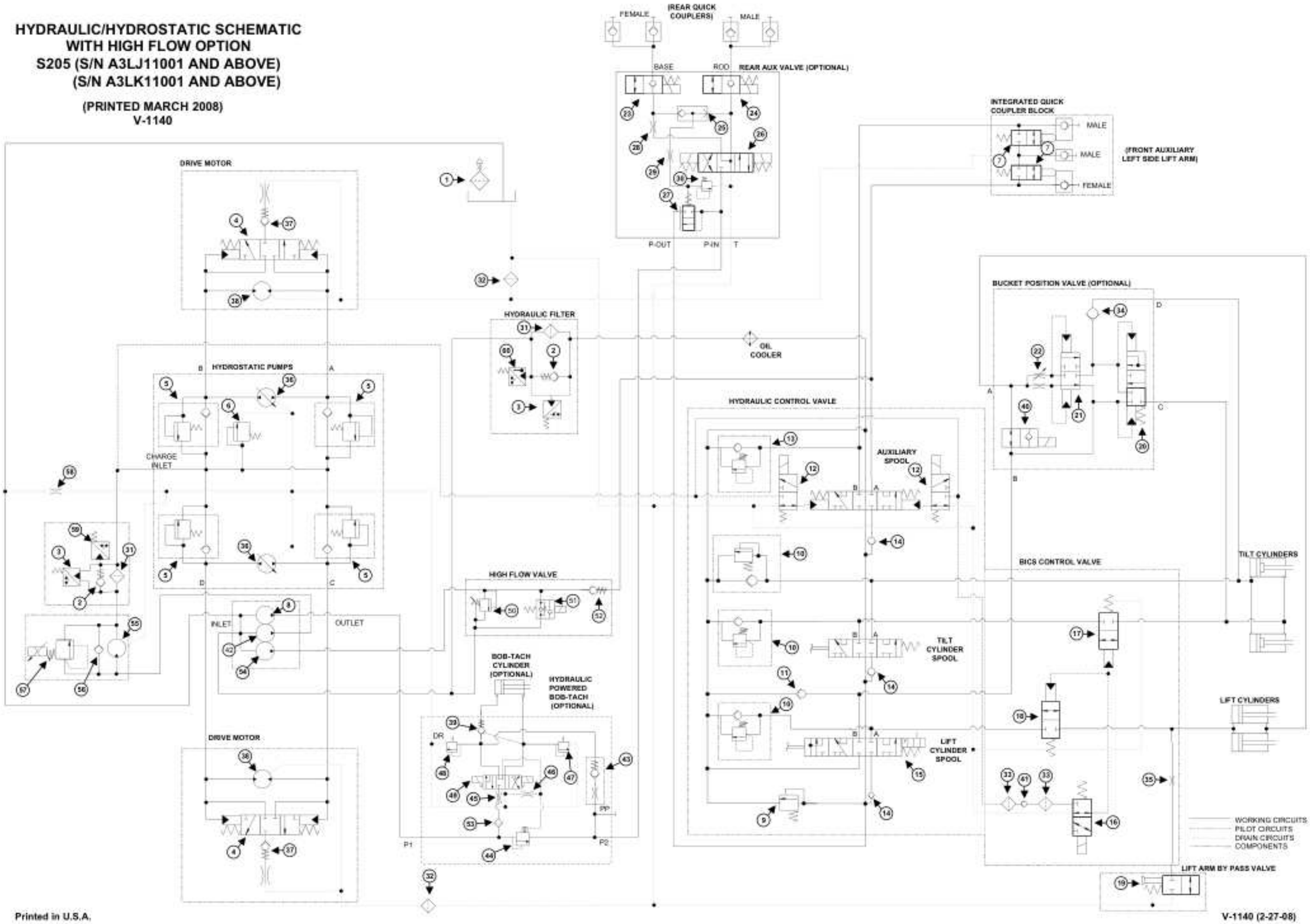


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# HYDRAULIC/HYDROSTATIC SCHEMATIC
# WITH HIGH FLOW OPTION
# S205 (S/N A3LJ11001 AND ABOVE)
# (S/N A3LK11001 AND ABOVE)

**(PRINTED MARCH 2008)**
**V-1140**




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V-1140 (2-27-08)



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## Specifications

***All dimensions are given in inches. Respective metric dimensions are given in millimeters enclosed by parentheses.***

### Fuel Injection Nozzles

| | |
|---|---|
| Opening Pressure | 2703-2915 PSI (186,4-201,98 bar) |
| Fuel Tightness Nozzle Seat | Dry Nozzle at 2418 PSI (166,71 bar) |

### Fuel Injection Pump

| | |
|---|---|
| Injection Timing | 0.50° B.T.D.C. - 1.0° A.T.D.C. |
| High Idle | 2760-2900 RPM |
| Low Idle | 1075-1225 RPM |

### Cylinder Head

| | |
|---|---|
| Cylinder Head Surface Distortion | 0.002 (0,05) Max. |
| Top Clearance (Piston to Head) | 0.024-0.031 (0,60-0,80) |
| Compression | 464 PSI (31,99 bar) |
| Allowable Limit | 319 PSI (21,99 bar) |
| Difference Between Cylinders | 10% or less |

### Valves

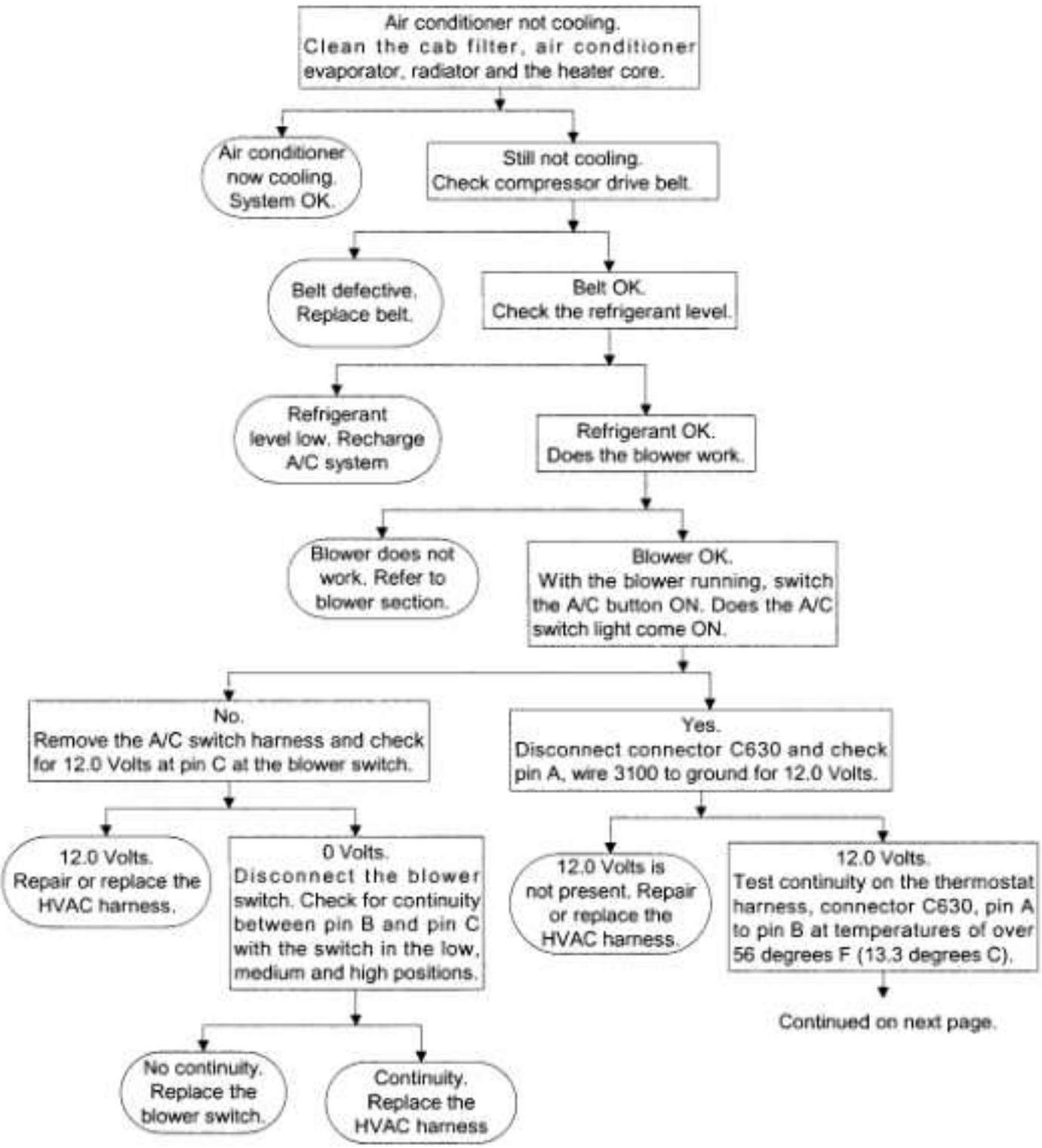
| | |
|---|---|
| Valve Seat Width (Intake & Exhaust) | 0.013-0.14 (3,3-3,6) |
| Valve Seat Angle (Intake & Exhaust) | 45° |
| O.D. of Valve Stems (Intake) | 0.2350-0.2354 (5,968-5,980) |
| O.D. of Valve Stems (Exhaust) | 0.2344-0.2348 (5,593-5,965) |
| I.D. of Valve Guides (Intake & Exhaust) | 0.2367-0.2372 (6,010-6,025) |
| Clearance Between Valve Stem & Guide (Intake) | 0.0012-0.0022 (0,030-0,0570 |
| Allowable Limit | 0.0039 (0,10) |
| Clearance Between Valve Stem & Guide (Exhaust) | 0.0018-0.0028 (0,045-0,072) |
| Allowable Limit | 0.0039 (0,10) |
| Valve Clearance (Cold) | 0.0052-0.0068 (0,13-0,17) |
| Valve Recessing (Intake & Exhaust) | 0.026-0.033 (0,65-0,85) |
| Allowable Limit | 0.0472 (1,20) |



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**Troubleshooting Tree**

## Air Conditioning




B-21491



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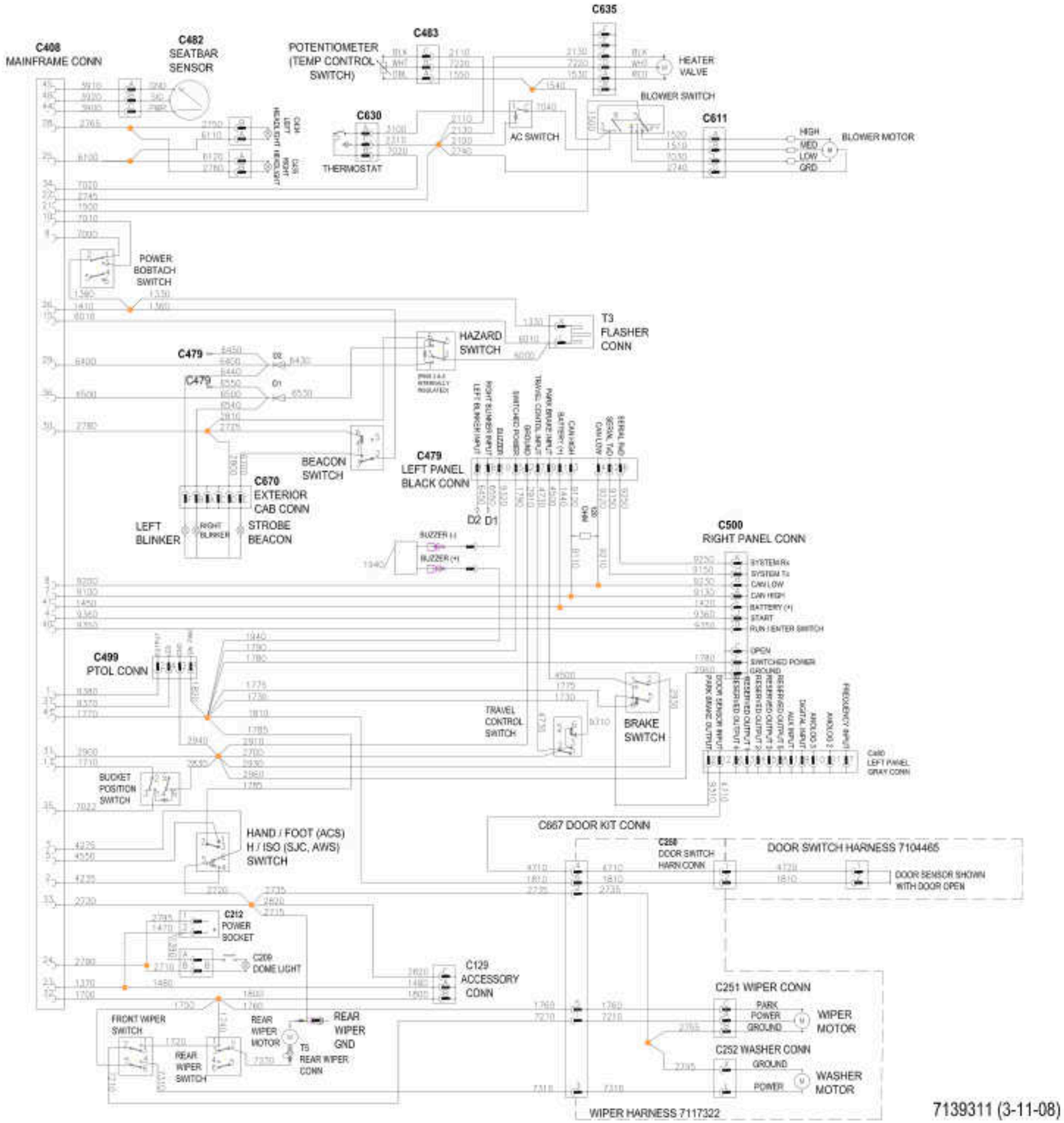
# WIRING SCHEMATIC
# (DELUXE CAB)
# S205 (S/N A3LJ11001 AND ABOVE)
# (S/N A3LK11001 AND ABOVE)

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