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MANUAL PREVIEW

Galion

Service Manual

104, 118, 160,

T-500, T-600 & 450

Motor Grader

Service Manual

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GA-S-104 MID

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SHOP

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TRANSMISSION PINION SHAFT

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Remove pinion shaft 1st and 4th gear retainer washer.

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Remove pinion shaft 1st and 4th gear and bushing assembly.

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Remove pinion shaft first and fourth gear sleeve (1) and lock pin (2).

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SHOP MANUAL

BINDER

GRADER

FILE

E

SECTION

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*THESE INSTRUCTIONS APPLY TO SERVICING THE GALION
HYDRAULIC OIL TANK AND ALLIED COMPONENTS.*

MANUAL PREVIEW

MODEL

SERIAL NO.

T-500	-----	01001-02601
T-600	-----	01001-01501
T-700	-----	01001-01081
104	-----	14400-23603
104	-----	01001-06937
118	-----	14401-23618
118	-----	01001-06937
160	-----	01001-02019

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GRADERS (Cont'd)

MODEL	SERIAL NO.	TEMPERATURE RANGE	TABLE
Steering Gear All Models - Except T-600C, T-500M, T-500C, T-400A, 503L, 503A	All	All	J, K, L, M
Circle Reverse Gear Case 503A 160B 118B 104H-B 104B 160L T-400A T-500A T-500L T-600B	05101 to 05879 02155 to 02714 07601 to 10750 07619 to 10692 07601 to 10750 02101 to 02729 01001 to 01163 02601 to 04198 03286 to 04198 01591 to 01906	Above 32° F. (0° C) Below 32° F. (0° C)	B A
503A 104C 160C 118C 160L T-500A T-500L T-600B	05879 to 06112 10750 to 11214 02714 to 03029 10750 to 12013 02719 to 03083 04198 to 07995 04198 to 07995 01906 to 02536	Above 32° F. (0° C) Below 32° F. (0° C)	S or K A or J
Drawbar Side Shift Gear Case All Models - Except 503A	All	All	N or S
Independent Steering System All Models	All	All	G
Hydraulic System* 503A 160B 160L 104H-B 104B 118B	05101 to 06112 02155 to 02714 02101 to 03083 07619 to 10692 07601 to 10750 07601 to 10750	Above -20° F. (-29° C) Below -20° F. (-29° C)	G*
104C 160C 118C T-500A T-500L T-600B	10750 to 11214 02714 to 03029 10750 to 12013 02601 to 07995 03286 to 07995 01501 to 02536	All	G
Front Wheel Bearings All Models	All	All	O
Pressure Gun Fittings All Models	All	All	O
Clutch Throwout Bearings 303, 303A 503	01001 to 26949	All	T

PRELIMINARY CHECKS

Prior to servicing cranking motor, record its model and serial number. Unit information can be found on serial no. plate (1) or stamped directly into body. Use this information to obtain parts and/or latest service bulletins from Local Delco-Remy parts distributor. If powered by Cummins or Deutz engine, contact engine distributor for cranking motor service information and/or parts.



Figure 1



REGARDLESS OF CONSTRUCTION, NEVER OPERATE CRANKING MOTOR FOR MORE THAN 30 SECONDS AT A TIME WITHOUT PAUSING TO ALLOW IT TO COOL FOR AT LEAST 2 MINUTES. OVERHEATING CAUSED BY EXCESSIVE CRANKING, COULD SERIOUSLY DAMAGE CRANKING MOTOR.

Check battery to insure it is fully charged. Use hydrometer (1) to check specific gravity of each cell. (Hydrometer should have temperature compensation scale (2) or built-in temperature compensator.) If specific gravity readings are below 1.230, recharge battery. If readings show variation of more than 0.050 between cells, replace battery.



Figure 2



IF BATTERY ACID IS SPLASHED ON FACE OR IN EYES, IMMEDIATELY WASH WITH PLENTY OF CLEAN WATER ONLY AND SEEK MEDICAL AID. IF ACID IS SPILLED ON HANDS, SKIN, OR OTHER EXPOSED AREAS, IMMEDIATELY WASH WITH SOAP AND CLEAN WATER. ACID SPILLED ON CLOTHING CAN BE NEUTRALIZED WITH DILUTED AMMONIA WATER OR A SOLUTION OF BAKING SODA.