



CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

Galion

Service Manual

A606 Motor Grader

Chassis Only

Volume 1 of 2

JENSALES.COM

or Call 800-443-0625

JENSALES

CLICK ANYWHERE FOR MORE DETAILS

THIS IS A MANUAL PRODUCED BY JENSALES INC. WITHOUT THE AUTHORIZATION OF
GALION OR IT'S SUCCESSORS. GALION AND IT'S SUCCESSORS
ARE NOT RESPONSIBLE FOR THE QUALITY OR ACCURACY OF THIS MANUAL.

TRADE MARKS AND TRADE NAMES CONTAINED AND USED HEREIN ARE THOSE OF OTHERS,
AND ARE USED HERE IN A DESCRIPTIVE SENSE TO REFER TO THE PRODUCTS OF OTHERS.

Service Manual

GA-S-A606

Shop Manual Set SMG-A606

Covers Model A-606

S/N All Serial Numbers

CLICK ANYWHERE FOR MORE DETAILS

Contains the sections listed below:

1	A-01.30	ARTICULATION JOINT ASSEMBLY (G)
2	A-01.40	ARTICULATION JOINT ASSEMBLY (G)
3	A-10.10	CHAR-LYNN ORBITROL UNIT (G-R-P-C)
4	B-01.10	THROTTLE ADJUSTMENT (G)
5	C-09.30	TRANSMISSION (CLARK MODEL 13 HR-28482) (G)
6	E-01.10	ALL WHEEL DRIVE PUMP (REXROTH) (G)
7	E-02.50	HYDRAULIC SYSTEM COMPONENTS (CESSNA) (G)
8	E-03.40	HYDRAULIC CYLINDERS (G)
9	E-03.50	CIRCLE REVERSE MOTOR (G)
10	E-12.90	HYDRAULIC MOTOR (VICKERS) (DRUM DRIVE & ALL WHEEL DRIVE) (R-G)
11	E-17.10	HYDRAULIC TROUBLESHOOTING (CESSNA) (G)
12	E-30.00	HYDRAULIC OIL SWIVEL BLOCK (2-WAY & 4-WAY) (G)
13	E-32.90	ALL WHEEL DRIVE (AWD) H.I.C. VALVE (G)
14	F-01.10	CIRCLE REVERSE GEAR CASE (G)
15	G-01.13	GEARBOX ASSEMBLY (AWD) (G)
16	G-01.14	FRONT AXLE ASSEMBLY (G)
17	G-09.00	FINAL DRIVE ASSEMBLY (JOHN DEER) (G)
18	G-09.10	FINAL DRIVE ASSEMBLY (ZF) WITH PLANETARY AND NON-PLANETARY REDUCTION (G)
19	H-03.00	CIRCLE ADJUSTMENT (FOUR SHOE) (G)
20	H-04.00	MOLDBOARD BUSHING REPLACEMENT (G)
21	J-02.00	LUBRICATION SPECIFICATIONS (G-R-P-C-M)
22	K-01.10	REBUILD & ADJUSTMENT OF SELF-ADJUSTING BRAKES (G-P)
23	K-07.10	MINNESOTA AUTOMOTIVE POWER BRAKE (MICO) (G)
24	K-11.00	DUAL RESERVOIR BRAKE CYLINDER AND BOOSTER (G)
25	L-01.10	WIRING DIAGRAMS (G)
26	L-10.00	TROUBLESHOOTING & REMOVAL OF CRANKING MOTORS (M-P-G-R-C)
27	L-11.00	TROUBLESHOOTING & REMOVAL OF ALTERNATORS (M-G-P-R-C)
28	N-01.70	PRE-DELIVERY PROCEDURES (G) (NOT INCLUDED - LISTED FOR REFERENCE ONLY)
29	W-01.20	PERSONNEL HEATER (40000-BTU) (G)
30	Y-01.00	GENERAL TORQUE VALUES (G-R-P-C-M)

JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

MATERIAL LIFT ☐
GRADER ☒
PLANER ☐
ROLLER ☐
CRANE ☐

TECHNICAL SERVICES

SHOP MANUAL

A-1.30

R1

ARTICULATION JOINT ASSEMBLY

APPLICABLE MODEL/S

A500
A550
A600
A556
A606
A450E
A500E

SERIAL NUMBER/S

09269 thru 10604
09251 thru 10604
02850 thru 10604
09725 thru 10604
09725 thru 10604
10477 thru 10604
10477 thru 10604

CAUTION

ALL

COMPONENTS MUST BE PROPERLY SUPPORTED DURING DISASSEMBLY AND REASSEMBLY.

ALL

JACKING, HOISTING AND GENERAL WORKSHOP EQUIPMENT REQUIRED FOR THIS OPERATION MUST BE IN GOOD WORKING ORDER.

EXTREME

CAUTION TO BE OBSERVED AT ALL TIMES TO PREVENT INJURY.

SAFE

WORKSHOP PRACTICES ARE A MUST.

CONTENTS

PAGE

Introduction	1
Removal/Disassembly	1
Cleaning	6
Inspection	7
Reassembly/Installation	8

Remove hoodtop with four hooks, straps and overhead hoist. Place out of work area way.



Figure 3

Remove two capscrews, lock washers and plain washers (1, Figure 4) from the underside and same on inside (2) from front shell weldment on each side.

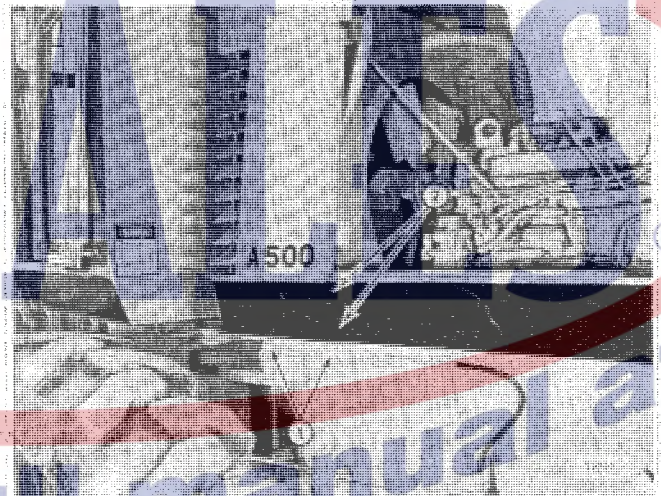


Figure 4

Install a suitable lifting eye in top/center shell and with strap and overhead hoist, remove shell. Place out of work area way.

NOTE: Radiator overflow tube on R.H. side of machine should not be damaged when removing shell.

Rubber radiator strips should not be damaged either. Pay particular attention to these two areas.



Figure 5

Remove two cotter and roll pins (1, Figure 6) at transmission forward/reverse and shift cable ends. Loosen jam nuts (2) on cable anchor bracket, remove cables from bracket and place out of way.

Match mark and unplug three wiring harnesses (3) and place out of the way.



Figure 6

Remove two hex nuts, lock washers, plain washers and U-bolt from cable anchor bracket (1, Figure 7).

Remove capscrew, lock washer, plain washer (2) and cable end from fuel pump lever arm (3).

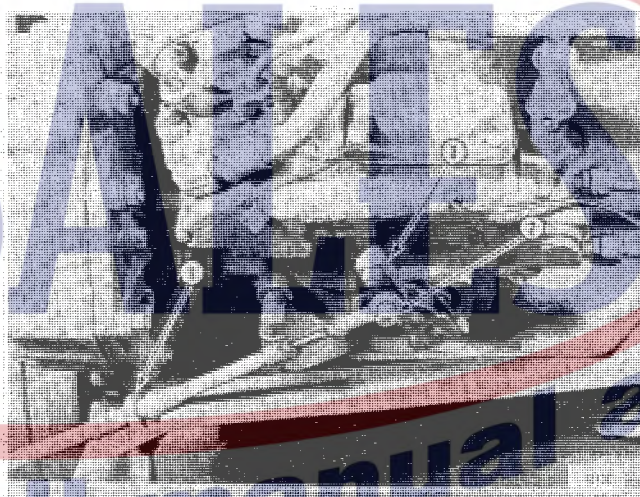


Figure 7

Remove three capscrews, lock washers (1, Figure 8) and lower rear grille (2).



Figure 8

CLICK ANYWHERE FOR MORE DETAILS

Remove square head pipe plug (1, Figure 9) and drain hydraulic oil in tank.



Figure 9

Remove two hex nuts, lock washers and U-bolt (1, Figure 10) from parking brake cable anchor. Remove cotter and roll pin (2) from cable end.

NOTE: *This applies only to units with the parking brake on the backside of the transmission.*

More recent machines will have the parking brake attached to the rear axle.

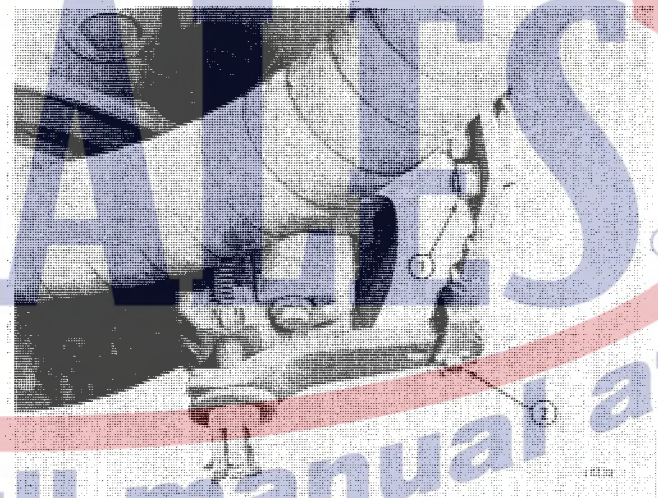


Figure 10

Remove two capscrews, lock washers and articulation indicator control rod end (3).



Figure 11

or Call 800-443-1062x5

CLICK ANYWHERE FOR MORE DETAILS