

# Ball Joint Transducer

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## Model BJT



- Three-directional transducers measuring vertical, lateral, and fore-aft ball joint forces
- Transducers made using standard production parts
- Designed to be used under normal driving conditions
- Load capacities consistent with those of the production assemblies
- Completely weatherproof

## Description

In addition to our standard transducers, Michigan Scientific has considerable experience in making custom strain gage transducers from a wide variety of stock parts. The goal is to obtain accurate data on the forces experienced by the part, while changing its strength and other characteristics as little as possible. The strain gaged part can be used the same way as a standard part to measure the forces that occur in normal usage. This often requires careful choice of protective coatings to protect the strain gages against exposure to water and other liquids, chemicals, extremes of temperature, and damage from physical contact.

One of the more complex examples of this type of transducer is a *Ball Joint Transducer*. Strain gages are applied on a standard ball joint from a vehicle suspension system in order to measure the orthogonal ball joint forces. The transducer is designed to function reliably in a harsh, real-world environment with only minor changes in the normal configuration and operation of the ball joint. The strength of the production part is not reduced in any way. Therefore, the load capacities of these transducers are identical to those of the standard part.

Michigan Scientific manufactures these transducers (both upper and lower ball joints) for a variety of vehicle suspension systems. All units are completely weatherproof and temperature compensated to ensure stable output throughout a wide temperature range.

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