SPECIFICATIONS

GENERAL

	82.5"
Height	69"
Width	113"
Length	16"
Ground Clearance	7,500 lbs.
Weight (Without Loader)	8,500 lbs.
Weight (With Loader)	6 mph
Top Speed	2.65 psi (Without Loader)
Ground Pressure w/Zero Track Penetration	2826 sq. in.
Square Inches of Track on the Ground	

ENGINE

	John Deere Power Tech 4045 & 4045T
Model	Diesel, liquid Cooled, In-Line 4 Cylinder
Type	4.5 liter (276 cid)
Displacement	80 hp at 2,500 rpm
Horsepower , 4500	115 hp at 2,500 rpm
Horsepower , 4520	215 ft.-lb.
Peak Torque, 4500	291 ft.-lb.
Peak Torque, 4520	

TRACK SPECIFICATIONS

	18"
Width	220"
Length	265 lbs.
Weight	2

TRACK CONSTRUCTION

Molded Rubber with Kevlar™ reinforcement, no steel in track, 2 rows of internal drive lugs.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

GENERAL OPERATION

OPERATING INSTRUCTIONS

Enter the vehicle when the loader is all the way down. Never enter the vehicle by going under a raised loader. (Fig. 5)



Fig. 5

> !WARNING!
> Entering or exiting the vehicle under a raised loader could cause serious injury or death. Never put yourself underneath a raised, unsecured, loader. (Fig. 6)


Fig. 6

Adjust the seat forward or back so both feet reach the footrest and both hands reach the controls.
Check to make sure all auxiliary levers are in

> NOTE
> It is recommended that your elbows reach the arm rests on the seat. This will allow for steadier control over rough terrain and will also lessen fatigue.

the neutral position and that the throttle is in the idle position.

Fasten seat belt, and adjust so it fits snugly around your waist. (Fig. 7)


Fig. 7

> !WARNING!
> Failure to wear the seat belt could lead to serious injury or death.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

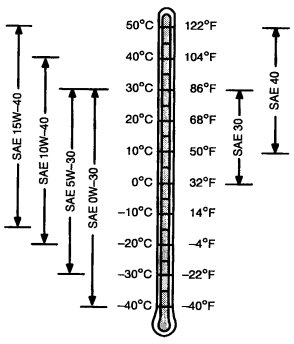
MAINTENANCE SCHEDULE

ITEM	FREQUENCY	LUBRICANT
Hydraulic fluid	500 hours	Amoco Rykon MV
Hydraulic filters	250 hours or as needed	
Engine oil and filter	250 hours (after 100 hr. break-in)	Refer to page 31
Engine fuel filter	600 hours or as needed	
Engine air filter	As needed	
Planetary oil	1,000 hours or annually (After 50 hr. break-in)	SAE 80w-90 gear lube
Drive shaft	250 hours	Low temp grease
Loader grease fittings	25 hours, or as needed	Low temp grease
Wheel tubes	Check level at 1,000 hours	SAE 80w-90 gear lube
Track tension	As needed	

SERVICE ITEMS

FLUID	CAPACITY	TYPE
Fuel	25 gallons	Diesel
Hydraulic oil	28 gallons	Amoco Rykon MV
Planetary oil	1 quart	SAE 80w-90 gear lube
Wheel tube oil	12 ounces	SAE 80w-90 gear lube
Engine coolant	5.5 gallons	John Deere approved
Engine oil	14 quarts	See chart below

Engine oil viscosity chart.



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

TROUBLE SHOOTING (GENERAL)

PROBLEM	CAUSE	REMEDY
Vehicle won't turn over	1. Battery cables loose or corroded.	1. Tighten or clean cables
	2. Drive levers or auxiliary levers are not in neutral	2. Put levers in neutral
Vehicle turns over but will not start	1. Out of fuel or fuel pick-up may not be in fuel if parked on a hill	1. Add more fuel and bleed fuel system
	2. Pinched fuel line	2. Find and correct
	3. Load on engine from High or Low flow auxiliary lever being engaged	3. Put lever in neutral
	4. Fuel solenoid is not opening	4. Refer to electrical trouble shooting guide
	5. Plugged fuel filter	5. Change filter
	6. Cold weather – need starting aid.	6. Refer to John Deere Engine manual
Vehicle starts but engine runs rough	1. Low-flow auxiliary hydraulic lever is engaged	1. Put lever in neutral
	2. High-flow auxiliary hydraulic lever is engaged	2. Put lever in neutral
Vehicle starts but tracks won't go	1. Operator not seated in seat	1. Sit down & fasten seat belt.
	2. Defective seat switch	2. Refer to electrical trouble shooting guide
	3. Defective solenoid	3. Refer to electrical trouble shooting guide
	4. Low charge pressure	4. Refer to page 49
Under heavy load or in loose material vehicle won't turn	1. Tracks have lost traction	1. Reduce load or put more power to the inside track
	2. Oil going to drive motor is going over the relief valve	2. Reduce load. Increase power to inside track

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

SERVICE ITEMS

DESCRIPTION	MANUFACTURER NUMBER	ASV PART NO.
HD Engine Oil Filter	John Deere RE59754	0160-001
HD Engine Fuel Filter	John Deere RE62418	0160-002
Charge Pressure Filter	Fairey Arlon 402228	0303-078
Aux. Hydraulic Filter	Fairey Arlon FA35-CC10	0302-853
Hi-Flo Hyd. Filter (5 1/2)	Fairey Arlon FA57-CC10	0303-069
Primary Air Filter	Donaldson P18-2059	0109-004
Secondary Air Filter	Donaldson P11-9410	0307-406
Engine Oil (1 qt.)	Multi-Grade 10W-30	0300-767
Hydraulic Oil (5 gal.)	AMOCO Rycon MV	0400-253
Grease (1 tube)	Phillips Poly-Tach	0300-769
Fan Belt (Serpentine)	John Deere R123432	0160-004
Antifreeze (2 1/2 gal.)	John Deere TY16036	0307-744

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

CHASSIS ASSEMBLY

REF. NO.	PART NUMBER	QTY	DESCRIPTION
1	0307-017	1	WLMT,CHASSIS,MD4500 & MD4500T
2	0307-252	1	COVER,RESERVOIR,FORMED
3	0302-492	1	SEAL,OIL,RESERVOIR
4	8051-242	14	WASHER,SPRING LOCK,5/16,ZN
5	8013-130	14	CAPSCREW,HH,NYLOCK,5/16-24x.75
6	0302-609	1	PAD,SKID (MASKED ADHESIVE BACK
7	0302-133	1	CAP,FILLER
8	0302-135	1	STRAINER,FILLER
9	0302-253	1	PLUG,PIPE,1" NPT
10	0307-704	1	TRIM,EDGE,RUBBER
11	0400-588	2	WLMT,PIN,MTG,ATTACHMENT
12	8051-332	12	WASHER,SPRING LOCK,1/2,ZN
13	0307-297	1	PLATE,SKID
14	8002-404	8	CAPSCREW,HH,1/2-13 UNCx1.25,GD
15	8050-342	6	WASHER,WROUGHT,1/2,SAE,ZN
16	0307-277	2	FLAP,MUD
17	0307-421	2	STRAP,FLAP,MUD
18	8040-486	14	NUT,HEX,NYLOCK,3/8-16 UNC,ZN
19	8002-229	6	CAPSCREW,HH,3/8-16 UNCx2.5,GD5
20	8050-272	14	WASHER,WROUGHT,3/8 x.744,ZN
21	8002-224	6	CAPSCREW,HH,3/8-16 UNCx1.25,GD
22	0307-225	1	WLMT,MTG,HOOD/AIR CLEANER
23	0307-229	1	WLMT,MTG,HOOD,LH
24	0307-318	1	WLMT,CRADLE,TANK
25	0307-419	2	PANEL,ACCESS,TANK
26	0301-809	4	SCREW,MACH,#10 x 3/4,PH,EXT
27	8004-132	12	CAPSCREW,HH,5/16-24 UNFx1.0,GD
28	8002-222	10	CAPSCREW,HH,3/8-16 UNCx1.0,GD5
29	8050-262	12	WASHER,WROUGHT,5/16,STD,ZN
30	8040-426	4	NUT,HEX,NYLOCK,5/16-18 UNC,ZN
31	0302-489	4	WLMT,MTG,COVER,CABLE
32	0307-510	1	WLMT,GUARD,HOSE,RIGHT
33	0307-511	1	WLMT,GUARD,HOSE,LEFT
34	0307-481	1	WLMT,GUIDE,CABLE
35	8051-272	8	WASHER,SPRING LOCK,3/8,ZN
36	0307-585	1	GUARD,DRIVESHAFT,TOP
37	0307-586	1	GUARD,DRIVESHAFT,BOTTOM
38	8002-405	2	CAPSCREW,HH,1/2-13 UNCx1.5,GD5
39	8040-606	2	NUT,HEX,NYLOCK,1/2-13 UNC,ZN
40	0307-576	1	WLMT,GUARD,HOSE
41	0307-372	2	GUARD,ENGINE,RH
42	0307-727	1	COVER,ACCESS,DRIVE SHAFT
43	0307-709	1	EDGING,GUARD,HOSE
44	8050-277	6	WASHER,WROUGHT,3/8,SAE,ZN
45	0307-588	1	HOOD,ENGINE,HD4500
46	0307-670	1	SEAL, HOOD, HD
47	0302-042	4	LATCH,RUBBER T-HANDLE
48	0300-522	8	SCREW,MACHINE,PHL,PAN,#10-32x1
49	8040-276	8	NUT,HEX,NYLOCK,10-32 UNF,ZN
50	8060-648	8	RIVET,BLIND,3/16 x .575
51	0302-965	8	WASHER,RIVET,#7
52	0307-405	2	DECAL,POSI-TRACK,HD
53	0307-326	1	MAT,FLOOR,HD4500
54	0307-665	1	WLMT,STOP,LOADER,HD

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Download full manual at youfixthis.com

TRANSMISSION

AUX
PUMPS

DRIVE MOTOR

DRIVE MOTOR

BRAKE CYL

PTO MOTOR

FILTER

COOLER

DIRECTIONAL
VALVE

FILTER

DIRECTIONAL VALVE
(LOADER VALVE)

HYDRAULIC SCHEMATIC HD4500

PREVIEW - YOUFIXTHIS.COM

HD4500 SERIES (REV JAN 99) (HD#729)

Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.COM

AUXILIARY CONSOLE

RESERVOIR

MAIN CONSOLE

JOHN DEERE 4045 ENGINE

BATTERY TOWER

TABLE OF CONTENTS

WARRANTY....2
WARRANTY LIMITATIONS....3
FOREWORD....5
SECTION 1 - SPECIFICATIONS
GENERAL....6
ENGINE....6
TRACKS....6
FINAL DRIVE....7
CAPACITIES....7
LOADER ASSEMBLY....8
ELECTRICAL....8
SECTION 2 – GENERAL SAFETY....9,10
SECTION 3 – GENERAL OPERATION
DRIVE CONTROL CONSOLE DEFINITIONS....11
HYDRAULIC CONTROL CONSOLE DEFINITIONS....12,13
OPERATING INSTRUCTIONS....14,15
HYDROSTATIC DRIVE....16
LOADER VALVE CONTROL....17
LOADER LOCK OUTS....17,18
OPTIONAL FOOT VALVE....18,19
QUICK ATTACH MOUNT....20
FRAME UP....21,22
OPERATING CAPACITY....23
MOVING DIRT....24
BI-DIRECTIONAL OPERATION....25
SIDE HILLING....26
PRE START CHECK LIST....27
STARTING INSTRUCTIONS....27
SHUTTING ENGINE OFF....27
SECTION 4 – GENERAL MAINTENANCE
BREAK IN PROCEDURES....28,29
MAINTENANCE SCHEDULE....30
GREASE POINTS....31,32
ENGINE OIL AND FILTER CHANGE....33
HYDRAULIC OIL AND FILTER CHANGE....34
BLEEDING THE FUEL SYSTEM....35
TRACK TENSION....36
PLANETARY OIL CHANGE....37,38
RADIATOR AND OIL COOLER....39
AIR CLEANER....40
CHANGING FUEL FILTER....41
SECTION 5 – SERVICE
TRACK REMOVAL....42,43
TRACK INSTALLATION....44,45
BOGIE CARRIAGE REMOVAL....46
WHEEL TUBE REMOVAL....46
WHEEL REPLACEMENT....47
END TUBE REMOVAL....47
SPROCKET REMOVAL....48
CHECKING PRESSURES....49,50
SECTION 6 - TROUBLE SHOOTING
GENERAL....51-54
ELECTRICAL....55-60
SERVICE LOG....61,62
NOTES....63-65

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

WARRANTY LIMITATIONS

GROSS VEHICLE WEIGHT

The GVW (Gross Vehicle Weight) of the POSI-TRACK HD should not exceed 12,000 lbs. This weight includes any accessories, attachments, or material being carried. Exceeding the 12,000 lb. GVW will void the WARRANTY.

MODIFICATIONS

The limited WARRANTY covers the POSI-TRACK and its accessories as built by ASV, INC. Any modifications made to the vehicle can affect the WARRANTY. Before any modifications are made, have your dealer contact ASV, INC. for written approval. Modifications include, but are not limited to: additional hydraulic plumbing, alternative attachment mounting, welding to the frame or roll cage, welding to the undercarriage, track modification, etc.

ATTACHMENTS

Attachment use can also affect the WARRANTY. The attachment should be sized correctly for the vehicle's operating capacity and hydraulic system. An attachment that cannot accept the machines hydraulic flow and pressure can create extreme heat and cause failures to the vehicle's hydraulic system. An attachment which is oversized for the vehicle's carrying capacity, can cause premature failure to the vehicle's mounting system, frame, undercarriage, axles, bearings, etc. When determining the weight of the attachment the following items must be considered: the distance the mounted attachment is extended from the vehicle and the weight of the attachment's load. Refer to page 23 for operating capacity limits.

LOW FLOW HYDRAULIC CIRCUIT
BI-DIRECTIONAL FLOW 2,750 PSI

Engine RPM	*Gallons Per Minute*
2500	19.26 g.p.m.
2300	17.72 g.p.m.
2100	16.18 g.p.m.
1900	14.64 g.p.m.
1700	13.10 g.p.m.

HIGH FLOW HYDRAULIC CIRCUIT
***PRESSURE SIDE* 2,750 PSI**

Engine RPM	*Gallons Per Minute*
2500	30.84 g.p.m.
2300	28.38 g.p.m.
2100	25.91 g.p.m.
1900	23.44 g.p.m.
1700	20.97 g.p.m.

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

8. Jack the planetary mount back until the track is straight (Fig. 79) between the drive sprocket and the carrier wheels. (DO NOT OVER TIGHTEN).

9. Line up the set of holes in the sliding motor mount and the undercarriage frame. Insert track adjustment bolts and tighten. (bolts should be in same hole location.) (Fig. 80)

10. Tighten bolts in slots on both sides of the undercarriage.

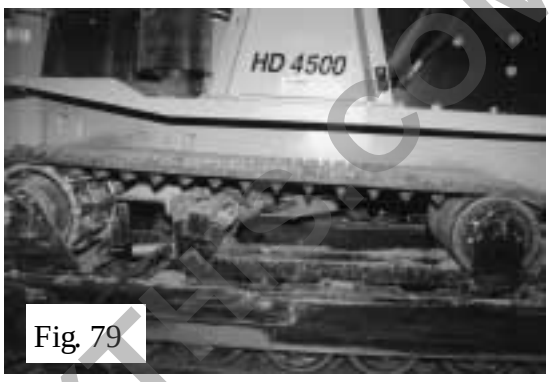


Fig. 79


Fig. 80

CAUTION
It is critical that the drive sprocket is aligned with the undercarriage frame. The tension adjustment bolts must be in the same hole location or track derailment will occur.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

HYDRAULICS: NEUTRAL LOCK & CHARGE RELIEF

REF. NO.	PART NUMBER	QTY	DESCRIPTION
1	0300-500	4	ADPT,ADJ,90^L,37^FL TO 9/16-18
2	0307-442	1	HOSE,PRES,3000 PSI,1-3 SERVO,2
3	0301-990	1	ADAPTER,TEE,O-RING TO FLARE
4	0307-444	1	HOSE,PRES,3000 PSI,3-2 SERVO,2
5	0300-286	4	ADAPTER,O-RING TO FLARE (6-6)
6	0302-879	1	ADAPTER,8MJ-12MB (8-12)
7	0307-443	2	HOSE,PRES,3000 PSI,2-4 SERVO,1
8	8002-053	2	CAPSCREW,HH,1/4-20UNCx3.5,GD5,
9	0302-877	1	WLMT,BRKT,RELIEF
10	0307-162	1	VALVE,SPOOL,4-WAY,2-POS,SOLENO
11	0300-266	1	VALVE,RELIEF,LOOP
12	0301-692	1	LINE BODY,LB1-0223A,1/2 SAE
13	0300-288	1	ADAPTER,O-RING TO FLARE (8-8)
14	8050-222	2	WASHER,WROUGHT,1/4,STD,ZN
15	8040-366	2	NUT,HEX,NYLOCK,1/4-20 UNC,ZN
16	0302-718	1	HOSE,MED PRESS,1 WIRE,16"
17	0300-301	1	ADAPTER,O-RING TO FLARE 90^
18	0307-550	1	HOSE,PRESSURE,3000PSI,TRANS/RE
19	0301-836	1	ADAPTER,REDUCER,10MB-8FB
20	0307-283	1	TUBE,HYD,DUMP,CHARGE
21	0307-355	2	ADAPTER,BULKHEAD,8MJ-8MJBKHD
22	0307-534	2	WASHER,TUBE,HYD,#8
23	0307-353	2	O-RING,SEAL,TUBE,8OR
24	0307-552	1	HOSE,PRES,3000PSI,RETURN,CHARG
25	0307-551	1	HOSE,PRES,3000PSI,OUT,CHARGE,1
26	0300-291	1	ADAPTER,O-RING TO FLARE (10-8)
27	0307-402	1	BRKT,MTG,SWITCH,TEMP
28	0303-101	1	SWITCH,TEMP,OIL,200 DEG F
29	8040-456	1	NUT,HEX,NYLOCK,5/16-24 UNF,ZN
30	8050-222	1	WASHER,WROUGHT,1/4,STD,ZN
31	8003-131	1	CAPSCREW,HH,5/16-24 UNFx.88,GD

REF. NO.	PART NUMBER	QTY	DESCRIPTION

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 12 of 134 pages

The full manual includes:

- All 134 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

ASV HD 4500, HD 4520 Operator Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual