

## Replacement of MANITOU Cardan Coupling Engine – Angle return



**D-11088-00**  
**Manitou: 226235 / 299863**  
**(OE No. for reference only)**



**D-11089-00**  
**Manitou: 224734 / 299862**  
**(OE No. for reference only)**

To install the Cardan coupling in a correct way and to avoid damages after the installation it is necessary to consider some simple rules. First, before the installation of the new cardan coupling is started the machine **MUST** be placed on a flat ground.

The cardan coupling is to be installed in line with the engine and the transmission. To bring the cardan coupling in line with the engine and the transmission Manitou offers a special tooling to support during the installation. The Manitou part number for that tooling is 662499.

Another option to check after the installation if the cardan coupling and other components are in line. Is to run the machine for 15 – 20 minutes with idle speed. Then stop the machine and control the temperature of the cardan coupling. **If it is mounted in a correct way the cardan coupling must remain cold.**

During the installation the bolts (**use of new bolts is mandatory**) of the flanges must be tightened crosswise and with the correct torque. To avoid that the bolts become loose during the machine is running they must be glued-in.

Incorrectly installed cardan couplings, tightened or loose bolts will lead to damages like destroyed rubber, broken flanges, broken bolts etc.

Any repairs to the Cardan coupling must be performed using only genuine SPICER components, or premature failure may occur.