V518

Bobcat®
VersaHANDLER

Service Manual

S/N 367012501 & Above
S/N 367311001 & Above



Ingersoll Rand
Compact Vehicle Technologies

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ALPHABETICAL INDEX

ACCUMULATOR 20-01
AIR CLEANER 70-01
AIR CLEANER SERVICE 10-01
AIR CONDITIONING SERVICE 80-01
AIR CONDITIONING SYSTEM FLOW 80-01
ALTERNATOR 60-01
AXLE AND DIFFERENTIAL (FRONT) 40-01
AXLE AND DIFFERENTIAL (REAR) 40-01
AXLE TOE-IN 40-01
AXLES (FRONT AND REAR) 10-01

BASIC TROUBLESHOOTING 80-01
BATTERY 60-01
BOOM ASSEMBLY 50-01
BOOM STOP 10-01
BRAKE LIGHT SWITCH 60-01
BRAKE VALVE 20-01
BUCKET POSITIONING CYLINDER 20-01

CANOPY 50-01
COMPONENTS 80-01
COMPRESSOR 80-01
CONDENSER 80-01
CONVERSIONS SPEC-01

DASH COVER/STEERING COLUMN COVER 50-01
DRIVE BOX 20-01
DRIVESHAFT 40-01

ELECTRICAL SYSTEM INFORMATION 60-01
ENGINE AND ENGINE MOUNTS 70-01
ENGINE COMPONENTS AND TESTING 70-01
ENGINE COOLING SYSTEM 10-01
ENGINE COVER 10-01, 50-01
ENGINE/HYDROSTAT ASSEMBLY 70-01
ENGINE LUBRICATION SYSTEM 10-01
ENGINE SPECIFICATIONS SPEC-01
ENGINE SPEED CONTROL 70-01
EVAPORATOR/BLOWER UNIT 80-01
EXPANSION VALVE 80-01
EXTENSION CYLINDER 20-01

FAN MOTOR 20-01
FENDER 50-01
FLOW CONTROL VALVE 20-01
FLYWHEEL AND HOUSING 70-01
FRONT AUXILIARY HYDRAULIC PRESSURE RELEASE VALVE 20-01
FRONT AXLE 40-01
FRONT WIPER MOTOR 60-01
FUEL SYSTEM 10-01
FUEL TANK 50-01

GEAR PUMP 20-01
GENERAL AIR CONDITIONING SERVICE GUIDELINES 80-01

HEATER ASSEMBLY 80-01
HYDRAULIC CONNECTION SPECIFICATIONS SPEC-01
HYDRAULIC CONTROL VALVE 20-01
HYDRAULIC/HYDROSTATIC FLUID SPECIFICATIONS SPEC-01
HYDRAULIC/HYDROSTATIC SYSTEM 10-01
HYDRAULIC RESERVOIR 20-01
HYDRAULIC SYSTEM INFORMATION 20-01
HYDROSTATIC DRIVE MOTOR 30-01
HYDROSTATIC PUMP 30-01
HYDROSTATIC SYSTEM INFORMATION 30-01

INCHING SWITCH 60-01
INNER BOOM 50-01
INSTRUMENT PANEL 60-01

JOYSTICK 20-01
JOYSTICK PANEL 50-01

LATERAL OPERATOR RESTRAINT SYSTEM (LORS™) 10-01, 60-01
LIFT CYLINDER 20-01
LIFTING AND BLOCKING THE VersaHANDLER 10-01
LIGHTS 60-01
LUBRICATION 10-01

MACHINE TORQUE SPECIFICATIONS SPEC-01
MAIN RELIEF VALVE 20-01
MUFFLER 70-01

OIL COOLER 30-01
OPERATOR CAB 10-01, 50-01
OPERATOR SEAT 50-01

PARKING BRAKE 20-01, 40-01
PEDAL ASSEMBLY 60-01
PORT RELIEF VALVES 20-01
PRESSURE REDUCING VALVE 20-01
PRESSURE SWITCH 80-01

QUICK TACH 50-01
QUICK TACH CYLINDER 20-01

RADIATOR 70-01
REAR AXLE 40-01
REAR WEIGHTS 50-01
REAR WIPER MOTOR 60-01
RECEIVER/DRIER 80-01
RECONDITIONING THE ENGINE 70-01
REGULAR MAINTENANCE 80-01

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ALPHABETICAL INDEX (CONT'D)

SAFETY 80-01
SERVICE BRAKE 40-01
SERVICE SCHEDULE 10-01
SERVICE SOFTWARE 60-01
SPARK ARRESTOR MUFFLER 10-01
STARTER 60-01
STEERING ANGLE ADJUSTMENT 40-01
STEERING CYLINDER (FRONT) 20-01
STEERING CYLINDER (REAR) 20-01
STEERING MODE VALVE BLOCK 20-01
STEERING VALVE 20-01
SWITCH PANEL 60-01
SYSTEM CHARGING & RECLAMATION 80-01
SYSTEM TROUBLESHOOTING CHART 80-01

TEMPERATURE/PRESSURE 80-01
TILT CYLINDER 20-01
TIRE MAINTENANCE 10-01
TOP WIPER MOTOR 60-01
TORQUE SPECIFICATIONS FOR BOLTS SPEC-01
TOW VALVE 20-01
TOWING THE VersaHANDLER 10-01
TRANSPORTING THE VersaHANDLER 10-01
TRAVEL/SIGNAL LEVER 60-01
TROUBLESHOOTING 40-01, 70-01

VersaHANDLER SPECIFICATIONS SPEC-01

WEAR PADS (FRONT) 50-01
WEAR PADS (REAR) 50-01

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CONTENTS

FOREWORD II

SAFETY INSTRUCTIONS V

SERIAL NUMBER LOCATIONS IX

DELIVERY REPORT X

BOBCAT VERSAHANDLER IDENTIFICATION X

SAFETY AND MAINTENANCE 10-01

HYDRAULIC SYSTEM 20-01

HYDROSTATIC SYSTEM 30-01

DRIVE SYSTEM 40-01

MAIN FRAME 50-01

ELECTRICAL SYSTEM AND ANALYSIS 60-01

ENGINE SERVICE 70-01

HEATING, VENTILATION, AIR CONDITIONING 80-01

SPECIFICATIONS SPEC-01

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HYDROSTATIC SYSTEM INFORMATION

Troubleshooting Chart

The following troubleshooting chart is provided for assistance in locating and correcting problems which are most common. Many of the recommended procedures must be done by authorized Bobcat Service Personnel only.

⚠ WARNING

Check for correct function after adjustments, repairs or service. Failure to make correct repairs or adjustments can cause injury or death.

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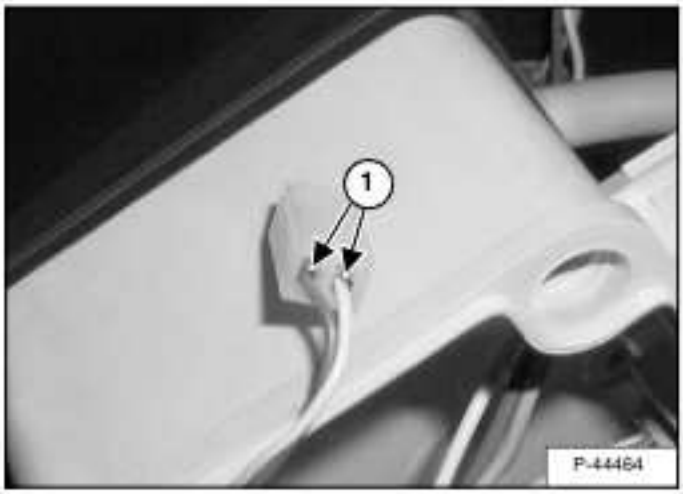
PROBLEM	CAUSE
The VersaHANDLER does not move	1, 2
The VersaHANDLER does not move in a straight line.	3, 4
The hydrostatic system is overheating.	5, 6, 7, 8
Warning light comes ON.	5, 8, 9, 10, 11

KEY TO CORRECT THE CAUSE
1. The hydrostatic pump has damage.
2. The hydrostatic motor has damage.
3. The tires do not have the correct tire pressure.
4. The tires are not the same size.
5. The hydrostatic fluid is not at the correct level.
6. The oil cooler has a restriction.
7. The temperature sending switch is not operating correctly.
8. The VersaHANDLER is not being operated at the correct RPM.
9. The sender is defective.
10. Pump is defective or worn hydrostatics
11. Hydraulic filter is plugged.

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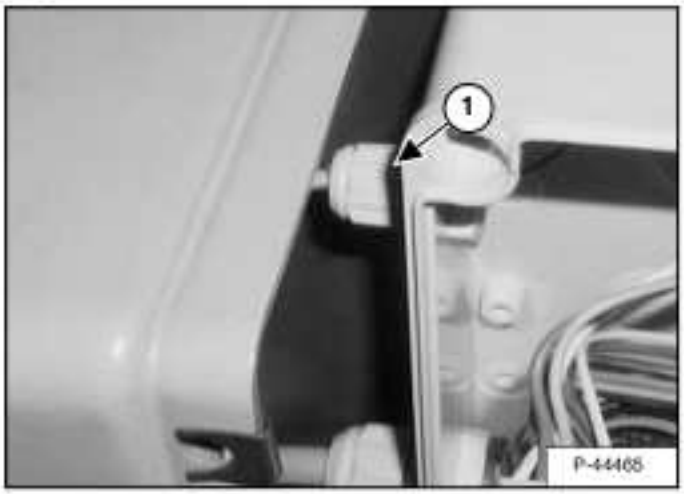
Sensor Removal And Installation (Cont'd)

Figure 60-50-9



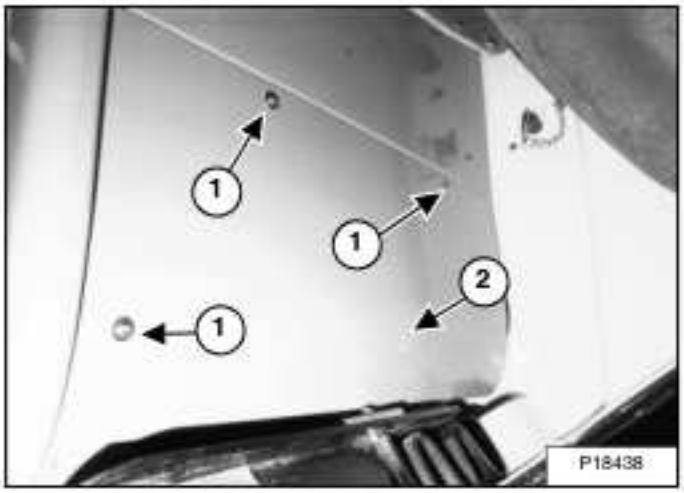
Remove the two wires (Item 1) **[Figure 60-50-9]** from the connector.

Figure 60-50-10



Remove the retainer (Item 1) **[Figure 60-50-10]** from the side of the control box. Pull the wire harness through the retainer.

Figure 60-50-11

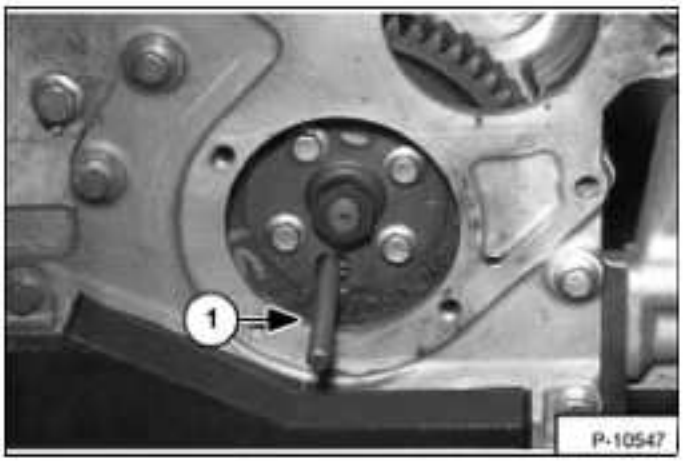


Remove the three screws (Item 1) from the access panel (Item 2) **[Figure 60-50-11]**. Remove the access panel.

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Fuel Injection Pump Removal And Installation (Cont'd)

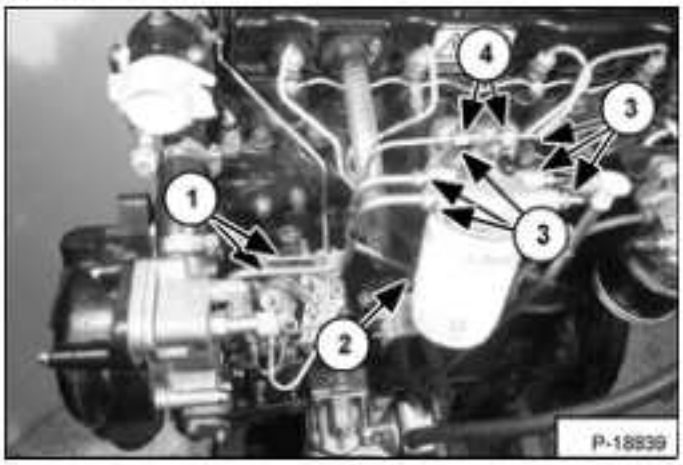
Figure 70-70-5



Insert a timing pin (Item 1) **[Figure 70-70-5]** into the aligned holes.

NOTE: The dimensions of the timing pin are 8 mm O.D. x 127 mm long.

Figure 70-70-6



Disconnect the two tubelines (Item 1) **[Figure 70-70-6]** from the top of the fuel injector pump.

Disconnect the tubeline (Item 2) **[Figure 70-70-6]** from the injector pump.

Remove the six tubelines (Item 3) **[Figure 70-70-6]** from the top side of the secondary fuel filter.

Remove the mounting bolts (Item 4) **[Figure 70-70-6]** from the fuel filter mounting bracket.

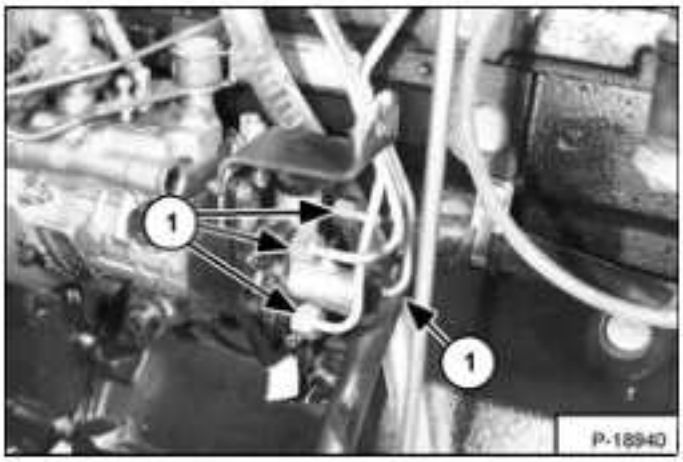
Remove the fuel filter mounting bracket and fuel filter from the engine.

⚠ WARNING

Diesel fuel or hydraulic fluid under pressure can penetrate skin or eyes, causing serious injury or death. Fluid leaks under pressure may not be visible. Use a piece of cardboard or wood to find leaks. Do not use your bare hand. Wear safety goggles. If fluid enters skin or eyes, get immediate medical attention from a physician familiar with this injury.

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Figure 70-70-7

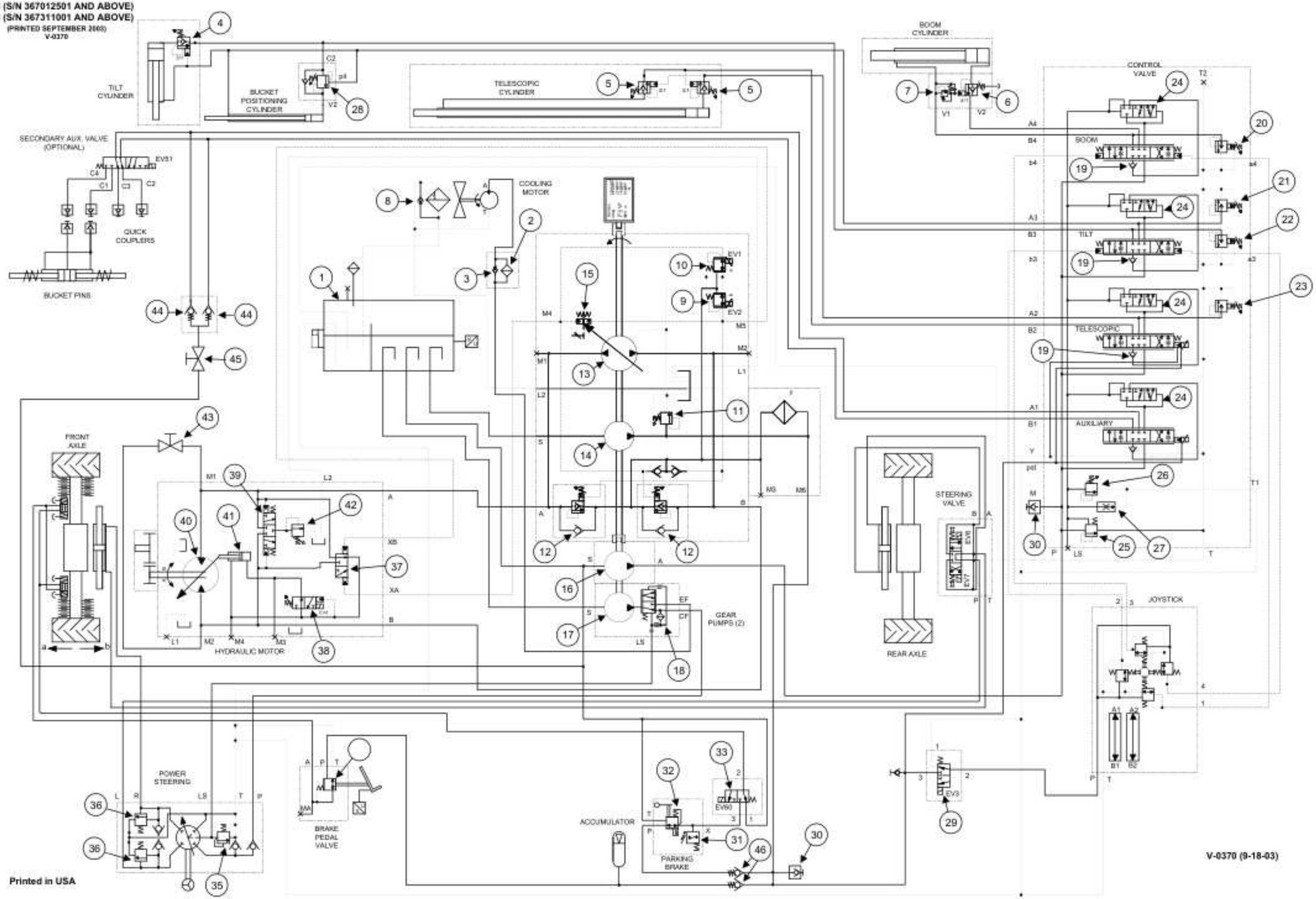


Disconnect the injector tubelines (Item 1) **[Figure 70-70-7]** from the injector pump.

Installation: Tighten the tubeline fittings to 16 ft.-lbs. (22 Nm) torque.

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