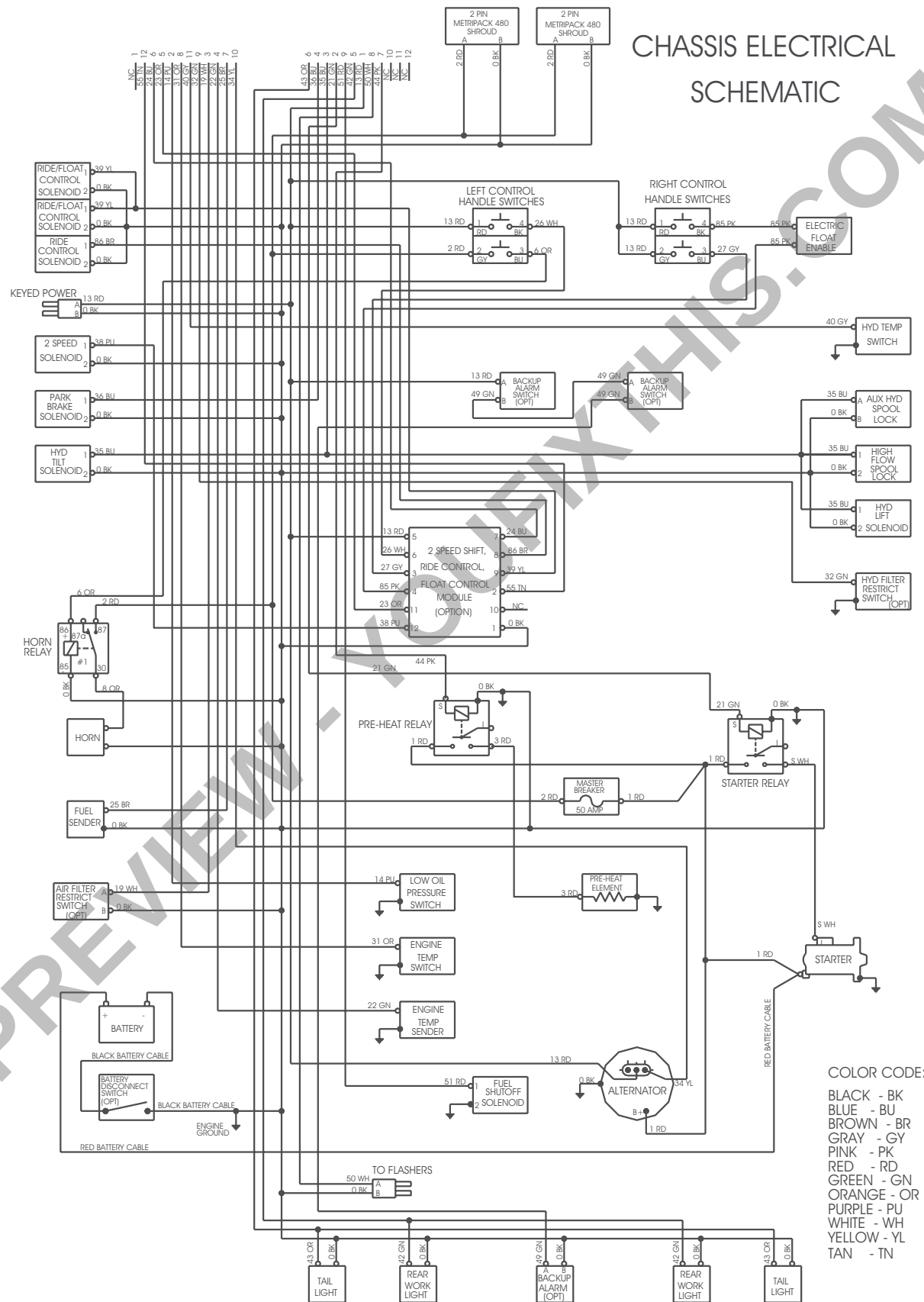
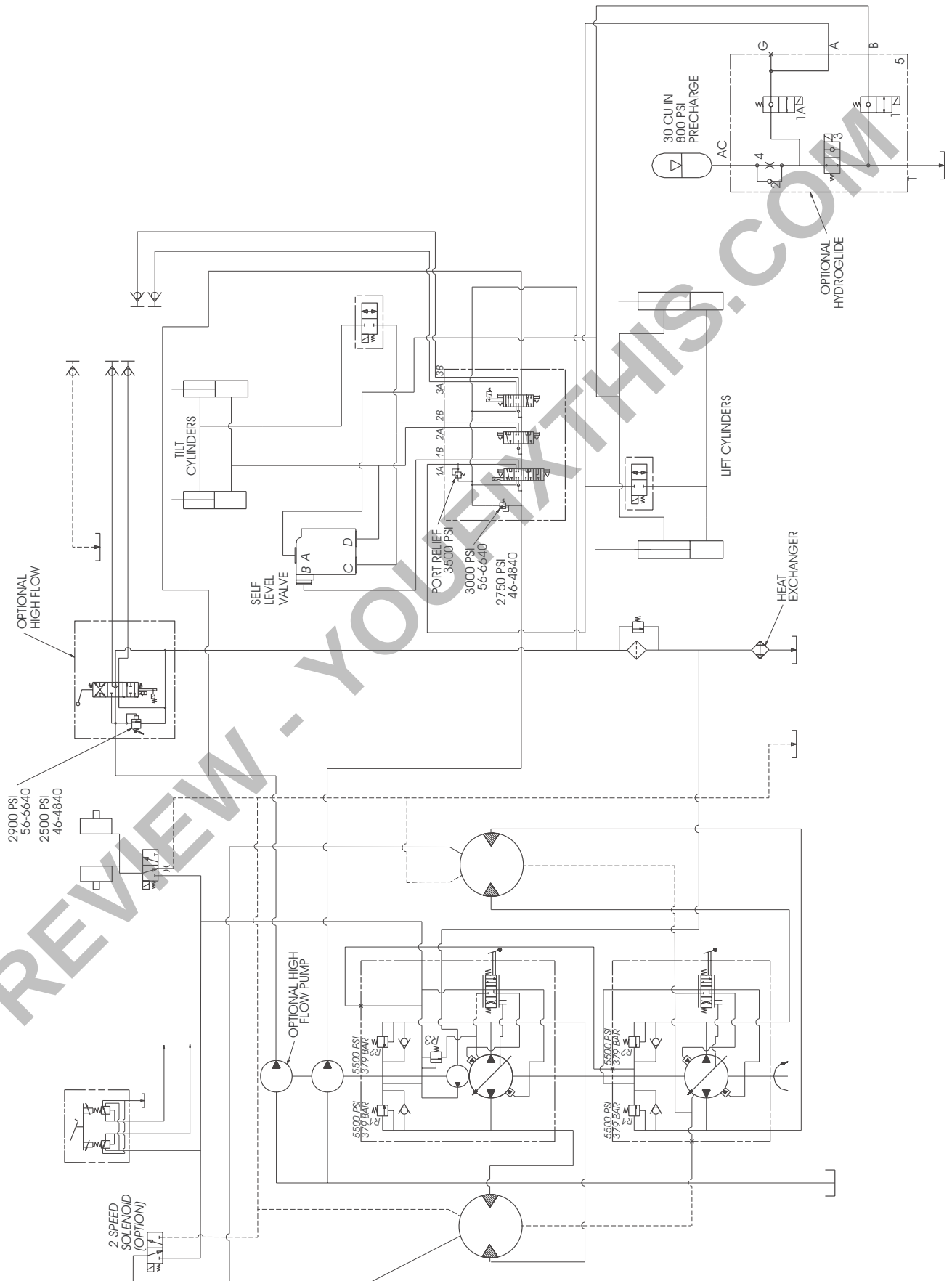


Electrical System Schematic - Chassis



Hydraulic/Hydrostatic System Schematic, 2066/76/86 Models



Introduction

Mustang 2066/76/86 skid-steer loaders have a welded steel chassis. Maintenance, service and repair may be performed through standard access panels.

Two side cases provide mounting for the drive motors and for the front and rear axles. The side cases also serve as sealed housings for the drive chains and sprockets. Oil is used inside these cases to ensure the chains always receive proper lubrication.

The liftarm and the lift and tilt cylinders are mounted with pivot pins. Capscrews are used to secure the pivot pins. A Rollover Protective Structure/Falling Object Protective Structure (ROPS/FOPS) is standard for operator safety, and both the seat and restraint bar include interlock switches.

Rollover & Falling Object - Protective Structure (ROPS/FOPS) Components

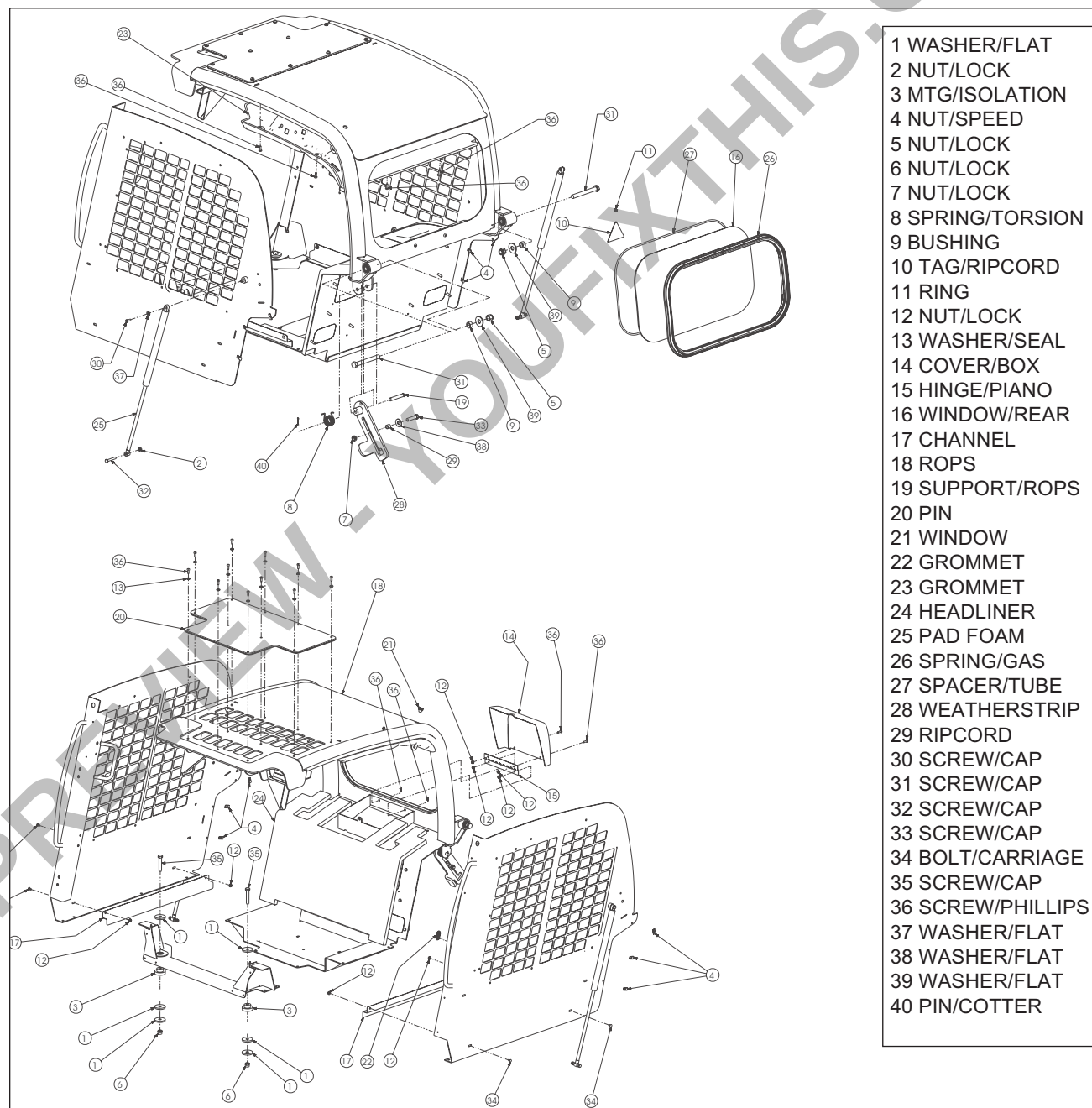


Fig. 4-1 Exploded view of ROPS/FOPS components.

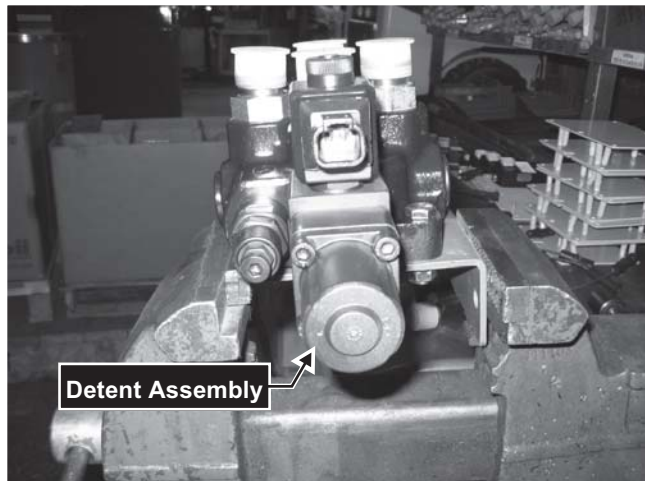


Fig. 8-81 Place the high-flow manifold in a sturdy vise.

High-Flow Manifold Valve Disassembly and Assembly (High-Flow models)

The high-flow manifold valve has a relief valve which can be removed for service. The complete manifold valve should be removed from the loader for repair or replacement of components.

Disassembly Procedure

To remove the relief valve, place it in vise and unscrew it from the manifold valve body. **Figs. 8-81, 8-82 and 8-83**

Assembly Procedure - Reverse the disassembly step AND include the step below:

IMPORTANT

Torque relief valve cartridges to 70 ft-lb (95 N•m). Torque nut retaining solenoid coil to 45 in-lb (5.1 N•m).

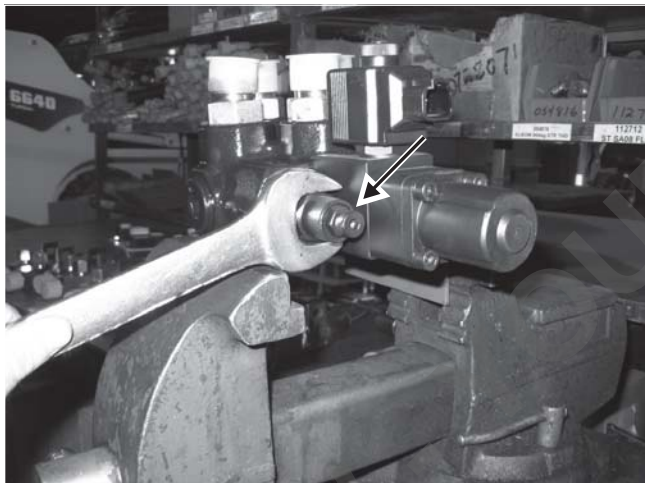


Fig. 8-82 Use a wrench to loosen the relief valve.

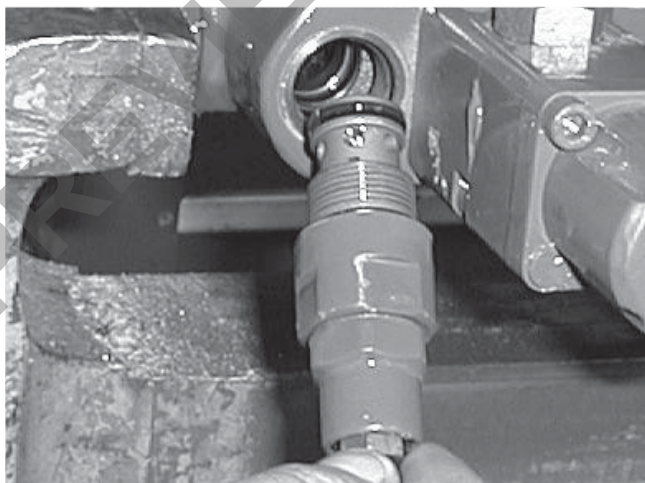


Fig. 8-83 Remove the relief valve.

Troubleshooting Guide

The following troubleshooting guide lists potential hydrostatic system problems, as well as possible causes and remedies, for Mustang 2066/76/86 skid-steer loaders.

When a problem occurs, don't overlook simple causes. A malfunction can be caused by something as simple as low oil level. After a mechanical failure has been corrected, be sure to locate and correct the cause of the problem.

IMPORTANT

DO NOT attempt to service or repair major hydrostatic system components, such as the hydrostatic pumps or drive motors, unless authorized to do so by your Mustang dealer. Any unauthorized repair will void the warranty.

Problem	Possible Cause	Remedy
No response from the hydrostatic drive or the lift/tilt systems.	Hydraulic oil viscosity is too high.	Allow longer warm-up or replace oil with the proper viscosity oil.
	Hydraulic oil supply is too low.	Check for low oil level in reservoir. Add oil as needed.
	Hydrostatic pump drive is disconnected. Drive coupling failure.	Check for broken or worn pump Drive Coupling and replace, as needed.
Traction drive will not operate in either direction.	Parking brake is engaged.	Disengage parking brake.
	Hydraulic oil supply too low.	Check for low oil level in reservoir. Add oil if necessary.
	Control rod linkage disconnected.	Check linkage connection at control levers and neutral centering mechanisms. Reconnect linkage.
	Low or no charge pressure.	See hydrostatic pump manual.
Drive wheels do not turn in proper direction for T-Bar movement.	Hydrostatic pump relief valves are malfunctioning.	Inspect and clean the relief valves. Replace them as needed.
	High pressure hydraulic hoses between hydrostatic pump and drive motors are connected wrong.	Reconnect hoses to proper ports on the drive motors. Refer to schematic and figures in hydrostatic chapter.

SPECIFICATIONS

	2066	2076	2086
Make of Engine	Cummins	Cummins	Cummins
Model	B3.3	B3.3T	B3.3T
Fuel	Diesel	Diesel	Diesel
Displacement	199 in ³ (3.26 L)	199 in ³ (3.26 L)	199 in ³ (3.26 L)
Horsepower - Net	60 hp (45 kW) @ 2200 rpm	80 hp (60 kW) @ 2200 rpm	80 hp (60 kW) @ 2200 rpm
Peak Torque	158 lb-ft (214 Nm) @ 1600 rpm	215 lb-ft (291 Nm) @ 1600 rpm	215 lb-ft (291 Nm) @ 1600 rpm
Operating Load - SAE*	2000 lbs. (907 kg)	2200 lbs. (998 kg)	2600 lbs. (1179 kg)
Operating Weight	7480 lbs. (3393 kg)	7480 lbs. (3393 kg)	7860 lbs. (3565 kg)
Shipping Weight	6550 lbs. (2971 kg)	6550 lbs. (2971 kg)	6985 lbs. (3168 kg)
Engine Oil	8 U.S. qts. (7.5 L)	8.5 U.S. qts. (8 L)	8.5 U.S. qts. (8 L)
Fuel Tank	19.0 U.S. gal. (72 L)	19.0 U.S. gal. (72 L)	24 U.S. gal (91 L)

Specifications below apply to all 2066/76/86 Models

Capacities	
Chaincase (each)	8.0 U.S. qts. (7.5 L)
Hydraulic Reservoir	16 U.S. gal. (61 L)
Engine Coolant	9 U.S. qts. (8.5 L)
Electrical	
Battery	12-Volt DC, 950 CCA
Starter	12-Volt DC (2.3 kW)
Alternator	60 amperes
Hydraulic System	
Hydraulic System Pressure	3000 psi (207 bar)
Standard Aux. Flow Rate	21.4 gpm (81 L/min)
Hi-Flow Aux. Flow Rate	36 gpm (136 L/min)
Travel Speed - Single-Speed	8 mph (13 km/h)
Travel Speed - Two-Speed	11.2 mph (18 km/h)

Tire Options	
10 (12) x 16.5 - 8-ply (10-ply)	High Clearance Flotation tires
10 (12) x 16.5 - 8-ply (10-ply)	Heavy Duty Poly-filled tires
10 (12) x 16.5 - 8-ply (12-ply)	Severe Duty tires
10 (12) x 16.5 - 8-ply (12-ply)	Severe Duty Poly-filled tires
6.50 (7.50) x 16 Solid	Solid Rubber tires
33 x 15.50 x 16.5 - 12-ply	Heavy Duty 2000 II tires
14 x 17.5 - 14-ply	High Clearance Flotation tires

Buckets and Capacities			
Width - inches (millimeters)	Bucket Description	Capacity (Heaped)	
70 inches (1778 mm)	Dirt/Construction	15 cubic feet	0,42 cubic meters
70 inches (1778 mm)	Dirt/Construction	19 cubic feet	0,54 cubic meters
74 inches (1879 mm)	Dirt/Construction	20.4 cubic feet	0,58 cubic meters
74 inches (1879 mm)	Utility	27 cubic feet	0,76 cubic meters
74 inches (1879 mm)	Utility/Snow	32.5 cubic feet	0,92 cubic meters
92 inches (2336 mm)	Snow	41.1 cubic feet	1,16 cubic meters
67.5 inches (1715 mm)	Earth and Foundry	14 cubic feet	0,40 cubic meters
15.75, 19.68, 24 inches (400, 500, 670 mm)	Pallet Fork	NA	NA

*Operating load rated with a 67.5" inch (1715 mm) 2066/2076 earth and foundry bucket or 75" (1905 mm) 2086 earth and foundry bucket in accordance with SAE J818.



Fig. 2-1 The lock pin secures the liftarm support device underneath the left liftarm.



Fig. 2-2 Flip lock pin down and grab with finger.



Fig. 2-3 Pull ring out of welded post.

Liftarm Support Device

! WARNING

BEFORE leaving the operator's compartment to work on the loader with the liftarm raised, **ALWAYS** engage the liftarm support device. Turn the keyswitch to OFF, remove the key and take it with you.

Many service procedures require a raised liftarm to allow easier access to loader components. For operator and service personnel safety, a liftarm support device is standard on Mustang skid-steer loaders. Used as a cylinder block, it is intended to prevent a raised liftarm from unexpectedly lowering.

BE SURE to engage the liftarm support device whenever the liftarm is raised. When the device is not being used, secure it to the anchor on the underside of the liftarm using the lock pin and retainer provided.

The liftarm support device is a safety device, which must be kept in proper operating condition at ALL times.

The following procedures outline the correct way to engage and disengage the liftarm support device.

Liftarm Support Device Engagement

1. Lower liftarm until contact with loader frame.
2. Turn the keyswitch to the OFF position to stop the engine.
3. Leave operator's compartment. Flip lock pin ring down and pull out of welded post to release its locking mechanism. Allow support device to come down into contact with lift cylinder. **Figs. 2-1, 2-2 and 2-3**
4. Return to the operator's compartment and restart the engine.
5. Use lift control to raise liftarm until lift arm support device drops over the end of the lift cylinder and around cylinder rod. Slowly lower liftarm until free end of support device contacts top end of lift cylinder. **Fig. 2-4**
6. Make sure the support device is secure against the base end of the lift cylinder. Then, stop the loader engine, remove the key and leave the operator's compartment.

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General Information

The above safety alert symbol means: **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!** It stresses an attitude of “Heads Up for Safety” and can be found throughout this service manual and on the decals on the machine.

Before operating or working on this machine, read and study the following safety information. In addition, be sure that everyone who operates or works on this equipment is familiar with these safety precautions. It is essential to have competent and careful operators, who are not physically or mentally impaired, and who are thoroughly trained in the safe operation of the machine and the handling of loads. It is recommended that the operator be capable of obtaining a valid motor vehicle operator's license.

The use of skid-steer loaders is subject to certain hazards that cannot be eliminated by mechanical means, but only by exercising intelligence, care and common sense. Such hazards include, but are not limited to, hillside operation, overloading, instability of the load, poor maintenance and using the equipment for a purpose for which it is not intended or designed.

The Mustang Manufacturing Company ALWAYS considers the operator's safety when designing its machinery and guards exposed moving parts for the operator's protection. However, some areas cannot be guarded or shielded in order to assure proper operation. Furthermore, the Operator's Manual and the decals on the machine warn of additional hazards and should be read and observed closely.

This section of the manual includes procedures, which when followed, will allow safe performance of service procedures: Mandatory Safety Shutdown Procedure, Lift Cylinder Liftarm Support Device, Roll Over Protective Structure (ROPS)/Falling Object Protective Structure (FOPS) Lock Mechanism, Loader Raising and Lowering Procedures, and Relieving Hydraulic Pressure.

Signal Words



DANGER

“**DANGER**” indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

“**WARNING**” indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

“**CAUTION**” indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. May also alert against unsafe practices.

Additional Safety Reminders



Read and understand the Service Manual and all decals before maintaining, adjusting or servicing this equipment.

Doors, Guards and Shields - Some photographs in this manual may show doors, guards and shields open or removed for illustrative purposes only. **BE SURE** all doors, guards and shields are in their proper operating positions **BEFORE** starting engine to operate unit.

Damaged or Worn-out Parts - For safe operation, replace damaged or worn-out parts with genuine Mustang service parts, **BEFORE** operating this equipment.

Attachments - Mustang skid-steer loaders are designed and intended to be used only with Mustang Manufacturing Company attachments or approved referral attachments. The Mustang Manufacturing Company cannot be responsible for operator safety if the loader is used with a non-approved attachment.



Battery Safety - To avoid injury from a spark or short circuit, disconnect the negative (-) battery cable before servicing any part of the electrical system. Do not tip the battery more than 45° to avoid spilling electrolyte.

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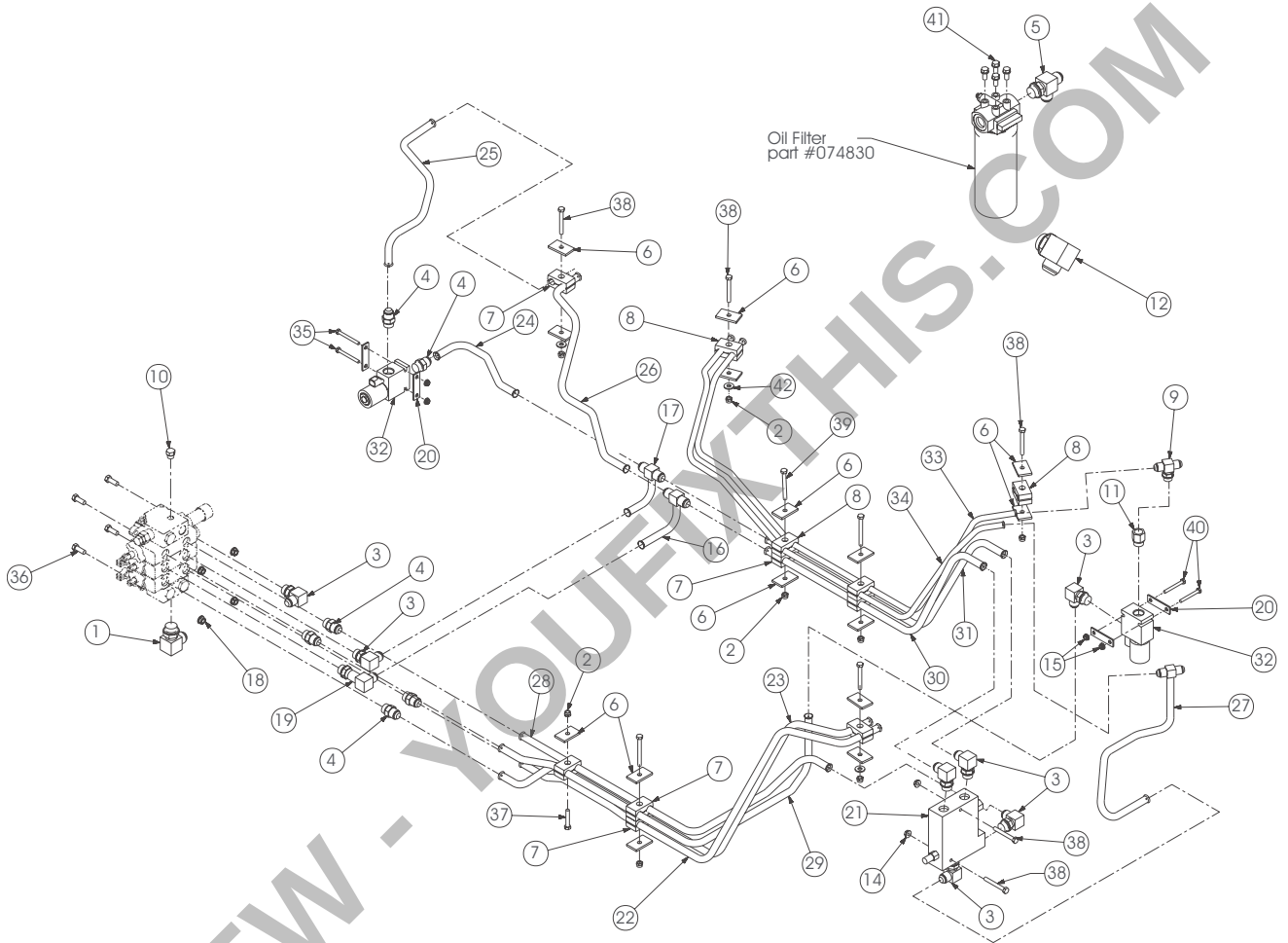
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Hydraulic System - Chassis Components - 2066 and 2076 Models



1 FITTING/90°	12 FITTING/90°	23 TUBE/AUX. FRONT	34 TUBE/LIFT FRONT
2 NUT/HEX 5/16	13 ASSEMBLY/FILTER	24 TUBE/TILT SOLENOID	35 SCREW/CAP
3 FITTING/90°	14 NUT/LOCK	25 TUBE/TILT	36 SCREW/CAP
4 FITTING/STRAIGHT	15 NUT/LOCK	26 TUBE/TILT	37 SCREW/CAP
5 FITTING/TEE	16 TUBE/TILT	27 TUBE/SELF LEVEL	38 SCREW/CAP
6 PLATE/TWIN COVER	17 TUBE/TILT	28 TUBE/LIFT	39 SCREW/CAP
7 CLAMP/TUBE	18 NUT/LOCK	29 TUBE/LIFT	40 SCREW/CAP
8 CLAMP/TUBE	19 FITTING/90°	30 TUBE/TILT FRONT	41 SCREW/MACHINE
9 FITTING/TEE	20 STRAP	31 TUBE/TILT REAR	42 WASHER/FLAT
10 PLUG	21 VALVE/SELF LEVEL	32 VALVE/SOLENOID	
11 FITTING/STRAIGHT	22 TUBE/AUX. REAR	33 TUBE/LIFT REAR	

Fig. 8-1 Exploded view of the chassis hydraulics.

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