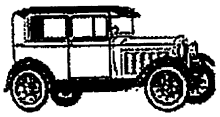

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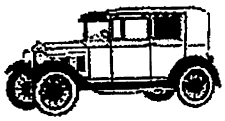

P.O. Box 925 Colusa, CA 95932 ph 800-859-2088 ph 530-458-4500 fax 530-458-4507

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MITCHELL MODEL 1000 OVERDRIVE

The Mitchell Manufacturing Model 1000 overdrive is not only an **"OVERDRIVE"** but is also a **"GEAR-SPLITTER,"** which means you have two speeds in each gear.

1. You have a neutral that completely disengages your existing transmission.

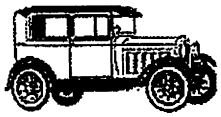
2. You can shift "on-the-fly" (Direct to Overdrive/Overdrive to Direct in any gear).

3. You have six (6) speeds forward:

   1st and 1st overdrive
   2nd and 2nd overdrive
   3rd and 3rd overdrive

4. You also have two speeds in reverse, and it will do no damage the overdrive if you back up in the overdrive mode.

This overdrive can be shifted progressively or can be shifted in whatever manner the owner would like; your engine RPM's are the only restrictive factor.



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ATTENTION

The connector sleeves on both front and rear propeller shafts are furnished with a grease fitting with access through the torque tube.

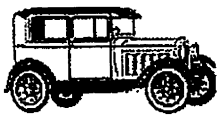
TO SERVICE FRONT SLEEVE

1. Put the main transmission in neutral and the overdrive in either gear with the wheels blocked.
2. Remove the 1/2" hex plug at the rear of the front tube using a 3/4" wrench.
3. Raise a rear wheel and rotate until the 1/4" Allen screw is centered with the hole in the tube.
4. Use the 1/8" T handle wrench (provided) and carefully remove the Allen set screw.
5. Insert the extra long grease fitting (provided) through the opening and thread it into the sleeve.
6. Grease generously to force grease into both halves of sleeve; 6-8 pumps with a grease gun is adequate. The front sleeve is pre-greased at the factory if already attached to overdrive.
7. Remove the grease fitting, replace the set screw, replace the hex plug.

TO SERVICE REAR SLEEVE

1. Remove the 3/4" hex plug at the front of the rear tube using a 1 1/8" wrench.
2. Rotate rear wheel until the grease fitting is centered in the hole.
3. If fitting is not centered in hole, you may need to use a needle-point grease gun extension to grease.
4. Grease generously; 6-8 pumps with a grease gun is adequate.
5. Replace the hex plug.

USE THIS PROCEDURE AT INSTALLATION AND AT REGULAR LUBRICATION INTERVALS THEREAFTER.



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SHIFTING INSTRUCTIONS

LOW TO HIGH

When shifting from direct drive to overdrive in any gear, depress the clutch pedal, drop the engine RPM, and move the gear shift firmly into overdrive.

HIGH TO LOW

When shifting from overdrive back to direct drive in any gear, depress the clutch pedal, raise the engine RPM and hold momentarily while moving the gear shift firmly into direct drive. Shifting into direct gear is similar to shifting any synchronized transmission to a lower gear.

LUBRICATION

Oil to be changed approximately every 5,000 miles or once a year. Use approximately one quart of 85-140 weight petroleum-based gear oil with a GL-5 rating (synthetic oils put unnecessary wear on bronze blocker).