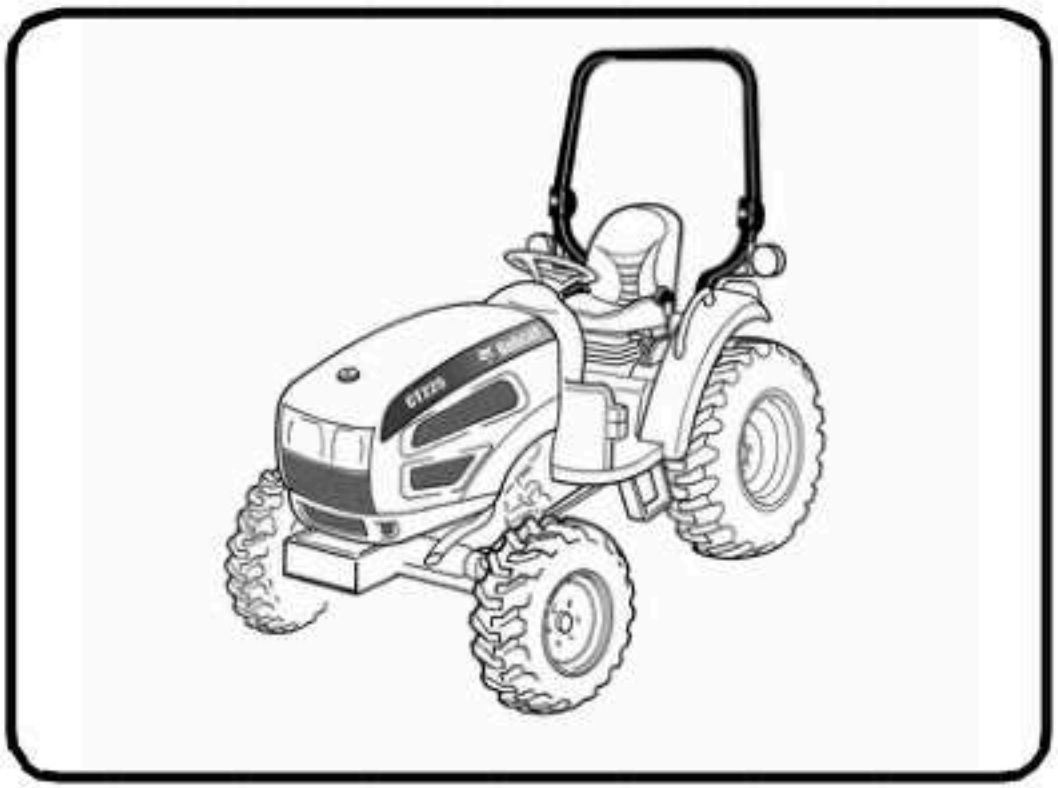
Bobcat®

Service Manual

CT225, CT230 & CT235 Compact Tractor

S/N ABFJ11001 & Above
S/N ABFP11001 & Above
S/N A9JY11001 & Above



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ALPHABETICAL INDEX

AIR CLEANER 70-01
AIR CLEANER SERVICE 10-01
ALTERNATOR 60-01
ALTERNATOR BELT 10-01
AUXILIARY CONTROL VALVE 20-01
AXLE AND DIFFERENTIAL 40-01
AXLE CASE 40-01
AXLE TOE IN 10-01

BATTERY 60-01
BRAKE CASE 40-01
BRAKE PEDAL ASSEMBLY 40-01
BRAKE SYSTEM 10-01

CAMSHAFT AND TIMING GEARS 70-01
CLUTCH ASSEMBLY 70-01
CLUTCH HOUSING 70-01
CLUTCH SYSTEM 10-01
COMPACT TRACTOR STORAGE AND RETURN TO SERVICE 10-01
CONSOLE COVER 50-01
CONVERSIONS SPEC-01
CRANKSHAFT AND PISTONS 70-01
CRUISE CONTROL 60-01
CYLINDER HEAD 70-01

DRIVE SHAFT 50-01
DRAW BAR 50-01
DRAW BAR ASSEMBLY 50-01

ELECTRICAL SYSTEM INFORMATION 60-01
ENGINE COOLING SYSTEM 10-01, 70-01
ENGINE COVER 10-01, 50-01
ENGINE INFORMATION 70-01
ENGINE LUBRICATION SYSTEM 10-01
ENGINE SIDE COVER 50-01
ENGINE SPEED CONTROL 70-01

FAN 70-01
FENDER 50-01
FENDER ASSEMBLY 50-01
FIREWALL 50-01
FLOOR PLATE 50-01
FLOORMAT 50-01
FLYWHEEL AND HOUSING 70-01
FUEL, COOLANT AND LUBRICANTS (ALL MODELS) SPEC-01
FUEL LEVEL SENDER 60-01
FUEL SYSTEM 10-01, 70-01
FUEL TANK 50-01
FRONT AXLE 10-01, 40-01

HYDRAULIC FILTER 20-01
HYDRAULIC FLUID SPEC-01
HYDRAULIC PUMP 20-01
HYDRAULIC SYSTEM INFORMATION 20-01
HYDRAULIC /HYDROSTATIC/ TRANSMISSION SYSTEM 10-01
HYDROSTATIC PUMP 30-01
HYDROSTATIC PUMP TESTING 30-01
HYDROSTATIC SYSTEM INFORMATION 30-01
HYDROSTATIC TRANSMISSION CASE 50-01
HOOD LIGHTS 60-01
HORN 60-01

INSTRUMENT PANEL 60-01

LUBRICATING THE COMPACT TRACTOR 10-01
LUBRICATION SYSTEM 70-01

MAIN RELIEF VALVE 20-01
MID PTO CONTROL 50.01
MLS VALVE 20-01

OIL COOLER 20-01
OPERATOR SEAT 50-01

PARKING BRAKE SYSTEM 10-01
PIVOT PINS 10-01
PTO SAFETY SHIELD 50-01
PTO SWITCHES 60-01

REAR LIGHTS 60-01
REAR PTO CONTROL 50-01
RIGHT JOYSTICK (IF EQUIPPED) 20-01
RIGHT JOYSTICK VALVE (IF EQUIPPED) 20-01
ROPS 50-01
ROCK SHAFT 20-01

SAFETY INTERLOCK SYSTEM - NEUTRAL START 10-01
SAFETY INTERLOCK SYSTEM - OPERATING 10-01
SEAT BELT 10-01
SEAT SENSOR 60-01
SEPERATING THE TRACTOR 40-01
SERVICE BRAKE 40-01
SERVICE SCHEDULE 10-01
SPARK ARRESTOR MUFFLER 10-01, 70-01
SPECIFICATIONS SPEC-01
SPLASH BOARD 50-01
STARTER 60-01

Continued On Next Page

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STEERING AXLE ADJUSTMENT 40-01
STEERING CYLINDER 20-01
STEERING VALVE 20-01
SUPPORTING THE COMPACT TRACTOR ON JACKSTANDS 10-01
THREE POINT CYLINDER 20-01
THREE POINT CYLINDER CONTROL 20-01
THREE POINT HITCH HOUSING 20-01
THREE POINT HITCH LOWER LINKS 50-01
TIRE MAINTENANCE 10-01
TORQUE SPECIFICATIONS FOR BOLTS SPEC-01
TOWING THE COMPACT TRACTOR 10-01
TRANSMISSION 40-01
TRANSPORTING THE COMPACT TRACTOR ON A TRAILER 10-01
TRAVEL CONTROL PEDAL 10-01
TRAVEL PEDAL 30-01
TROUBLESHOOTING 40-01

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CONTENTS

FOREWORD II

SAFETY INSTRUCTIONS V

FIRE PREVENTION VIII

SERIAL NUMBER LOCATIONS X

DELIVERY REPORT XI

COMPACT TRACTOR IDENTIFICATION XII

COMPACT TRACTOR IDENTIFICATION (WITH OPTIONAL LOADER AND REAR BALLAST) XIII

COMPACT TRACTOR IDENTIFICATION (WITH OPTIONAL THREE-POINT IMPLEMENT AND FRONT BALLAST) XIV

SAFETY AND MAINTENANCE 10-01

HYDRAULIC SYSTEM 20-01

HYDROSTATIC SYSTEM 30-01

DRIVE SYSTEM 40-01

MAINFRAME 50-01

ELECTRICAL SYSTEM 60-01

ENGINE SERVICE 70-01

SPECIFICATIONS SPEC-01

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SAFETY INTERLOCK SYSTEM - NEUTRAL START

Inspection And Maintenance

WARNING

AVOID INJURY OR DEATH

The Safety Interlock System must not allow the compact tractor's engine to be started unless: The operator is in the operator's seat, the PTO lever(s) and the travel control pedal are in neutral. Contact your dealer for service if the Safety Interlock System does not function properly. DO NOT MODIFY THE SYSTEM.

W-2653-0907

The Safety Interlock System - Neutral Start:

The engine will not start unless all the following conditions are present:

1. The operator is seated in the operator's seat.
2. The rear-PTO lever and mid-PTO lever(s) (if equipped) are disengaged (OFF).
3. The travel direction control pedal is in neutral.

The compact tractor's engine must NOT START **unless** the Operator is in the operator's seat, the PTO levers are in neutral, and the travel control pedal is in neutral.

a. Sit in the operator's seat and fasten the seat belt - Put all controls in neutral - Engage the rear-PTO lever - Turn the key to start; **THE ENGINE MUST NOT START**

b. Sit in the operator's seat and fasten the seat belt - Put all controls in neutral - Engage the mid-PTO lever (if equipped) - Turn the key to start; **THE ENGINE MUST NOT START**

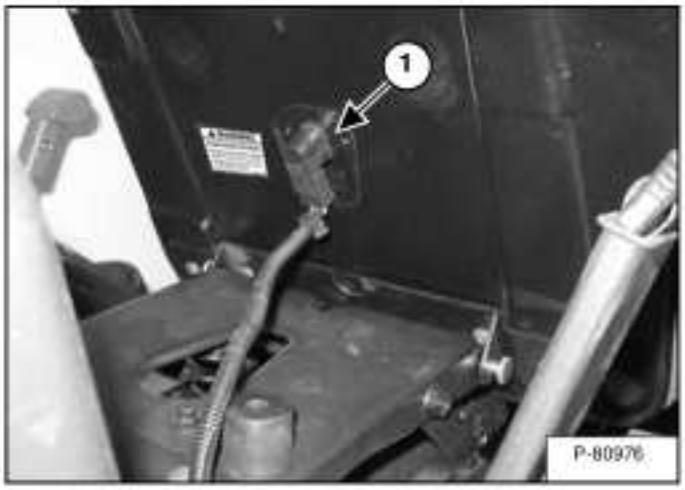
c. Sit in the operator's seat and fasten the seat belt - Put all controls in neutral - Press the Travel Control Pedal in the Forward direction - Turn the key to start; **THE ENGINE MUST NOT START**

d. Sit in the operator's seat and fasten the seat belt - Put all controls in neutral - Press the Travel Control Pedal in the Reverse direction - Turn the key to start; **THE ENGINE MUST NOT START**

e. Sit in the operator's seat and fasten the seat belt - Put all controls in neutral - Raise off of the seat - Turn the key to start; **THE ENGINE MUST NOT START**

If the engine starts after performing any of the above procedures, further troubleshooting and testing must be done.

Figure 10-200-1



The seat switch (Item 1) **[Figure 10-200-1]** is installed in the bottom of the seat. Replace the seat switch and components if damaged or missing. See your Bobcat dealer for parts.

WARNING

AVOID INJURY OR DEATH

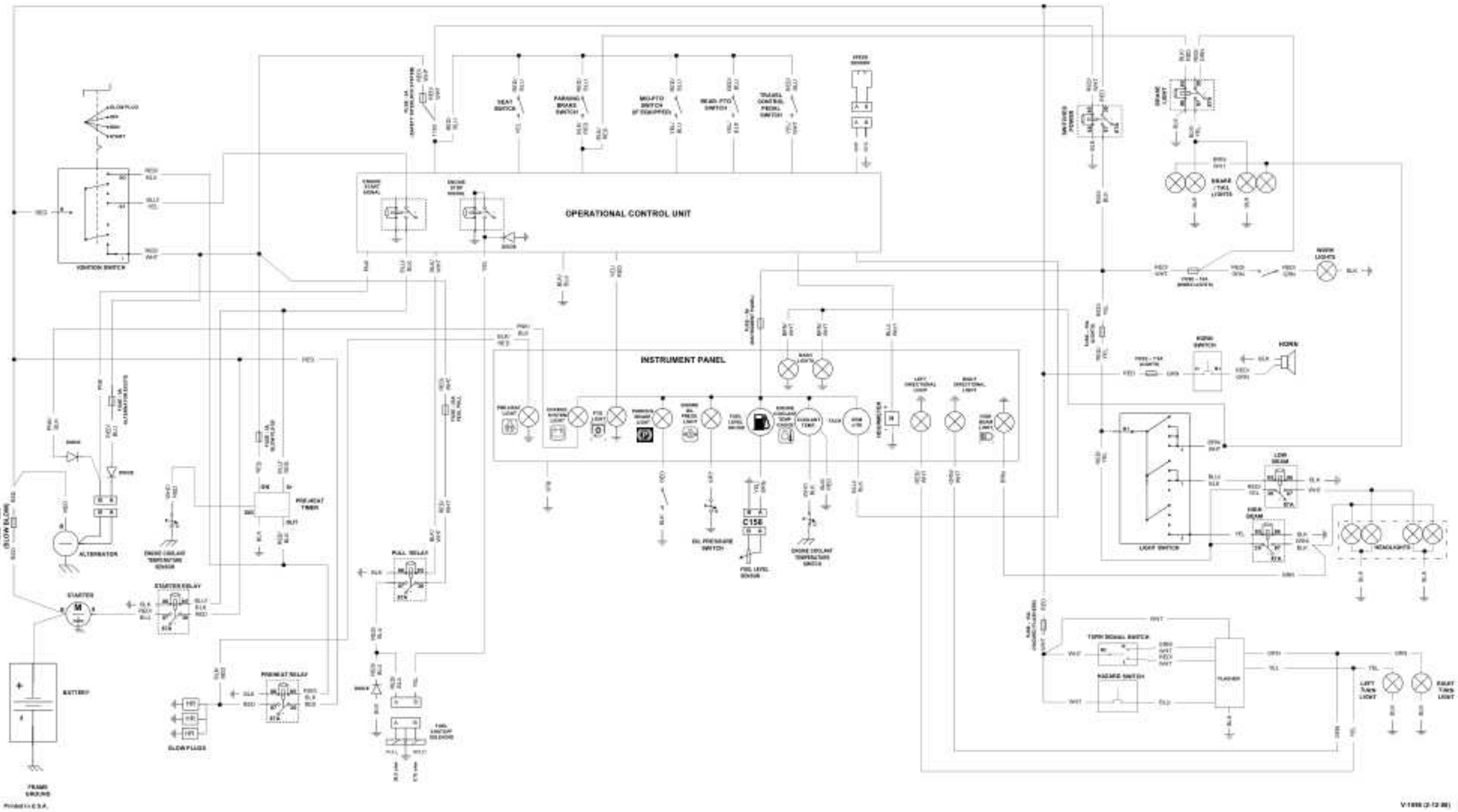
- **Check that seat switch is properly installed and functions correctly.**
- **Replace switch and components if damaged or missing.**

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WIRING SCHEMATIC

CT225 (S/N ABFJ11001 AND ABOVE)
CT230 (S/N ABFP11001 AND ABOVE)
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Specifications (CT225, Engine Model 3A139LWBC) (Cont'd)

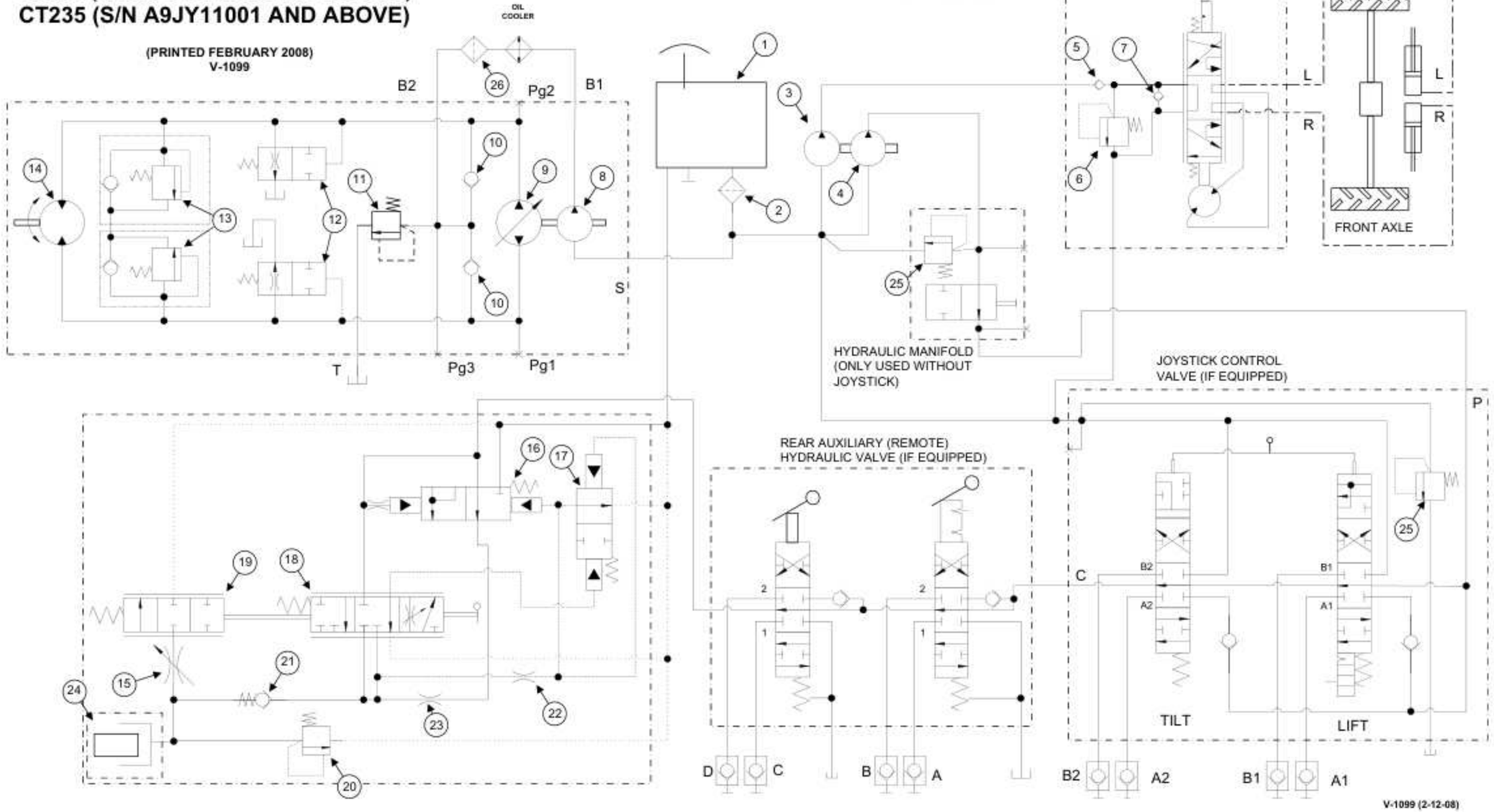
Crankshaft

Item	Factory Specification	Allowable Limit
Crankshaft alignment	-	0.0031 in. (0,08 mm)
Clearance between crankshaft and crankshaft bearing 1	0.00157 - 0.00465 in. (0,040 - 0,118 mm)	0.0079 in. (0,20 mm)
Crankshaft O.D	2.04414 - 2.04488 in. (51,921 - 51,940 mm)	-
Crankshaft bearing 1 I.D	2.04646 - 2.04878 in. (51,980 - 52,039 mm)	-
Clearance between crankshaft and crankshaft bearing 2	0.00157 - 0.00409 in. (0,040 - 0,104 mm)	0.0079 in. (0,20 mm)
Crankshaft O.D	2.04414 - 2.04488 in. (51,921 - 51,940 mm)	-
Crankshaft bearing 2 I.D	2.04646 - 2.04823 in. (51,980 - 52,025 mm)	-
Clearance between crank pin and Crank pin bearing	0.0014 - 0.0037 in. (0,035 - 0,093 mm)	0.0079 in. (0,20 mm)
Crank pin O.D	1.73067 - 1.73130 in. (43,959 - 43,975 mm)	-
Crank pin bearing I.D	1.73268 - 1.73433 in. (44,010 - 44,052 mm)	-
Crankshaft side clearance	0.0059 - 0.0122 in. (0,15 - 0,31 mm)	0.020 in. (0,5 mm)

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HYDRAULIC/HYDROSTATIC SCHEMATIC
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CT230 (S/N ABFP11001 AND ABOVE)
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