

# KELTRACK® SWITCH PROTECTION

Extending Switch Blade Life

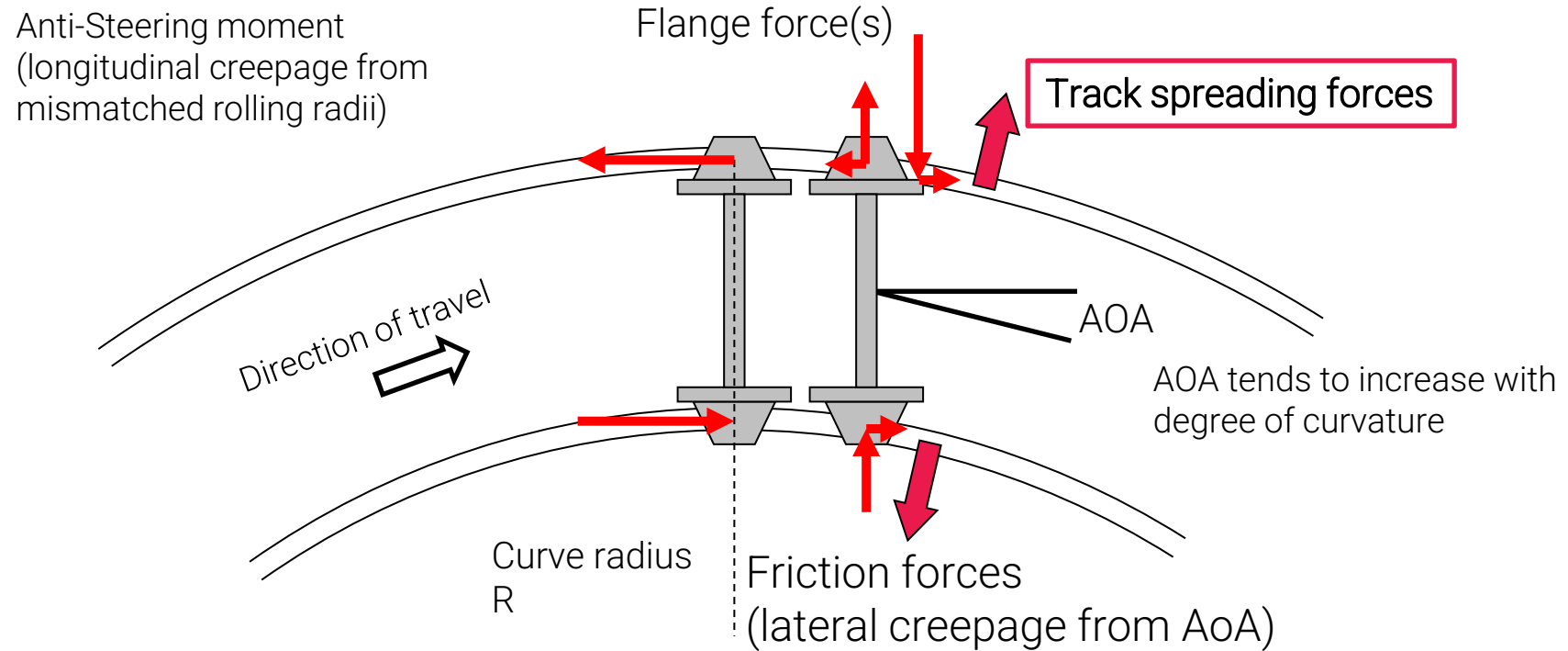
# Typical Switch Blade Damage

Switch blades can often need frequent repair and replacement due to:-

- > Wear
- > Fatigue cracking
- > Plastic deformation



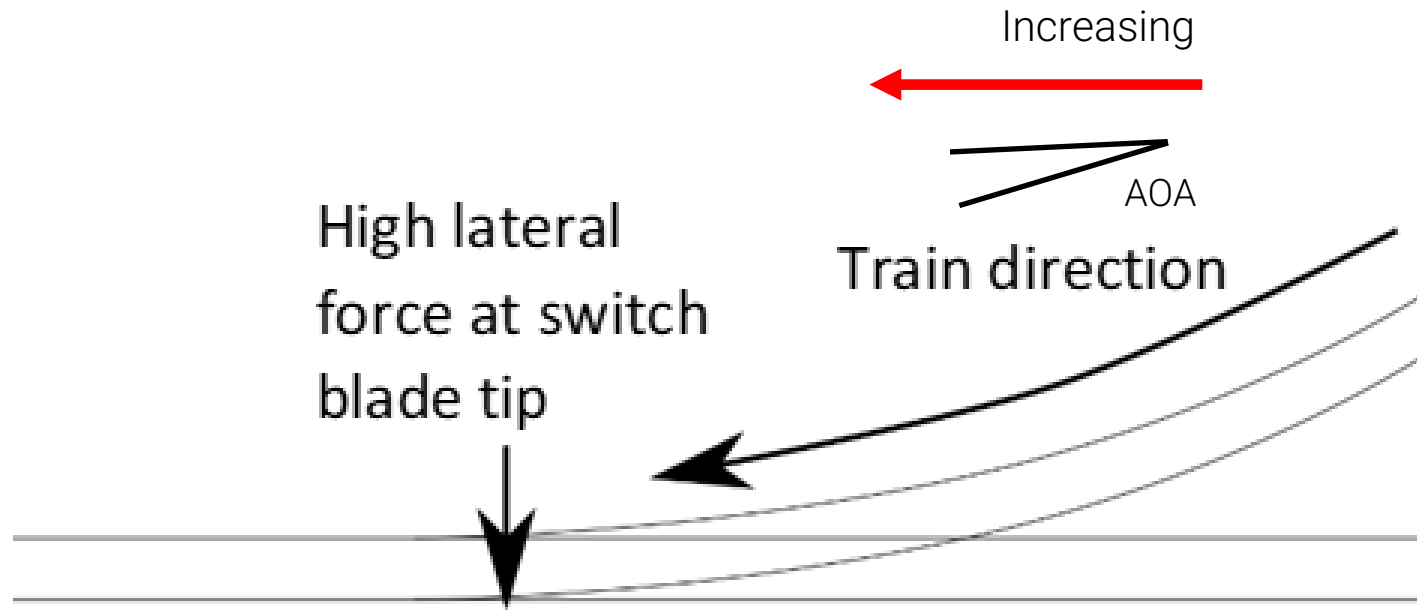
# How does the Damage Occur?



# Friction Management on Switches

## Nature of the Damage

In trailing switches, the angle of attack of the bogie builds up as the train passes through the switch resulting in forces at the tip of the switch blades.



# What is KELTRACK® Switch Protection

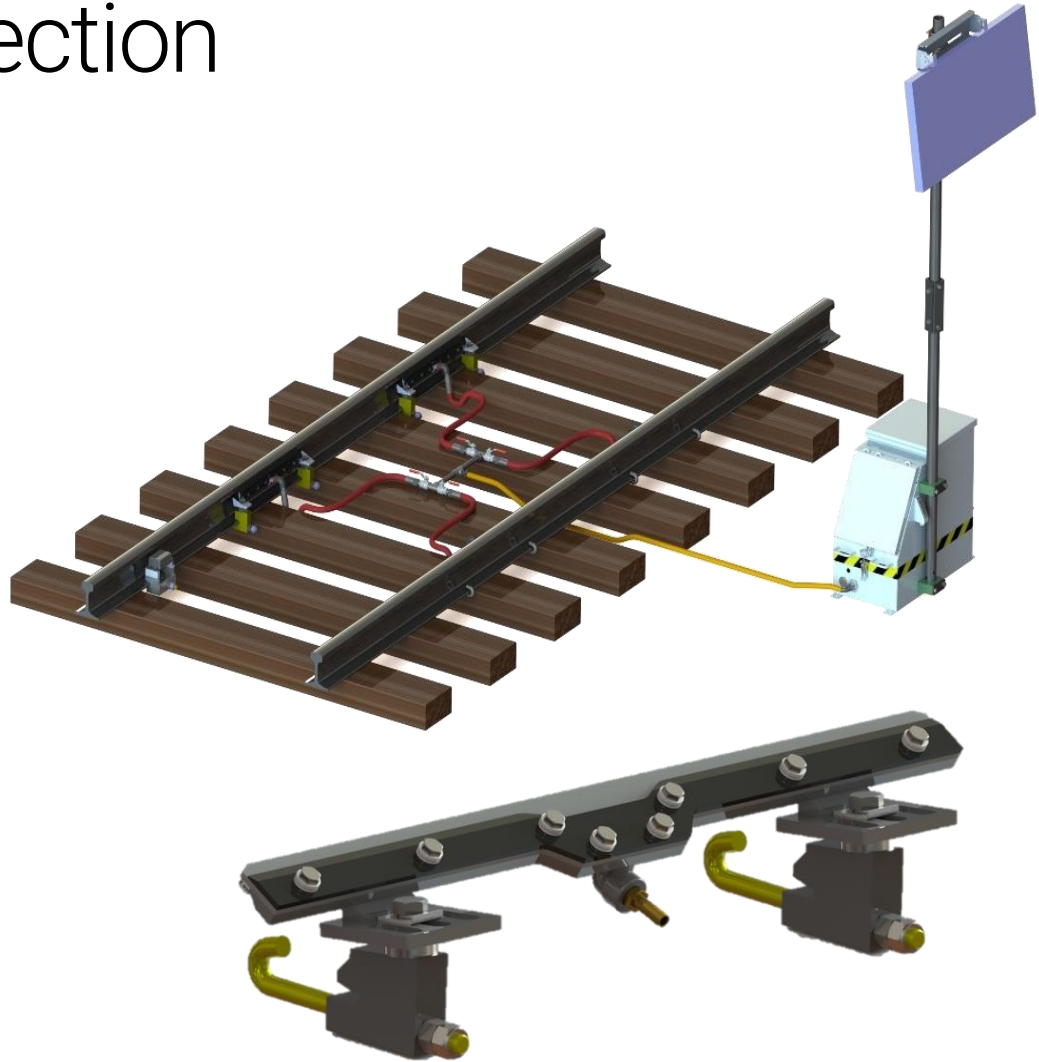
The application of KELTRACK® Top of Rail Friction Modifier to the rails from a trackside unit prior to a turnout or crossing results in:-

- > Reduced lateral and creep forces on the rails through the switch
- > Reduced angle of attack of the wheelset through the switch
- > Reduced wheel flange contact forces through the switch
- > Reduced Fatigue Loading on the switch blades
- > Reduced wheel / rail noise through the switch



# KELTRACK® Switch Protection

- > PROTECTOR® IV Trackside Applicator
- > Clean hands cabinet
- > Electric controls allows fine adjustment of product output (number of axles and amount)
- > Solar power allows remote location
- > Less regular filling required
- > Remote monitoring



# Benefits of KELTRACK® Switch Protection

- > Reduced unplanned maintenance and repairs
- > Reduced delays and temporary speed restrictions
- > Reduced track closures
- > Reduced risk of derailments
- > Reduced costs and improved uptime
- > Significantly extended switch blade life
- > Rapid payback of investment

# Thank you