

# Analog and Digital Instrument Cluster Repair Service

Two-Year Warranty in Parts & Labor. Service completed in 48 hours.

ProgRama, Inc 3500 NW Boca Raton Blvd. # 501-505, Boca Raton, FL 33431 Ph. 800 668-8843, Fx. 561 338-2400

Note: This repair service may also be offered by some of our authorized distributors.

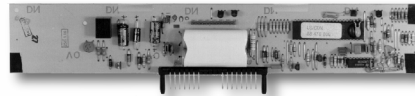
- **BMW E30 (3 Series)**



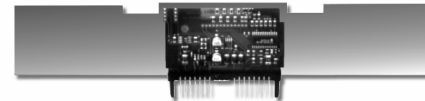
Complete Cluster

## Models produced before January of 1986

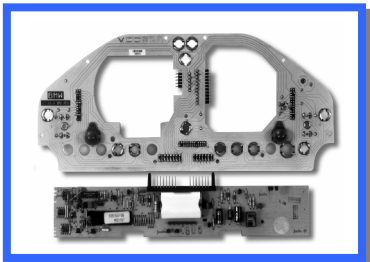
Our repair service consist of replacing both the main service indicator (SI) Board P # 6211 1 394 268 and the conductor plate (P# 6211 1 372 255). For this model, we use our aftermarket “NEW” battery-less version SI Board replacement part # 26801.



Original Battery SI Board



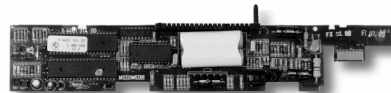
Battery-Less Board made by ProgRama



Conductor Plate + Battery Board

## Models produced after January of 1986

Our repair service consist of replacing both the main service indicator (SI) Board P # 6211 1 385 101 and the conductor plate (P# 6211 1 385 581). Battery-less version is **NOT** available for this model.



Original Battery SI Board. A battery-less replacement is not available for this model.

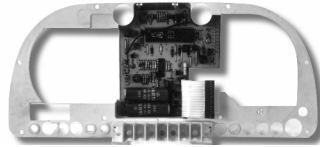
**Attention:** Download our online repair/warranty “Request Form” before shipping your unit for repair. Visit our R&R section at [www.programainc.com](http://www.programainc.com) for more information.

- BMW E23, E24 and E28 (5, 6 and 7 Series)

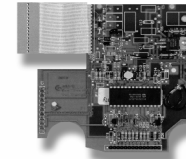


### Models produced before January of 1986

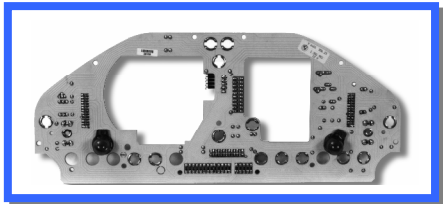
Our repair service consists of replacing both the main service indicator (SI) Board P # 6211 1 394 273 and the conductor plate (P# 6211 1 377 634). For this model, we use our aftermarket “NEW” battery-less version SI-Board replacement part # 27301.



Original Battery SI Board

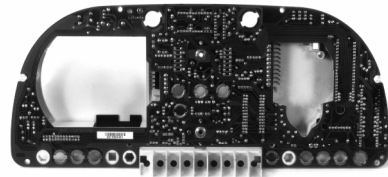


Battery-Less Board made by ProgRama 27301



### Models produced after January of 1986

Our repair service consists of replacing the main service indicator (SI) Board P # 6211 1 385 094. Battery-less version is **NOT** available for this model.



Original Battery SI Board. A battery-less replacement is not available for this model.

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- **BMW E32 and E34 (5 and 6 series)**



Models produced before February 1989

Our service consists of replacing or repairing the existing mother board (P# 6211 1 390 082) and/or conductor plate (P# 62 11 1 378 566).

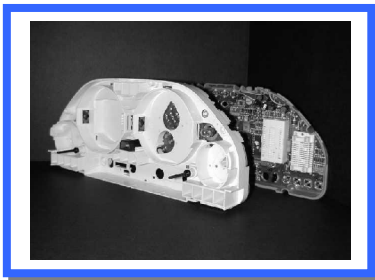
Note: The code-plug located inside plastic housing of the brown female connector (harness).



Models produced from February 1989 to September 1990

Our service consists of replacing or repairing the existing mother board (P# 6211 8 351 576).

Note: The code-plug is located in the back-side of the mother board.



Models produced after September of 1990

Our service consists of repairing/replacing the existing mother board (P# 6211 8 361 554).

Note: The code plug is located in the back-side of the mother board.



Mother board - Front



Mother board - Rear

**Note:**

Vehicle mileage, digital odometer information, SI light status, etc. are stored in a code-plug (a non-volatile memory); meaning that the information will remain stored even if unplugged or disconnected from 12V.

The code plug eliminated the need for batteries used in early models. Models before 1989 have the code plug located inside the **brown connector** of the cluster, later models have it plugged in the backside of the mother board.

The code-plug (at times) could be the cause of failure for some of the functions of the instrument cluster, and it is only available for purchase via authorized BMW retailers. *For a successful bench test of the instrument cluster, it is necessary for the customer to supply the code-plug.*

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- **BMW E36 Instrument Clusters**



### BMW 3-Series E-36 Chassis

Our service consists of repairing the existing mother board to correct any instrument malfunctioning, including digital displays.

- **Mercedes Benz 140 and 129-Chassis**



### 140 and 129 Chassis Models – Analog and Digital Displays

Our service consists of repairing the existing mother board. The repair applies to both **digital and analog** odometer instrument clusters with the two **round connectors** in the back-side.

#### **Common Failures:**

Typical failure begins after attempt to jumpstart the car.

Using the directional signals will cause instrumentation to flash randomly. Other common failures include malfunctioning of the clock or specific gauges. Some times the cluster simply stops working.

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- Mercedes Benz 220 -Chassis

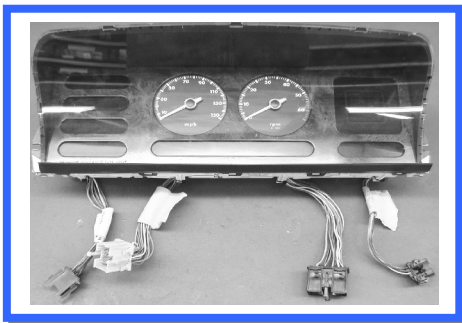


220-Chassis Models S430, S55AMG, S500 & S600

Our service consists of repairing the existing mother board to allow full illumination of the instruments and displays.



- Jaguar Digital/Analog Instrument Clusters



Models XJ40 1988 to 1989 and XJ6 1988 to 1992

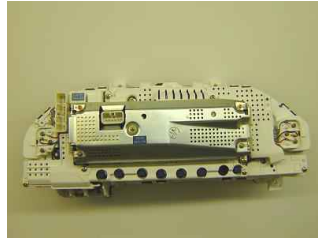
Our service consists of repairing the existing mother board so that all the gauges and digital displays will operate as per OEM specification.



- **Lexus Digital Instrument Clusters**



Instrument Cluster Repair for Lexus LS-400/430  
1990 to 1992



Rear view



Instrument Cluster Repair for Lexus ES-300  
1992 to 1996



Rear view



Once re-assembled, every instrument cluster goes through a fully functional quality control “bench test” that will indicate any instrument failure. Other modules such as digital displays, temperature and gas gauges will also be included during our final quality check.

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