

# PARTS & SERVICE NEWS

REF NO. AA97072

DATE May 22, 1997

Page 1 of 3

**SUBJECT:** TRANSMISSION SHIFTERS

**PURPOSE:** To advise that there are four types of shifters used on the graders

**APPLICATION:** GD530A Motor Graders S/N 200840 thru 202793  
GD530AW Motor Graders S/N 200840 thru 202793  
GD650A Motor Graders S/N 200840 thru 202793  
GD650AW Motor Graders S/N 200840 thru 202793  
GD670A Motor Graders S/N 200840 thru 202793  
GD670AW Motor Graders S/N 200840 thru 202793  
830 Motor Graders S/N 200000 thru 202793  
850 Motor Graders S/N 200000 thru 202793  
870 Motor Graders S/N 200000 thru 202793

**DESCRIPTION:**

This **PARTS & SERVICE NEWS** identifies the transmission shifters and their associated improvements. **There is no need to update a shifter if it is giving good service.**

<https://hespartsparts.com/>

**PART NUMBER 1285450H91**

(discontinued)  
Serial Number 200000 thru 200180

**PART NUMBER 1285450H92**

(discontinued)  
Serial Number 200181 thru 201001

**PART NUMBER 1285450H93**

(discontinued)  
Serial Number 201002 thru 201506

This upgrade made the shifter longer and better sealed. Two 3 AMP external fuses, which protected the shifter in case of a dead short in the reverse alarm and the AWD circuit, were deleted from the wiring harness.

This shifter has a fail safe mode provision built in and still uses the round plug. If you encounter any problems with these shifters (H91, H92 or H93), check the plug and pin sockets to be sure they are properly seated before condemning the shifter.

Part Number 1285450H93 supplied by the Parts Division with a red circle (M) has updated components.

Part Number ~~1285450H94~~ shifter has been upgraded with military grade components and will fit all graders from serial number 200000 thru 201999.

*You cannot use Part Number 1433426H92 in a grader that has had the 1285450H91, 1285450H92, or 1285450H93 shifters.*

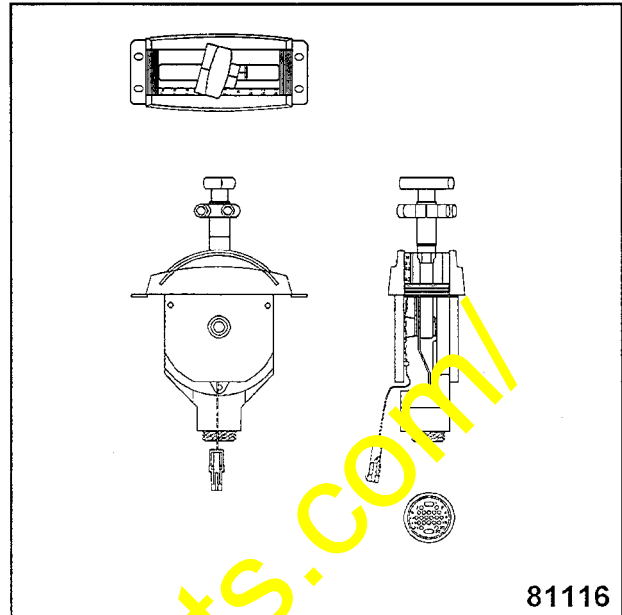


Figure 1 1285450H91 & 1285450H92

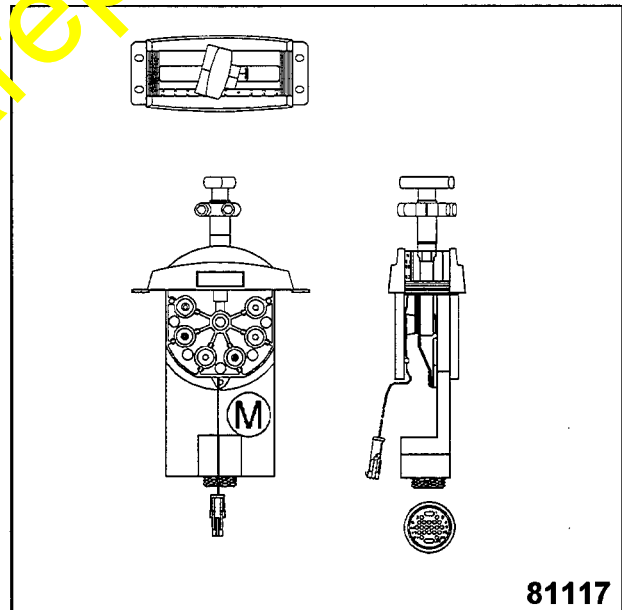


Figure 2 1285450H93

**PART NUMBER 1433426H91**

(discontinued)

Serial Number 202001 thru 203022

This shifter has a rectangular plug. The shifter might appear to have a problem diagnosed as a solenoid failure. In reality the shifter diode is sensitive to heat. Check the connector at the solenoid for voltage in the gears that have stopped working. Refer to Shop Manual C-11.40.

Most indications are that they work fine the first part of the day or when cool, but after warming up later in the day, the shifter will default to neutral instead of going into the desired gear. There is no cure other than to replace the shifter.

After serial number 202793 the shifter was updated with a revised diode and marked with a red circled M on the serial number side.

Part Number **1433426H92** shifter has been upgraded with military grade components and will fit all graders from serial number 202001 thru 203022.

*You cannot use Part Number 1433426H92 in a grader that has had the 1285450H91, 1285450H92, or 1285450H93 shifters.*

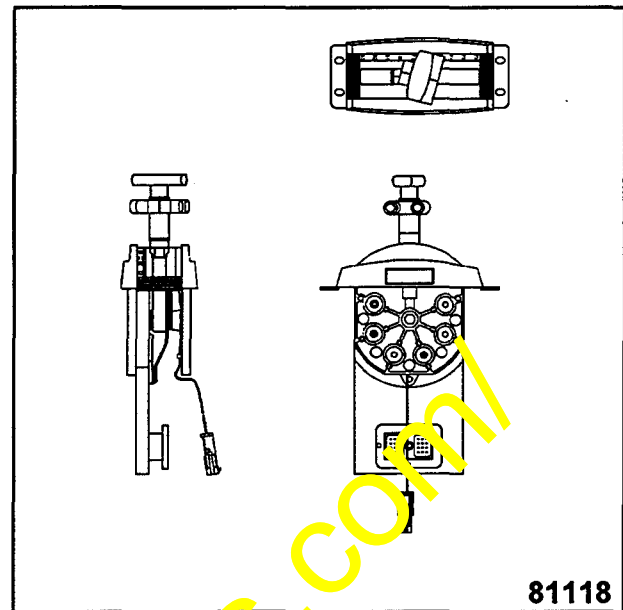


Figure 3 1433426H91

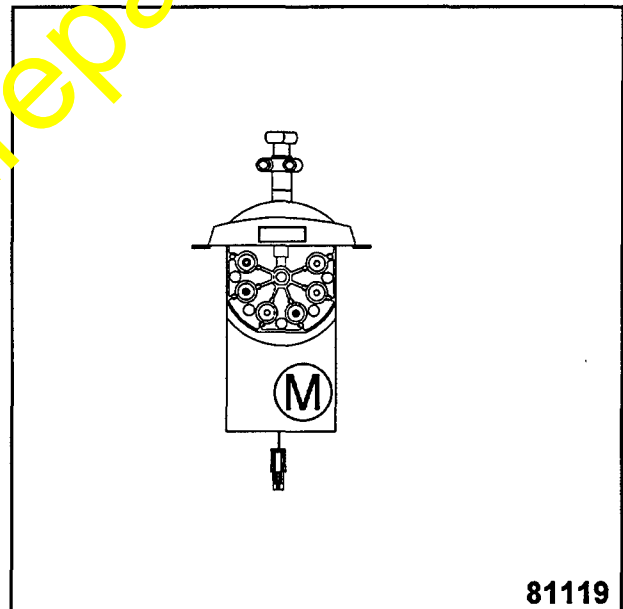


Figure 4 Shifters with new diode

<https://hespareparts.com/>