

GRAVELY *Technical* BULLETIN



RECEIVED

APR 8 1963

BULLETIN NO. 1002
DATE: April 3, 1963
TO: ALL OUTLETS
SUBJECT: SWIFTAMATIC 8 TRANSMISSION

INS. _____

The Gravely Tractor with Swiftamatic 8 Transmission--the product of more than a year of extensive, exhaustive design and testing by the Gravely Engineering Department--is now being produced.

Initially, we plan to manufacture 150 Swiftamatic 8-equipped Tractors a week. Should the demand warrant it, we are capable of expanding our production sufficiently.

Only the Model L Tractor (with the eight-thread worm) is being fitted with the Swiftamatic 8 Transmission. This combination of Tractor and Transmission gives your customer within a single unit an L, LI, and LS Tractor.

The following table illustrates the maximum forward speeds attainable at 2600 RPM, the point where peak horsepower and torque are generated by the Gravely Engine:

Range and Gear	Maximum Forward Speed (MPH)
LOW Range, low gear	1.35 approximately
LOW Range, high gear	1.85 approximately
SPEED Range, low gear	2.75 approximately
SPEED Range, high gear	3.75 approximately*

*When the tractor is not under load, such as going to or from a job, a top speed of 4.25 MPH is attainable.

In reverse, because it is geared lower, speeds shown opposite the various range and gear combinations are slightly slower (10 per cent)--engineered by Gravely to serve as an additional safety factor for your customers.

April 3, 1963

You should bear in mind that the Swiftamatic 8 Transmission works only on the ground speed of the Tractor. It does not regulate the speed of the attachment.

In other words, think of the Swiftamatic 8 Transmission as a "built-in" set of Gear Reduction Wheels, for this is exactly the effect of the low range of the Transmission. In low range, while the attachment speed is related directly to Engine RPM, the Tractor Wheels are turning slower, thus giving the attachment more opportunity per foot traveled to do its job. In high range, the Tractor functions exactly as a current Model L not equipped with the Swiftamatic 8 Transmission would function.

Operating instructions are attached.

Following are prices of the Tractor equipped with the Swiftamatic 8 Transmission:

<u>Tractor</u>	<u>FOB</u>	<u>White</u>	<u>Yellow</u>	<u>Pink</u>	<u>Canadian</u>
Custom	\$401.00	\$413.00	\$417.00	\$424.00	\$457.00
Super	\$519.00	\$535.00	\$540.50	\$550.00	\$595.00

We are now ready to accept orders for Tractors equipped with the Swiftamatic 8 Transmission. Orders will be filled on a first-come, first-served basis.

Shipment will be made with car-load orders, either in carload orders by the dealer or in car-loads going to the stations. We will allot our shipments in the basis of firm orders in our hands at the time of shipment.

Placing your order immediately will allow us to adjust our production schedules upward, if needed; this will insure that we produce enough to make sure everyone gets the number needed.

An order form is attached. Please complete it right away and return for processing, so you can quickly begin to enjoy the increased business that will be yours as a result of this engineering triumph--the Swiftamatic 8 Transmission.

IMPORTANT NOTE: This unit must be factory installed. Field kits are not available.

OPERATING INSTRUCTIONS FOR GRAVELY SWIFTAMATIC 8 TRANSMISSION

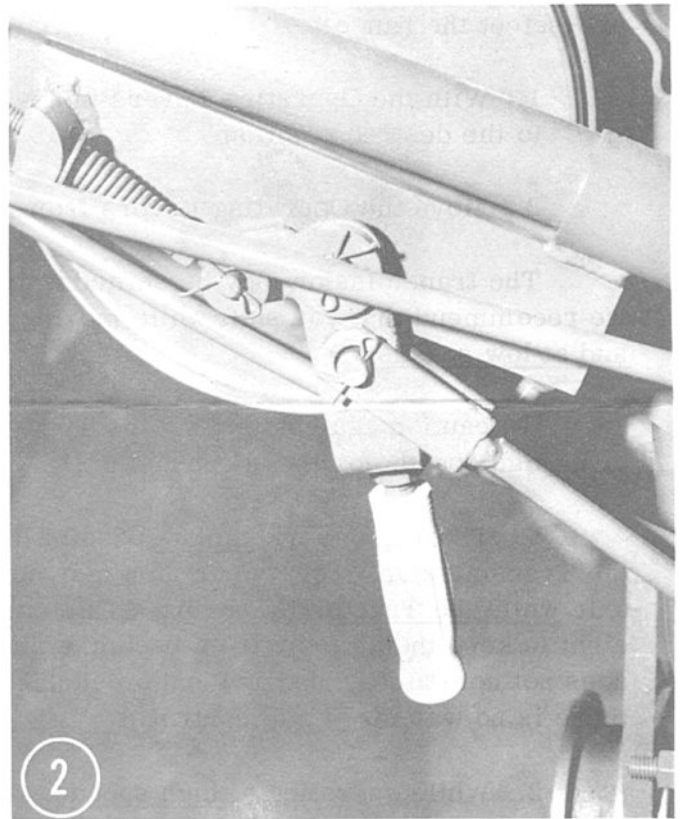
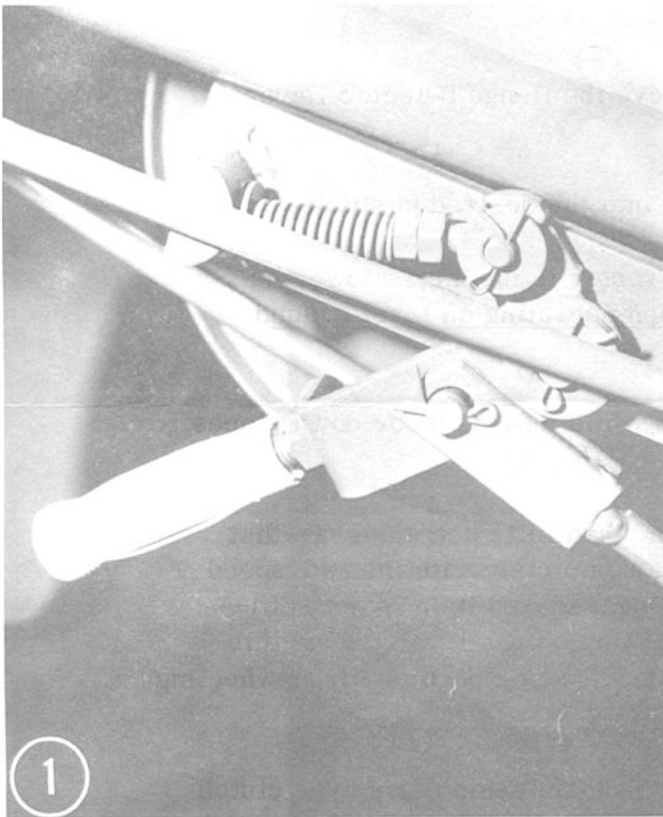


Figure 1 shows the Range Selector Lever in the speed range (high range) position, pulled toward you as far as possible. Figure 2 shows the Range Selector Lever in the low range position, pushed away from you as far as possible.

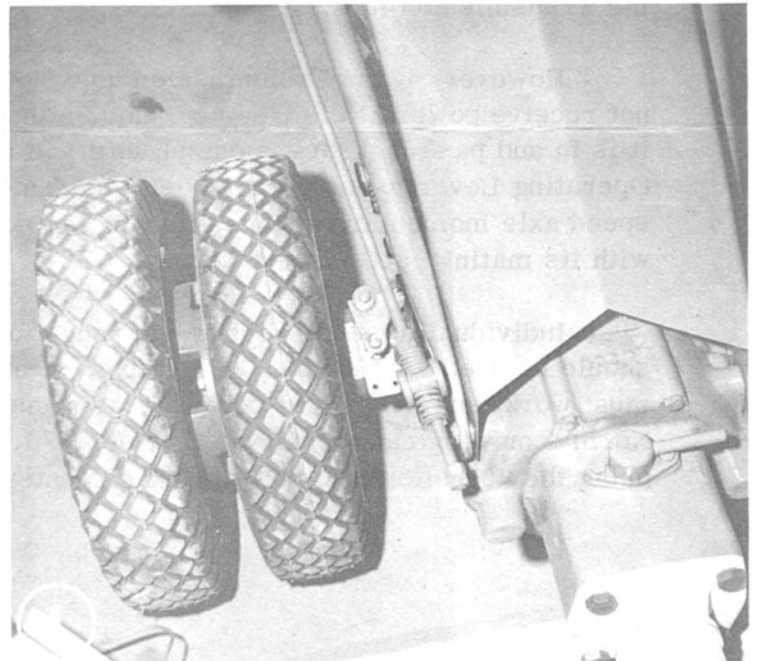
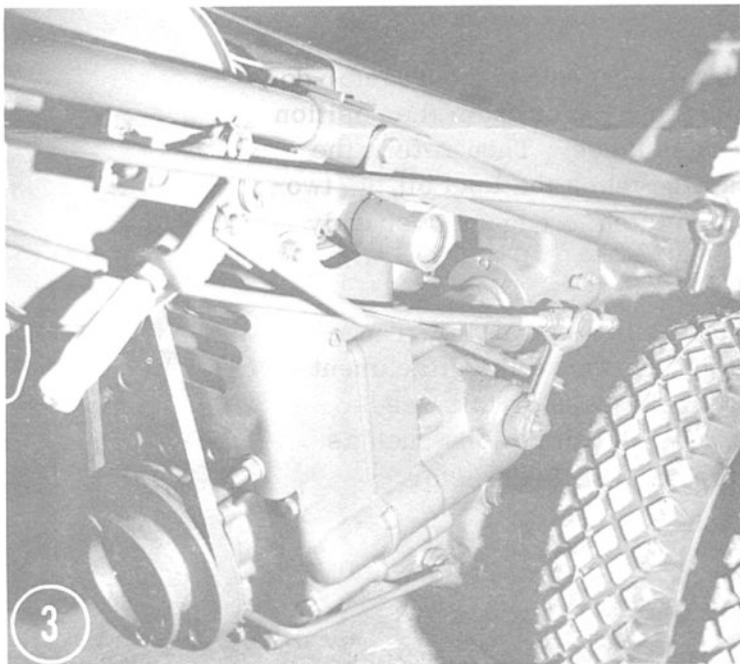


Figure 3 shows the Range Selector Lever and linkage. Figure 4 shows a continuation of the linkage at the point where it enters the Chassis to actuate the Transmission.

Operating Instructions for Gravely Swiftamatic 8 Transmission (Cont'd)

We recommend that you select the desired range before starting the job. To pre-select the range:

1. With the Operating Levers in neutral, move the Range Selector Lever to the desired position.
2. Move the Operating Levers from neutral into the desired positions.

The transmission may be shifted while the Tractor is moving. However, we recommend that you shift while moving only when operating on level ground and at low speeds.

We caution against shifting the Transmission while moving up or down slopes or at high speeds for these reasons:

1. There is a very remote possibility--but a possibility nonetheless--that the Transmission's dog-type clutch may not engage completely with the two-speed axle while the Tractor is moving. This partially-engaged condition is not sufficient to keep the Tractor from becoming "free-wheeling". On level ground this does not constitute a danger, but on slopes should the Tractor become "free-wheeling" there is no way for you to control it.

2. While operating at high speeds, when the Transmission's dog-type clutch engages the two-speed axle, a severe shock load may result, thus possibly causing damage to the Transmission and other parts of the Tractor.

To shift the Transmission while moving on level ground and at low speeds, simply move the Range Selector Lever to the desired position. This should engage the Transmission fully.

However, if the Transmission does not become engaged--if the Tractor does not receive power at the Wheels--move either Operating Lever from the position it is in and pass it through neutral until you meet resistance. Then return the Operating Lever to its former position. This practice takes the load off the two-speed axle momentarily, thus allowing the dog-type clutch to engage positively with its mating part.

Individual jobs will dictate the range to be used. In general, low range should be used for plowing, cultivating, or any other job where the attachment must work longer per foot traveled, as in mowing thick grass or tall weeds. Normal mowing can be done in the speed (high) range, as can be jobs such as using the 20-gallon Sprayer, or attachments for the rear of the Tractor.

ORDER FOR SWIFTAMATIC 8 TRANSMISSIONS

TO: GRAVELY TRACTORS
DUNBAR, WEST VIRGINIA

I am anxious to enjoy the increased sales and profits from selling the Gravelly Tractor and Swiftamatic 8 Transmissions. This is FIRM order for:

_____ Gravelly Tractors equipped with
Swiftamatic 8 Transmissions

_____ Custom Hoods

_____ Super Hoods

SHIPPING INSTRUCTIONS:

_____ Ship to Station _____ for pickup for me.

_____ Add to my Carload Order in your hands.

_____ Include in Carload Order now being prepared to forward
to you.

_____ Include in Split Carload with _____
Order now _____ in your hands _____ in preparation.

I understand the FOB price of the Tractor will be increased \$60.00
for Tractors equipped with this Transmission.

_____ I will pay Cash

_____ I would appreciate information on Floor Plan.

COMPANY NAME: _____

ADDRESS _____

Town, Zone, State _____

SIGNATURE: _____