

TRANSMISSION CONTROL OPERATION



The operator controls the transmission using the gear levers and electrical buttons on these levers (1). Signals are then sent to the processor (2) from the status switches (3) which inform the processor which mechanical synchronizers are selected.

The operator also controls the clutch/braking pedal (4) which has a potentiometer (5) and a disconnected switch (6) attached to it.

The processor takes a signal from the alternator (8) which gives the engine speed. The transmission speed sensor (9) gives the output speed of the transmission, and thus the wheel speed, to the processor.

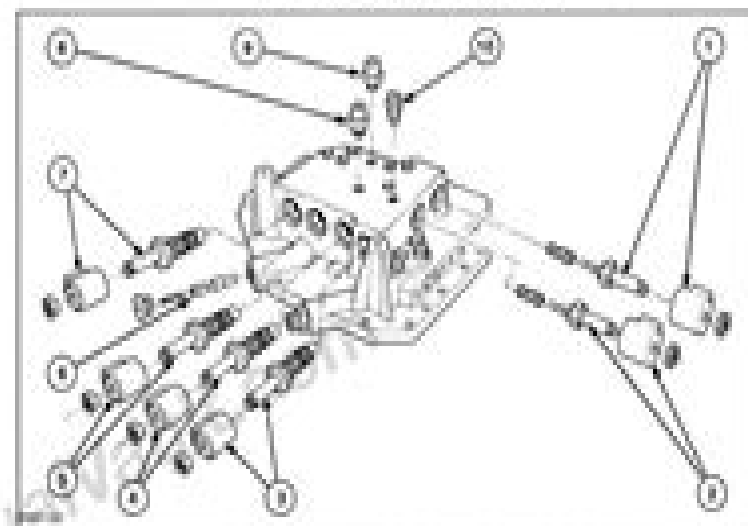
The transmission of temperature is measured by the oil temperature sensor (10) adjacent to the transmission control valves. This gives an indication of oil density to the processor.

The processor then controls the four Pulse Width Modulated (PWM) valves (7) which regulate the Low Pressure Oil (LPO) (18-20 bar) to operate the four clutches within the transmission.

The speed that the clutches hydraulically engage and disengage is controlled by the processor through the PWM valves and is dependent upon the signals received from the operator and the sensors. The two clutches at the front of the transmission (C1/C2) can be considered as ON/OFF clutches. However, a degree of gradual engagement/disengagement exists during gear changes. The two clutches at the rear of the transmission (C3/C4) are much larger and can be considered as the feathering or gradual engagement clutches. It is these clutches that permit smooth gear changes and take-ids by progressively engaging until fully locked.

Whilst operating in any one gear, one of the C1/C2 and one of the C3/C4 clutches is always fully engaged.

TRANSMISSION HYDRAULIC CONTROL



Mounted on the side of the transmission is the control valve assembly.

The control valve pack is supplied with Low Pressure Oil (18-20 bar) from an accumulator (Fig. 11). This is necessary to ensure minimum drop in oil pressure when changing gear, particularly when changing two clutches at once.

Oil for lubrication enters at point 6.

The control valve pack incorporates four PWM valves (2,3,4,5), a transmission oil temperature sensor (10) and optional WFO (3) and creep interface piston (8).

Mounted on the rear of the control valve pack is the lubrication controlling valve pack. This incorporates the lubrication regulating valve (1), the lubrication controlling valve (2) with valve spring and spring (4) and the lubrication shuttle valve (3).

This valve pack contains lubrication of at 5 bar with low pressure/transmission control oil at 18-20 bar to increase clutch lubrication during clutch feathering.



New Holland Ts 110 Trans Repair Manual

G Orfield



New Holland Ts 110 Trans Repair Manual:

Poor's Manual of Public Utilities ,1915 **Repair Manual** New Holland North America,1998 The English Catalogue of Books Published from January, 1835, to January, 1863 ,1864 CQ ,1988 **Marine Engineer and Motorship Builder** ,1923 **The Official Index to The Times** ,1919 *Moody's Manual of Investments* John Sherman Porter,1929 American government securities 1928 53 in 5 annual vols v 1 Railroad securities 1952 53 Transportation v 2 Industrial securities v 3 Public utility securities v 4 Government securities 1928 54 v 5 Banks insurance companies investment trusts real estate finance and credit companies 1928 54 **A New English Dictionary on Historical Principles** James Augustus Henry Murray, Henry Bradley, Sir William Alexander Craigie, Charles Talbut Onions, 1888

Scientific American ,1885 Monthly magazine devoted to topics of general scientific interest *The Illustrated London News* ,1884 *QST.* ,1969 **Shipbuilding & Marine Engineering International** ,1923 Cumulated Index Medicus ,1994 *The Cultivator & Country Gentleman* ,1872 *Expert Systems* Cornelius T. Leondes, 2001-09-26 This six volume set presents cutting edge advances and applications of expert systems Because expert systems combine the expertise of engineers computer scientists and computer programmers each group will benefit from buying this important reference work An expert system is a knowledge based computer system that emulates the decision making ability of a human expert The primary role of the expert system is to perform appropriate functions under the close supervision of the human whose work is supported by that expert system In the reverse this same expert system can monitor and double check the human in the performance of a task Human computer interaction in our highly complex world requires the development of a wide array of expert systems Expert systems techniques and applications are presented for a diverse array of topics including Experimental design and decision support The integration of machine learning with knowledge acquisition for the design of expert systems Process planning in design and manufacturing systems and process control applications Knowledge discovery in large scale knowledge bases Robotic systems Geographic information systems Image analysis recognition and interpretation Cellular automata methods for pattern recognition Real time fault tolerant control systems CAD based vision systems in pattern matching processes Financial systems Agricultural applications Medical diagnosis The Eclairer: a Military Journal ,1853 Science John Michels (Journalist), 1886 Vols for 1911 13 contain the Proceedings of the Helminothological Society of Washington ISSN 0018 0120 1st 15th meeting **Prairie Farmer** ,1884 **Stock Factograph Manual** ,1963 *The Publishers' Circular and General Record of British and Foreign Literature* ,1849

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