

WINNARD

Brake Pad Service Guide

TAPERED PAD WEAR

A tapered pad has a different thickness at one end of the pad compared to the other, this will cause uneven braking and noise. This is usually caused by sticking guide pins or excessive caliper clearances. The caliper should be serviced, checked and fitted with a new set of brake pads. We would recommend inspection and serviceability of the brake discs.



UNEVEN WEAR / GROOVING

A pad that has worn unevenly across the surface or has deep grooves can cause brake noise, squeal and judder. The brake disc may also show corresponding grooves across the braking face. This problem will reduce braking efficiency, the brake pads should be replaced and the brake disc skimmed or replaced.



DENATURING

Denaturing is a condition where there is partially burnt friction material evident by white outer edges. This condition is caused by prolonged excessive temperatures, usually due to intensive use, dragging or a faulty caliper. This can cause a reduction in braking efficiency with the material becoming brittle and breaking up. If this occurs we would recommend that the pads are replaced.



CONTAMINATION

If the surface of the friction material becomes contaminated with oil, grease or brake fluid it will have a major affect on the braking performance which will cause low braking effort and pulling. If this problem occurs the pads should be replaced.



DELAMINATION

Delamination is caused by excessive heat which causes the friction material to become brittle and begin to break up and come away from the back-plate. Our triple method retention system is designed to reduce this problem but if it occurs it is important to determine the cause of the excessive heat, which is usually the result of improperly balanced braking system or a faulty caliper.



UNEVEN WEAR WITHIN A WHEEL END

If one pad is worn greater than the other it is a sign of sticking brake caliper guide pins. This can cause brake pull and will accelerate pad wear as well as forcing more heat into one side of the brake disc. If this problem occurs it is important to service the caliper and replace worn parts as required.



GLAZING

A glazed brake pad will have a reflective surface. This is a sign of excessive operating temperatures or harsh braking during the bedding in process. If the braking performance is impaired then the pads must be replaced.



Thos. Winnard & Sons Ltd

Mangham Road Rotherham South Yorkshire England S62 6EF
Telephone Export Sales +44 (0)1709 712002 Fax +44 (0)1709 712001
E: sales@winnard.co.uk