

ACCESSORY BELT DRIVE SYSTEM



## GATES ABDS WEAR INDICATOR



### NEW MULTI-RIBBED BELT AND PULLEY DIAGNOSTICS

EPDM belts, installed by original equipment manufacturers on new vehicles since the late 1990's, typically do not show obvious signs of wear, as with polychloroprene belts. Cracks and chunk-outs rarely occur, so it is necessary to evaluate belt wear differently. Like tyres, EPDM belts wear out gradually, steadily losing rubber material. Gates has developed this ABDS (Accessory Belt Drive System) wear indicator to help you assess wear not only on EPDM belts but also on all metal or plastic grooved pulleys and to determine when a belt or a pulley has lost so much material it negatively affects its performance and should be replaced. The tool is simple to use and allows you to quickly gauge wear – whether the belt or pulley is still fitted to the engine or has been removed.

The ABDS wear indicator allows you to be confident in your service recommendations while educating customers about proper ABDS maintenance.



### AVAILABLE SOON: GATES PIC GAUGE BELT WEAR APP

Gates PIC (Part Image Capture) Gauge Belt Wear App allows you to accurately and reliably evaluate belt wear using state-of-the-art digital imaging technology and industry-standard specifications. When analysing a belt, an image can be obtained with the belt on or off the vehicle. The results are immediate and can be stored and retrieved for future reference.

Ask Gates for more info!

# GATES ABDS WEAR INDICATOR

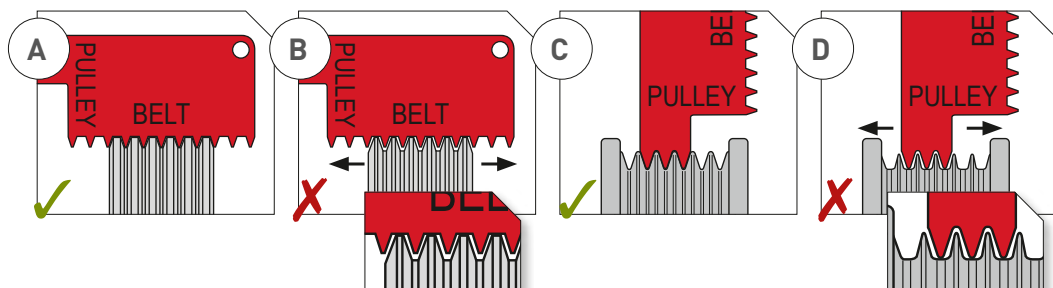
## HOW TO USE THE ABDS WEAR INDICATOR

### BELT CHECKED ON/OFF THE ENGINE:

Reach under a straight section of the belt and insert the “belt profile” of the ABDS wear indicator into the grooves between the belt ribs. The teeth of the indicator should fit perfectly within the profile of the ribs of the belt or should only leave a thin but parallel space between the rib and the teeth of the indicator. No side-to-side movement of the tool is possible without lifting the tool out of the grooves (A). If side-to-side movement is possible or if the ribs are rounded instead of straight, too much rubber compound has worn away from the belt and optimal power transmission has been lost (B).

### PULLEY CHECKED ON/OFF THE ENGINE:

Insert the “pulley profile” of the wear indicator into the grooved pulley to be checked. The teeth of the indicator should fit perfectly into the pulley or should only leave a thin but parallel space between the pulley and the teeth of the indicator. No side-to-side movement is possible without lifting the tool out of the pulley grooves (C). If side-to-side movement is possible or if the pulley-ribs are rounded instead of straight, too much metal/plastic has worn away. A new belt running on a used pulley will not have optimal grip for power transmission. As a consequence, the lifetime of the belt will seriously decrease (D).



*The Gates ABDS wear indicator results indicate an approximation of the material loss from the belt, which should be taken into consideration with other factors – such as mileage, operation conditions, and the condition of other components of the accessory drive. You should rely on your experience as a professional technician when making repair recommendations.*

**Prevent engine damage by checking the multi-ribbed belts regularly with this simple to use tool!**

**Gates.com/europe**

Your distributor:

E2/70529



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