Restraint Bar Switch Removal and Installation

Removal Procedure

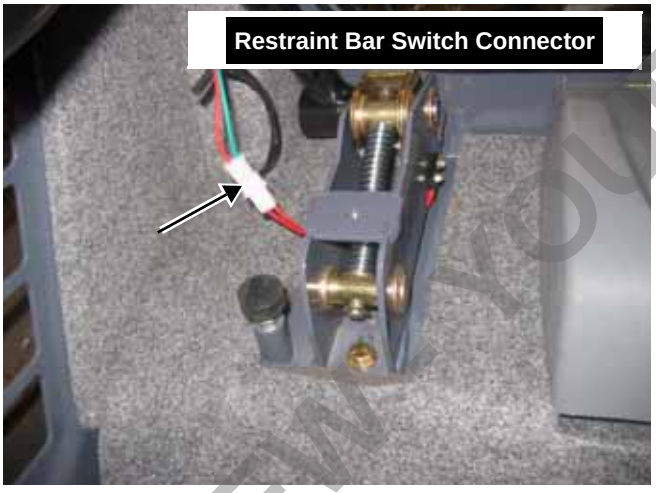
WARNING

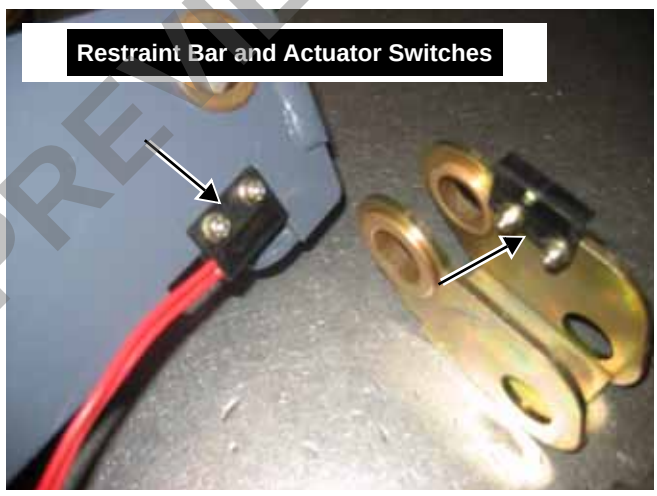
BEFORE beginning this service procedure, perform the following SAFETY procedure:

Shut off the engine.

(For detailed instructions, refer to the *Safety* chapter of this manual.)

1. Remove the restraint bar assembly per the procedure in the *Mainframe* chapter.
2. Remove the two washers and hex nuts that secure the restraint bar switches to the pivot assembly bracket.





3. Remove the switches from the bracket assembly.

WARNING

DO NOT attempt to operate loader without the restraint bar switch installed.

Installation Procedure - Follow all warnings first, then reverse the removal steps*.

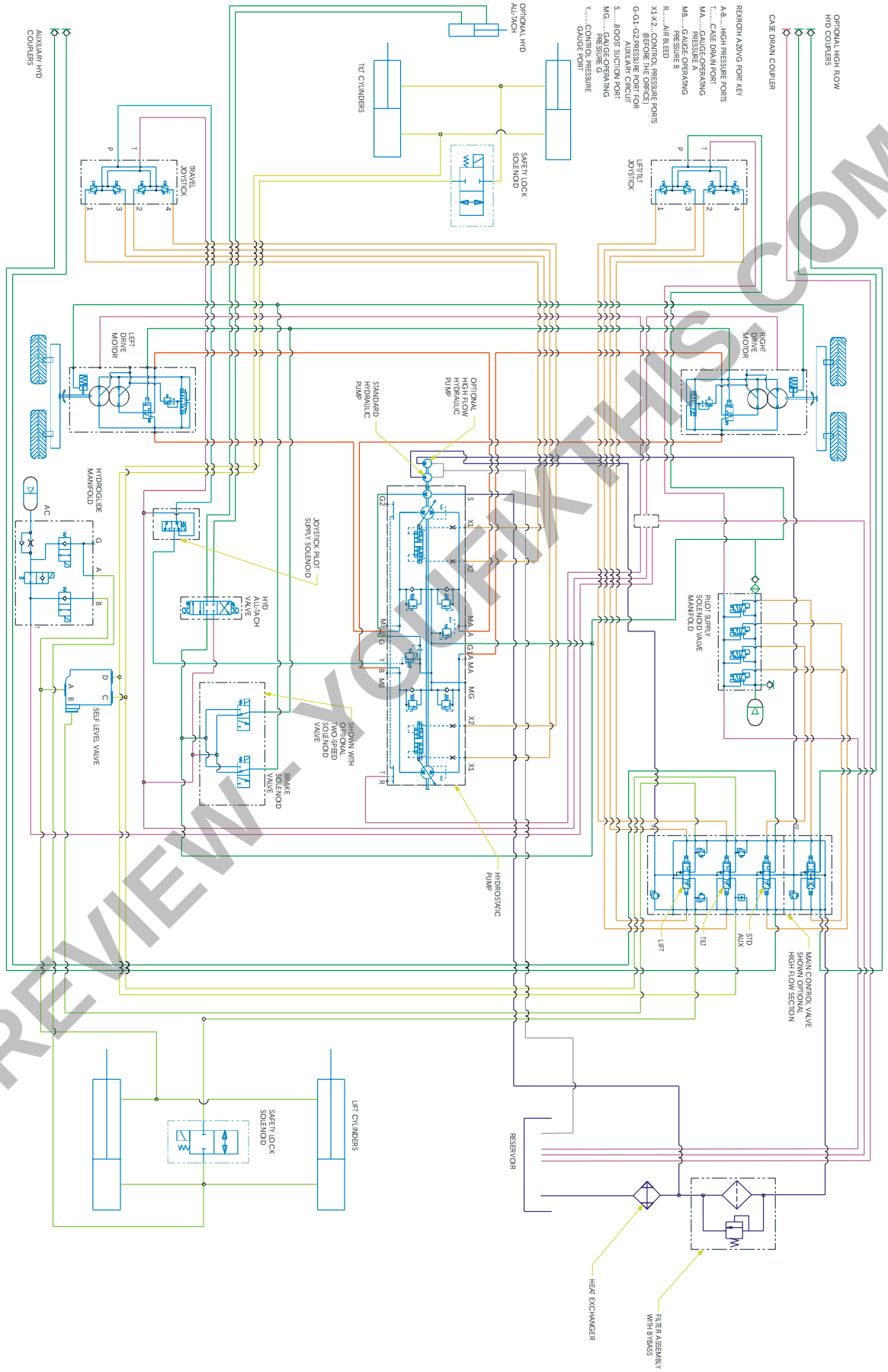
* Adjust position of restraint bar switch and actuator switch so they are aligned with each other when restraint bar is down against the rubber stops.

* Install the restraint bar according to the procedure in the *Mainframe* chapter.

PREVIEW ONLY FIXTHIS.COM

Download full manual at youfixthis.com

Hydrostatic/Hydraulic Schematic - Dual Joystick Controls



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

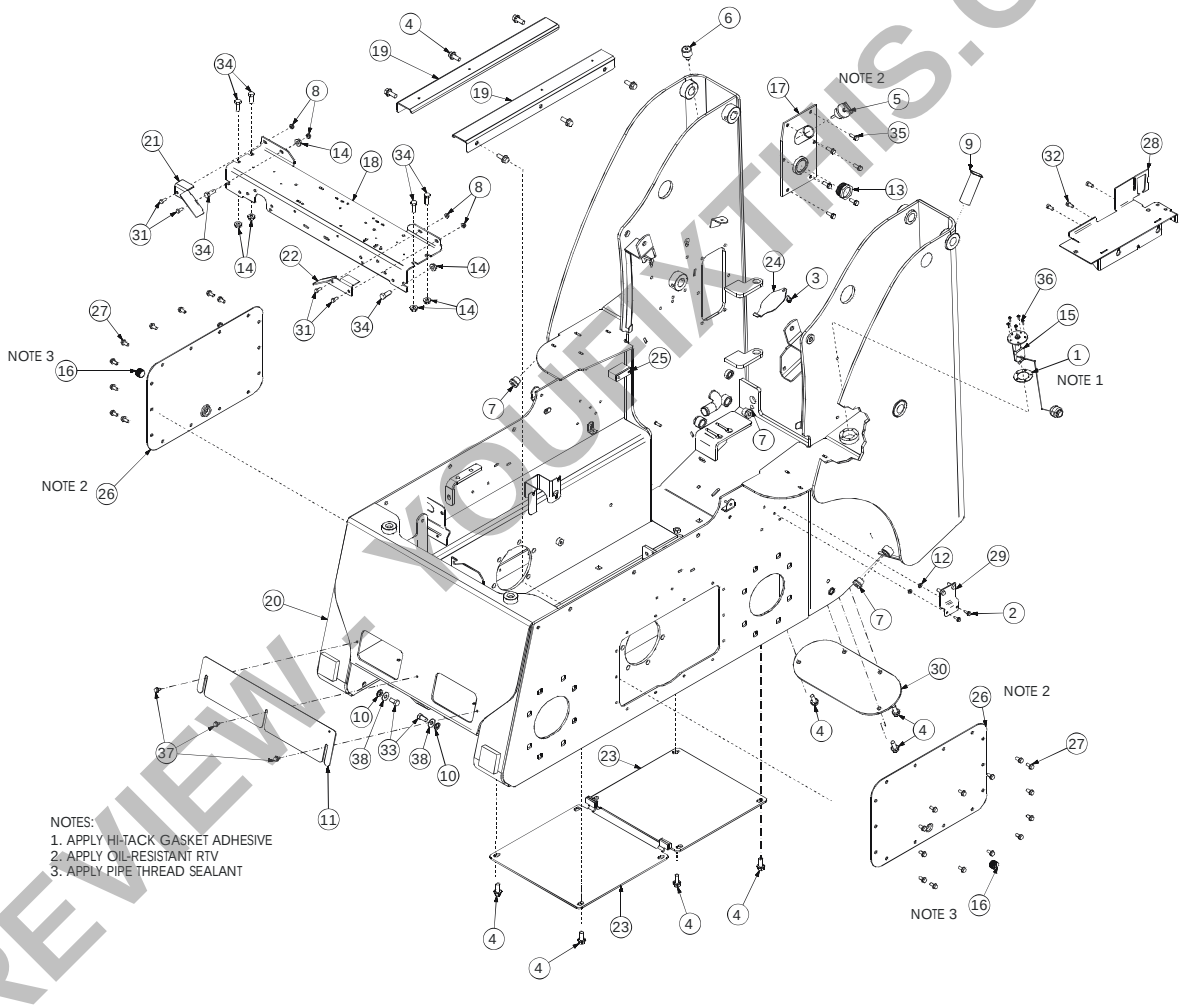
Introduction

2056 model skid-steer loaders have a welded steel chassis. Maintenance, service and repair may be performed through standard access panels.

Two side chaincases 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 lift arm 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.

Mainframe (Chassis) Components



1	GASKET/FUEL SENDER	14	NUT/SPIRALOCK	27	SCREW/TAPPING
2	SCREW/CAP LOCK	15	FUEL SENSOR/VDO	28	ASSY/BATTERY TRAY
3	SCREW/CAP LOCK	16	PLUG/PIPE SQUARE SOCKET	29	BRACKET/FILTER
4	SCREW/CAP LOCK	17	COVER/HYDRAULIC RESERVOIR	30	COVER/ACCESS
5	CAP/HYDRAULIC RESERVOIR	18	PLATE/CROSSMEMBER	31	SCREW/CAP
6	BREATHER/HYD. RESERVOIR	19	ASSY/ROPS FILLER	32	SCREW/CAP
7	PLUG	20	WELDMENT/CHASSIS	33	SCREW/CAP
8	NUT/SPIRALOCK	21	COVER/UNDER SEAT RIGHT	34	SCREW/CAP
9	STRAINER/FUEL FILL	22	COVER/UNDER SEAT LEFT	35	SCREW/MACHINE
10	WASHER/SEAL	23	BELLYPAN	36	SCREW/MACHINE
11	COVER/TOEPLATE	24	PLATE/COVER	37	SCREW/CAP
12	NUT/SPIRALOCK	25	SPACER/SOLENOID LIFT	38	WASHER/FLAT
13	SIGHT PORT	26	COVER/CHAINCASE		

PREVIEW YOUFIXTHIS.COM

Download full manual at youfixthis.com

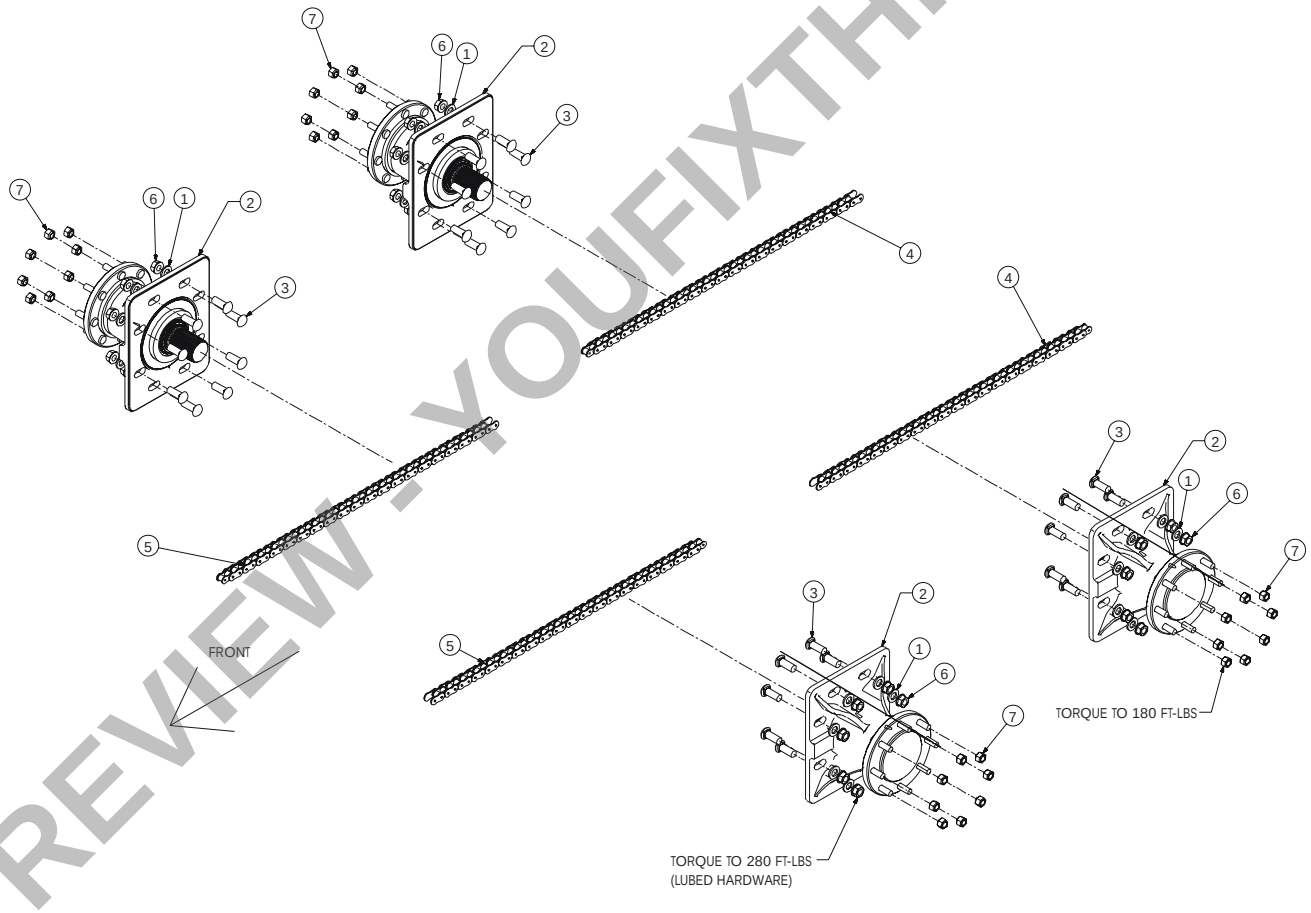
Introduction

This chapter covers removal, installation, assembly and adjustment procedures for wheel drive system components on 2056 model skid-steer loaders. Wheel drive components covered in this chapter are shown below.

2056 model skid-steer loaders are equipped with a hydrostatic pump assembly coupled to the diesel engine, providing hydrostatic power to the two fixed-displacement hydrostatic drive motors. The drive motors are directly connected to chaincases. Single-speed or two-speed, each motor drives one set of wheels on each side of the loader through a chain and sprocket system.

Service procedures related to the hydrostatic pump and drive motors can be found in the *Hydrostatic System* chapter.

Wheel Drive Components



1 WASHER/FLAT HARDENED
2 ASSY/AXLE
3 BOLT/CARRIAGE
4 CHAIN
5 CHAIN
6 NUT/SPIRALOCK
7 NUT/WHEEL
8 SPROCKET

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Engine Access Cover - Removal and Installation

WARNING

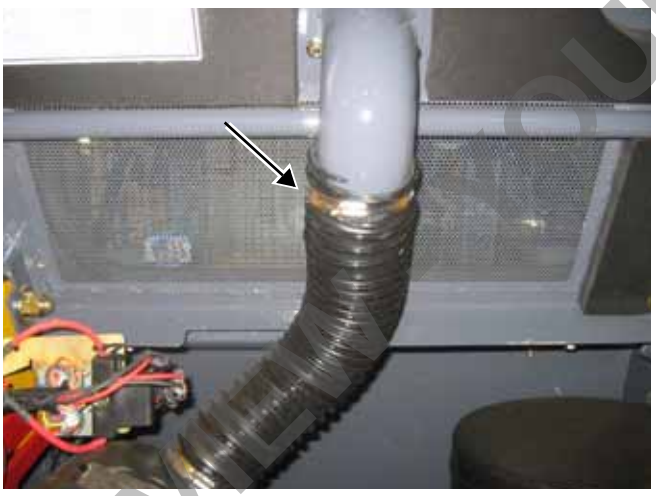
It is recommended that this service procedure be performed by a certified Mustang dealer mechanic. BEFORE beginning this service procedure, perform the following SAFETY procedure:

Shut off the engine.

(For detailed instructions, refer to the *Safety* chapter of this manual.)

Removal Procedure

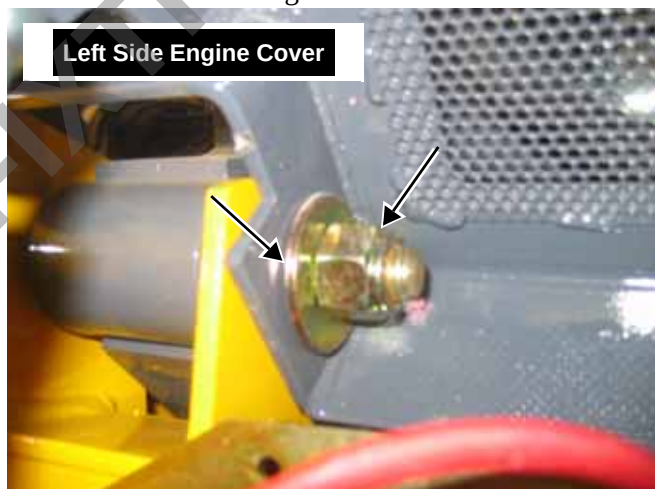
1. Open the engine access cover until the gas spring is completely extended.
2. Loosen the hose clamp on the flanged tube coming out of the engine cover and separate the hose from the tube.



3. Disconnect the gas spring from the engine access cover by removing the gas spring clip at the access cover end of the gas spring, and then pulling the gas spring off the ball stud on the access cover.



4. Remove two capscrews and all washers on the ROPS bolts securing the access cover to the frame.



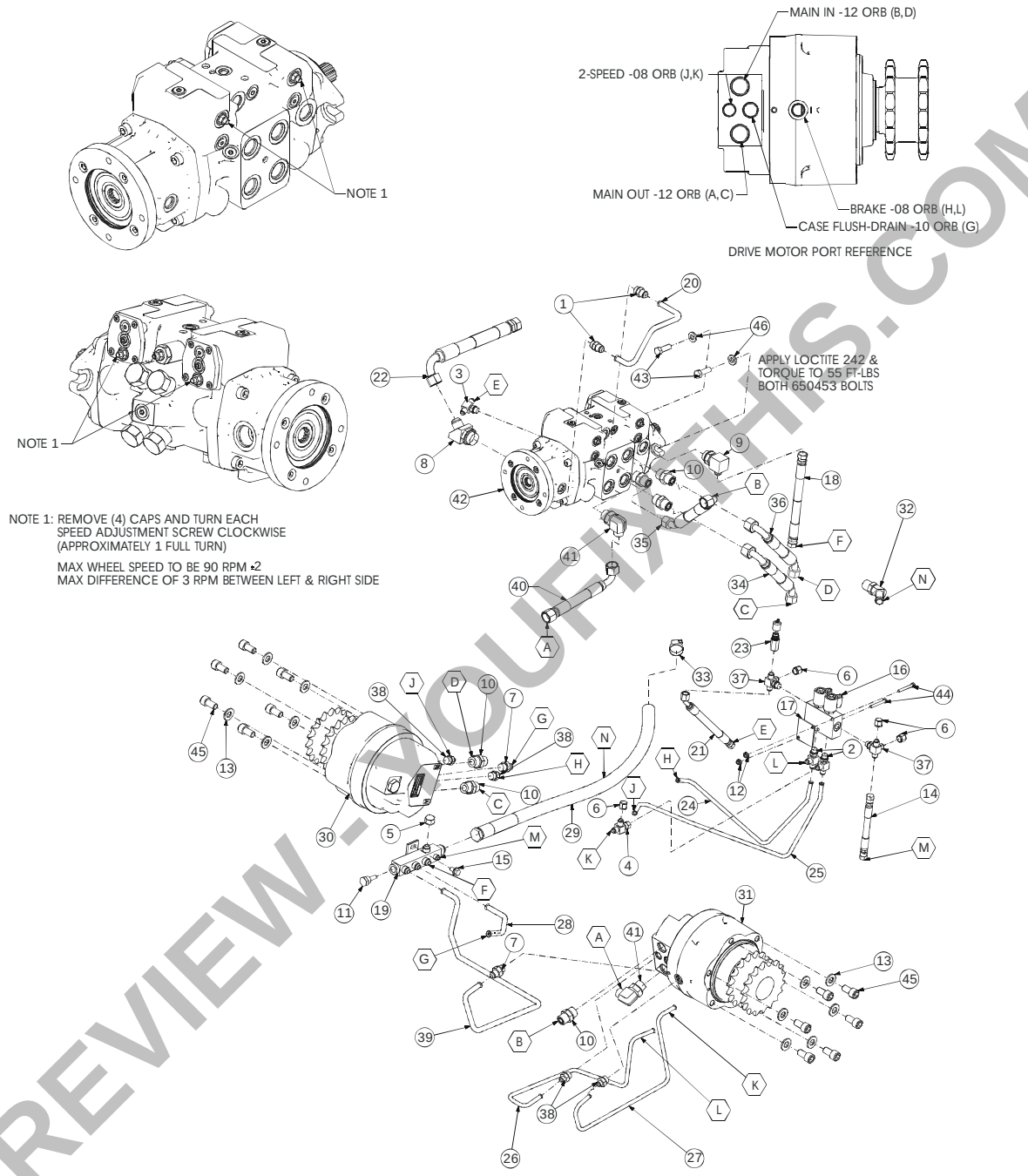
5. Turn both ROPS bolts out until flush with the welded tab; remove the engine cover.

Installation Procedure - Follow all warnings first, then reverse the removal steps.

PREVIEW ONLY - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Two-Speed Hydrostatic Components - Dual Joystick Controls



1	FITTING/STRAIGHT	13	WASHER/FLAT	25	TUBE/BRAKE	37	CROSS/TEE
2	FITTING/TEE	14	HOSE/PRESSURE	26	TUBE/MOTOR	38	FITTING/STRAIGHT
3	FITTING/TEE	15	SCREW/CAP	27	TUBE/BRAKE	39	TUBE/DRAIN
4	FITTING/TEE	16	MANIFOLD/VALVE	28	TUBE/DRAIN	40	HOSE/PRESSURE
5	CAP/37° FLARE	17	PLATE/SPACER	29	HOSE/MANIFOLD	41	FITTING/90°
6	CAP/37° FLARE	18	HOSE/PRESSURE	30	MOTOR/DRIVE RIGHT	42	PUMP/TANDEM
7	FITTING/STRAIGHT	19	MANIFOLD/RETURN	31	MOTOR/DRIVE LEFT	43	SCREW/CAP
8	FITTING/45°	20	TUBE/CHARGE	32	FITTING/45°	44	SCREW/CAP
9	FITTING/90°	21	HOSE/PRESSURE	33	CLAMP/HOSE	45	SCREW/CAP
10	FITTING/STRAIGHT	22	HOSE/PRESSURE	34	HOSE/PRESSURE	46	WASHER/FLAT
11	SWITCH/TEMP	23	PORT/TEST	35	HOSE/PRESSURE		
12	NUT/SPIRALOCK	24	TUBE/MOTOR	36	HOSE/PRESSURE		

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

SPECIFICATIONS

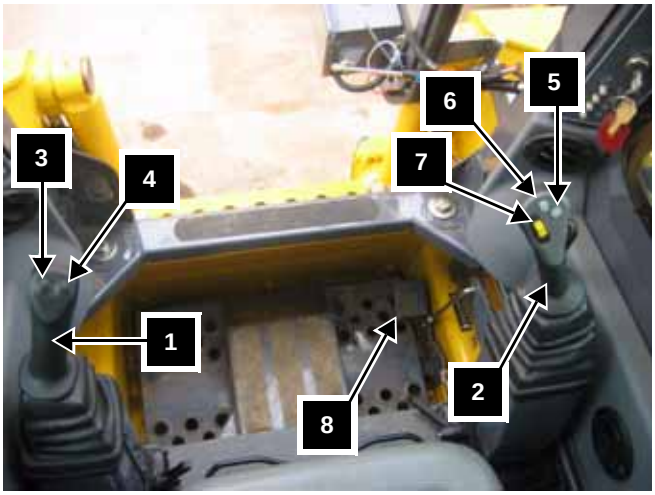
Model	**2056**
Make of Engine	Deutz
Engine Model	TD2009L04 Turbocharged
Fuel	Diesel
Displacement	140 CID (2,29 L)
Horsepower - Net	62 hp (47 kW)
Peak Torque	148 lbf-ft (200 N•m)
Operating Load - SAE*	1900 lbs (862 kg)
Operating Weight	6800 lbs (3084 kg)
Shipping Weight	6100 lbs (2767 kg)
Capacities	**Capacities**
Engine Oil	8.0 US qts (7,5 L), 8.5 US qts (8,0 L) w/ filter change
Fuel Tank	16.0 US gal (60,5 L)
Chaincase (each)	8.0 US qts (7,57 L)
Hydraulic Reservoir	15.0 US gal (56,8 L)
Engine Coolant	8.0 US qts (7,57 L)
Electrical	**Electrical**
Battery	12-V DC, Group 31, 950 CCA, 170 Reserve
Starter	12-V DC (2,0 kW)
Alternator	80 A
Hydraulic System	**Hydraulic System**
Hydraulic System Pressure	2750 PSI (190 bar): High-Flow 2650 PSI (183 bar)
Standard Auxiliary Flow Rate	19 gal/min (72 L/min)
High-Flow Auxiliary Flow Rate	29 gal/min (110 L/min)
Travel Speed - Single-Speed	0 to 8.4 mph (0 to 13,5 km/h)
Travel Speed - Two-Speed	0 to 12.5 mph (0 to 20 km/h)
Tire Options	**Tire Options Description**
10 X 16.5 Heavy Duty 8-Ply	Flotation Wide Sidewall
10 X 16.5 Heavy Duty 8-Ply	Flotation Wide Sidewall Foam-Filled
12 x 16.5 Heavy Duty 10-Ply	Flotation Wide Sidewall
12 x 16.5 Heavy Duty 10-Ply	Flotation Wide Sidewall Foam-Filled
33 x 15.50 x 16.5 12-Ply	Extra Wide / Wide Sidewall
31 x 15.50-15	Heavy Duty
10 x 16.5 10-Ply	H/E Severe Duty
10 x 16.5 10-Ply	H/E Severe Duty Foam-Filled
12 x 16.5 12-Ply	H/E Severe Duty
12 x 16.5 12-Ply	H/E Severe Duty Foam-Filled
10 x 16.5	Solid Flex
12 x 16.5	Solid Flex
8.00 x 16	Solid Rubber
Buckets and Capacities	
Width - inches (millimeters) - Description	**Capacity (Heaped)**
67 inches (1702 mm) - Dirt/Construction	10.8 cubic feet : 0,31 cubic meters
67 inches (1702 mm) - Dirt/Construction	14.7 cubic feet : 0,42 cubic meters
70 inches (1778 mm) - Dirt/Construction	15.3 cubic feet : 0,43 cubic meters
70 inches (1778 mm) - Dirt/Construction	19.0 cubic feet : 0,54 cubic meters
74 inches (1880 mm) - Dirt/Construction	20.4 cubic feet : 0,58 cubic meters
67 inches (1702 mm) - Utility/Snow	18.6 cubic feet : 0,53 cubic meters
74 inches (1880 mm) - Utility/Snow	32.5 cubic feet : 0,92 cubic meters
15.75-19.68-24 inches (400-500-610 mm) Pallet	NA

*Operating capacity rated with a 66" inch (1676 mm) 17.9 cubic foot dirt/construction bucket in accordance with SAE J818, SAEJ732 and ISO 14397-1.

PREVIEW - YOUFIXTHIS.COM

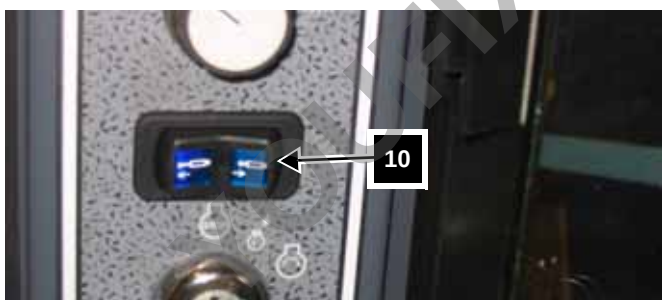
Download full manual at youfixthis.com

Control Locations - Dual Joysticks





1 - Drive Control
2 - Lift/Tilt Control
3 - Two-Speed Button Switch
4 - Horn Button Switch
5 - Hydraglide™ Control Switch
6 - Float Control Switch
7 - Auxiliary Hydraulics Switch
8 - Foot Throttle
9 - Hand Throttle Handle
10 - High-Flow Aux. Flow Control
11 - Aux. Hyd. Lock Button



Control Locations - Dual Hand



1 - Drive Control
2 - Lift/Tilt Control
3 - Two-Speed Button Switch
4 - Horn Button Switch
5 - Hydraglide™ Control Switch
6 - Float Control Switch
7 - Auxiliary Hydraulics
8 - Foot Throttle
9 - Hand Throttle Handle
10 - High-Flow Aux. Flow Control

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

TABLE OF CONTENTS

Specifications **Page**

SPECIFICATIONS 1

Safety **Page**

General Information 3
Signal Words 3
Additional Safety Reminders 3
Mandatory Safety Shutdown Procedure 4
Lift Arm Support Device 5
Lift Arm Support Device Engagement 5
Lift Arm Support Device Disengagement 6
ROPS – Raising 6
ROPS – Lowering 7
Relieving Hydraulic Pressure 8
Loader Raising Procedure 9
Loader Lowering Procedure 9

Lubrication System **Page**

General Information 11
Hydraulic Oil Reservoir 11
Crankcase Oil 12
Chaincases 13
Grease Fitting Locations 14
Cooling System Drain Procedure 14

Mainframe **Page**

Introduction 15
Mainframe (Chassis) Components 15
Rear Grille and Engine Cover Components 16
Engine Access Cover - Removal and Installation 17
Roll Over and Falling Object Protective Structure Components - ROPS/FOPS 18
ROPS Removal and Installation 19
Seat Removal and Installation 20
Seat Slide Replacement 20
Air Duct Removal and Installation 21
Air Duct Louver Replacement 21
ROPS Rear Window Removal and Installation 21
Restraint Bar Components 23
Multi-Tach™ Components 23
Power-A-Tach® Components 24
Restraint Bar Removal and Installation 25
Mustang Multi-Tach® or Power-A-Tach® Hitch Removal and Installation 25
Lift Arm Components 26
Lift Arm Removal and Installation 27

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

A

Additional Safety Reminders . . . 3
Air Cleaner and Exhaust Components . . . 188
Air Cleaner Assembly Removal and Installation . . . 191
Air Duct Louver Replacement . . . 21
Air Duct Removal and Installation . . . 21
Air Filter Element Removal and Installation . . . 192
Auxiliary Hydraulics Cable Adjustment - Dual Hand and Hand/Foot Controls . . . 86
Auxiliary Hydraulics Cable Removal and Installation - Dual Hand and Hand/Foot Controls . . . 83
Auxiliary Hydraulics Controls - Dual Hand Controls . . . 78
Auxiliary Hydraulics Controls - Hand/Foot Controls . . . 80
Auxiliary Hydraulics Spool Lock Solenoid Removal and Installation . . . 144
Auxiliary Neutral Start Switch . . . 177
Axle and Wheel Bearing Disassembly and Assembly . . . 46
Axle Assembly Components . . . 45
Axle Housing Assembly Removal and Installation . . . 43

B

Battery and Battery Tray Removal and Installation . . . 193

C

Chaincases . . . 13
Charge Pressure Test and Adjustment . . . 101
Chassis - Electrical Schematic . . . 179
Chassis Hydraulics . . . 121
Control Cover Components . . . 32
Control Handle Actuation Buttons - Two-Speed and Ride Control and Float Module . . . 168
Control Handle Assembly Removal and Installation - Dual Joystick Controls . . . 58
Control Handle Position Adjustment - Dual Hand and Hand/Foot Controls . . . 62
Control Handle Removal and Installation - Dual Hand and Hand/Foot Controls . . . 57
Control Handle Tracking Adjustment, Wheel Drive Controls - Dual Hand and Hand/Foot Controls . . . 63
Control Handle Tracking Adjustment, Wheel Drive Controls - Dual Joystick Controls . . . 64
Control Locations - Dual Hand . . . 50
Control Locations - Dual Joysticks . . . 50
Control Locations - Hand/Foot . . . 51
Control Valve Disassembly and Assembly . . . 142
Control Valve Removal and Installation . . . 139
Cooling System Drain Procedure . . . 14
Crankcase Oil . . . 12
Crossmember Removal and Installation . . . 35

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



General Information

The above safety alert symbol means: ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED! It stresses an attitude of "safety awareness" and can be found throughout this service manual and on 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.

These topics in the Safety chapter of the service manual include procedures, which, when followed, will allow safe performance of service procedures: Mandatory Safety Shutdown Procedure, Lift Arm 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. 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 45º to avoid spilling electrolyte.



PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

Lift Arm Bushing Replacement . . . 31
Lift Arm Stop Installation and Adjustment . . . 31
Control Cover Components . . . 32
Floor Cover/Control Cover Removal and Installation . . . 33
Crossmember Removal and Installation . . . 35
Fuel Sensor Removal and Installation . . . 38
Rear Grille Removal and Installation . . . 39
Rear Grille Latch Removal and Installation . . . 39

Wheel Drives

Page
Introduction . . . 41
Wheel Drive Components . . . 41
Drive Chain Adjustment . . . 42
Axle Housing Assembly Removal and Installation . . . 43
Drive Chain Removal and Installation . . . 44
Axle Assembly Components . . . 45
Axle and Wheel Bearing Disassembly and Assembly . . . 46

Controls

Page
Introduction . . . 49
Control Locations - Dual Joysticks . . . 50
Control Locations - Dual Hand . . . 50
Control Locations - Hand/Foot . . . 51
Wheel Drive Components - Dual Joystick Controls . . . 52
Wheel Drive Components - Dual Hand and Hand/Foot Controls . . . 53
Lift and Tilt Components - Dual Hand Controls . . . 54
Lift and Tilt Components - Dual Joystick Controls . . . 55
Lift and Tilt Components - Hand/Foot Controls . . . 56
Control Handle Removal and Installation - Dual Hand and Hand/Foot Controls . . . 57
Control Handle Assembly Removal and Installation - Dual Joystick Controls . . . 58
Electrical Auxiliary Grip Removal and Installation - Dual Joystick Controls . . . 60
Control Handle Position Adjustment - Dual Hand and Hand/Foot Controls . . . 62
Control Handle Tracking Adjustment, Wheel Drive Controls - Dual Hand and Hand/Foot Controls . . . 63
Control Handle Tracking Adjustment, Wheel Drive Controls - Dual Joystick Controls . . . 64
Hand/Foot and Dual Hand Control Handle Assembly . . . 65
Dual Joystick Assembly . . . 67
Pivot Tube Removal and Installation - Dual Hand and Hand/Foot Controls . . . 69
Neutral Centering Device Adjustment - Dual Hand and Hand/Foot Controls . . . 70
Neutral Centering Adjustment - Dual Joystick Controls . . . 71
Pump Control Arm Assembly Removal and Installation . . . 72
Lift/Tilt Controls Removal and Installation . . . 73
Lift/Tilt Control Adjustment . . . 76
Auxiliary Hydraulics Controls - Dual Hand Controls . . . 78
High-Flow Auxiliary Hydraulics Controls - Dual Hand Controls . . . 79
Auxiliary Hydraulics Controls - Hand/Foot Controls . . . 80
High-Flow Auxiliary Hydraulics Controls - Hand/Foot Controls . . . 81
Standard and High-Flow Auxiliary Hydraulics Controls - Dual Joystick Controls . . . 82
Auxiliary Hydraulics Cable Removal and Installation - Dual Hand and Hand/Foot Controls . . . 83
Auxiliary Hydraulics Cable Adjustment - Dual Hand and Hand/Foot Controls . . . 86

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 12 of 221 pages

The full manual includes:

- All 221 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Mustang 2056 Service Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual