

FOLLOW THE LEADER

Car buyers are more informed and quality conscious than ever before so measuring the fit and finish of the final assembly is imperative. LMI implemented a final line measurement system and inspection station for a major automotive manufacturer. The system utilized the LMI 241-FG Flush and Gap Gauge to verify the fit and finish of all the body panels coming off the assembly line. Out of spec flush and gap, as well as "A" and "V" gap conditions between the panels were flagged and corrected prior to shipping to the customer. Major cost savings and higher quality were realized through the implementation.

241 ▶ BWV2 ▶ FG SERIES Non-Marring Flush & Gap Gauge

The pilot assembly plant using the system has been recognized for two consecutive years by **J.D. Powers & Associates** with the **Gold Plant Quality Award** for the fewest defects.

All of the manufacturer's other assembly plants have since followed the lead of the flagship plant and have implemented the same end-of-line inspection system.



LMI[®]
Linear Measurement Instruments, Corp.

24J BWV2
FG
SERIES
Non-Marring Flush
& Gap Gauge

Features:

- ▶ Checks Flush and Gap simultaneously
- ▶ Non-marring contact feet and locating fingers
- ▶ Non-marring extension pad with recessed magnets
- ▶ Flush measurements taken from a consistent distance from the edge of gap
- ▶ Blade or point tip
- ▶ A variety of stock non-marring finger lengths; also available in steel
- ▶ Durable construction
- ▶ SPC data can be collected quickly and accurately with most data collectors
- ▶ Solid state electronics resist shock, dust and transformer EMI/RFI
- ▶ MADE IN THE U.S.A.

Optional Features:

- ▶ Custom spring force
- ▶ Custom nominal reference position
- ▶ Custom tips available

Measuring final assemblies in the automotive and aerospace industry is a difficult task that can be made faster, easier, more accurate and more repeatable with the LMI 241-BWV2 Series Flush and Gap Gauge.

The LMI 241-BWV2 and LMI 241-FG Series Flush & Gap Transducers take simultaneous flush and gap dimensional quality checks and can decrease inspection time by 50% or more.

These non-marring gauges use an extension pad with recessed magnets to assist in properly seating the gauge for accurate and repeatable readings.

LMI® 241-BWV2 Series
Non-Marring ▶ Body-In-White Flush & Gap Gauge



These gauges are primarily used for part to part checks where no fixture is present.

Specifications:

- ▶ Construction: Machined aircraft aluminum
- ▶ Travel: 10.0 mm Flush & Gap
- ▶ Spring Force: Gap – 4.5 oz. @ nominal position; Flush – 1.5 oz. @ nominal position



Automotive

Standard Models:

LMI 241-BWV2 Non-Marring Flush & Gap Gauge W/ Non-Marring Fingers/Feet

- ▶ Standard 2.0 mm Minimum Gap
- ▶ Standard 4.0-6.0 mm Non-Marring Fingers
- ▶ Other Optional Finger Lengths Available
- ▶ Non-Marring Feet

LMI 241-BWV2S Flush & Gap Gauge W/ Steel Fingers/Flush Tip & Stainless Steel Feet

- ▶ Standard 1.0 mm Minimum Gap
- ▶ Standard 4.0-6.0 mm Steel Fingers
- ▶ Other Optional Finger Lengths Available
- ▶ Stainless Steel Feet

LMI® 241-FG Series
Non-Marring ▶ Finished Body Flush & Gap Gauge



This complete non-marring unit is especially suited for finished body applications.

Specifications:

- ▶ Construction: Non-Marring Delrin®
- ▶ Standard 2.0 mm Minimum Gap
- ▶ Standard 4.0-6.0 mm Non-Marring Finger Length
- ▶ Other Optional Finger Lengths Available
- ▶ Travel: 10.0 mm Flush & Gap
- ▶ Spring Force: Gap – 4.5 oz. @ nominal position; Flush – 1.5 oz. @ nominal position

Standard Accessory:
LMI 3062 Master Block

- ▶ Sets nominal reference position
- ▶ Certified 3.0 mm gap & 0.0 mm flush master position
- ▶ 6.0 mm gap & 2.0 mm offset flush test position

A variety of options exist for these gauges including non-marring or stainless steel accessories, blade tips, pointed tips, and multiple finger lengths. Special requirements can be manufactured to meet your needs.