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MANUAL PREVIEW

Galion Operator's Manual

T-500
Grader

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Operator's Manual

GA-O-T-500 GDR

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GALION "T" SERIES MOTOR GRADER MODELS WITH GRADE-O-MATIC DRIVE

The GALION "T" Series of Motor Grader Models offer new power; new efficiency and new and greater capacity for more work in less time.

The "T" Series Galion Graders are BIG; they are NEW; they are MODERN and use Torque Converter Drive and Constant-Mesh Power-Shift Transmission.

The GALION "T" Series is BIG in everything except the effort put forth by the operator which is at a new all-time low of finger-tip ease.

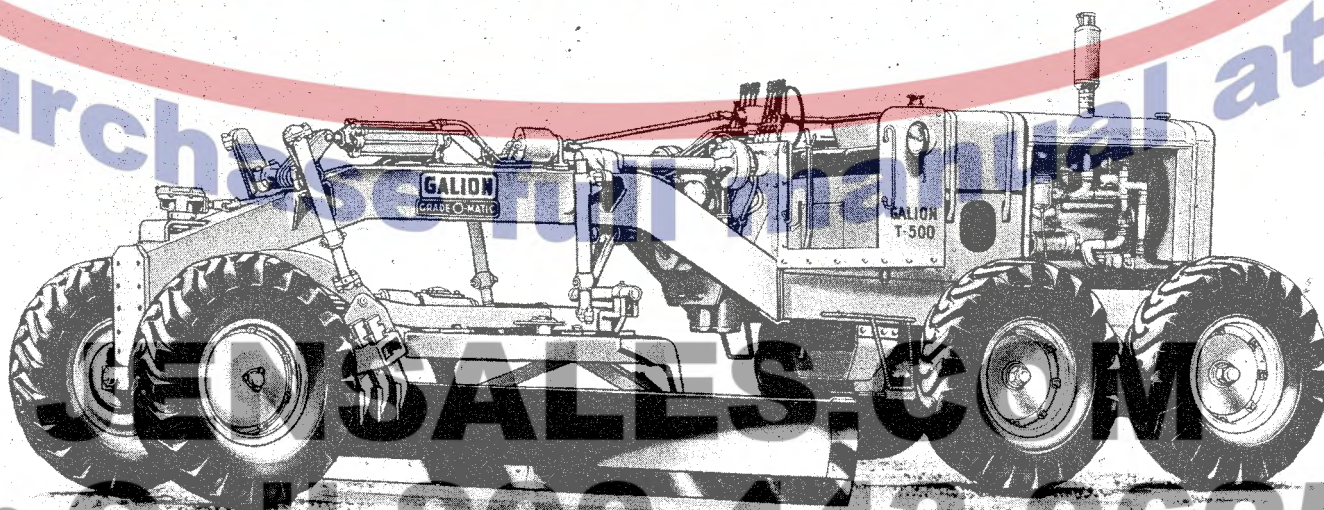
The grader functions and adjustments and control of grader attachments are subject to finger-tip operation of hydraulic control valves in manifold on dash of operator's platform. Throttle, selector for high or low range, forward or reverse and for selection

of speed (gear ratio) are by finger-tip operated levers at right of hydraulic manifold on dash.

Steering is also a finger-tip operation, the hydraulic booster cylinder takes all the work out of steering no matter how soft the ground or how deep the mud.

Operator's platform has been cleared of all except three controls. Engine clutch pedal, gear shift and over-drive or creeper shift are but memories of the past. Service brake pedal, parking brake lever and decelerator are retained.

Gauges, instruments, switches and engine controls are on instrument panel at right of manifold or on heel plate below operator's seat.



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DAILY SERVICE BY ENGINE OPERATOR

Before, During & After Operation

Part of the daily service by engine operator should be to keep a record or tally of the hours engine was operated and how many gallons of fuel were consumed.

Each working day engine operator should check and/or perform all the items listed in SERVICE BEFORE STARTING section.

By consulting record mentioned in first paragraph operator can determine if time interval for any specific service will be ended today.

If this is the day for a filter element or a crankcase oil change, arrange to have the element or oil available so that change can be made today.

Inspect gauges and instruments regularly

during the days work. Listen for any strange sounds while engine is operating that may be a warning of need of some maintenance.

Do not shut-down an engine immediately after a period of operation under full load.

LET ENGINE IDLE A FEW MINUTES BEFORE SHUTTING IT DOWN.

If freezing temperatures can be expected, drain cooling system immediately after operation unless protected with antifreeze.

Drain any accumulation of water and sediment in fuel filter case.

Fill fuel tank after each working period to prevent condensation of moisture in fuel system.



GRADER FRAME FRONT END CONSTRUCTION

CIRCLE & DRAWBAR ASSEMBLIES

CIRCLE ASSEMBLY - The Galion Motor Grader circle assembly is formed and machined from heavy steel angle.

Circle reverse teeth (internal gear) are cut in circle.

Circle is supported on drawbar by three circle shoes. Shoes are assembled with shims to permit adjustment.

Refer to Maintenance Section of this Manual for instructions on making Radial & Vertical adjustments of circle.

Clean circle regularly. Lubricate using heavy oil or light grease at contact points: circle to drawbar and shoes, circle reverse pinion to circle teeth. This should be a daily service.

Circle knees, knee bracing, Hydra-Tilt cylinder supports, ball studs, etc., are all welded to circle for rigidity and correct alignment.

DRAWBAR ASSEMBLY - Galion Motor Grader drawbar is an all welded assembly of square section steel members, gussets, shoe supports, etc.

Design, choice of materials and method of manufacture combine to give an assembly of maximum rigidity and minimum bulk. Less bulk permits maximum range of adjustment for blade positions and improved visibility of work.

Draft connection is a large ball and socket with grease fittings at right and left hand sides. Draft ball socket cap is assembled with shims to permit adjustment.

Ball studs are welded to drawbar assembly for right and left hand moldboard hang rods and for side shift drag link.

Circle reverse case and hydraulic motor are mounted on the drawbar assembly.

