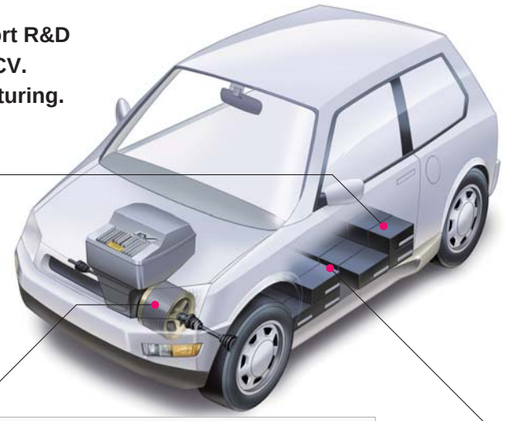
Examples of EV/HEV/FCV

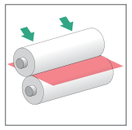
PRESCALE will provide an opportunity to support R&D and production processes for EV, HEV/PHEV, FCV. Contributes to higher quality and safer manufacturing.



Li-ion battery

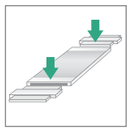
Contact condition | Nip pressure

- Measure nip pressure of coating machine for electrode

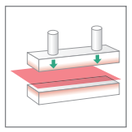


- Check contact condition of stacking machine for cathode, anode and separator

- Test contact condition of tab welding machine



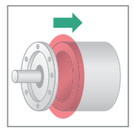
- Adjustment of heat sealing machines for aluminum lamination film



Motor

Tightning pressure | Contact condition

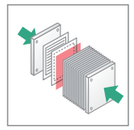
- Tightening pressure in assembling
- Verify contact conditions for polishing magnets

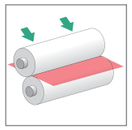


Fuel cell

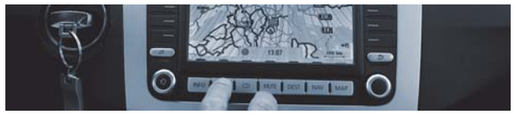
Tightning pressure | Nip pressure

- Uniformity of cell stack
- Flatness of separators
- Adhesive pressure of electrolyte membrane lamination





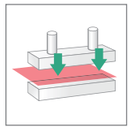
Examples of car electronics



Car navigation/In-console

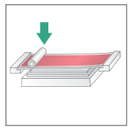
Contact condition

- Test contact conditions of ACF bonding machine for LCD panel or touch panel



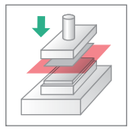
Nip pressure

- Check roller pressure uniformity when attaching cover glass or OCA to touch panel



Contact condition

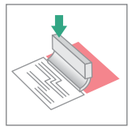
- Analyze uniformity of assembly jig pressure for touch panel or LCD
- Analyze uniformity of UV-curable Resin-based Laminating Systems



PCB/Ceramic devices

Squeegee pressure

- Measure squeegee pressure distribution during cream solder printing

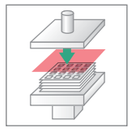


Nip pressure

- Measure adhesive pressure of DFR lamination

Contact condition

- Check mold contact evenness and pressure uniformity of stacking machines



http://www.fujifilm.com/products/prescale/guide/index.html

*Note that the specifications and performance data described in this catalog are subject to change without notice for the purpose of improvement. Since the images provided are used for illustration purposes, they may differ slightly from actual products.

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http://www.fujifilm.com/products/prescale/

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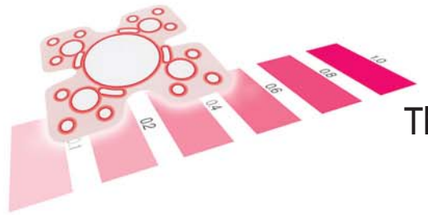
PRESCALE

Pressure Measurement Film

PRESCALE

Application examples for Automobiles



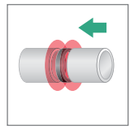
The only film in the world for visualizing pressure
Widely support R&D or production process for automobiles

Examples of engine compartment

Gasket/O-ring

Tightning pressure

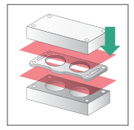
- Check sealing performance of gaskets, seals and O-rings



Cylinder head gasket

Tightning pressure

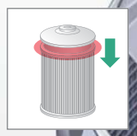
- Inspect sealing performance of cylinder head gaskets
  (Included in JISD3105)



Air filter/Oil filter

Contact condition

- Observe contact conditions when attaching filter parts



Die casting

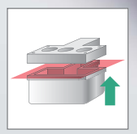
Contact condition

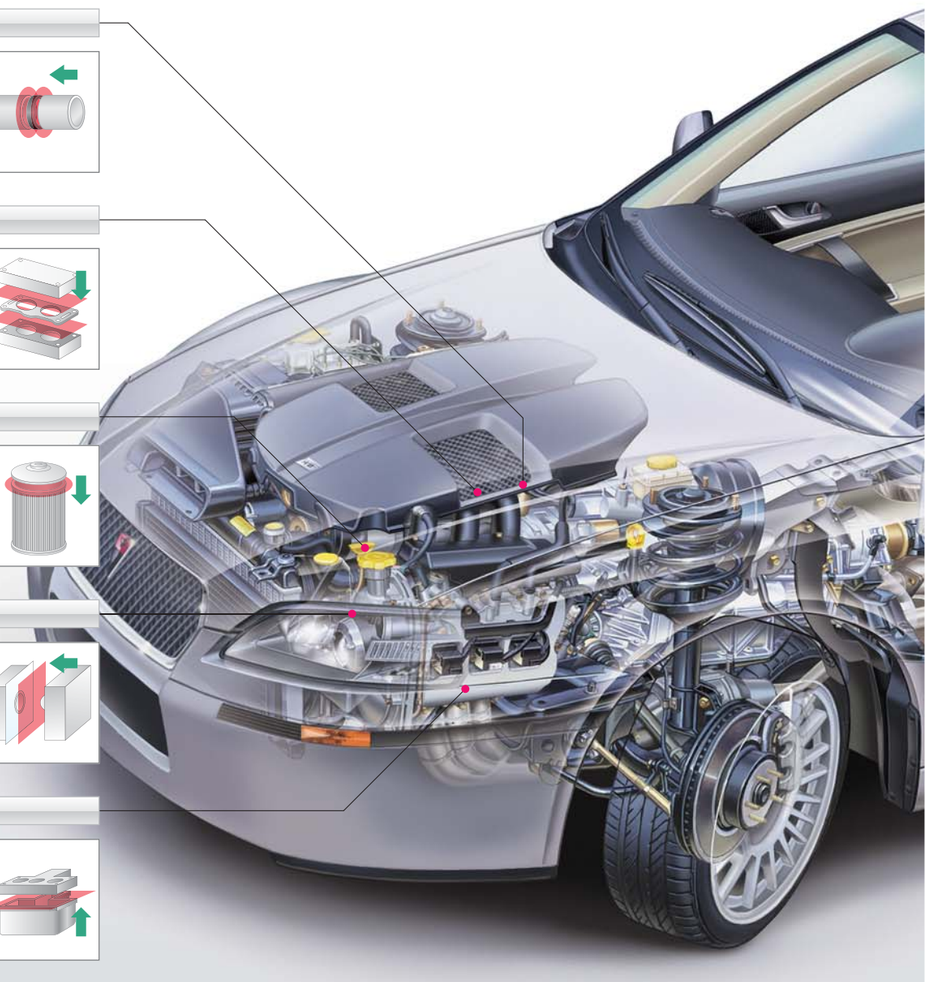
- Verify contact condition of molds
- Verify form of die casting by inserting between molds and die cast

Oilpan

Tightning pressure

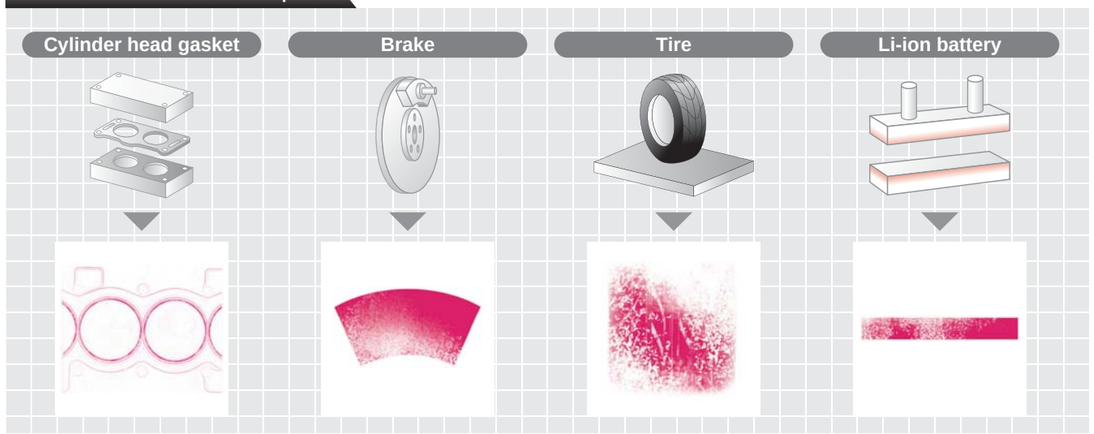
- Confirm sealing performance of oils pans

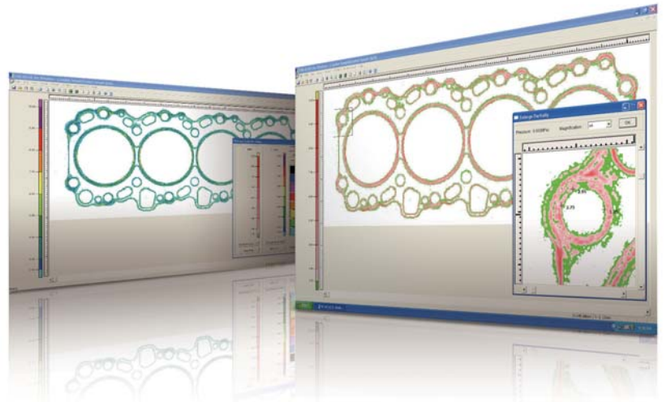




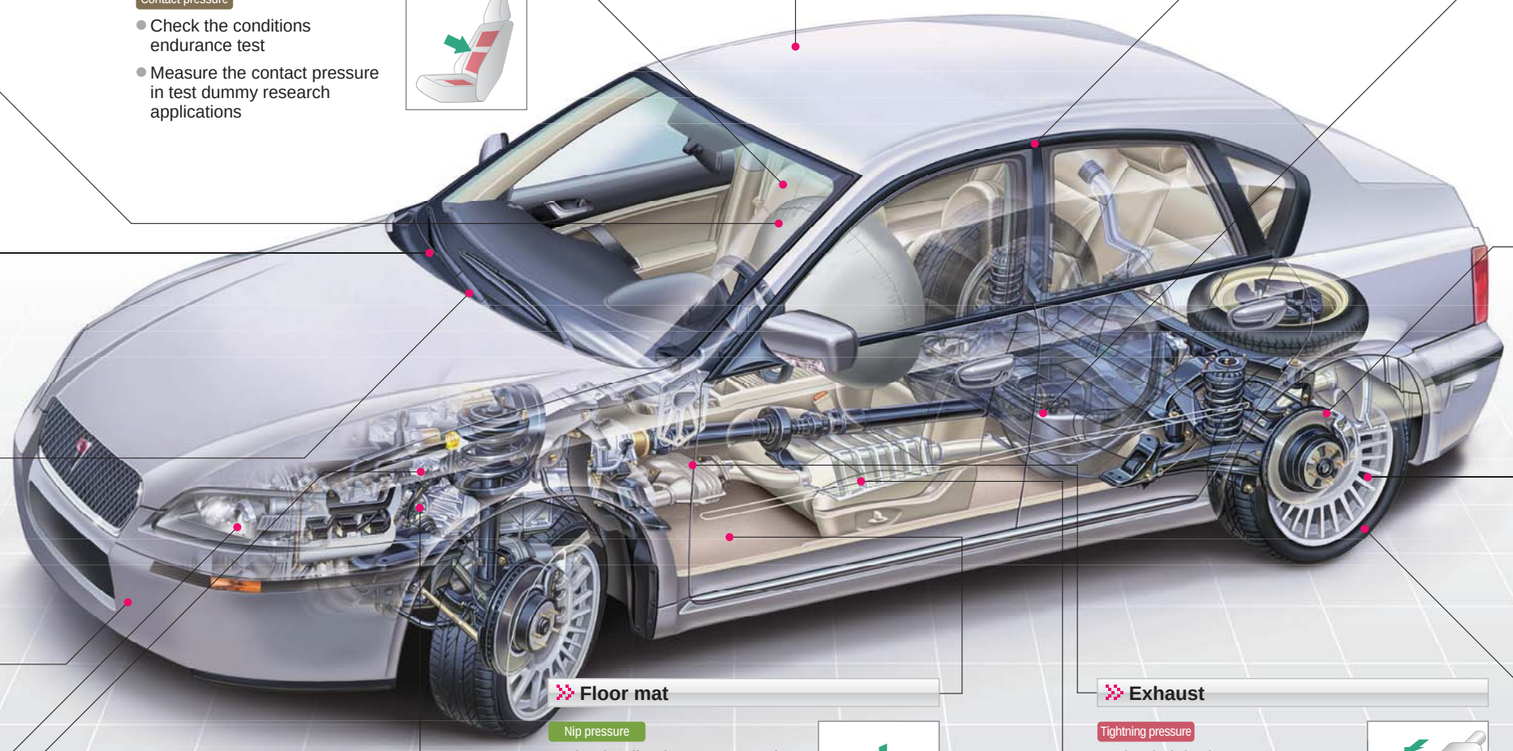
PRESCALE Wide Range of Applications and Measurement Techniques

Measurement results examples





Examples for automobile components



Air bag

Impact pressure

- Evaluate the safety of airbag

Seat

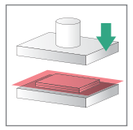
Contact pressure

- Check the conditions endurance test
- Measure the contact pressure in test dummy research applications

Body/Chassis

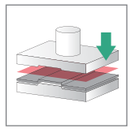
Contact condition

- Adjustment of press machines by measuring contact condition of distance blocks



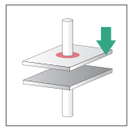
Contact condition

- Verify contact conditions of mold
- Verify the product's from by inserting between molds and body or chassis



Contact condition

- Check contact condition of electrodes in spot welding or projection welding



Door

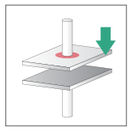
Contact condition

- Validate contact conditions of door weatherstrip

Fuel tank

Contact condition

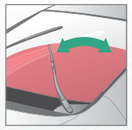
- Check contact condition of electrodes in spot welding or projection welding fuel mater to fuel tank



Wiper

Contact condition

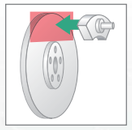
- Test contact conditions and performance of wiper blades against windshield



Brake

Contact condition

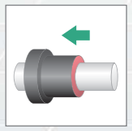
- Measure contact condition of brake pads



Wire harness

Tightning pressure

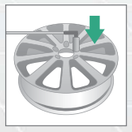
- Check sealing performance of wire harness grommets



Aluminum-wheel

Tightning pressure

- Verify tightening pressure balance attaching aluminum wheel



Plastic parts (Bumper, Dashboard, etc.)

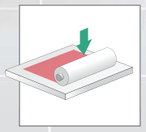
Contact condition

- Verify contact conditions of molds for injection molding machines
- Verify form of moldings by putting between molds and moldings

Floor mat

Nip pressure

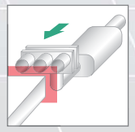
- Check adhesive pressure of floor mat lamination



Exhaust

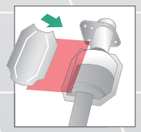
Tightning pressure

- Check tightning pressure between exhaust manifolds and flanges of mufflers



Tightning pressure

- Check tightning pressure of catalytic converter



Tire

Support pressure Nip pressure

- Check the trace in running test
- Check adhesive pressure of laminating rubber

Head lamp

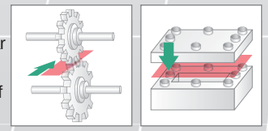
Contact condition

- Check contact conditions when attaching head lamp

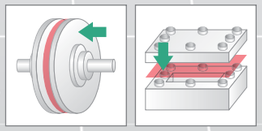
Transmission

Contact condition Tightning pressure

- Test contact condition of gear wheels for transmissions
- Test sealing performance of transmission cover



Clutch

Contact condition

- Measure contact condition of clutch plates
- Measure sealing performance of clutch cover