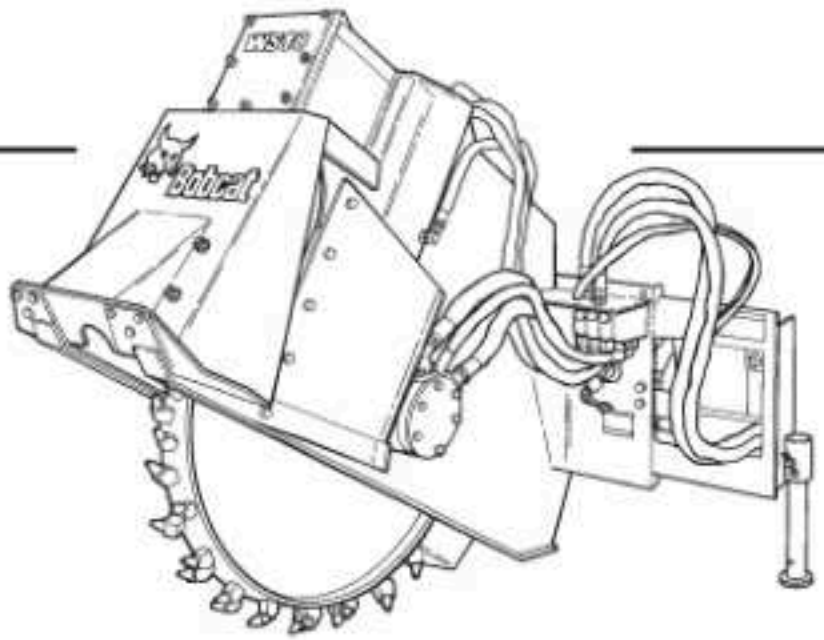
Wheel Saw

WS18
WS24

Bobcat®

Service Manual

S/N 991800101 & Above
S/N 991900101 & Above



IR Bobcat.

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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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⚠ WARNING

Instructions are necessary before operating or servicing machine. Read 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. Failure to follow instructions can cause injury or death.

W–2003–0199

If the Wheel Saw is not working correctly, check the hydraulic system of the loader thoroughly before making any repairs on the Wheel Saw. Wheel Saw problems can be affected by a hydraulic system that is not operating to specifications.

If the loader operation is found to be correct, use the following troubleshooting chart to locate and correct problems with the Wheel Saw.

PROBLEM	CAUSE	CORRECTION
Wheel Saw will not rotate.	Auxiliary hydraulics not activated.	Activate auxiliary hydraulics.
	Hydraulic couplers not fully connected.	Check hydraulic connections.
	Wheel Saw bits are contacting the ground when start–up is attempted.	Raise the Wheel Saw off the ground before engaging auxiliary hydraulics.
	Electrical solenoids on Wheel Saw disconnected or defective.	Check all electrical connections. Repair and/or replace solenoids.
	Control Valve on Wheel Saw damaged or defective.	Repair and/or replace control valve.
Wheel Saw looses power.	Trying to cut at too fast a travel speed	Move loader forward at a slower rate.
	Loss of hydraulic flow.	Make sure High Flow hydraulics are activated.
	Loader relief valve not set to specification.	Check loader relief valve setting.
	Hydraulic pump flow insufficient.	Check hydraulic pump flow.
Wheel Saw will not side shift.	Debris obstructing side shift function.	Check area around side shift cylinder for any obstructions.
	Electrical solenoids on Wheel Saw disconnected or defective.	Check all electrical connections. Repair and/or replace solenoids.
	Control Valve on Wheel Saw damaged or defective.	Repair and/or replace control valve.
Wheel Saw depth frame will not lower or raise.	Debris obstructing depth frame movement.	Clean all areas around depth frame.
	Electrical solenoids on Wheel Saw disconnected or defective.	Check all electrical connections. Repair and/or replace solenoids.
Wheel Saw trench cleaner will not lower.	Debris obstructing trench cleaner movement.	Remove the cover. Clean track of debris and obstructions.
	Electrical solenoids on Wheel Saw disconnected or defective.	Check all electrical connections. Repair and/or replace solenoids.
	Trench not allowing trench cutter to lower.	Cut at least 12" (305 mm) of trench before attempting to lower the trench cleaner.
Trench has excessive debris after cutting operation.	Wheel Saw trench cleaner not lowering completely into trench.	See trench cleaner will not lower information above.
Cutting Bits wear unevenly.	Bits are not rotating in their housings.	See bit replacement page 10–10–4.
Wheel Saw vibrates.	Wheel Saw frame not positioned firmly on work surface.	The wheel saw frame should be fully lowered on the work surface.
	Not enough loader weight on the Wheel Saw.	Raise loader front wheels slightly off of the ground to add additional weight.

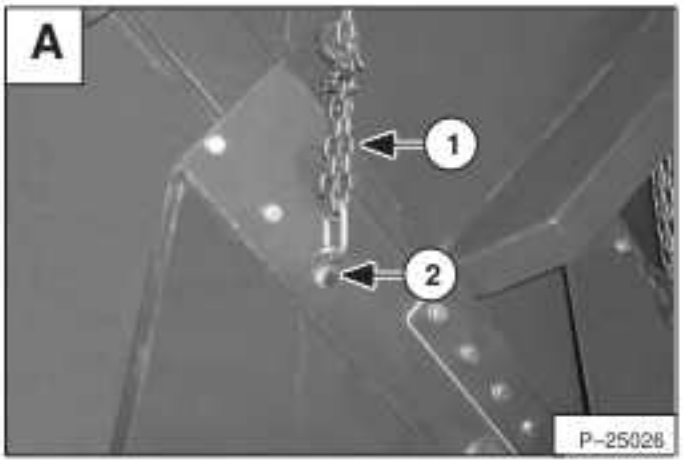
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DEPTH ADJUSTMENT FRAME (Cont'd)

Removal And Installation (Cont'd)

Install an additional hoist (Item 1) **[A]** using the bolt hole (Item 2) **[A]**.

Raise the hoist until the weight of the right side frame is supported by the hoist.



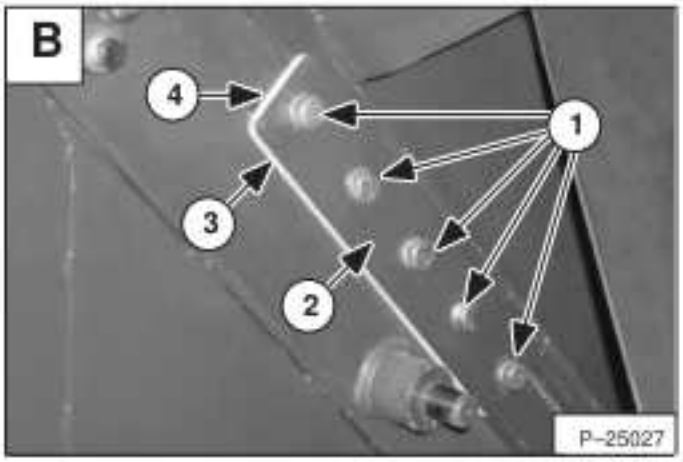
Remove the five bolts and lock washers (Item 1) **[B]** from the slide assembly.

Installation: Tighten the bolts to 90–100 ft.–lbs. (125–140 Nm) torque.

NOTE: Use caution when removing the slide assembly bolts. The frame may swing away from the housing.

Remove the slide assembly, plate (Item 2) **[B]**, wear plate (Item 3) **[B]** and spacer (Item 4) **[B]**.

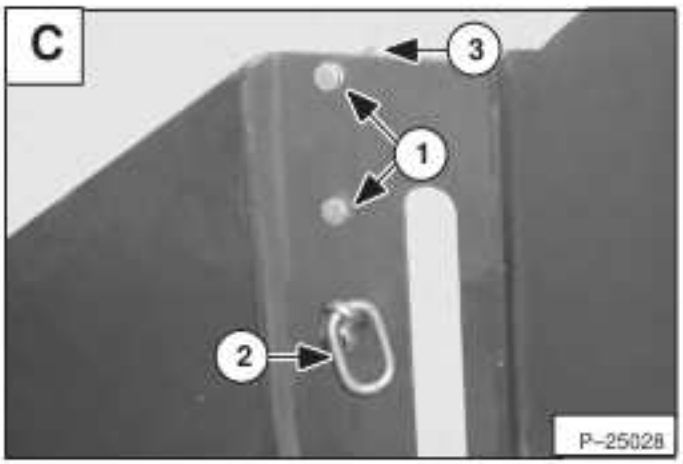
Raise the hoist and remove the right side frame.



Remove the bolts and lock washers (Item 1) **[C]** and hoist mount (Item 2) **[C]** from the guide (Item 3) **[C]**.

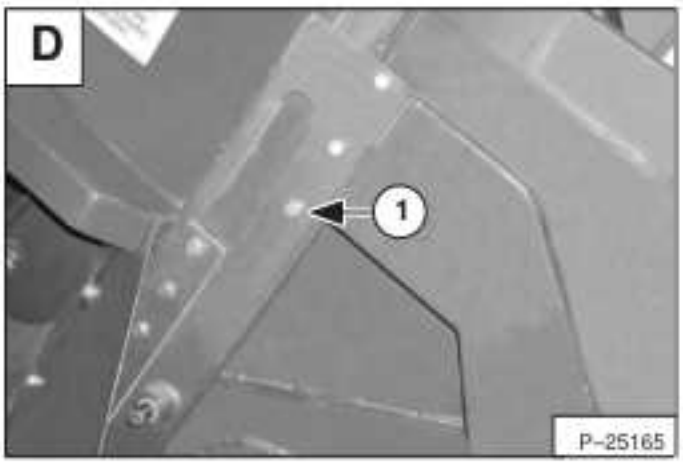
Installation: Tighten the bolts to 55–60 ft.–lbs. (75–85 Nm) torque.

Remove the guide.



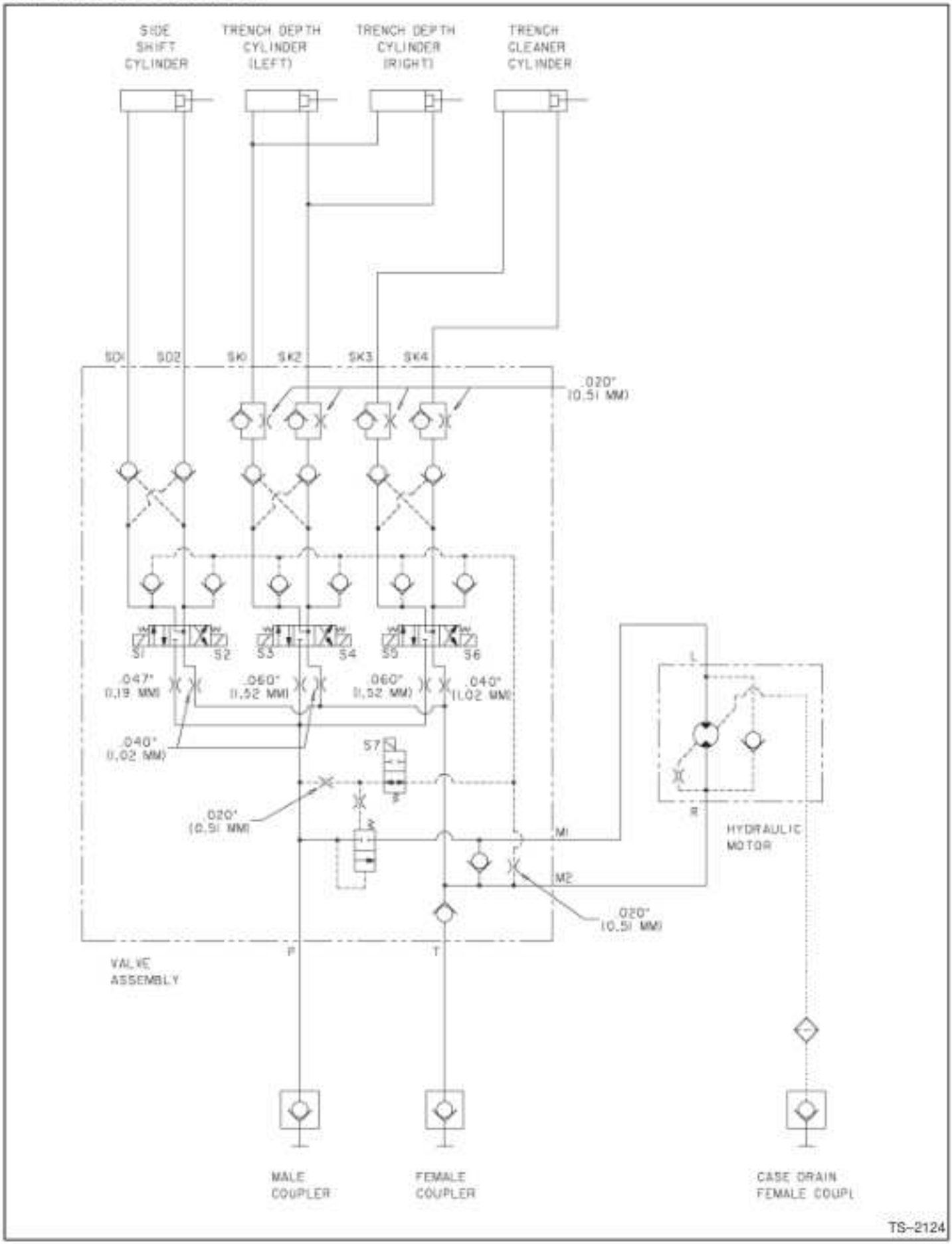
Remove a bolt and lock washer (Item 1) **[D]** from the guide on the left side frame. The WS 24 is shown, the WS 18 has five guide bolts.

Installation: Tighten the bolt to 55–60 ft.–lbs. (75–85 Nm) torque.



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HYDRAULIC SCHEMATIC



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