

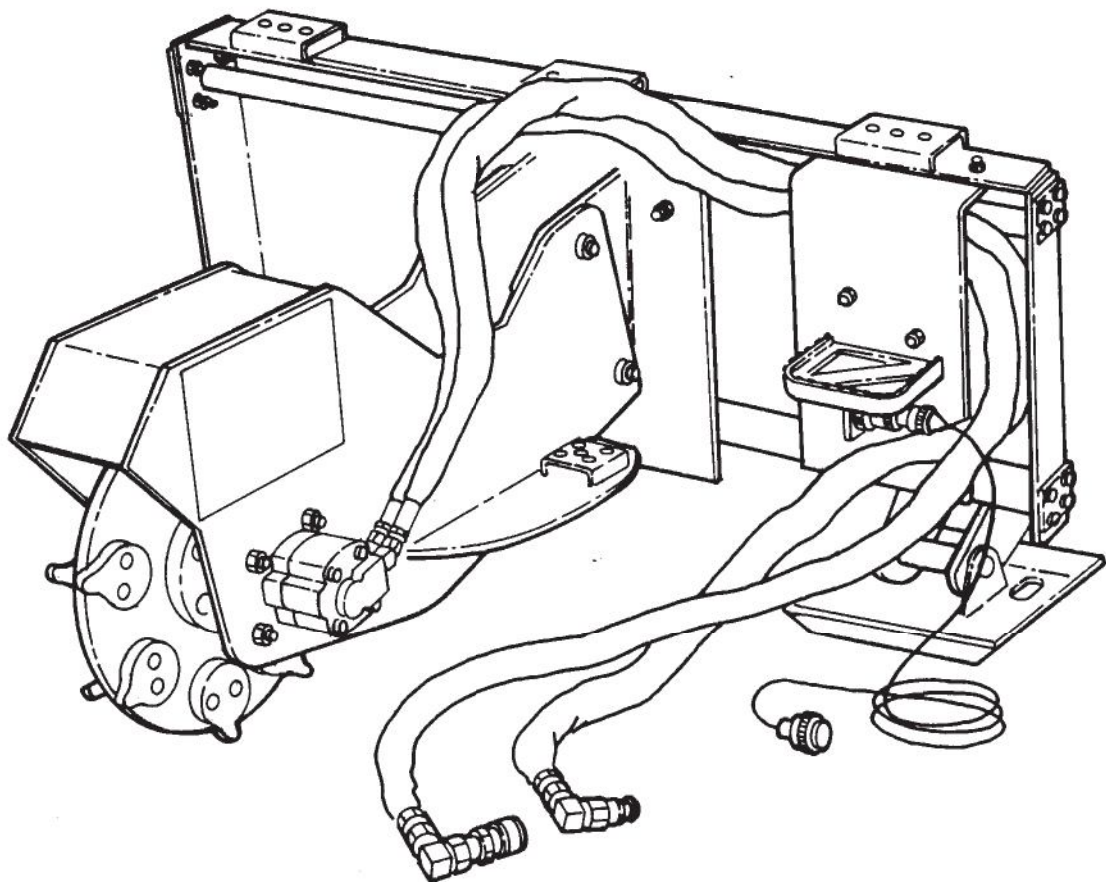


STUMP GRINDER

SG-25
SG-50

SG-25 (S/N 879300101 & Above)
SG-50 (S/N 702100101 & Above)

SERVICE MANUAL



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**MELROE
INGERSOLL-RAND**

6900892(6-12)
1880

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MAINTENANCE SAFETY



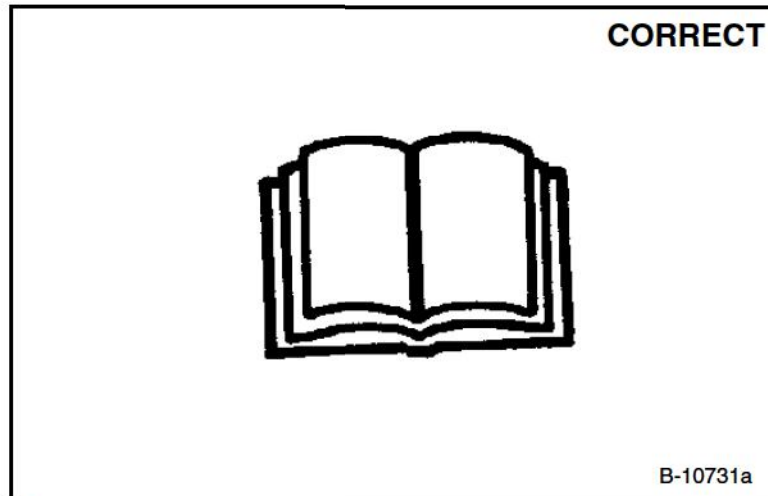
WARNING









Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0903



Safety Alert Symbol: This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.



-  Never service attachments without instructions. See Operation & Maintenance Manual and Attachment Service Manual.
-  Cleaning and maintenance are required daily.
-  Never service or adjust attachment with the engine running unless instructed to do so in manual.
-  Always lower the attachment to the ground before lubricating or servicing.
-  Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate skin or eyes.
-  Stop, cool and clean engine of flammable materials before checking fluids.
-  Keep body, loose objects and clothing away from moving parts, electrical contacts, hot parts and exhaust.
-  Safety glasses are needed for eye protection from electrical arcs, battery acid, compressed springs, fluids under pressure and flying debris or when tools are used. Use eye protection approved for type of welding.

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**PREVENTIVE
MAINTENANCE**

**HYDRAULIC
SYSTEM**

MAIN FRAME

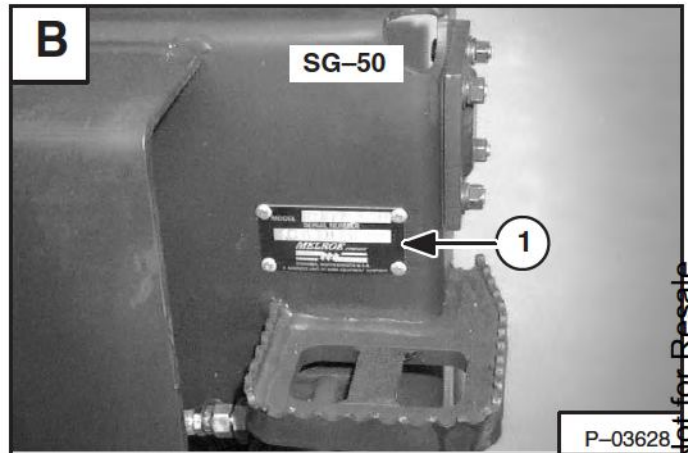
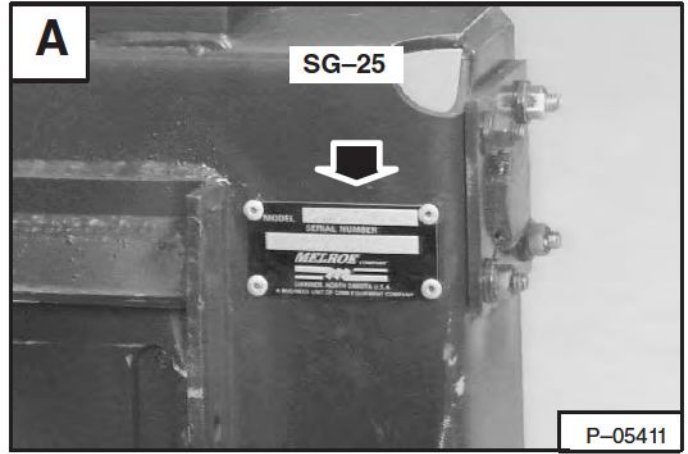
**SPECIFICATIONS
AND
SCHEMATICS**

**CALIFORNIA
PROPOSITION 65 WARNING**
Diesel engine exhaust and some of its
constituents are known to the State of California
to cause cancer, birth defects and other
reproductive harm.

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SERIAL NUMBER LOCATION

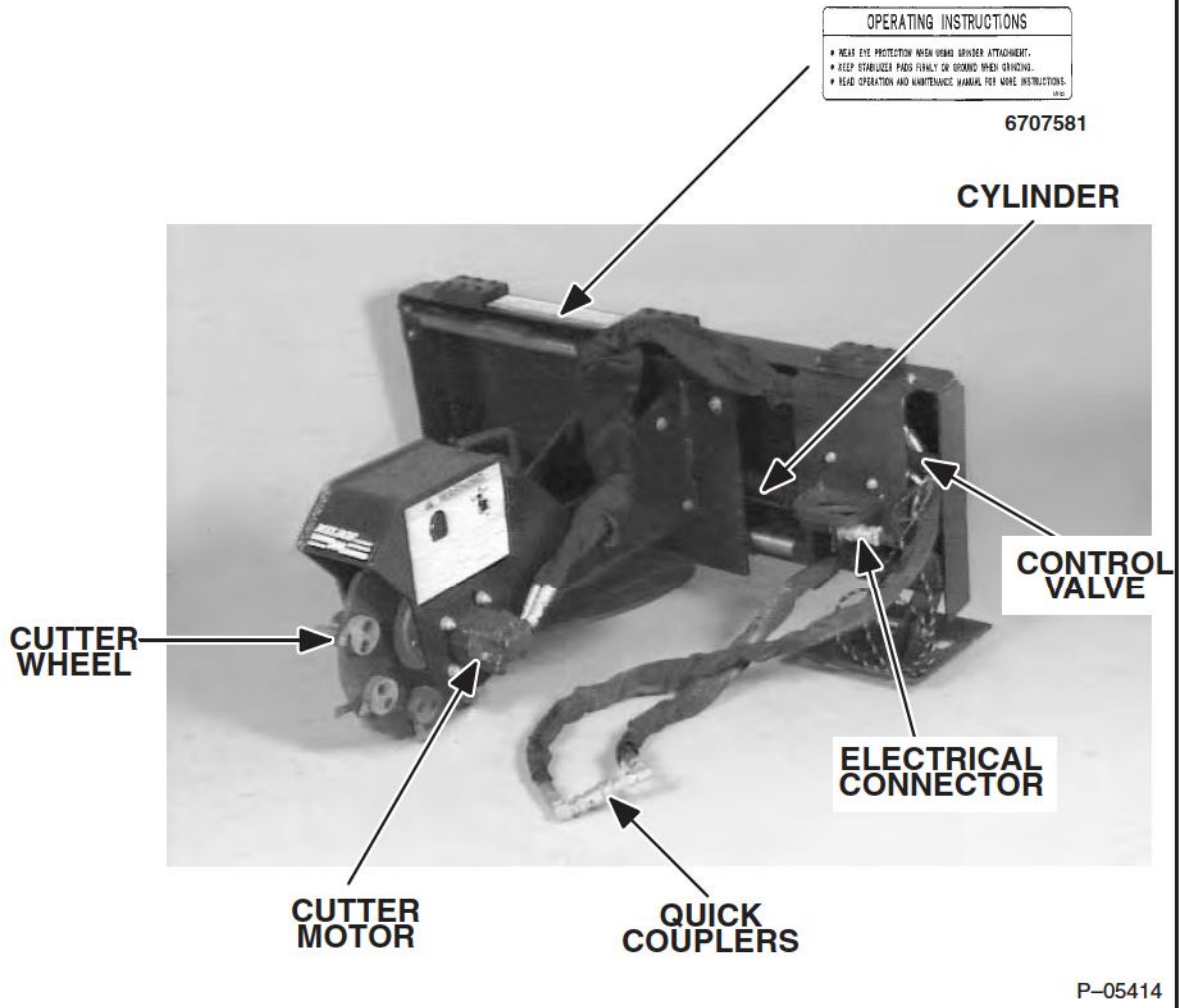
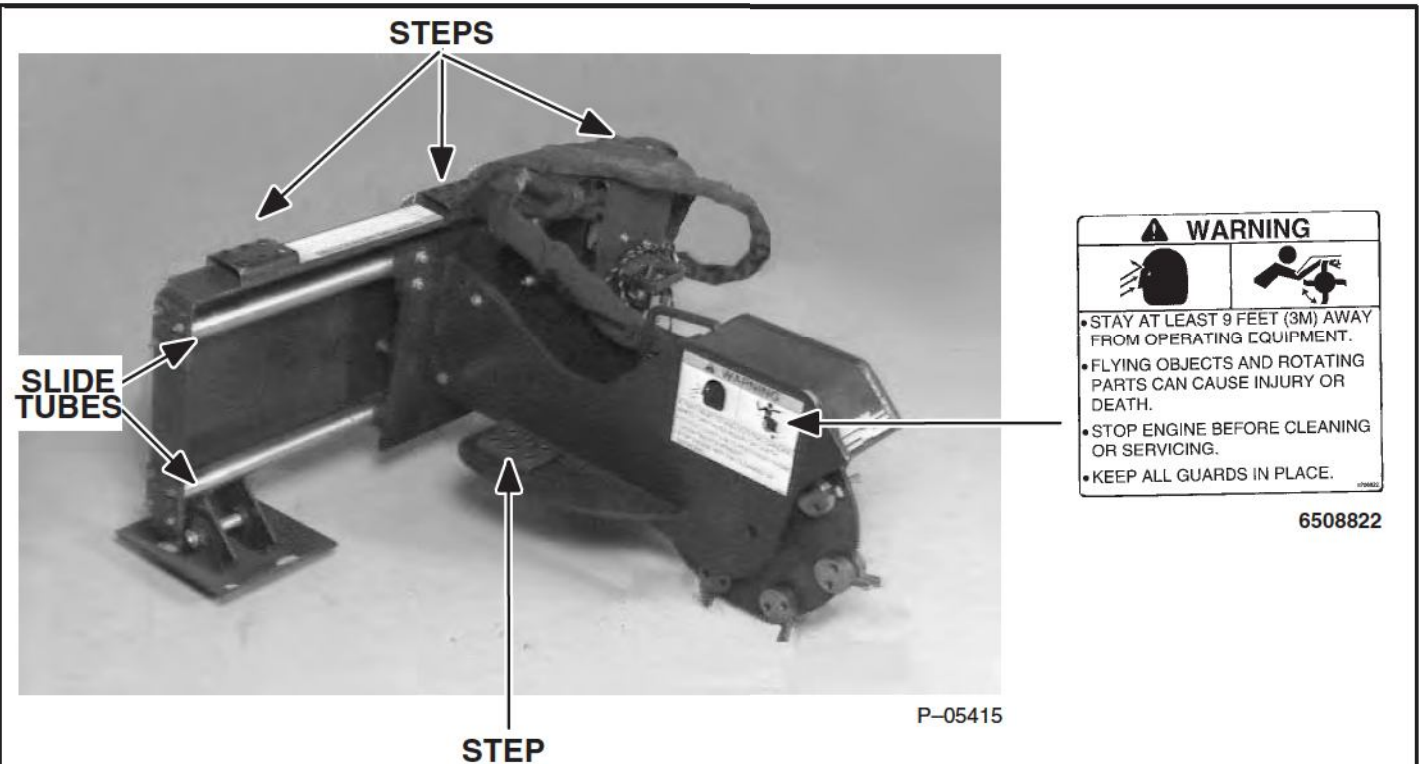
Always use the serial number of the machine when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation [A] & [B].



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STUMP GRINDER IDENTIFICATION

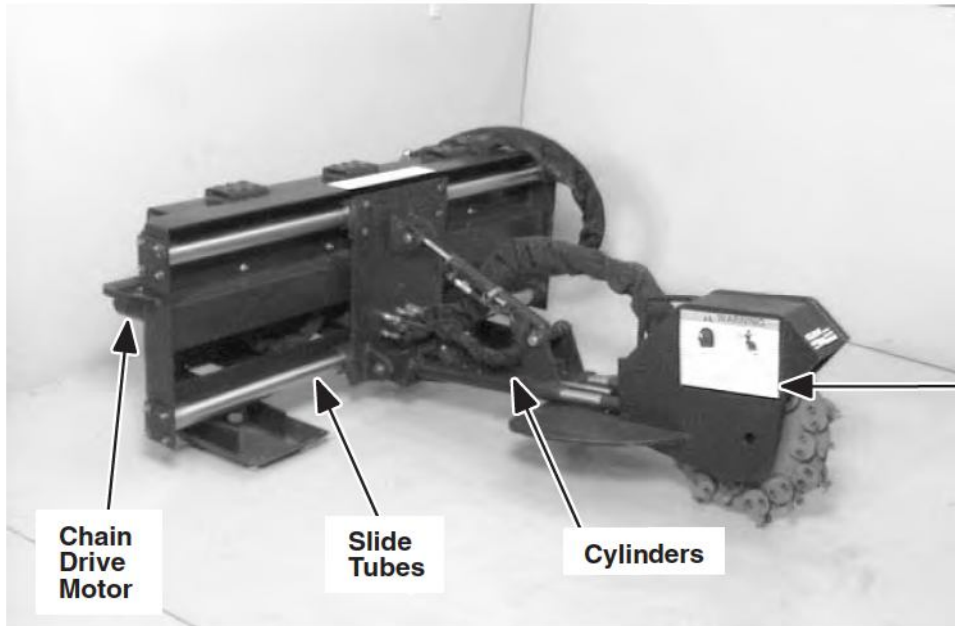
SG-25



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STUMP GRINDER IDENTIFICATION (Cont'd)

SG-50



Chain Drive Motor

Slide Tubes

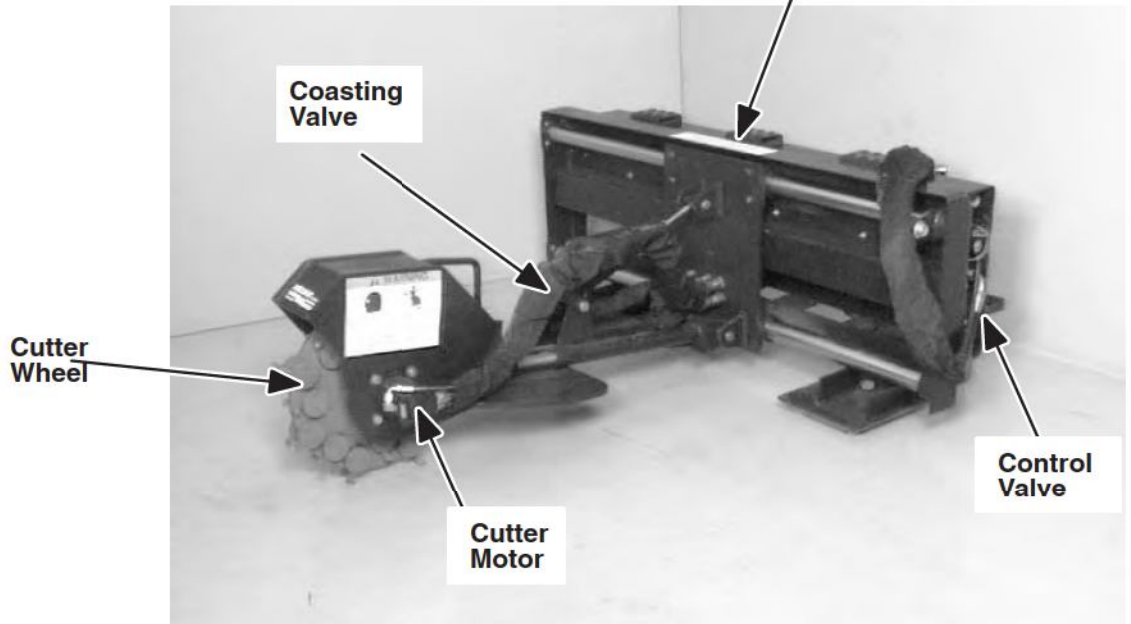
Cylinders

WARNING	
<p>FLYING OBJECTS AND ROTATING GRINDING WHEEL CAN CAUSE INJURY OR DEATH.</p> <ul style="list-style-type: none"> • STAY AT LEAST 4 M (12 FEET) AWAY FROM OPERATING EQUIPMENT. • STOP ENGINE BEFORE CLEANING OR SERVICING. 	

6707580

OPERATING INSTRUCTIONS
<ul style="list-style-type: none"> • WEAR EYE PROTECTION WHEN USING GRINDER ATTACHMENT. • KEEP STABILIZER PADS FIRMLY ON GROUND WHEN GRINDING. • READ OPERATION AND MAINTENANCE MANUAL FOR MORE INSTRUCTIONS.

6707581



Coasting Valve

Cutter Wheel

Cutter Motor

Control Valve

P-03691
P-03693

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PREVENTIVE MAINTENANCE


PREVENTIVE MAINTENANCE

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TROUBLESHOOTING

SG-25

 WARNING	<p>Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.</p> <p style="text-align: right;">W-2003-0199</p>
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If the Stump Grinder is not working correctly check the hydraulic system of the machine thoroughly before making any repairs on the Stump Grinder. Stump Grinder problems can be affected by a hydraulic system that is not operating to specifications. Connect a flow meter to the loader to check the hydraulic pump output, relief valve setting and tubelines to check flow and pressure. (See the loader Service Manual for the correct procedure to connect the flow meter.)

Use the following troubleshooting chart to locate and correct problems which most often occur with the Stump Grinder.

PROBLEM	CAUSE	CORRECTION
Functions too slow or weak	Loader relief setting is too low	Check and reset relief
Sideshift stalls	Slide tubes misaligned.	Re-align tubes
Cutter head hops excessively	Missing cutter. Dull cutter(s) Cutting too much material Cutter setting wrong	Replace cutter(s) Check cutting technique Reduce the cut Reset cutter(s)
Productivity seems low	One or more cutter(s) dull.	Replace cutter
Cutter head stops when side shift is engaged	Cutting too much material	Reduce the cut
Motor shaft seal leaks	Seal damaged	Replace seal

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