This is a preview of "AIAG CQI-14:2010". Click here to purchase the full version from the ANSI store.



**CQI-14** 

Consumer-Centric Warranty Management
A Guideline for Industry Best Practices
2nd Edition





#### Consumer-Centric Warranty Management Version 2 Issued 03/2010



# ABOUT AIAG

### **Purpose Statement**

Founded in 1982, AIAG is a globally recognized organization where OEMs and suppliers unite to address and resolve issues affecting the worldwide automotive supply chain. AIAG's goals are to reduce cost and complexity through collaboration; improve product quality, health, safety and the environment; and optimize speed to market throughout the supply chain.

## **AIAG Organization**

AIAG is made up of a board of directors, an executive director, executives on loan from member companies, associate directors, a full-time staff, and volunteers serving on project teams. Directors, department managers, and program managers plan, direct and coordinate the association's activities under the direction of the executive director.

### **AIAG Projects**

Volunteer committees focus on business processes or supporting technologies and methodologies. They conduct research and develop, publish, and provide training on standards, conventions, standard business practices, white papers, and guidelines in the areas of automatic identification, CAD/CAM, EDI/electronic commerce, continuous quality improvement, health focus, materials and project management, occupational health and safety, returnable containers and packaging systems, transportation/customs and truck and heavy equipment.

#### AIAG PUBLICATIONS

An AIAG publication reflects a consensus of those substantially concerned with its scope and provisions. An AIAG publication is intended as a guide to aid the manufacturer, the consumer and the general public. The existence of an AIAG publication does not in any respect preclude anyone from manufacturing, marketing, purchasing, or using products, processes, or procedures not conforming to the publication.

#### **CAUTIONARY NOTICE**

AIAG publications are subject to periodic review and users are cautioned to obtain the latest editions.

### MAINTENANCE PROCEDURE

Recognizing that this AIAG publication may not cover all circumstances, AIAG has established a maintenance procedure. Please refer to the Maintenance Request Form at the back of this document to submit a request.

Published by:
Automotive Industry Action Group
26200 Lahser Road, Suite 200
Southfield, Michigan 48033
Phone: (248) 358-3570 • Fax: (248) 358-3253

#### APPROVAL STATUS

The AIAG Quality Steering Committee, the OESA Warranty Management Council and designated stakeholders approved this document for publication in March, 2010.

## AIAG COPYRIGHT AND TRADEMARK NOTICE:

© 2010 Automotive Industry Action Group, except that copyright is not claimed as to any part of an original work prepared by a U.S. or state government officer or employee as part of the person's official duties.

Except as noted above, all rights are reserved by AIAG and no part of these materials may be reproduced, reprinted, stored in a retrieval system, or transmitted, in any form or by any means, electronic, photocopying, recording, or otherwise, without the prior written permission of Automotive Industry Action Group. Copyright infringement is a violation of federal law subject to criminal and civil penalties.

AIAG and Automotive Industry Action Group are registered service marks of the Automotive Industry Action Group. Automotive Industry Action Group makes no claim to any trademark of a third party. Trademarks of third parties included in these materials are the property of their respective owners.

© 2010 Automotive Industry Action Group

ISBN#: 978 1 60534 207 8



# Consumer-Centric Warranty Management Version 2 Issued 03/2010



# ABOUT OESA

### **Purpose Statement**

Founded in 1998, the Original Equipment Suppliers Association (OESA) is a trade group that serves original equipment suppliers in the North American automotive industry. Membership encompasses suppliers of components, systems, modules, materials and equipment used throughout the industry. With over 400 member companies having global annual automotive sales exceeding \$300 billion, OESA represents companies with more than 70 percent of North American automotive supplier sales.

#### **OESA Mission**

OESA advances the business interests of automotive original equipment suppliers by providing a forum to address issues of common interest, serving as a resource for industry information and analysis, promoting the interests of the OE supplier community, and serving as a voice and positive change agent for the industry.

### **OESA Organization**

OESA is operated by a skilled professional staff and management team, including Neil De Koker, founding president and CEO, and is overseen by a board of directors made up of 25 industry leaders selected from the OESA membership. OESA is a market segment association of the Motor and Equipment Manufacturers Association, which leads OESA's lobbying activities in Washington, D.C.

## **OESA Projects**

Each year, OESA hosts numerous industry events and individual town hall meetings with OEM customers. In addition, OESA operates 13 peer group councils, including a Warranty Management Council that addresses commercial and operational issues regarding the reduction of warranty incidents. The council is open to senior executives responsible for warranty at OESA regular member companies. For more information, visit the councils section of http://www.oesa.org or contact John Chalifoux at 248 952 6401 ext. 233 or jchalifoux@oesa.org.

Original Equipment Suppliers Association 1301 W. Long Lake Road, Suite 225 Troy, Michigan 48098 Phone: (248) 952-6401 • Fax: (248) 952-6404 http://www.oesa.org



# Consumer-Centric Warranty Management Version 2 Issued 03/2010



## **FOREWORD**

In December 2006, members of the AIAG Quality Steering Committee and the OESA Warranty Management Council approved an AIAG-OESA Consumer-Centric Warranty Management project. In February 2007, two sub-committees began work on: 1) warranty manual development and 2) No Trouble Found (NTF) reduction strategies.

The defined deliverable for the combined project team was this guideline, *Consumer-Centric Warranty Management: A Guideline for Industry Best Practices*. This guideline, when coupled with applicable customer specific requirements, is intended to be an industry-wide suggested approach for managing warranty processes with the consumer in mind. Best practices were identified and developed based on the collective experiences of team members in the North American, automotive original equipment, light vehicle market. Team members believe these concepts could be applied to other vehicle markets or industries. It is highly recommended that the entire supply chain support the implementation of CQI-14 for the full benefit and improved performance to be realized.

Consumer-Centric Warranty Management: A Guideline for Industry Best Practices has its roots in an OESA document, The Suppliers Practical Guide to Warranty Reduction, published in November 2005. Although the joint project team agreed that the OESA document provided a solid foundation, the team also agreed that greater value could be realized for all industry stakeholders if warranty management was approached from the consumer's point of view. This newer guideline is intended to accomplish that goal. It also includes a visualization of recommended processes and a number of case studies that highlight the guideline's suggested approaches

The project was designed to drive value through increased consumer satisfaction from the implementation of recommended best practices by some or all of the industry stakeholders. The team considered infrastructure and resource challenges necessary to support warranty management throughout the supply chain. Results of implementation may include: warranty incident reduction, reduced warranty costs, increased efficiency of resources, higher consumer loyalty, increased vehicle residual values and a more positive industry image.

With warranty impact receiving high levels of visibility both inside the industry and in the general public, the AIAG Quality Council and the OESA Warranty Management Council determined that self-assessment to this guideline was a highly recommended proactive step required to help in the reduction of warranty incident rates as well as a step needed to strengthen public trust in the automotive industry. Additionally, a more detailed OEM section has been added to this guideline to reflect the steps that the OEM can take to help the supply chain and its own organization address warranty issues more effectively.

Note: Subject material is to be used as a guideline. Requirements are defined by individual OEMs and suppliers. This guideline does not replace or supersede customer specific requirements.



### Consumer-Centric Warranty Management Version 2 Issued 03/2010



# **ACKNOWLEDGEMENTS**

AIAG and OESA appreciate the contributions put forth by the many individuals that shared their ideas, discussed their own practical experiences and reviewed the numerous drafts of this document. Many of the ideas raised by the reviewers have also been incorporated in the text. The following individuals from the joint project team dedicated considerable time and effort to the cause:

Paul AbernathyFederal-Mogul Corporation			
Charles BarnesToyota Motor Engineering and Manufacturing North America, Inc.			
Gregg BrinksChrysler Group LLC			
James BruinChrysler Group LLC			
John ChalifouxOriginal Equipment Suppliers Association			
Joel ColomboGeneral Motors Corporation			
Peter CooneyGeneral Motors Corporation			
Krista CoyMetaldyne Corporation			
Mike Da SilvaMagna International Inc.			
Steven DouglasDENSO International America, Inc.			
Larry DreslinskiMagna International Inc.			
Dennis FroehlichRobert Bosch LLC			
Dale HaganDura Automotive Systems, Inc.			
Kevin KellyContinental Corporation			
Dan KimToyota Motor Engineering and Manufacturing North America, Inc.			
David MimmsToyota Motor Engineering and Manufacturing North America, Inc.			
Dan PaterraBorgWarner, Inc.			
Mike RobertsFord Motor Company			
Dan RocheArvinMeritor, Inc.			
Dave Sakata*Freudenberg-NOK General Partnership			
Craig SellmanDelphi Corporation			
Jan TuckerBosal International North America			
Mary Kay WatsonBrose North America, Inc.			
Frank WhiteGKN Driveline North American, Inc.			
Pamela WyattArvinMeritor, Inc.			

<sup>\*</sup> Chairman



### Consumer-Centric Warranty Management Version 2 Issued 03/2010



# ACKNOWLEDGEMENTS FOR CQI-14, 2<sup>ND</sup> EDITION

AIAG and OESA appreciate the contributions put forth by the many individuals that shared their ideas, their practical experiences and reviewed the numerous drafts of this document. The following individuals dedicated time and effort to the Consumer-Centric Warranty Management Guideline, 1<sup>st</sup> edition:

### **Supporting Members:**

The following individuals dedicated considerable time and effort to writing the Consumer-Centric Warranty Management Guideline, 2nd edition:

### Core Members:

Gregg Brinks	Chrysler Group LLC
Dennis Froehlich	Robert Bosch LLC
Jan Tucker	Bosal International North America
Steven Douglas	DENSO International America, Inc.



## Consumer-Centric Warranty Management Version 2 Issued 03/2010



# **TABLE OF CONTENTS**

ABOUT AIAG	1
ABOUT OESA	2
FOREWORD	3
ACKNOWLEDGEMENTS	4
ACKNOWLEDGEMENTS FOR CQI-14, 2 <sup>ND</sup> EDITION	
TABLE OF CONTENTS	
INTRODUCTION: WHY CONSUMER-CENTRIC WARRANTY MANAGEMENT?	
1. PHASE 1. ESTABLISHING THE BASELINE: INTRODUCTION TO WARRANTY	
1.1 BENCHMARK THE WARRANTY MANAGEMENT PROCESS	
1.2 SENIOR MANAGEMENT	14
1.4 GAIN ACCESS TO APPROPRIATE DATABASES	
1.5 Link Warranty Returned Parts to Data	
1.6 ESTABLISH METRICS WHEN MONITORING AND DISTRIBUTING WARRANTY INFORMATION	
1.7 ESTABLISH ROOT CAUSE METHODOLOGY	
1.8 COMMERCIAL COMMITMENTS	
2. PHASE 2. CONSUMER EVENT AND THE DEALERSHIP ACTIVITIES	19
2.1 Consumer Presents a Concern	19
2.2 DEALER DOCUMENTS THE CONSUMER CONCERN	
2.3 DEALER VALIDATES THE NEED FOR REPAIR AND CONSUMER APPROVAL	
2.4 Dealer Decides to Repair	
2.5 A DECISION IS MADE NOT TO REPAIR UNDER WARRANTY	
2.6 Dealer Facilitates Repair	
2.7 DEALER DOCUMENTS WARRANTY CLAIM	
2.8 DEALER REVIEWS REPAIR WITH CONSUMER	
2.9 CLAIM IS ENTERED INTO OEM WARRANTY SYSTEM	
2.10 RETAIN PARTS REMOVED DURING THE REPAIR	
2.11 RETURN PART UPON REQUEST	
3. PHASE 3. PROACTIVE PREVENTION: LESSONS LEARNED IN PRE-PROGRAM ACTIVITIES	
3.1 Use Past Program Things-Gone-Wrong	
3.2 USE SURROGATE PROGRAMS	
3.3 USE PAST QUALITY PERFORMANCE	
3.4 USE DESIGN AND PROCESS FAILURE MODE AND EFFECTS ANALYSIS (FMEA)	
3.5 USE RELIABILITY, DURABILITY, AND MANAGED CHANGE INFORMATION	
3.6 REVIEW RECALLS AND CAMPAIGNS FROM NHTSA AND/OR OTHER RELEVANT SOURCES	
3.8 Program Risk Factors	
3.9 Supply Chain Activities	
3.10 OEM SUPPLIER TRAINING FOR POTENTIAL NEW SUPPLIERS.	