Abex®

AB803

JUNE 2013
JUIN 2013
JUNIO 2013

AIR DISC BRAKE PADS
PLAQUETTES DE FREIN À DISQUE PNEUMATIQUE
PASTILLAS DE FRENOS DE DISCO NEUMÁTICOS

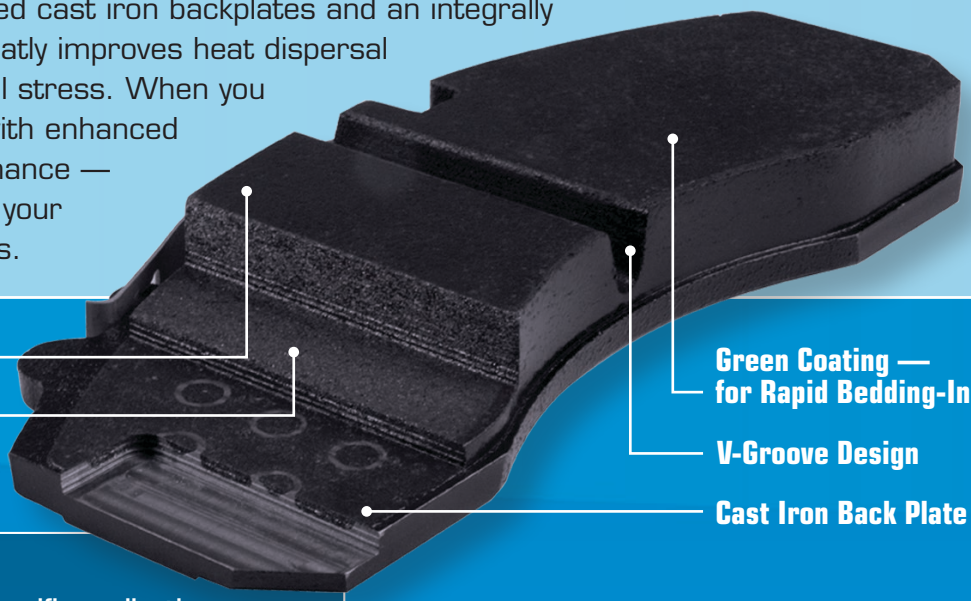
FEDERAL MOGUL

Abex® Air Disc Brake Pads

The Ideal Choice for Outstanding Braking Performance.

Modern CV air brake systems generate enormous frictional forces and stresses during operation — far in excess of those present in hydraulic systems. That's why you need a CV brake pad specifically formulated for air brake applications.

Abex air brake pads have patented cast iron backplates and an integrally molded V-grove design which greatly improves heat dispersal and eliminates excessive material stress. When you need a brake that stops faster with enhanced durability for long lasting performance — Abex is the ideal choice for all of your commercial vehicle braking needs.

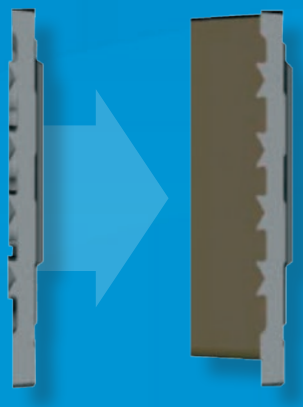


- Global leader in OE applications
- Friction materials engineered for specific applications
- Compatible with ABS/ESP systems
- Safe and reliable
- High performance under most temperatures and conditions
- Reduces downtime
- Extended life and reduced rotor wear
- Includes complete hardware kit
- Meets R90 European Standards

New patented cast iron backplate technology for safer and more efficient braking performance

- Utilizes the latest advances in proprietary back plate cast iron technology
- Lighter than standard backplates
- Secure bond between pad material and backplate with less risk of corrosion

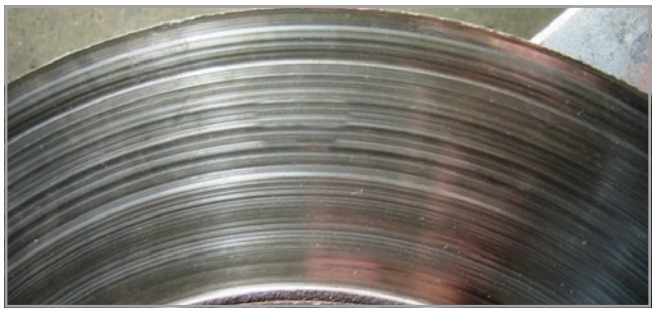
Secure Bond with Backing Plate



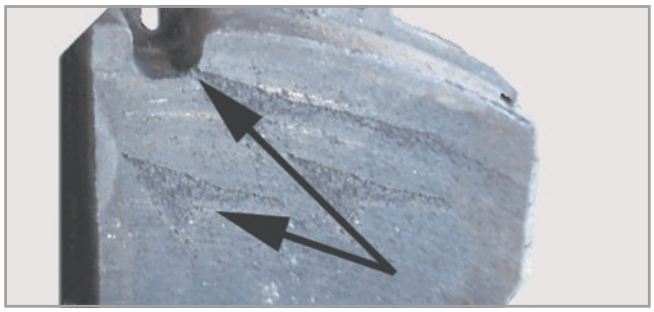
The Future of CV Brake Technology.

CV Trouble Shooter
Brake Pads and Rotors

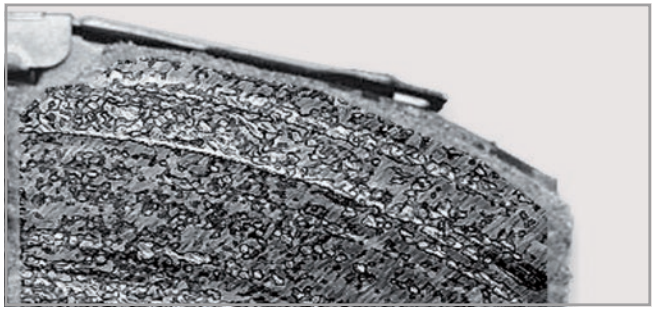
Periodic inspection of the braking system is essential. It is recommended that when it is necessary to replace brake rotors it is safe practice to also replace brake pads. Both should always be replaced across the axle.



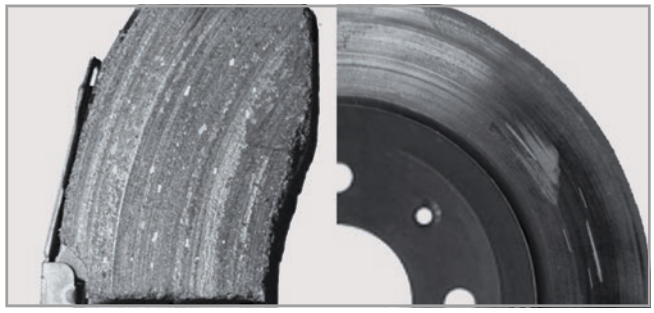
APPEARANCE	Rotor featuring scored surface.
CAUSE	Pads fitted with friction material too harsh for the rotor or new pads assembled on excessively worn out rotors.
EFFECT	Reduction in braking performance and possible imbalance on the affected axle during braking.
REMEDY	• Replace the pads. • Check rotor condition and minimum thickness. If necessary, replace the rotor. • Check for the quality of the spare parts used.



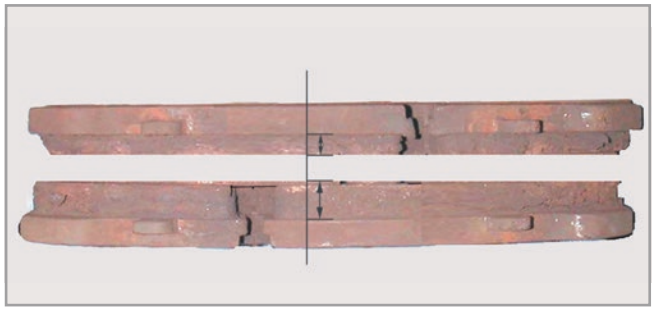
APPEARANCE	Excessively worn out rotors and pads.
CAUSE	Possible contamination of the friction material by sand, mud or earth or incomplete return of the caliper gear.
EFFECT	Excessive wear of one or more brake pads, resulting in damage where the pad has not been fitted with a wear indicator.
REMEDY	• Replace the pads. • Check rotor condition and minimum thickness. • If necessary, replace both rotors on the axle.



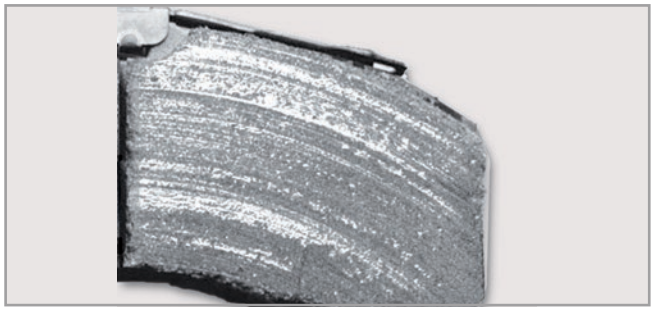
APPEARANCE	Contaminated pad friction material.
CAUSE	Contamination by an oily substance or solvent.
EFFECT	Reduction in braking performance and possible imbalance during braking.
REMEDY	• Replace the pads. • Check the rotors on the axle. • Identify any fluid leaks from the hubs or other nearby components.



APPEARANCE	Friction includes metal pick-up.
CAUSE	High temperature generated between brake pad and rotor in wet conditions.
EFFECT	Wear of the affected brake rotor with typical metal rubbing noise during braking.
REMEDY	• Replace the pads. • Check rotor condition and minimum thickness. • If necessary, replace both rotors on the axle.



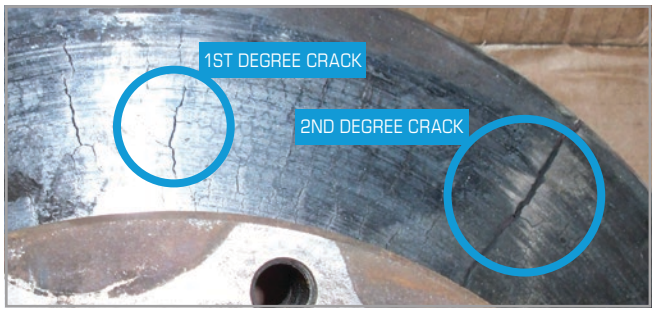
APPEARANCE	Uneven brake pad wear.
CAUSE	One of the calipers has become stuck or does not return correctly to the rest position.
EFFECT	Reduction in braking performance and possible imbalance on the involved axle, during braking.
REMEDY	• Replace the pads. • Brake calipers should be checked.



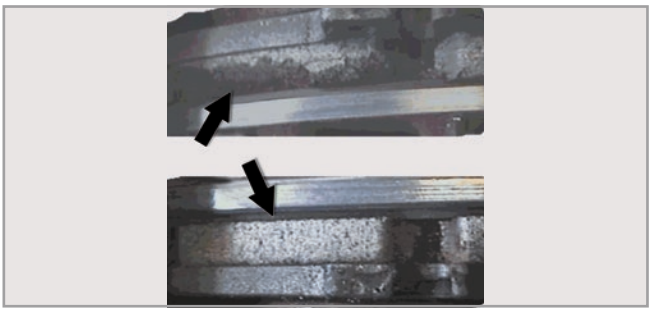
APPEARANCE	Glazed pad friction material.
CAUSE	Very low duty applied on the brakes, i.e. brake applications with low speed and low pressure.
EFFECT	Reduction in braking performance and typical noise (squeal) while braking.
REMEDY	• If glazing is not too heavy can try to recondition the surface by some mileage of medium/hard brake duty, otherwise replace the pads. • Check the rotor condition and minimum thickness.

CV Trouble Shooter
Brake Pads and Rotors

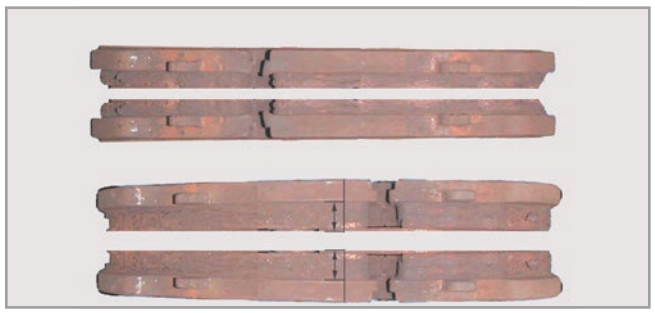
Periodic inspection of the braking system is essential. It is recommended that when it is necessary to replace brake rotors it is safe practice to also replace brake pads. Both should always be replaced across the axle.



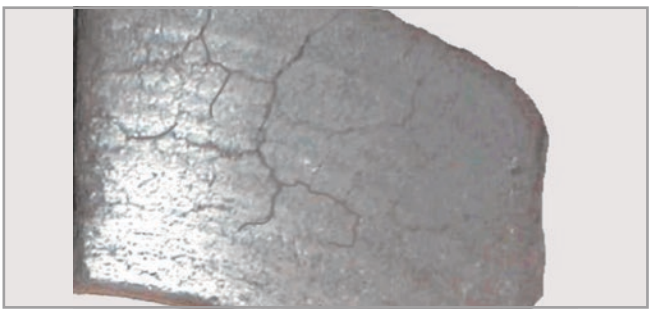
APPEARANCE	Rotor surface features 1st and 2nd degree crack.
CAUSE	Too intensive use of brakes due to the track features or to the carried load.
EFFECT	Possible unexpected rotor mechanical collapse, particularly with 2nd degree crack.
REMEDY	• Immediate replacement of brake rotors and pads, particularly with 2nd degree crack, when one of the cracks is travelling from OD to ID. • Brake calipers should be checked.



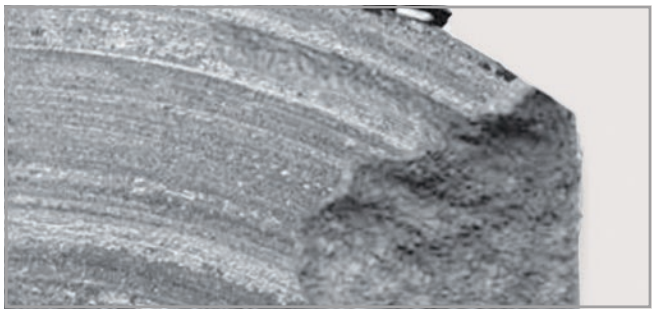
APPEARANCE	Damaged edges to the friction material (edge-crumbling).
CAUSE	Brake pad has become stuck in the caliper. The parts used do not comply with the correct sizes and specifications.
EFFECT	Early pad deterioration and uneven rotor wear.
REMEDY	• Replace the pads. • Check for correct caliper operation. • Check rotor condition and minimum thickness. • If necessary, replace both rotors on the axle.



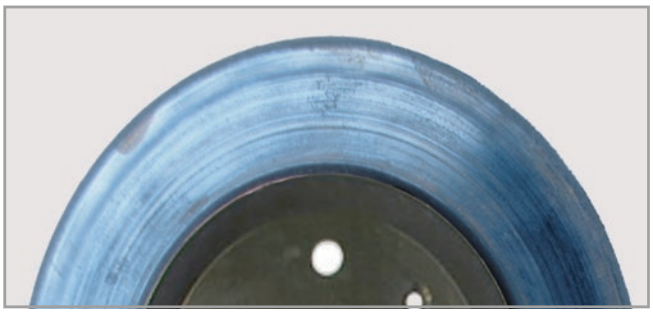
APPEARANCE	Pads on the same axle featuring uneven wear.
CAUSE	Incorrect return of one caliper on the same axle.
EFFECT	If the axle involved is the directional one, this fault may result in vehicle instability during brake release.
REMEDY	• Replace the pads. • Check for the proper caliper operation. • Check rotor condition and minimum thickness. • If necessary, replace both rotors on the axle.



APPEARANCE	Pad with surface cracks.
CAUSE	Excessive load or high friction material temperature.
EFFECT	Possible detachment of friction material resulting in a reduction in braking performance.
REMEDY	• Replace the pads. • Check for correct caliper operation. • Check rotor condition and minimum thickness. • If necessary, replace both rotors on the axle.

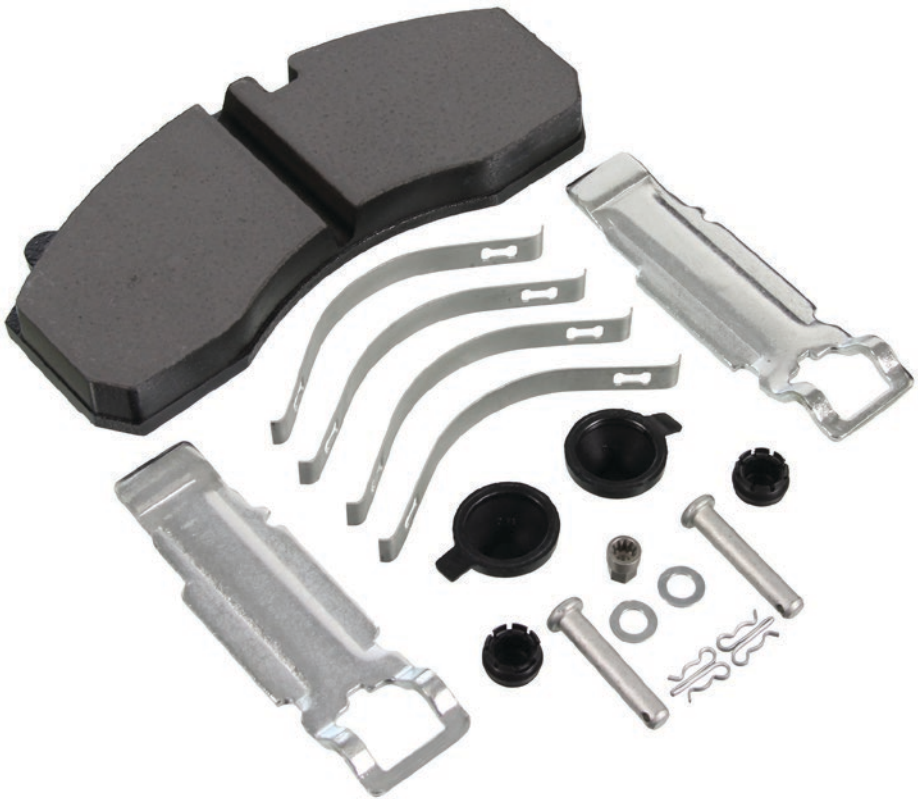


APPEARANCE	Detached friction material.
CAUSE	Possible excessive load or heavy braking, along with the choice of unsuitable parts.
EFFECT	Reduction in braking performance and typical noise (squeal) while braking.
REMEDY	• Replace the pads. • Check the rotor condition and minimum thickness. • Despite having a wear indicator, it is necessary to check the pad condition during normal brake inspection and/or every six months.

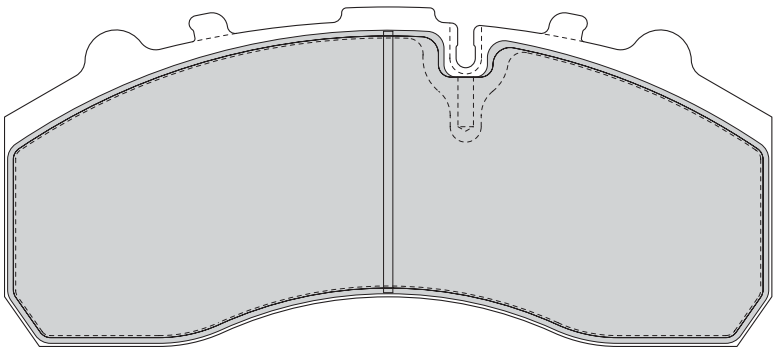


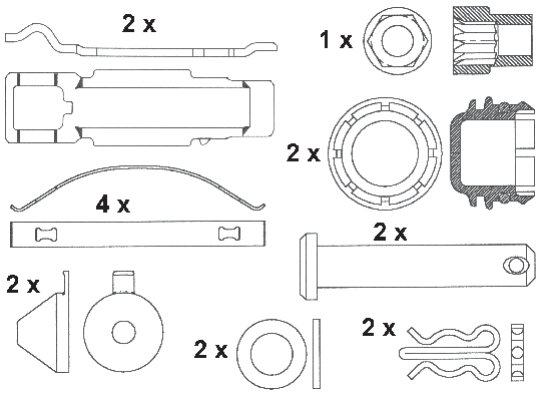
APPEARANCE	Blue stripes on the rotor indicating a physical change due to overheating.
CAUSE	Intensive use of brakes for prolonged braking or improper downhill braking.
EFFECT	Brake rotor overheating which may result in contact surface distortion and cracks.
REMEDY	• Immediate replacement of brake rotors and pads. • During the first 150 miles after replacement, sharp braking should be avoided in order to allow for the correct bedding-in of the newly fitted components.

ADB1203FE



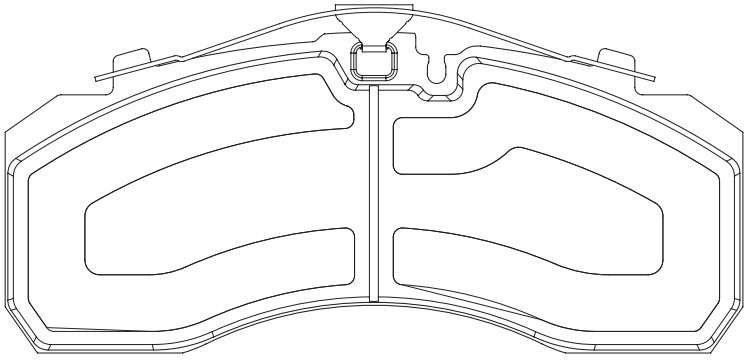
Brake Pad:	ADB1203FE
Type:	Knorr SB/SN7
Applications:	City Bus
X-ref:	5013257
FMSI:	8323-D1203
WVA:	29179
Material:	4567
Comments:	Includes OE style Hardware Kit

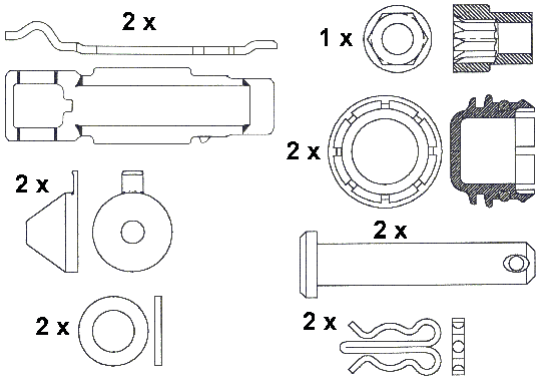




ADB1203AFE

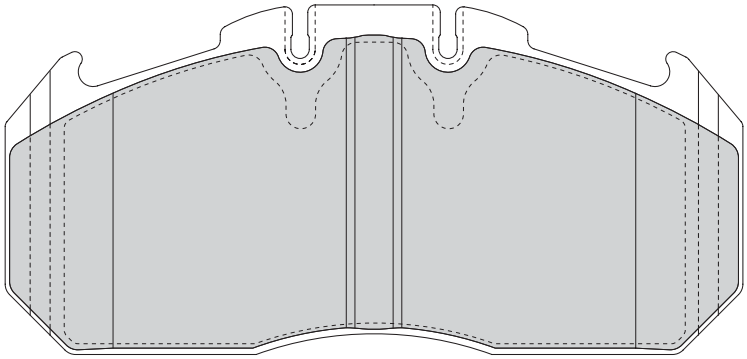
Brake Pad:	ADB1203AFE
Type:	Knorr SB/SN7
Applications:	Over-the-Road Coach
X-ref:	5013257 1138162F
FMSI:	8323-D1203
WVA:	29179
Material:	4550
Comments:	Includes OE style Hardware Kit

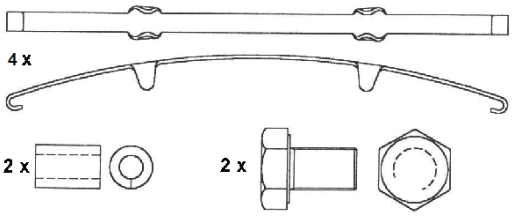




ADB1310FE

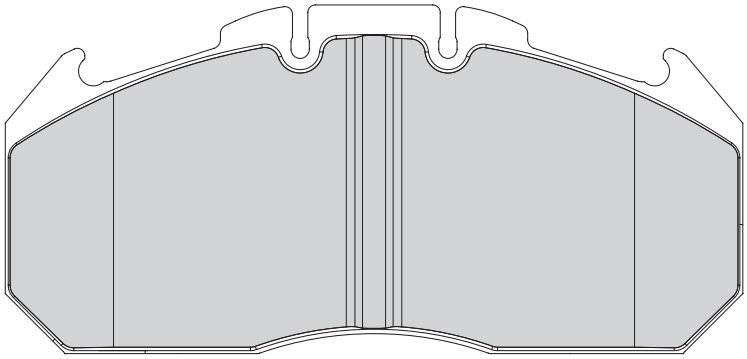
Brake Pad:	ADB1310FE
Type:	Meritor D-Elsa 2
Applications:	City Bus
X-ref:	MDP5097 N508206052
FMSI:	8425-D1310
WVA:	29156
Material:	4567
Comments:	Includes OE style Hardware Kit

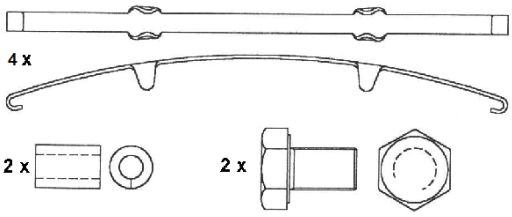




ADB1310AFE

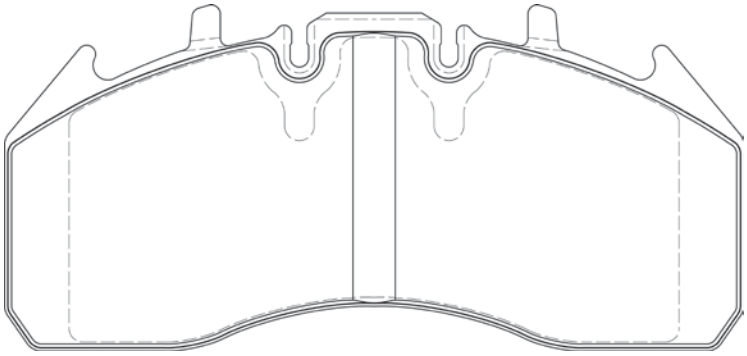
Brake Pad:	ADB1310AFE
Type:	Meritor D-Elsa 2
Applications:	Over-the-Road Coach
X-ref:	MDP5060 N508206051
FMSI:	8425-D1310
WVA:	29156
Material:	4568
Comments:	Includes OE style Hardware Kit

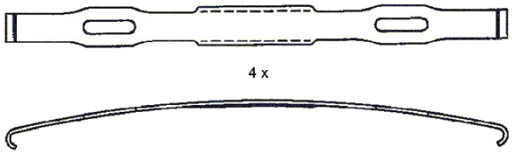




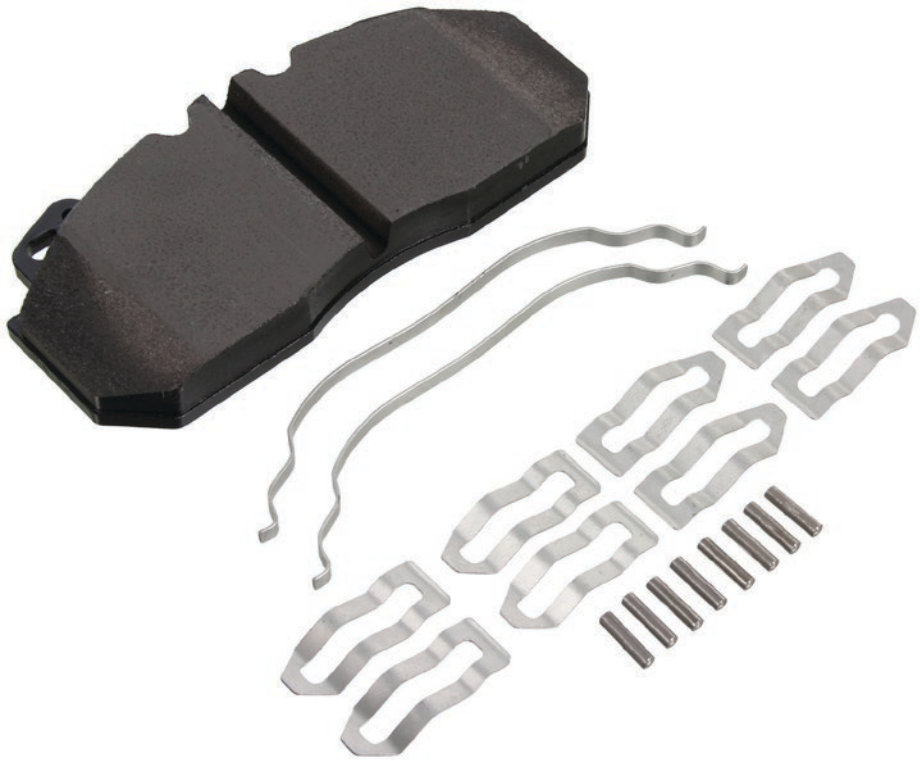
ADB1311

Brake Pad:	ADB1311
Type:	Meritor EX225H2
Applications:	Bus and Coach
X-ref:	Meritor KIT2252H2CD MCI #04-01-1113
FMSI:	8426-D1311
WVA:	29187
Material:	4576
Comments:	Includes OE style Hardware Kit

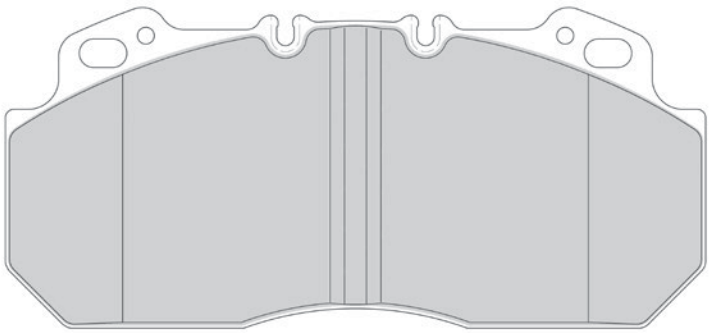


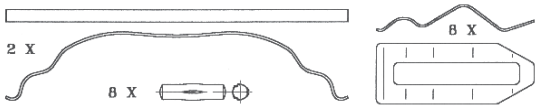


ADB1312

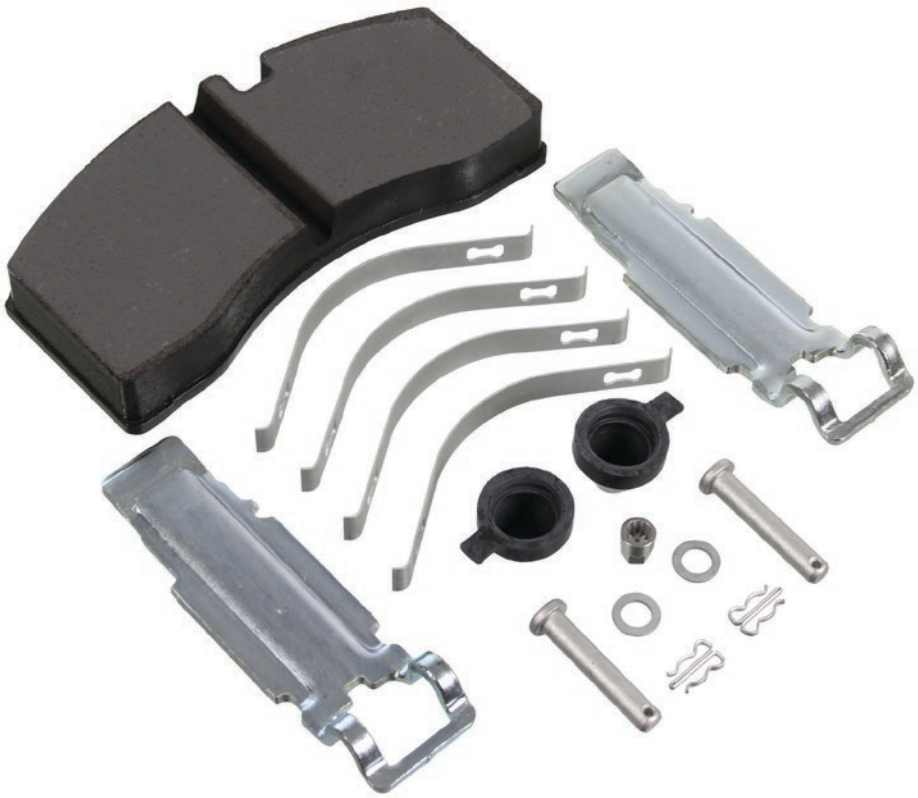


Brake Pad:	ADB1312
Type:	Meritor D-Lisa
Applications:	City Bus
X-ref:	68932068NZP
FMSI:	8427-D1312
WVA:	29090
Material:	4567
Comments:	Includes OE style Hardware Kit

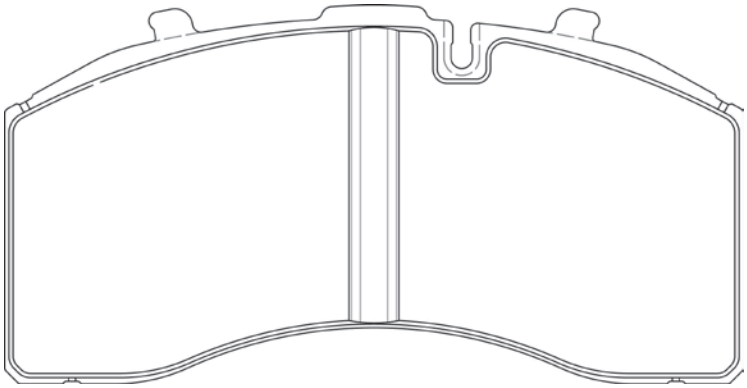


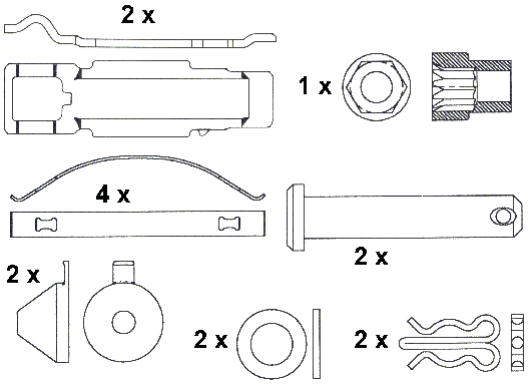


ADB1369



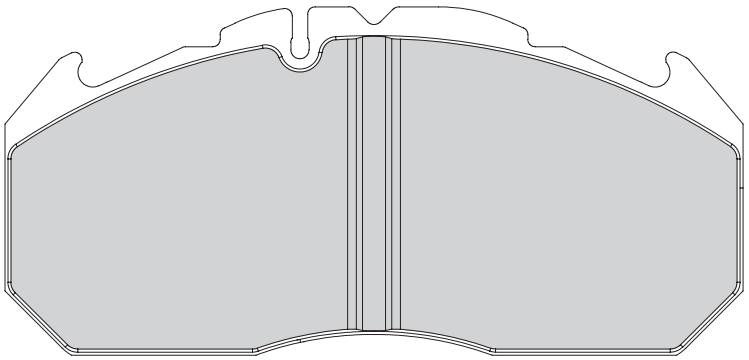
Brake Pad:	ADB1369
Type:	Bendix® ADB22XTM™ Knorr SK7
Applications:	SAF Tractor-Trailer
X-ref:	802078, K070796
FMSI:	8479-D1369
WVA:	29158
Material:	4550
Comments:	Includes OE style Hardware Kit

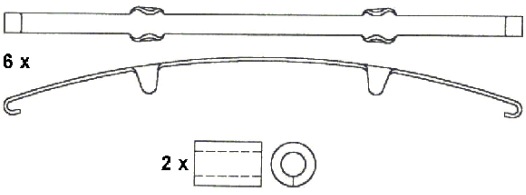




ADB1407FE

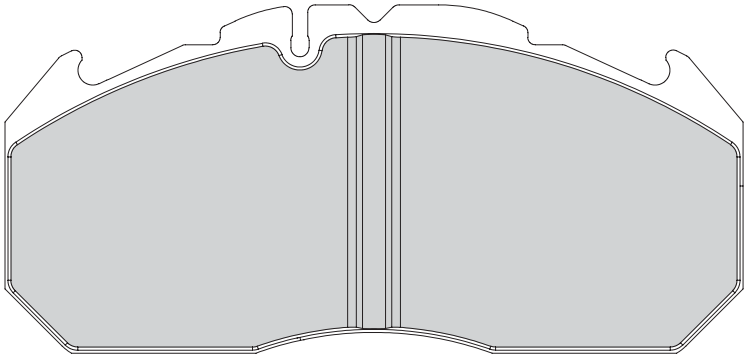
Brake Pad:	ADB1407FE
Type:	Meritor D3/D-Elsa1
Applications:	City Bus
X-ref:	MDP5065
FMSI:	8515-D1407
WVA:	29210
Material:	4567
Comments:	Includes OE style Hardware Kit

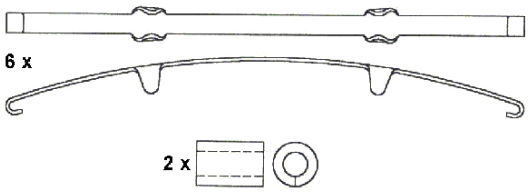




ADB1407AFE

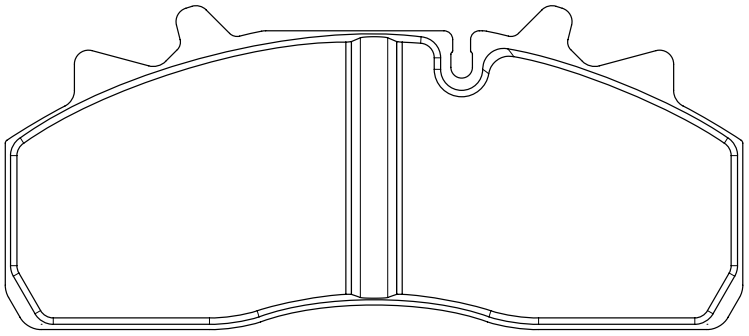
Brake Pad:	ADB1407AFE
Type:	Meritor D3/D-Elsa1
Applications:	Over-the-Road-Coach
X-ref:	MDP5038
FMSI:	8515-D1407
WVA:	29210
Material:	4568
Comments:	Includes OE style Hardware Kit





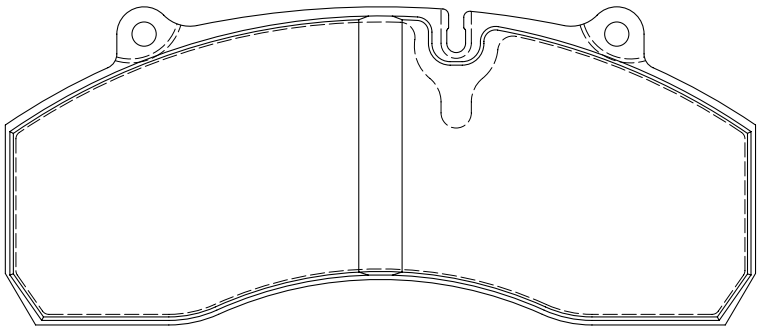
ADB1438

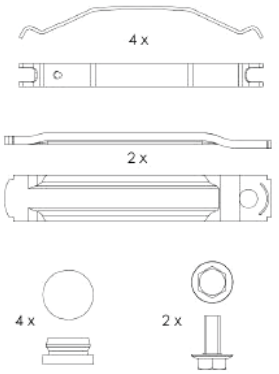
Brake Pad:	ADB1438
Type:	Wabco Pan19-1
X-ref:	12999737VT
FMSI:	8556-D1438
WVA:	29159
Material:	4569
Comments:	No Kit



ADB1441

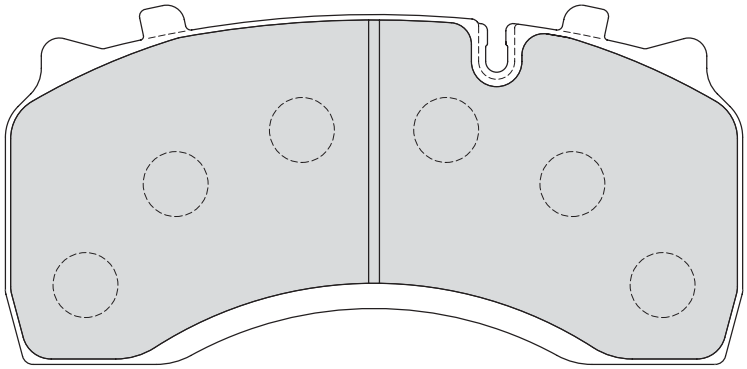
Brake Pad:	ADB1441
Type:	Bendix® ESD-225™
X-ref:	976003
FMSI:	8577-D1441
WVA:	29120
Material:	4550
Comments:	Includes OE style Hardware Kit





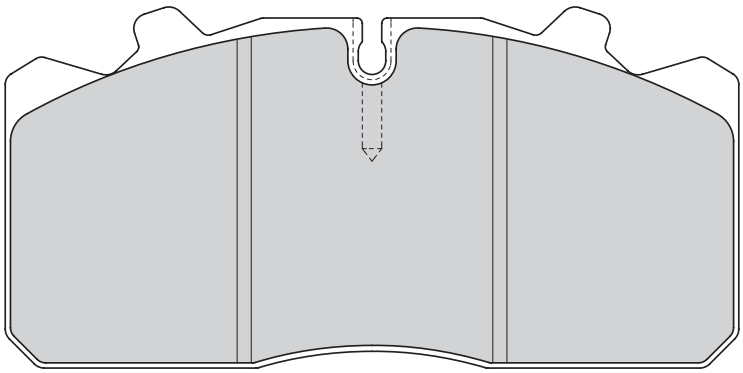
ADB1517

Brake Pad:	ADB1517
Type:	Wabco Pan19-2
X-ref:	12999747VT
FMSI:	8726-D1517
WVA:	29141
Material:	4572
Comments:	No Kit



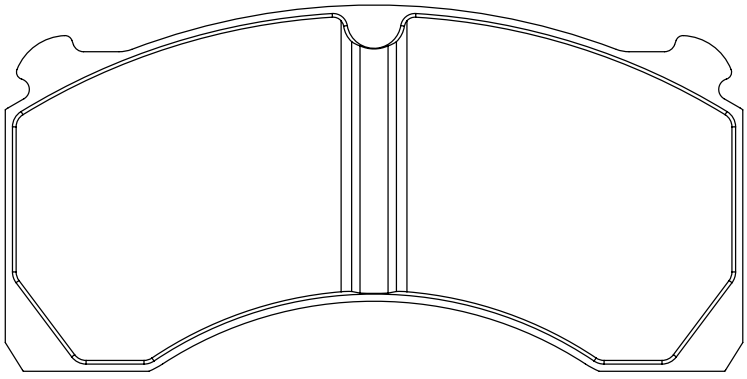
ADB1518

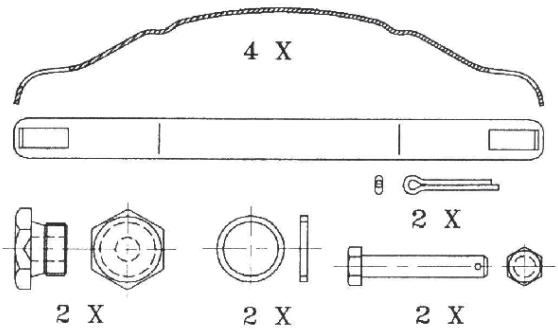
Brake Pad:	ADB1518
Type:	Wabco Pan17
X-ref:	12999703VT
FMSI:	8727-D518
WVA:	29088
Material:	4551
Comments:	No Kit



ADB1525FE

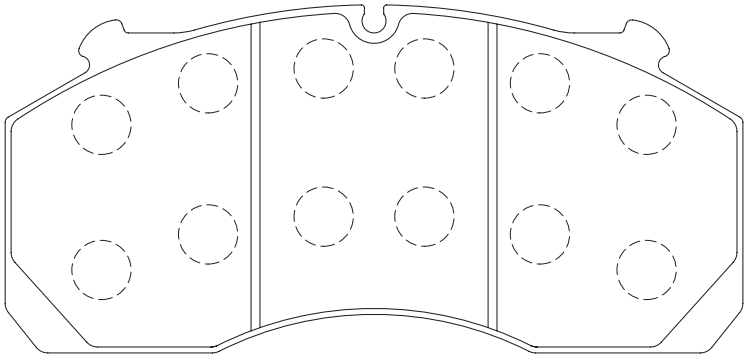
Brake Pad:	ADB1525FE
Type:	Meritor DX195
X-ref:	KIT 195020
FMSI:	8733-D1525
WVA:	29155
Material:	4550
Comments:	Includes OE style Hardware Kit

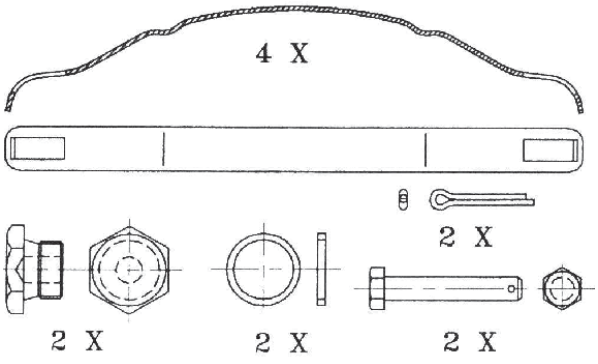




ADB1526

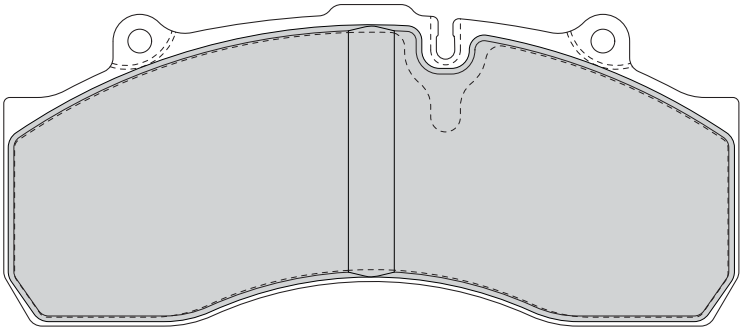
Brake Pad:	ADB1526
Type:	Meritor DX225
X-ref:	KIT225020
FMSI:	8734-D1526
WVA:	29150
Material:	4567
Comments:	Includes OE style Hardware Kit

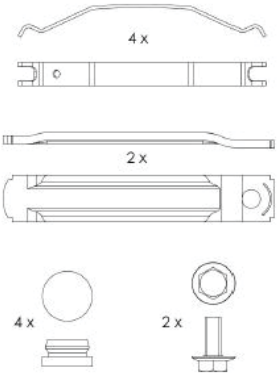




ADB1527

Brake Pad:	ADB1527
Type:	Haldex ModulX® DB22
X-ref:	790-22008
FMSI:	8735-D1527
WVA:	29143
Material:	4550
Comments:	Includes OE style Hardware Kit





Air Disc Brake
Interchange

Competitor	Competitor Part	Abex Part
Prevost	611049	**ADB1203AFE**
Prevost	611049	**ADB1203FE**
Bendix	976003	**ADB1441**
MCI	04-01-1019	**ADB1312**
MCI	04-01-1113	**ADB1311**
Meritor - Wabco	12999703VT	**ADB1518**
Meritor - Wabco	12999737VT	**ADB1438**
Meritor - Wabco	12999747VT	**ADB1517**
Textar	292021	**ADB1203AFE**
Textar	29202-300 1 4 T7400	**ADB1203AFE**
Bendix	5013257	**ADB1203AFE**
Bendix	5013257	**ADB1203FE**
Meritor	68932068NZP	**ADB1312**
Haldex	790-22008	**ADB1527**
Bendix	802078	**ADB1369**
Performance Friction	9175.10	**ADB1407AFE**
Performance Friction	9175.10	**ADB1407FE**
Performance Friction	9178.10	**ADB1203AFE**
Performance Friction	9178.10	**ADB1203FE**
Performance Friction	9183.10	**ADB1312**
Performance Friction	9190.10	**ADB1310AFE**
Performance Friction	9190.10	**ADB1310FE**
Raybestos	ATD1203HD	**ADB1203**
Raybestos	ATD1310HD	**ADB1310**
Raybestos	ATD1310HD	**ADB1310AFE**
Raybestos	ATD1311HD	**ADB1311**
Raybestos	ATD1312HD	**ADB1312**
Raybestos	ATD1369HD	**ADB1369**
Raybestos	ATD1407HD	**ADB1407**
Raybestos	ATD1407HD	**ADB1407AFE**
Bendix	ADB22X	**ADB1369**
Marathon	CBP-HDX01	**ADB1310AFE**
Marathon	CBP-HDX01	**ADB1310FE**

Competitor	Competitor Part	Abex Part
Marathon	CBP-MTR225	**ADB1311**
Marathon	CBP-PRV01	**ADB1203AFE**
Marathon	CBP-PRV01	**ADB1203FE**
Marathon	CBP-RN01	**ADB1312**
Fritec	CFD-F120	**ADB1312**
Fritec	CFD-F280	**ADB1311**
Bendix	KO70796	**ADB1369**
Meritor	KIT195020	**ADB1525FE**
Meritor	KIT225020	**ADB1526**
Meritor	KIT2252H2CD	**ADB1311**
Meritor	MDP5019	**ADB1312**
Meritor	MDP5038	**ADB1407AFE**
Meritor	MDP5042	**ADB1312**
Meritor	MDP5060	**ADB1310AFE**
Meritor	MDP5061	**ADB1312**
Meritor	MDP5065	**ADB1407FE**
Meritor	MDP5097	**ADB1310FE**
Van Hool	N508206044	**ADB1407FE**
Van Hool	N508206046	**ADB1407AFE**
Van Hool	N508206051	**ADB1310AFE**
Van Hool	N508206052	**ADB1310FE**
WVA	29179	**ADB1203AFE**
WVA	29179	**ADB1203FE**
WVA	29158	**ADB1369**
WVA	29120	**ADB1441**
WVA	29143	**ADB1527**
WVA	29210	**ADB1407AFE**
WVA	29210	**ADB1407FE**
WVA	29156	**ADB1310AFE**
WVA	29156	**ADB1310FE**
WVA	29187	**ADB1311**
WVA	29090	**ADB1312**
WVA	29155	**ADB1525FE**
WVA	29150	**ADB1526**
WVA	29088	**ADB1518**
WVA	29159	**ADB1438**
WVA	29141	**ADB1517**

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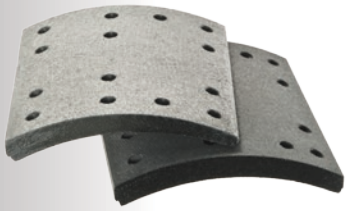

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