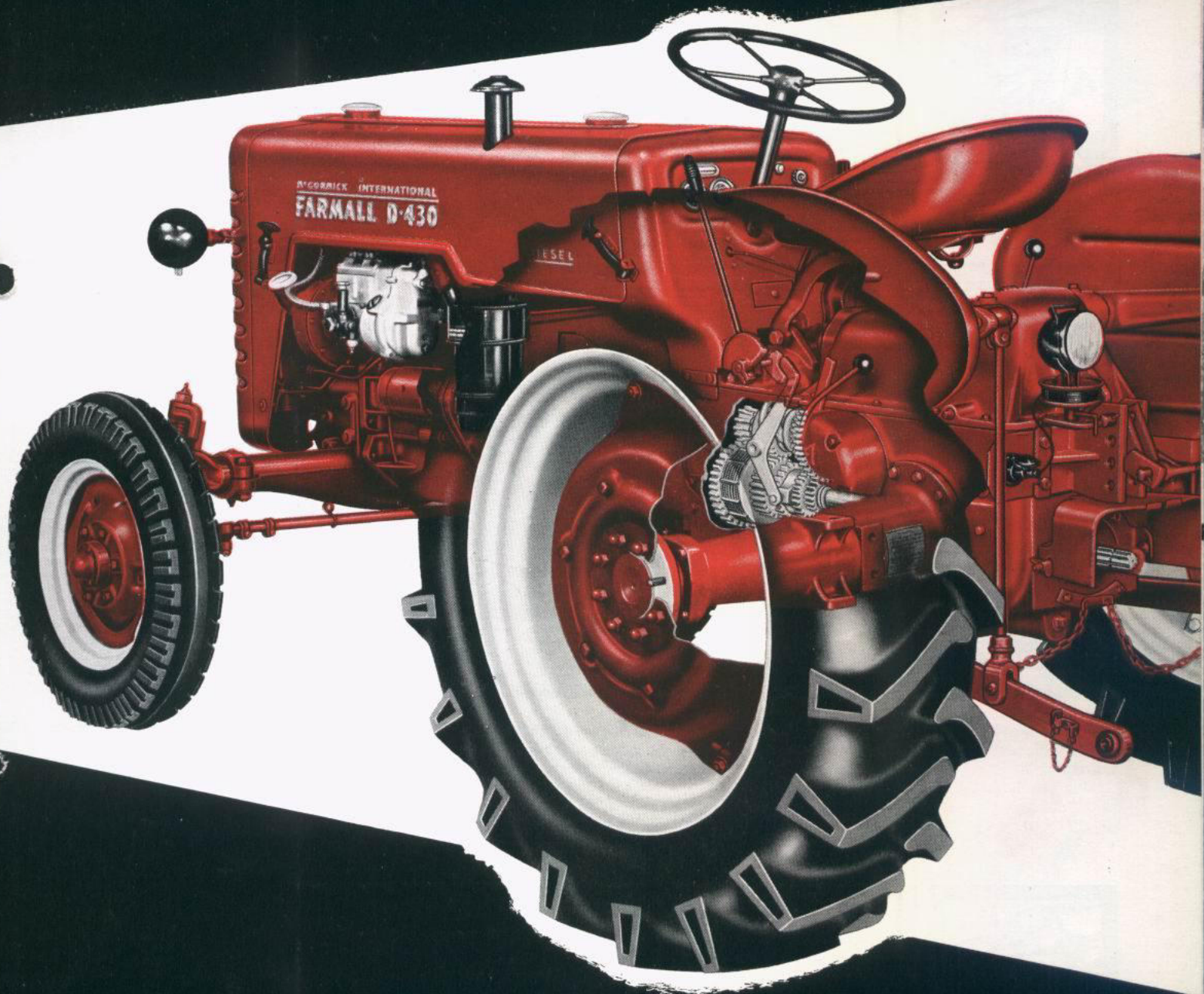


- *Agriomatic*

DBP 943807



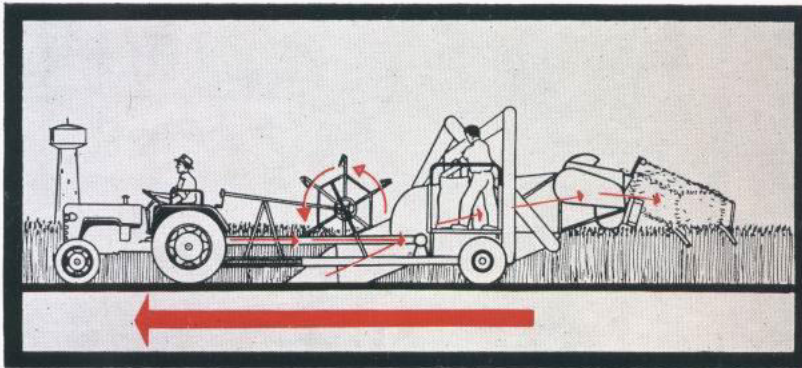
Reduction of forward travel or
stopping of the tractor while
maintaining constant PTO speed.

AVAILABLE FOR
McCormick
INTERNATIONAL
FARMALL-Diesel tractors
D-320 · D-324 · D-430

SINGLE LEVER OPERATION

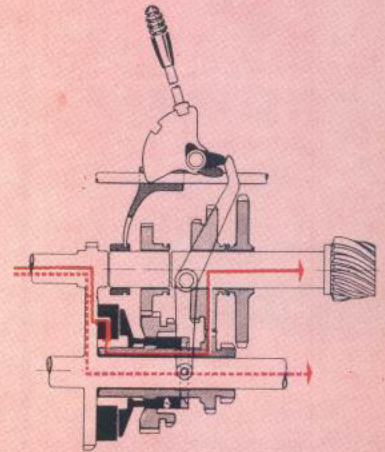
WHEN WORKING WITH P.T.O. DRIVEN MACHINES

By means of the AGRIOMATIC Transmission, tractor travel can be reduced or stopped entirely without affecting P.T.O. speed.

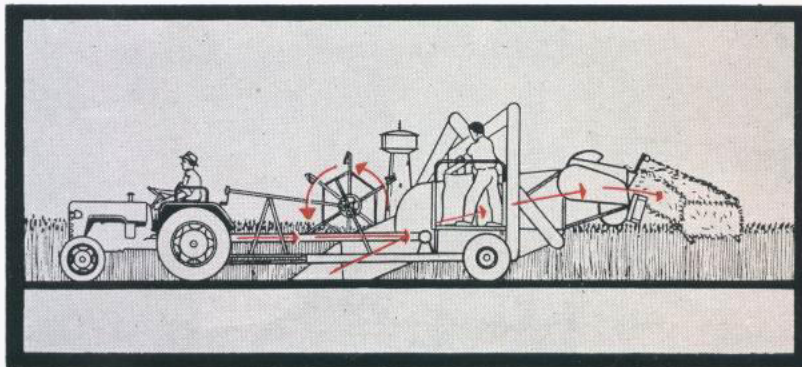


Low range is engaged — Agriomatic lever is in forward position.

Tractor and harvester thresher move forward — P.T.O. engaged — harvester thresher in operation.

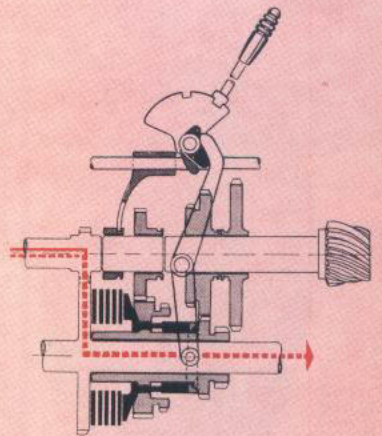


2nd gear (low range) selected — power to final drive flows through engaged multiple steel-disc clutch — P.T.O. drive engaged.

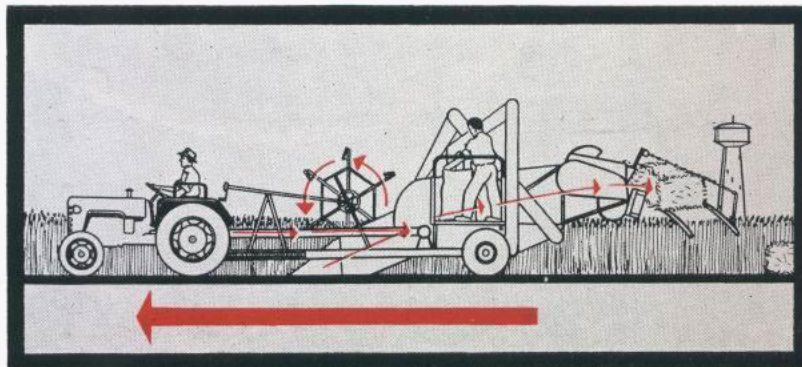


Operator slowly moves Agriomatic lever backwards.

Tractor and harvester thresher slow down, eventually stopping — P.T.O. continues to rotate at constant speed — full engine power available at P.T.O. — harvester thresher can clear itself in patches of heavy or weedy growth.

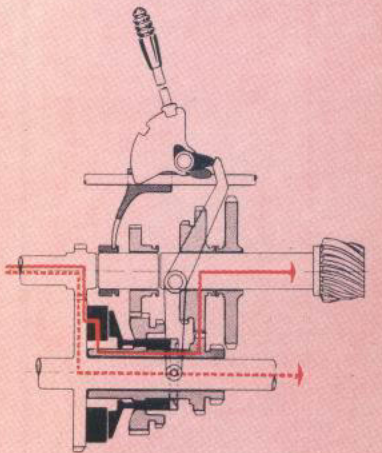


Multiple disc clutch is gradually disengaged — power flow to rear axle partially or fully interrupted — P.T.O. drive remains engaged.



Operator slowly returns Agriomatic lever to forward position.

Tractor and machine move forward again — P.T.O. continues to rotate at constant speed — smooth, continuous working of machine is assured at all times.

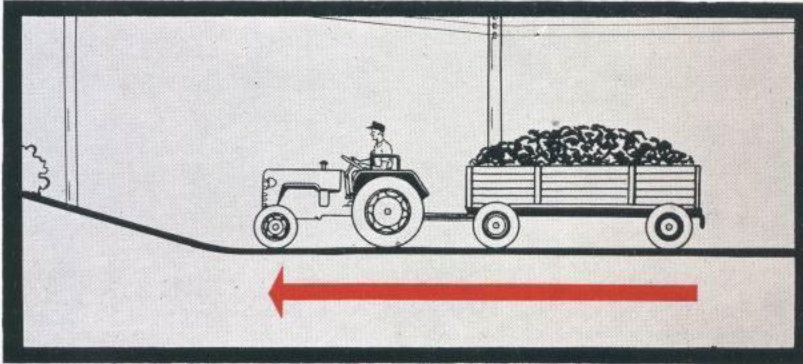


Multiple steel-disc clutch is re-engaged — power flow to rear axle is re-established — P.T.O. drive is still engaged.

SINGLE LEVER OPERATION

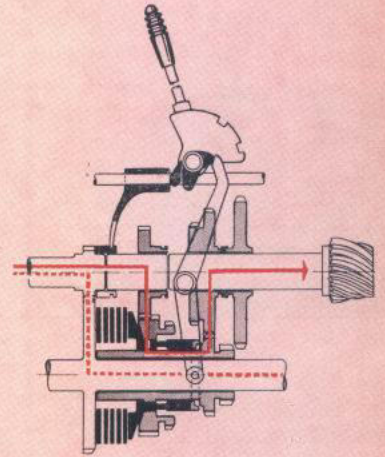
FOR TRANSPORT WORK

Change-over from high range to low range without declutching or shifting gears.

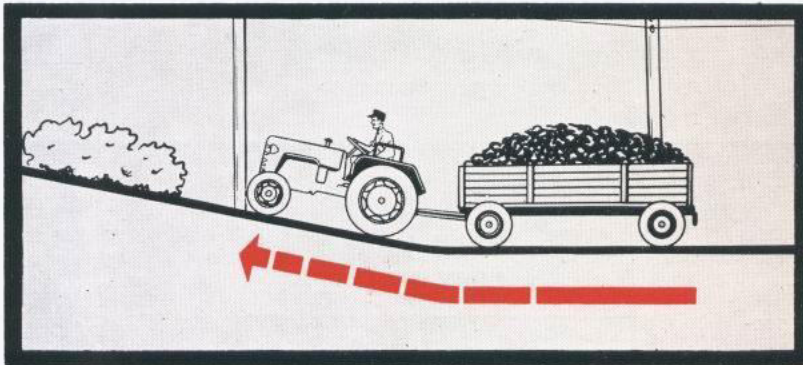


High range is engaged — Agriomatic lever is in forward position.

Tractor and trailer approach hill at high speed.

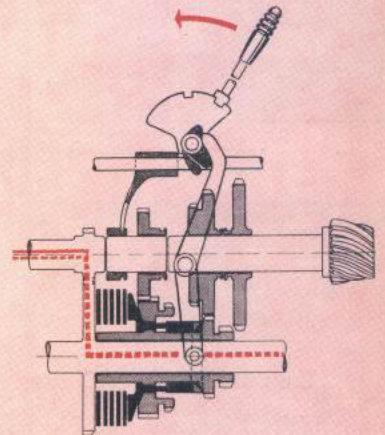


6th gear (high range) is engaged — driving shaft and front part of main shaft are connected.

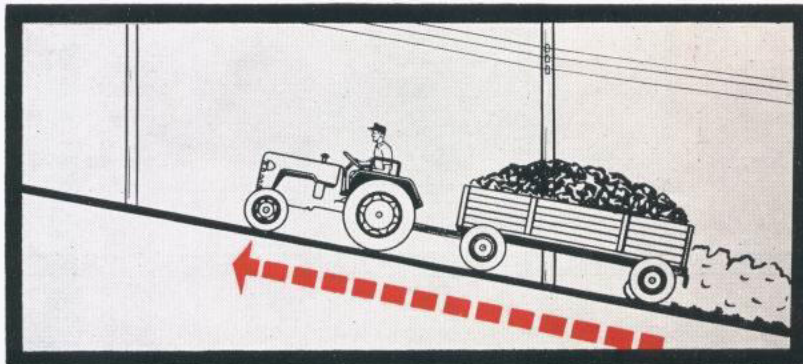


Operator makes two forward movements with Agriomatic lever and changes smoothly from high to low range.

Forward travel is reduced as change-over from high to low range is smoothly executed — drawbar pull is immediately boosted as 2nd instead of 6th gear ratio becomes effective — without use of either foot clutch or gear lever!

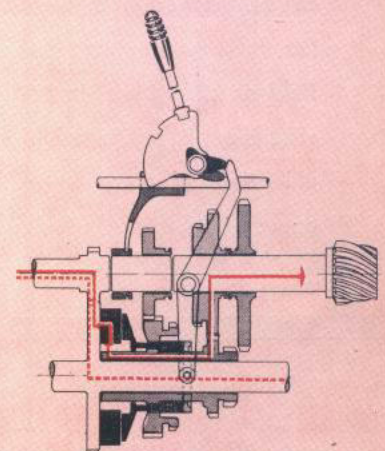


Operation of the Agriomatic lever first disconnects driving shaft and front part of main shaft — then the multiple steel-disc clutch gradually engages and engine power is transmitted via the first pair of constant mesh pinions (see below).



Low range is engaged — Agriomatic lever is in forward position.

Tractor with trailer takes hill in stride as low range gear boosts pull power.



On moving Agriomatic lever forward, engine power is diverted from 2nd pair of constant mesh pinions and transmitted via 1st pair of constant mesh pinions and multiple disc clutch — 2nd gear (low range) is now effective instead of 6th gear (high range).

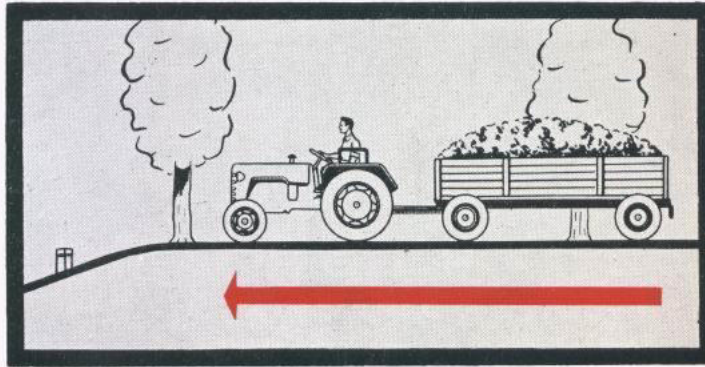
MAXIMUM SAFETY

SIMPLICITY OF OPERATION

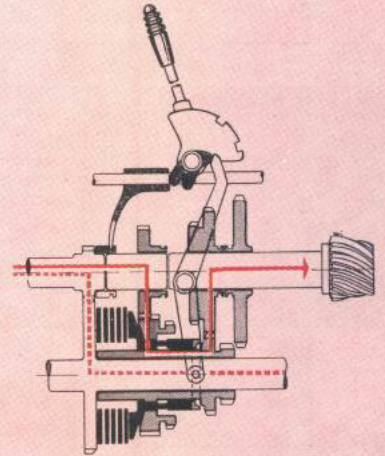
Eliminates declutching and gear shifting when changing from high range to low range.



High range is engaged — Agriomatic lever is in forward position.



Tractor and trailer approach decline at high speed.



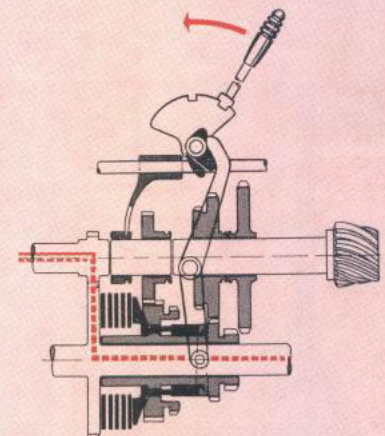
6th gear (high range) is engaged — driving shaft and front part of main shaft are connected.



Operator makes two forward movements with Agriomatic lever and changes smoothly from high to low range.



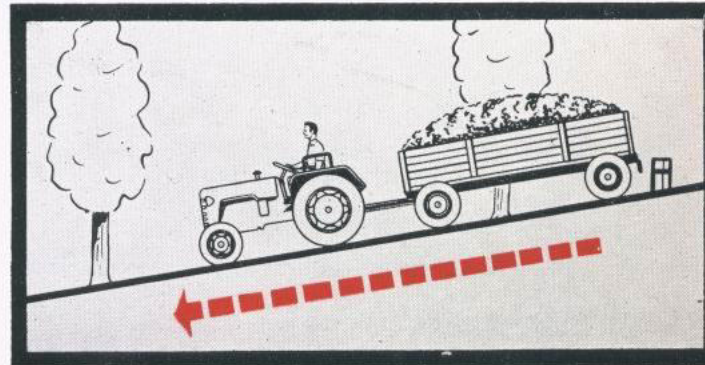
By changing from high to low range, forward travel is immediately reduced.



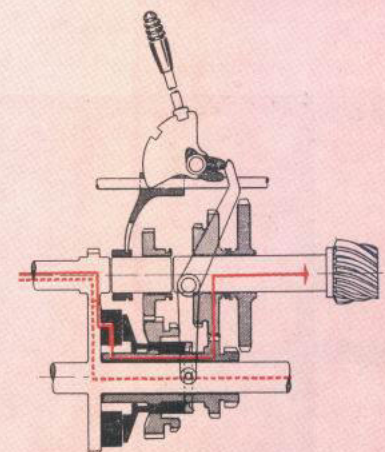
Operation of the Agriomatic lever first disconnects driving shaft and front part of main shaft — then the multiple steel-disc clutch gradually engages and engine power is transmitted via the first pair of constant mesh pinions (see below).



Low range is engaged — Agriomatic lever is in forward position.



Tractor and trailer descend decline safely at reduced speed.



On moving Agriomatic lever forward, engine power is diverted from 2nd pair of constant mesh pinions and transmitted via 1st pair of constant mesh pinions and multiple disc clutch — 2nd gear (low range) is now effective instead of 6th gear (high range).

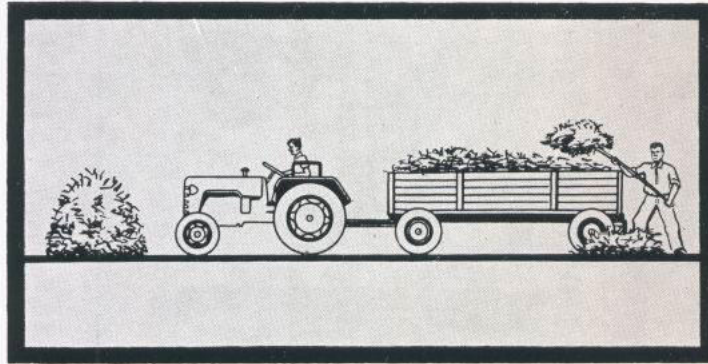
SINGLE LEVER OPERATION

FOR QUICK "START-STOP" JOBS

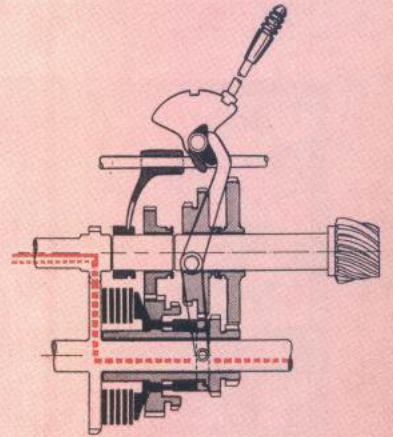
Starting or stopping of the tractor in the low range speeds without de-clutching or shifting gears! So simple — a child can operate the Agriomatic!



Neutral — Agriomatic lever is in the rear position.



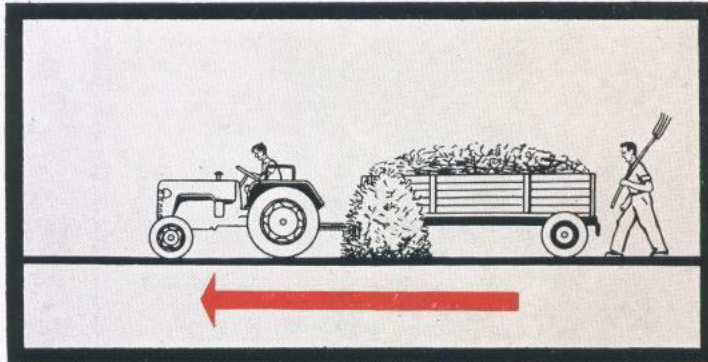
Tractor and trailer are stationary — loading of trailer commences.



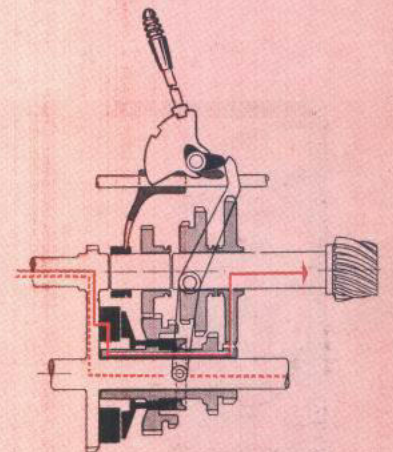
Neutral position — multiple steel-disc clutch is disengaged — power flow to rear axle is interrupted.



Low range — Agriomatic lever is moved to forward position.



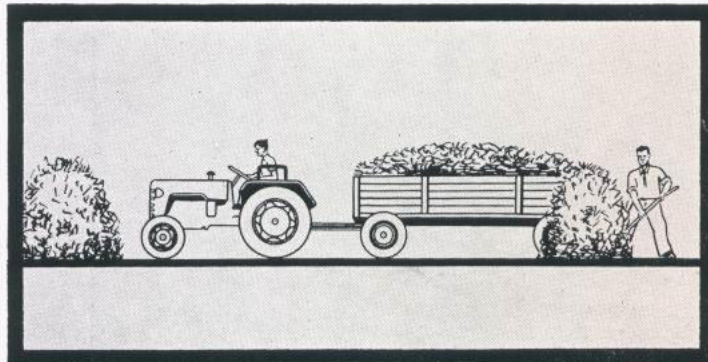
Tractor and trailer move slowly forward.



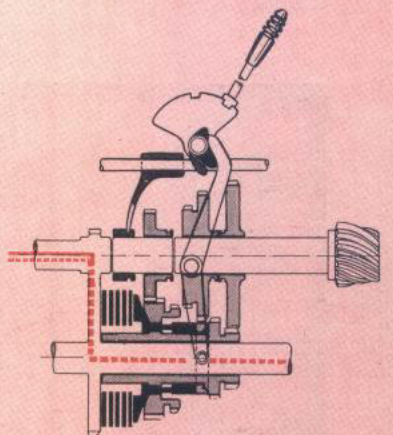
Multiple steel-disc clutch is engaged — 1st gear (low range) becomes effective.



Agriomatic lever is returned to neutral position.



Tractor and trailer come to a standstill — loading of trailer continues.



Multiple steel-disc clutch is disengaged — power flow to rear axle is interrupted.

THE EXCLUSIVE AGRIMATIC

provides for

MAXIMUM UTILISATION OF POWER

under all working conditions



... with harvester thresher



... with field forage harvester



... with pick-up hay baler



... with grain binder



... with manure spreader

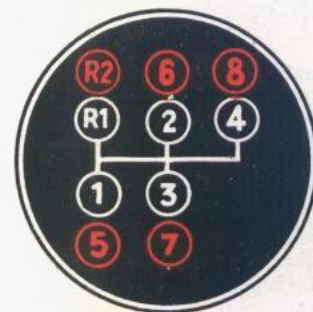
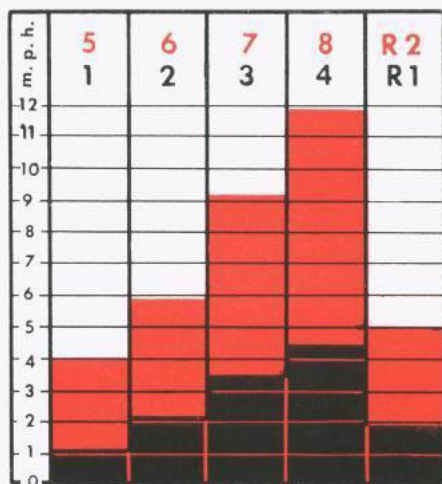


... with side-mounted mower

Carefully spaced!

The IH AGRIMATIC transmission provides 8 forward and 2 reverse speeds. These speeds are so spaced, from the creep speed to a top speed of 11.7 miles per hour, that the power of the engine can be most advantageously applied to the varying conditions encountered in field or highway operation. Maximum efficiency is obtained through full utilisation of machine or implement capacity with minimum fuel consumption.

● = HIGH RANGE
● = LOW RANGE



8 SPEEDS

	Low Range m.p.h.	High Range m.p.h.
First	1.1	3.0
Second	2.2	5.8
Third	3.5	9.2
Fourth	4.4	11.7
Reverse	1.9	5.0



INTERNATIONAL HARVESTER

INTERNATIONAL HARVESTER COMPANY M. B. H.
NEUSS/RHINE GERMANY