

# **LABOR-INTENSIVE BATTERY REPLACEMENT**

**The following vehicles require  
“above average, over 30 minutes”  
time and effort to install a  
replacement battery.**

# VEHICLES REQUIRING LABOR-INTENSIVE BATTERY REPLACEMENT

## ALFA ROMEO — AUDI

**IMPORTANT NOTE: BATTERIES CAN EXPLODE!** Always wear safety glasses AND shield eyes when working around batteries. Always check for proper polarity and sufficient terminal clearance BEFORE final installation to avoid dangerous sparks, potential explosion, possible severe personal injury and/or expensive electrical system and/or vehicle/equipment damage or fire.

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>ALFA ROMEO</b>				
<b>8C</b>				
2008	V8 4.7L	{184}	24F	580
<b>ASTON MARTIN</b>				
<b>DB7</b>				
2004-00	V12 6.0L	{1,8,139,213}	48	780
1998-97	L6 3.2L	{1,8,139,213}	48	780
<b>DB9</b>				
2016-05	V12 6.0L	{1,8,257}	49	830
<b>DBS</b>				
2012-08	V12 6.0L	{1,8,139}	49	830
<b>Lagonda</b>				
1989-77	V8 5.3L	{1,8,139}	24	630
<b>One-77</b>				
2011	V12 7.3L	{1,8,257}	49	830
<b>Rapide</b>				
2018-10	V12 6.0L	{1,8,257}	49	830
<b>V-8</b>				
1989	V8 5.3L	{1,8,139}	24	630
<b>V12 Vantage</b>				
2017-15	V12 6.0L	{1,8,257}	49	830
2013-10	V12 6.0L	{1,8,257}	49	830
<b>V8 Vantage</b>				
2017-09	V8 4.7L	{1,8,139}	49	830
2008-06	V8 4.3L	{1,8,139}	49	830
<b>Vanquish</b>				
2017-14	V12 6.0L	{1,8,139}	49	830
2006-01	V12 6.0L	{1,8,139}	49	830
<b>Virage</b>				
2012	V12 6.0L	{1,8,257}	49	830
1994-89	V8 5.3L	{1,8,139}	24	630
<b>AUDI</b>				
<b>A3</b>				
2019-17	L4 1.4L PR-J0V Code	{12,24,50,261,281}	NA	NA
2019-17	L4 1.4L PR-J0H Code	{12,24,50,80,261}	NA	NA
2019-17	L4 1.4L PR-J1D Code	{24,50,261}	48	640
2019-15	L4 1.4L PR-J1P Code	{12,24,50,261}	NA	360
2019-15	L4 1.4L PR-J0S Code	{24,50,261,281}	47	540
2019-15	L4 1.4L PR-J2D Code	{24,50,80,261}	48	680
2018-17	L4 2.0L PR-J1D Code	{1,8,24,50,261}	48	640
2018-17	L4 2.0L PR-J2D Code	{1,8,24,50,80,261}	48	680
2016-15	L4 1.8L PR-J0N, PR-J1L Code	{1,8,24,50,261}	47	540
2016-15	L4 1.8L PR-J2D Code	{1,8,24,50,80,261}	48	680
2016-15	L4 1.4L PR-J0N, PR-J1L Code	{24,50,261}	47	540
2015	L4 2.0L Diesel, PR-J0T Code	{1,24,50,261,281}	48	680
2013-12	L4 2.0L Gas, PR-J0L, PR-J1D Code	{1,8,24,50,261}	48	640
2013-09	L4 1.4L PR-J0L, PR-J1D Code	{1,24,50,261}	48	640
2013-09	L4 1.4L PR-J0T Code	{1,24,50,261,281}	48	680
2013-09	L4 1.4L PR-J2D Code	{1,24,50,80,261}	48	680
2013	L4 2.0L Gas, PR-J2D Code	{1,8,24,50,80,261}	48	680
2012	L4 2.0L Gas, PR-J2D Code	{1,8,24,50,80,139}	48	680
2012	L4 2.0L Diesel, PR-J2D Code	{1,8,24,50,80,261}	48	680
2011-10	L4 2.0L Gas, PR-J0N, PR-J1L Code	{1,8,24,50,261}	47	540
2011-10	L4 2.0L Gas, PR-J2D Code	{1,8,24,50,80,261}	48	680
2009	L4 2.0L PR-J0N, PR-J1L Code	{1,8,24,50,261}	47	540
2009	L4 2.0L PR-J0L, PR-J1D Code	{1,8,24,50,80,261}	48	640
2008-06	L4 2.0L Optional	{1,8,24,50,261}	48	600
2008-06	L4 2.0L Optional	{1,8,24,50,80,261}	48	640
2008	L4 1.4L	{1,24,50,261}	47	540
2005	L4 2.0L	{1,24,50,261}	47	540
<b>A3 Quattro</b>				
2019-15	L4 2.0L PR-J0S Code	{24,50,261,281}	47	540

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>AUDI (Continued)</b>				
<b>A3 Quattro (Continued)</b>				
2019	L4 2.0L PR-J1P Code	{12,24,50,261}	NA	360
2019	L4 2.0L PR-J0V Code	{12,24,50,261,281}	NA	NA
2019	L4 2.0L PR-J0H Code	{12,24,50,80,261}	NA	NA
2019	L4 2.0L PR-J1D Code	{24,50,261}	48	640
2019	L4 2.0L PR-J2D Code	{24,50,80,261}	48	680
2018-17	L4 2.0L PR-J1D Code	{1,8,24,50,261}	48	640
2018-15	L4 2.0L PR-J2D Code	{1,8,24,50,80,261}	48	680
2016-15	L4 2.0L PR-J0N, PR-J1L Code	{1,8,24,50,261}	47	540
2013-09	L4 2.0L PR-J0T Code	{1,24,50,261,281}	48	680
2013-09	L4 2.0L PR-J0L, PR-J1D Code	{1,8,24,50,261}	48	640
2013-09	L4 2.0L PR-J2D Code	{1,8,24,50,80,261}	48	680
2008-06	V6 3.2L	{1,8,24,50,261}	94R	640
2008-06	V6 3.2L Optional	{1,8,24,50,80,261}	48	600
2008-05	L4 2.0L	{1,24,50,261}	47	540
2005	V6 3.2L Optional	{1,24,50,80,261}	94R	800
<b>A3 Sportback e-tron</b>				
2018-16	L4 1.4L Hybrid, PR-J0S Code	{24,50,261,281}	47	540
2018	L4 1.4L Hybrid, PR-J1P Code	{12,24,50,261}	NA	360
2018	L4 1.4L Hybrid, PR-J0V Code	{12,24,50,261,281}	NA	NA
2018	L4 1.4L Hybrid, PR-J0H Code	{12,24,50,80,261}	NA	NA
2018	L4 1.4L Hybrid, PR-J1D Code	{24,50,261}	48	640
2018	L4 1.4L Hybrid, PR-J2D Code	{24,50,80,261}	48	680
2017-16	L4 1.4L Hybrid, PR-J2D Code	{1,8,24,50,80,261}	48	680
2017	L4 1.4L Hybrid, PR-J1D Code	{1,8,24,50,261}	48	640
2016	L4 1.4L Hybrid, PR-J0N, J1L Code	{1,8,24,50,261}	47	540
<b>A4</b>				
2019	L4 2.0L PR-J0K Code	{1,12,24,50,281}	NA	NA
2019	L4 2.0L PR-J0H Code	{1,12,24,50,80}	NA	NA
2019	L4 2.0L PR-J0Z Code	{1,24,50}	95R	850
2019	L4 2.0L PR-J0B Code	{1,24,50,80}	49	850
2019	L4 2.0L PR-J0P Code	{1,8,24,50}	95R	950
2018-17	L4 2.0L PR-J1U Code	{1,8,24,50,139}	49	760
2018-17	L4 2.0L PR-J0Z Code	{1,8,24,46,50}	95R	850
2018-17	L4 2.0L PR-J0P Code	{1,8,24,46,50,80}	95R	950
2018-16	L4 2.0L PR-JE4 Code	{139,281}	49	850
2018-09	L4 2.0L PR-J0B Code	{1,8,24,50,80,139}	49	850
2018	L4 2.0L PR-0K0,0K4 Code	{1,8,24,50,80}	48	680
2017	L4 2.0L PR-J0H Code	{46}	NA	NA
2016-09	L4 1.8L PR-J0B Code	{1,24,50,80,139}	49	850
2016	L4 1.8L PR-J0K Code	{1,12,24,50,281}	NA	NA
2016	L4 1.8L PR-J0H Code	{1,12,24,50,80}	NA	NA
2016	L4 1.8L PR-J0Z Code	{1,24,50,139}	95R	850
2016	L4 2.0L PR-J0Z Code	{1,8,24,50,139}	95R	850
2015-13	L4 1.8L PR-J0L Code	{1,24,50,139}	48	570
2015-13	L4 2.0L PR-J0L Code	{1,8,24,50,139}	48	570
2012-09	L4 1.8L PR-J0R Code	{1,24,50,139}	94R	640
2012-09	L4 2.0L PR-J0R Code	{1,8,24,50,139}	94R	640
2008-07	L4 1.8L	{1,24,50,261}	94R	640
2008	L4 2.0L PR-J0R Code	{1,8,24,50,261}	94R	640
2007	L4 2.0L Optional	{1,8,24,50,261}	49	760
2006-02	L4 1.8L Optional	{1,8,24,50,261}	49	760
2001-98	L4 1.8L Optional	{1,8,24,50,261}	94R	640
1998	V6 2.8L Optional	{1,24,50,261}	47	540
1997	L4 1.8L Optional	{1,8,24,50,261}	47	540
1996	V6 2.8L Optional	{1,8,24,50,261}	94R	640
<b>A4 Quattro</b>				
2019	L4 2.0L PR-J0K Code	{1,12,24,50,281}	NA	NA
2019	L4 2.0L PR-J0H Code	{1,12,24,50,80}	NA	NA
2019	L4 2.0L PR-J0Z Code	{1,24,46,50}	95R	850
2019	L4 2.0L PR-J0B Code	{1,24,46,50,80}	49	850
2018-17	L4 2.0L PR-JE4 Code	{1,12,24,50,281}	NA	NA

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YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F	YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>AUDI (Continued)</b>					<b>AUDI (Continued)</b>				
<b>A4 Quattro (Continued)</b>					<b>A5 Quattro (Continued)</b>				
2018-17	L4 2.0L PR-J2D,0K0,0K2,0K4 Code	{1,24,46,50,80}	48	680	2011	V6 3.2L PR-JOB Code	{1,24,50,80,139}	49	850
2018-16	L4 2.0L PR-JOB Code	{1,8,24,46,50,80}	49	850	2009-08	V6 3.2L PR-JOR Code	{1,8,24,50,139}	94R	640
2018	L4 2.0L Gas, PR-J0N, PR-J1L Code	{1,8,24,46,50}	47	540	<b>A5 Sportback</b>				
2017-16	L4 2.0L PR-J0L Code	{1,8,24,46,50}	48	570	2019-18	L4 2.0L PR-J0H Code	{1,12,24,50,80}	NA	NA
2016	L4 2.0L PR-J2D,0K0,0K2,0K4 Code	{1,24,50,80}	48	680	2019-18	L4 2.0L PR-J1U Code	{1,24,50,139}	49	760
2016	L4 2.0L PR-J0H Code	{12,46}	NA	NA	2019	L4 2.0L PR-J0K Code	{1,12,24,50,281}	NA	NA
2016	L4 2.0L PR-J0K Code	{12,46,281}	NA	NA	2019	L4 2.0L PR-J0Z Code	{1,24,50}	95R	850
2016	L4 2.0L PR-J0B, B1D Code	{12,46,80}	NA	NA	2019	L4 2.0L PR-J0P Code	{1,24,50,80}	95R	950
2015-13	L4 2.0L PR-J0L Code	{1,8,24,50,139}	48	570	2019	L4 2.0L PR-J0B Code	{1,24,50,80,139}	49	850
2015-09	L4 2.0L PR-J0B Code	{1,8,24,50,80,139}	49	850	2018	L4 2.0L PR-J4E Code	{1,12,24,50,281}	NA	NA
2014-13	V6 3.0L PR-J0L Code	{1,24,50,139}	48	570	2018	L4 2.0L PR-J2D Code	{1,24,50,80,139}	48	680
2014-13	L4 2.0L PR-J1N Code	{1,24,50,80,139}	94R	800	2018	L4 2.0L PR-J0Z Code	{1,8,24,50,139}	95R	850
2012-09	V6 3.2L PR-J0R Code	{1,24,50,139}	94R	640	2018	L4 2.0L PR-0K0 Code	{1,8,24,50,80,139}	48	680
2012-09	V6 3.2L PR-J0B Code	{1,24,50,80,139}	49	850	<b>A6</b>				
2012-09	L4 2.0L PR-J0R Code	{1,8,24,50,139}	94R	640	2018-17	L4 1.8L PR-J0L Code	{1,24,46,50}	48	640
2008	L4 2.0L PR-J0R Code	{1,8,24,50,261}	94R	640	2018-17	L4 1.8L PR-J0B Code	{1,24,46,50,80}	49	850
2007-06	L4 2.0L Optional	{1,8,24,50,261}	49	760	2018-17	L4 2.0L PR-J0K Code	{46,281}	NA	NA
2005-02	L4 1.8L Optional	{1,8,24,50,261}	49	760	2018-16	L4 1.8L PR-J0K Code	{1,12,24,50,281}	NA	NA
2002	V6 3.0L	{1,24,50,261}	48	640	2018-16	L4 2.0L PR-J0L Code	{1,8,24,46,50}	48	640
2001-99	L4 1.8L Optional	{1,8,24,50,261}	94R	640	2018-16	L4 2.0L PR-J0B Code	{1,8,24,46,50,80}	49	850
1999	V6 2.8L Optional	{1,24,50,261}	94R	640	2016	L4 1.8L PR-J0L Code	{1,24,50}	48	640
1998-97	L4 1.8L	{1,8,24,50,261}	48	640	2016	L4 1.8L PR-J0B Code	{1,24,50,80}	49	850
1996	V6 2.8L Optional	{1,8,24,50,261}	48	640	2016	L4 2.0L PR-J0K Code	{12,46,281}	NA	NA
<b>A4 allroad</b>					2016	V6 3.0L PR-J0L Code	{1,24,46,50}	48	640
2019	L4 2.0L PR-J0K Code	{1,12,24,50,281}	NA	NA	2016	V6 3.0L PR-J0B Code	{1,24,46,50,80}	49	850
2019	L4 2.0L PR-J0H Code	{1,12,24,50,80}	NA	NA	2015-12	L4 2.0L PR-J0B Code	{1,8,24,50,80,139}	49	850
2019	L4 2.0L PR-J0Z Code	{1,24,46,50}	95R	850	2015	L4 2.0L PR-J0L Code	{1,8,24,50,139}	48	640
2019	L4 2.0L PR-J0B Code	{1,24,46,50,80}	49	850	2014	L4 2.0L PR-J0L Code	{1,8,24,50,139}	48	570
2018-17	L4 2.0L PR-JE4 Code	{1,12,24,50,281}	NA	NA	2013-12	V6 2.8L PR-J0L Code	{1,24,50,139}	48	640
2018-17	L4 2.0L PR-J2D,0K0,0K2,0K4 Code	{1,24,46,50,80}	48	680	2013-12	V6 2.8L PR-J0B Code	{1,24,50,80,139}	49	850
2018-16	L4 2.0L PR-J0N, PR-J1L Code	{1,8,24,46,50}	47	540	2013-12	L4 2.0L PR-J0L Code	{1,8,24,50,139}	48	640
2018-13	L4 2.0L PR-J0B Code	{1,8,24,46,50,80}	49	850	2011	V6 2.8L Up to VIN WAUZZ4FZB-150000	{1,24,50,139}	48	570
2015-13	L4 2.0L PR-J0L Code	{1,8,24,46,50}	48	570	2011	V6 2.8L VIN WAUZZ4GZB-000001-up PR-J0L Code	{1,24,50,139}	48	640
<b>A5</b>					2011	V6 2.8L Up to VIN WAUZZ4FZB-150000 Optional	{1,24,50,80,139}	49	850
2019-18	L4 2.0L Auxiliary, PR-0K4 Code	{12,24,139,282}	NA	NA	2011	V6 2.8L VIN WAUZZ4GZB-000001-up PR-J0B Code	{1,24,50,80,139}	49	850
2019-18	L4 2.0L PR-J0K Code	{1,12,24,50,139,281}	NA	NA	2010-09	V6 2.8L	{1,24,50,139}	48	570
2019-18	L4 2.0L PR-J0H Code	{1,12,24,50,80,139}	NA	NA	2010-08	V6 2.8L Optional	{1,24,50,80,139}	49	850
2019-18	L4 2.0L PR-J0Z Code	{1,24,50,139}	95R	850	2010-06	V6 3.2L Optional	{1,8,24,50,139}	49	760
2019-18	L4 2.0L PR-J0B Code	{1,24,50,80,139}	49	850	2010-06	V6 3.2L Optional	{1,8,24,50,80,139}	49	850
2016-12	L4 1.8L PR-J0L Code	{1,24,50,139}	48	570	2008	V6 2.8L	{1,24,50,139}	49	760
2016-12	L4 1.8L PR-J0B Code	{1,24,50,80,139}	49	850	2006-05	V6 3.0L	{1,24,50}	49	760
2015-10	L4 2.0L PR-J0L Code	{1,8,24,50,139}	48	570	2006-05	V6 3.0L Optional	{1,24,50,80}	49	850
2015-10	L4 2.0L PR-J0B Code	{1,8,24,50,80,139}	49	850	2004-02	V6 3.0L Optional	{1,8,24,50,261}	49	760
2010	V6 3.2L PR-J0L Code	{1,24,50,139}	48	570	2001-99	V6 2.8L Optional	{1,12,24,50}	NA	360
2010	V6 3.2L PR-J0B Code	{1,24,50,80,139}	49	850	2001-99	V6 2.8L	{1,24,50,261}	48	640
2009-08	V6 3.2L PR-J0R Code	{1,24,50,139}	94R	640	1998	V6 2.8L Optional VIN WAUZZ4BZW-000001-up	{1,12,24,50}	NA	360
<b>A5 Quattro</b>					1998	V6 2.8L Optional VIN WAUZZ4BZW-000001-up	{1,24,50,261}	49	760
2019-18	L4 2.0L PR-J0H Code	{1,12,24,50,80}	NA	NA	<b>A6 Quattro</b>				
2019	L4 2.0L PR-J0K Code	{1,12,24,50,281}	NA	NA	2018-13	L4 2.0L PR-J0L Code	{1,8,24,50,139}	48	640
2019	L4 2.0L PR-J0Z Code	{1,24,50,139}	95R	850	2018-13	L4 2.0L PR-J0B Code	{1,8,24,50,80,139}	49	850
2019	L4 2.0L PR-J0B Code	{1,24,50,80,139}	49	850	2018	L4 2.0L PR-J0K Code	{139,281}	NA	NA
2018	L4 2.0L PR-J4E Code	{1,12,24,50,281}	NA	NA	2017-16	L4 2.0L PR-J0K Code	{12,139,281}	NA	NA
2018	L4 2.0L PR-J1U Code	{1,24,50,139}	49	760					
2018	L4 2.0L PR-J2D Code	{1,24,50,80,139}	48	680					
2018	L4 2.0L PR-J0Z Code	{1,8,24,50,139}	95R	850					
2018	L4 2.0L PR-0K0 Code	{1,8,24,50,80,139}	48	680					
2017-10	L4 2.0L PR-J0L Code	{1,8,24,50,139}	48	570					
2017-10	L4 2.0L PR-J0B Code	{1,8,24,50,80,139}	49	850					
2014-12	V6 3.0L PR-J0L Code	{1,24,50,139}	48	570					
2014-12	V6 3.0L PR-J0B Code	{1,24,50,80,139}	49	850					
2011	V6 3.2L PR-J0L Code	{1,24,50,139}	48	570					

See page 23 for application footnotes.

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## AUDI

**IMPORTANT NOTE: BATTERIES CAN EXPLODE! Always wear safety glasses AND shield eyes when working around batteries. Always check for proper polarity and sufficient terminal clearance BEFORE final installation to avoid dangerous sparks, potential explosion, possible severe personal injury and/or expensive electrical system and/or vehicle/equipment damage or fire.**

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>AUDI (Continued)</b>				
<b>A6 Quattro (Continued)</b>				
2017	V6 3.0L PR-J0K Code	{139,281}	NA	NA
2012-11	V6 3.0L PR-J0L Code	{1,8,24,50,139}	48	640
2012-11	V6 3.0L PR-J0B Code	{1,8,24,50,80,139}	49	850
2010-09	V6 3.0L Optional	{1,8,24,50,139}	49	760
2010-09	V6 3.0L Optional	{1,8,24,50,80,139}	49	850
2008-05	V6 3.2L Optional	{1,8,24,50,139}	49	760
2008-05	V6 3.2L Optional	{1,8,24,50,80,139}	49	850
2004-02	V6 2.7L Turbo	{1,8,24,50,261}	48	640
2004	V6 2.7L Turbo & Optional	{1,8,24,50,80,261}	49	760
<b>A7 Quattro</b>				
2018-16	V6 3.0L PR-J0R Code	{1,8,24,50}	94R	640
2018-16	V6 3.0L PR-J0B Code	{1,8,24,50,80}	49	850
2015-14	V6 3.0L Gas, PR-J0R Code	{1,8,24,50,261}	94R	640
2015-14	V6 3.0L Gas & PR-J2D Code	{1,8,24,50,80,261}	48	680
2013-12	V6 3.0L PR-J0R Code	{1,8,24,50,261}	94R	640
2013-12	V6 3.0L PR-J0B Code	{1,8,24,50,80,261}	49	850
<b>A8</b>				
1999-97	V8 3.7L	{1,46}	49	850
<b>A8 Quattro</b>				
2018-16	V6 3.0L PR-J0Z Code	{1,8,24,50,139}	95R	850
2018-16	V6 3.0L PR-J0B Code	{1,8,24,50,80,139}	49	850
2015-14	V6 3.0L Gas, PR-J0Z Code	{1,8,24,50,139}	95R	850
2015-14	V6 3.0L Gas, PR-J0B Code	{1,8,24,50,80,139}	49	850
2013	V6 3.0L PR-J0Z Code	{1,8,24,50,139}	95R	850
2013	V6 3.0L PR-0K1 Code	{1,8,24,50,80,139}	94R	800
2012-10	V8 4.2L PR-J0Z Code	{1,8,24,50,139}	95R	850
2012-10	V8 4.2L PR-0K1 Code	{1,8,24,50,80,139}	94R	800
2009-08	V8 4.2L Optional	{1,8,24,50,80,139}	49	850
2009-07	V8 4.2L	{1,8,24,50,139}	95R	850
2006-04	V8 4.2L Optional	{1,8,24,46,50}	49	850
2003	V8 4.2L	{1,8,139}	49	850
2002-97	V8 4.2L	{1,8,46}	49	850
<b>Q3</b>				
2018-15	L4 2.0L PR-J0N, J1N Code	{1,8,24,50,261}	47	540
2018-15	L4 2.0L PR-J2D Code	{1,8,24,50,80,261}	48	680
<b>Q3 Quattro</b>				
2018-15	L4 2.0L PR-J0N, J1N Code	{1,8,24,50}	47	540
2018-15	L4 2.0L PR-J2D Code	{1,8,24,50,80}	48	680
<b>Q5</b>				
2018-16	L4 2.0L PR-J0B Code	{1,8,24,46,50,80}	49	850
2017-16	L4 2.0L PR-J0L Code	{1,8,24,46,50}	48	570
2015-11	L4 2.0L PR-J0L Code	{1,8,24,50,139}	48	570
2015-11	L4 2.0L PR-J0B Code	{1,8,24,50,80,139}	49	850
2010-09	V6 3.2L PR-J0L Code	{1,8,24,50,139}	48	570
2010-09	V6 3.2L PR-J0B Code	{1,8,24,50,80,139}	49	850
<b>Q7</b>				
2019	V6 3.0L PR-J0B Code	{1,8,24,50,80,153}	49	850
2018-17	L4 2.0L PR-J0B Code	{1,8,24,50,80,153}	49	850
2015-11	V6 3.0L Gas	{1,8,24,50,153}	94R	640
2015-11	V6 3.0L Gas, Optional	{1,8,24,50,80,153}	49	850
2010	V6 3.0L Diesel	{1,8,24,50,153}	94R	640
2010	V6 3.0L Diesel, Optional	{1,8,24,50,80,153}	49	850
2009	V6 3.0L Diesel, Optional	{1,8,24,50,153}	49	850
2009	V6 3.0L Diesel	{1,8,24,50,80,153}	49	760
2008-07	V6 3.6L Optional	{1,8,24,50,153}	95R	850
<b>R8</b>				
2018	V10 5.2L PR-J0B Code	{1,8,24,50,80,253}	49	850
2017	V10 5.2L PR-J0B,B0A,B0D, B0E,B0G,B0H Code	{1,8,24,50,80,253}	49	850
2017	V10 5.2L PR-J0B, B1D Code	{80,253}	NA	NA

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>AUDI (Continued)</b>				
<b>R8 (Continued)</b>				
2015-14	V8 4.2L PR-J2D Code	{1,8,24,50,80,253}	48	680
2012-08	V8 4.2L PR-J0L Code	{1,8,24,50,253}	48	570
2012-08	V8 4.2L PR-J2D Code	{1,8,24,50,80,253}	48	680
<b>RS3</b>				
2018-17	L5 2.5L PR-J1N Code	{1,8,24,50,80,253}	94R	800
<b>RS4</b>				
2008-07	V8 4.2L	{1,8,24,50,80}	49	850
<b>RS5</b>				
2018	V6 2.9L PR-J0P Code	{1,8,24,50,80}	95R	950
2015-13	V8 4.2L PR-J0Z Code	{1,8,24,50}	95R	850
2015-13	V8 4.2L PR-J0B Code	{1,8,24,50,80}	49	850
<b>RS7</b>				
2018-16	V8 4.0L PR-J0B Code	{1,8,24,50,80}	49	850
2018-14	V8 4.0L PR-J0R Code	{1,8,24,50}	94R	640
2015	V8 4.0L PR-J1U Code	{1,8,24,50,80}	49	850
2014	V8 4.0L PR-J0B Code	{1,8,24,50,80}	49	850
<b>S3</b>				
2018-17	L4 2.0L PR-J1D Code	{1,8,24,50,261}	48	640
2018-15	L4 2.0L PR-J2D Code	{1,8,24,50,80,261}	48	680
2016-15	L4 2.0L PR-J0N, PR-J1L Code	{1,8,24,50,261}	47	540
<b>S4</b>				
2018	V6 3.0L PR-JE4 Code	{139,281}	49	850
2018	V6 3.0L PR-J0Z Code	{1,8,24,50,139}	95R	850
2018	V6 3.0L PR-J0B Code	{1,8,24,50,80,139}	49	850
2016	V6 3.0L PR-J0H Code	{12,139}	NA	NA
2016	V6 3.0L PR-J0Z Code	{1,8,24,50,139}	95R	850
2016	V6 3.0L PR-J0B,B0A,B0L, B0M,B0N,B0R Code	{1,8,24,50,80,139}	49	850
2015-13	V6 3.0L PR-J0L Code	{1,8,24,50,139}	48	570
2015-10	V6 3.0L PR-J0B Code	{1,8,24,50,80,139}	49	850
2012-10	V6 3.0L PR-J0R Code	{1,8,24,50,139}	94R	640
2009	V8 4.2L PR-J0R Code	{1,8,24,50,139}	94R	640
2009	V8 4.2L PR-J0B Code	{1,8,24,50,80,139}	49	850
2008	V8 4.2L PR-J0R Code	{1,8,24,50,261}	94R	640
2007-04	V8 4.2L Optional	{1,8,24,50,261}	49	760
<b>S5</b>				
2018	V6 3.0L PR-J0Z Code	{1,8,24,50,139}	95R	850
2018	V6 3.0L PR-0K0 Code	{1,8,24,50,80,139}	48	680
2017-10	V6 3.0L PR-J0L Code	{1,8,24,50,139}	48	570
2017-10	V6 3.0L PR-J0B Code	{1,8,24,50,80,139}	49	850
2009	V8 4.2L PR-J0L Code	{1,8,24,50,139}	48	570
2009	V8 4.2L PR-J0B Code	{1,8,24,50,80,139}	49	850
2008	V8 4.2L PR-J0R Code	{1,8,24,50,139}	94R	640
<b>S5 Sportback</b>				
2018	V6 3.0L PR-J0Z Code	{1,8,24,50}	95R	850
2018	V6 3.0L PR-0K0 Code	{1,8,24,50,80}	48	680
<b>S6</b>				
2018-13	V8 4.0L PR-J0L Code	{1,8,24,50,139}	48	640
2018-13	V8 4.0L PR-J0B Code	{1,8,24,50,80,139}	49	850
2011	V10 5.2L PR-J0L Code	{1,8,24,50,139}	48	640
2011	V10 5.2L PR-J0B Code	{1,8,24,50,80,139}	49	850
2010-07	V10 5.2L Optional	{1,8,24,50,139}	49	760
2010-07	V10 5.2L Optional	{1,8,24,50,80,139}	49	850
<b>S7</b>				
2018-16	V8 4.0L PR-J0R Code	{1,8,24,50}	94R	640
2018-16	V8 4.0L PR-J0B Code	{1,8,24,50,80}	49	850
2015-13	V8 4.0L PR-J0R Code	{1,8,24,50,261}	94R	640
2015-13	V8 4.0L PR-J0B Code	{1,8,24,50,80,261}	49	850

See page 23 for application footnotes.

# VEHICLES REQUIRING LABOR-INTENSIVE BATTERY REPLACEMENT

## AUDI — BMW

**IMPORTANT NOTE: BATTERIES CAN EXPLODE!** Always wear safety glasses AND shield eyes when working around batteries. Always check for proper polarity and sufficient terminal clearance BEFORE final installation to avoid dangerous sparks, potential explosion, possible severe personal injury and/or expensive electrical system and/or vehicle/equipment damage or fire.

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F	YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>AUDI (Continued)</b>					<b>BMW (Continued)</b>				
<b>S8</b>					<b>320i (Continued)</b>				
2018-14	V8 4.0L PR-JOB Code	{1,8,24,50,80,139}	49	850	2001	L6 2.2L Optional	{1,8,24,139}	94R	640
2018-13	V8 4.0L PR-JOZ Code	{1,8,24,50,139}	95R	850	<b>320i xDrive</b>				
2013	V8 4.0L PR-0K1 Code	{1,8,24,50,80,139}	94R	800	2018-17	L4 2.0L Optional	{1,8,24,50,80,139}	94R	800
2010-08	V10 5.2L Optional	{1,8,24,50,80,139}	49	850	2016-13	L4 2.0L Optional	{1,8,24,50,80,139}	49	850
2010-07	V10 5.2L	{1,8,24,50,139}	95R	850	<b>323i</b>				
<b>TT Quattro</b>					2011-06	L6 2.5L Optional	{1,8,24,50,139}	49	720
2018-16	L4 2.0L PR-J0R Code	{1,8,24,50,139}	94R	640	2011-06	L6 2.5L Optional	{1,8,24,50,80,139}	48	760
2018-16	L4 2.0L PR-J0B Code	{1,8,24,50,80,139}	49	850	<b>323is</b>				
2015-14	L4 2.0L Optional	{1,8,24,50,139}	94R	640	1999	L6 2.5L	{1,50,139}	94R	765
2015-14	L4 2.0L Optional	{1,8,24,50,80,139}	94R	800	1998	L6 2.5L	{1,139}	91	600
2013-10	L4 2.0L	{1,8,139}	47	480	<b>325Ci</b>				
<b>allroad</b>					2006-03	L6 2.5L Exc SULEV	{1,8,24,50,139}	94R	640
2016-13	L4 2.0L PR-J0L Code	{1,8,24,50}	48	570	2006-03	L6 2.5L SULEV Opt	{1,8,24,50,80,139}	49	850
2016-13	L4 2.0L PR-J0B Code	{1,8,24,50,80}	49	850	2002-01	L6 2.5L	{1,8,24,50,139}	94R	640
<b>BENTLEY</b>					<b>325i</b>				
<b>Arnage</b>					2006	L6 3.0L Optional	{1,8,24,50,139}	49	720
2009-08	V8 6.8L Left Side	{1,139}	34	750	2006	L6 3.0L Optional	{1,8,24,50,80,139}	48	760
<b>Azure</b>					2005-04	L6 2.5L	{1,8,24,50,139}	94R	640
2010-08	V8 6.8L Left Side	{1,139}	34	750	2005-04	L6 2.5L Optional	{1,8,24,50,80,139}	49	850
<b>Brooklands</b>					2003-02	L6 2.5L Exc SULEV	{1,8,24,50,139}	94R	640
2009-08	V8 6.8L Left Side	{1,139}	34	750	2003-02	L6 2.5L SULEV Opt	{1,8,24,50,80,139}	49	850
<b>Continental</b>					2001	L6 2.5L Optional	{1,8,24,50,139}	48	570
2014-13	V8 4.0L Primary Battery Right Side	{1,8,139}	47	610	<b>325xi</b>				
2014-13	V8 4.0L Auxiliary - Left Side	{1,8,80,139}	49	850	2006	L6 3.0L Optional	{1,8,24,50,139}	49	720
2012-09	W12 6.0L Primary Battery Right Side	{1,8,139}	47	610	2006	L6 3.0L Optional	{1,8,24,50,80,139}	48	760
2012-09	W12 6.0L Auxiliary - Left Side	{1,8,80,139}	49	850	2005	L6 2.5L Optional	{1,8,24,50,139}	48	570
<b>Mulsanne</b>					2005	L6 2.5L Optional	{1,8,24,50,80,139}	48	760
2014-11	V8 6.8L Primary Battery Right Side	{1,8,139}	47	610	2004	L6 2.5L Optional	{1,8,24,50,80,139}	49	850
2014-11	V8 6.8L Auxiliary - Left Side	{1,8,80,139}	49	850	2003-01	L6 2.5L Optional	{1,8,24,50,139}	48	570
<b>BMW</b>					<b>328Ci</b>				
<b>1 Series M</b>					2000	L6 2.8L	{1,8,24,50,139}	48	750
2011	L6 3.0L	{1,8,24,50,80,139}	48	760	<b>328d</b>				
<b>128i</b>					2018	L4 2.0L Diesel	{1,8,24,50,80,139}	48	760
2013-08	L6 3.0L Optional	{1,8,24,50,139}	49	720	2017	L4 2.0L Diesel	{1,8,24,50,80,139}	49	850
2013-08	L6 3.0L Optional	{1,8,24,50,80,139}	48	760	2016-14	L4 2.0L Diesel	{1,8,24,50,80,139}	94R	800
<b>135i</b>					2015-14	L4 2.0L Diesel, Auxiliary	{12,139}	NA	NA
2013-08	L6 3.0L Optional	{1,8,24,50,139}	49	720	<b>328d xDrive</b>				
2013-08	L6 3.0L Optional	{1,8,24,50,80,139}	48	760	2018-17	L4 2.0L Diesel	{1,8,24,50,80,139}	48	760
<b>135is</b>					2016-14	L4 2.0L Diesel	{1,8,24,50,80,139}	94R	800
2013	L6 3.0L Optional	{1,8,24,50,139}	49	720	2015-14	L4 2.0L Diesel, Auxiliary	{12,139}	NA	NA
2013	L6 3.0L Optional	{1,8,24,50,80,139}	48	760	<b>328i</b>				
<b>228i</b>					2016-12	L4 2.0L Optional	{1,8,24,50,80,139}	49	850
2016-14	L4 2.0L Optional	{1,8,24,50,80,139}	49	850	2013-07	L6 3.0L Optional	{1,8,24,50,139}	49	720
<b>228i xDrive</b>					2011-07	L6 3.0L Optional	{1,8,24,50,80,139}	48	760
2016-15	L4 2.0L Optional	{1,8,24,50,80,139}	49	850	2000-99	L6 2.8L	{1,50}	94R	765
<b>230i</b>					1998-96	L6 2.8L Exc Conv	{1,50}	92	650
2019-18	L4 2.0L	{1,8,24,50,80,139}	49	850	<b>328i GT xDrive</b>				
2017	L4 2.0L Optional	{1,8,24,50,80,139}	49	850	2016-14	L4 2.0L	{1,8,24,50,80,139}	49	850
<b>230i xDrive</b>					<b>328i xDrive</b>				
2018	L4 2.0L	{1,8,24,50,80,139}	49	850	2016-13	L4 2.0L Optional	{1,8,24,50,80,139}	49	850
2017	L4 2.0L Optional	{1,8,24,50,80,139}	49	850	2013-09	L6 3.0L Optional	{1,8,24,50,139}	49	720
<b>320i</b>					2012-09	L6 3.0L Optional	{1,8,24,50,80,139}	48	760
2018	L4 2.0L Optional	{1,8,24,50,80,139}	94R	800	<b>328xi</b>				
2017	L4 2.0L Optional	{1,8,24,50,80,139}	49	850	2008-07	L6 3.0L Optional	{1,8,24,50,139}	49	720
2016	L4 2.0L Optional	{1,8,24,50,80,139}	94R	800	2008-07	L6 3.0L Optional	{1,8,24,50,80,139}	48	760
2015-12	L4 2.0L Optional	{1,8,24,50,80,139}	49	850	<b>330Ci</b>				
2005-02	L6 2.2L Optional	{1,8,24,50,139}	94R	640	2006	L6 3.0L	{1,8,50}	48	570
					2005-02	L6 3.0L	{1,50}	94R	640
					2001	L6 3.0L	{1,50}	94R	765
					<b>330e</b>				
					2018-16	L4 2.0L Optional	{1,8,24,50,80,139}	49	850

See page 23 for application footnotes.



# VEHICLES REQUIRING LABOR-INTENSIVE BATTERY REPLACEMENT

## BMW

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YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>BMW (Continued)</b>				
<b>330i</b>				
2018-17	L4 2.0L Optional	{1,8,24,50,80,139}	94R	800
2006	L6 3.0L	{1,8,50,139}	48	570
2005-02	L6 3.0L	{1,50,139}	94R	640
2001	L6 3.0L	{1,50,139}	94R	765
<b>330i GT xDrive</b>				
2018-17	L4 2.0L	{1,8,24,50,80,139}	49	850
<b>330i xDrive</b>				
2018-17	L4 2.0L Optional	{1,8,24,50,80,139}	94R	800
<b>330xi</b>				
2006	L6 3.0L Optional	{1,8,50}	49	570
2005-02	L6 3.0L	{1,50}	94R	640
2001	L6 3.0L	{1,50}	94R	765
<b>335d</b>				
2011-09	L6 3.0L Diesel	{1,8,24,50,139}	48	570
2011-09	L6 3.0L Diesel, Optional	{1,8,24,50,80,139}	48	760
<b>335i</b>				
2015-14	L6 3.0L Optional	{1,8,24,50,80,139}	49	850
2013-07	L6 3.0L Optional	{1,8,24,50,139}	49	720
2013-07	L6 3.0L Optional	{1,8,24,50,80,139}	48	760
<b>335i GT xDrive</b>				
2016-14	L6 3.0L	{1,8,24,50,80,139}	49	850
<b>335i xDrive</b>				
2015-14	L6 3.0L Optional	{1,8,24,50,80,139}	49	850
2013-09	L6 3.0L Optional	{1,8,24,50,139}	49	720
2013-09	L6 3.0L Optional	{1,8,24,50,80,139}	48	760
<b>335is</b>				
2013-11	L6 3.0L Optional	{1,8,24,50,139}	49	720
2013-11	L6 3.0L Optional	{1,8,24,50,80,139}	48	760
<b>335xi</b>				
2008-07	L6 3.0L Optional	{1,8,24,50,139}	49	720
2008-07	L6 3.0L Optional	{1,8,24,50,80,139}	48	760
<b>340i</b>				
2018-17	L6 3.0L Optional	{1,8,24,50,80,139}	94R	800
2016	L6 3.0L Optional	{1,8,24,50,80,139}	49	850
<b>340i GT xDrive</b>				
2018-17	L6 3.0L	{1,8,24,50,80,139}	49	850
<b>340i xDrive</b>				
2018-17	L6 3.0L Optional	{1,8,24,50,80,139}	94R	800
2016	L6 3.0L Optional	{1,8,24,50,80,139}	49	850
<b>428i</b>				
2016-14	L4 2.0L	{1,8,24,50,80,139}	49	850
<b>428i Gran Coupe</b>				
2016-15	L4 2.0L	{1,8,24,50,80,139}	49	850
<b>428i xDrive</b>				
2016	L4 2.0L	{1,8,24,50,80,139}	49	850
2015-14	L4 2.0L Conv	{1,8,24,50,80,139}	49	850
<b>428i xDrive Gran Coupe</b>				
2016-15	L4 2.0L	{1,8,24,50,80,139}	49	850
<b>430i</b>				
2018-17	L4 2.0L	{1,8,24,50,80,139}	49	850
<b>430i Gran Coupe</b>				
2018-17	L4 2.0L	{1,8,24,50,80,139}	49	850
<b>430i xDrive</b>				
2018-17	L4 2.0L	{1,8,24,50,80,139}	49	850
<b>430i xDrive Gran Coupe</b>				
2018-17	L4 2.0L	{1,8,24,50,80,139}	49	850
<b>435i</b>				
2016	L6 3.0L	{1,8,24,50,80,139}	49	850
2015	L6 3.0L Conv	{1,8,24,50,80,139}	49	850
2014	L6 3.0L	{1,8,24,50,80,139}	49	850

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>BMW (Continued)</b>				
<b>435i Gran Coupe</b>				
2016-15	L6 3.0L	{1,8,24,50,80,139}	49	850
<b>435i xDrive</b>				
2016	L6 3.0L	{1,8,24,50,80,139}	49	850
2015	L6 3.0L Conv	{1,8,24,50,80,139}	49	850
2014	L6 3.0L	{1,8,24,50,80,139}	49	850
<b>435i xDrive Gran Coupe</b>				
2016-15	L6 3.0L	{1,8,24,50,80,139}	49	850
<b>440i</b>				
2018-17	L6 3.0L	{1,8,24,50,80,139}	49	850
<b>440i Gran Coupe</b>				
2018-17	L6 3.0L	{1,8,24,50,80,139}	49	850
<b>440i xDrive</b>				
2018-17	L6 3.0L	{1,8,24,50,80,139}	49	850
<b>440i xDrive Gran Coupe</b>				
2018-17	L6 3.0L	{1,8,24,50,80,139}	49	850
<b>501</b>				
1952	L6 2.0L	{1,8,24,50,80}	NA	NA
<b>524td</b>				
1986-85	L6 2.4L Diesel	{41}	93	800
<b>525i</b>				
2007-06	L6 3.0L Optional	{1,8,50,139}	49	720
2005-02	L6 2.5L Optional	{1,24,50}	49	720
2001	L6 2.5L	{1,24,50}	49	850
<b>525iT</b>				
1993	L6 2.5L	{1,139}	93	800
<b>525xi</b>				
2007-06	L6 3.0L Optional	{1,8,50,139}	49	720
<b>528i</b>				
2016	L4 2.0L	{1,8,24,50,80,139}	49	850
2015-14	L4 2.0L Optional	{1,8,24,50,80,139}	95R	950
2013-12	L4 2.0L Optional	{1,8,24,50,139}	95R	950
2013	L4 2.0L Optional	{1,8,24,50,80,139}	94R	800
2012	L4 2.0L Optional	{1,8,24,50,80,139}	49	850
2011-10	L6 3.0L Optional	{1,8,24,50,139}	95R	950
2011-10	L6 3.0L	{1,8,24,50,80,139}	49	850
2011-10	L6 3.0L Optional	{1,8,50,80,139}	94R	800
2009-08	L6 3.0L Optional	{1,8,24,50,139}	94R	640
2009-08	L6 3.0L Optional	{1,8,24,50,80,139}	49	850
2009-08	L6 3.0L Optional	{1,8,50,139}	95R	850
<b>528i xDrive</b>				
2016	L4 2.0L	{1,8,24,50,80,139}	49	850
2015-14	L4 2.0L Optional	{1,8,24,50,80,139}	95R	950
2013-12	L4 2.0L Optional	{1,8,24,50,139}	95R	950
2013	L4 2.0L Optional	{1,8,24,50,80,139}	94R	800
2012	L4 2.0L Optional	{1,8,24,50,80,139}	49	850
2010	L6 3.0L Optional	{1,8,24,50,139}	95R	950
2010	L6 3.0L	{1,8,24,50,80,139}	49	850
2010	L6 3.0L Optional	{1,8,50,80,139}	94R	800
2009	L6 3.0L Optional	{1,8,24,50,139}	94R	640
2009	L6 3.0L Optional	{1,8,24,50,80,139}	49	850
<b>528xi</b>				
2008	L6 3.0L Optional	{1,8,24,50,139}	94R	640
2008	L6 3.0L Optional	{1,8,24,50,80,139}	49	850
<b>530e</b>				
2018	L4 2.0L Hybrid, Optional	{1,8,24,50,139}	95R	850
2018	L4 2.0L Hybrid	{1,8,24,50,80,139}	49	850
<b>530e xDrive</b>				
2018	L4 2.0L Hybrid, Optional	{1,8,24,50,139}	95R	850
2018	L4 2.0L Hybrid	{1,8,24,50,80,139}	49	850

See page 23 for application footnotes.

# VEHICLES REQUIRING LABOR-INTENSIVE BATTERY REPLACEMENT

## BMW

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YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>BMW (Continued)</b>				
<b>530i</b>				
2018-17	L4 2.0L Optional	{1,8,24,50,80,139}	49	850
2017	L4 2.0L Auxiliary Battery	{1,80,139}	NA	NA
2007-02	L6 3.0L Optional	{1,8,24,50,139}	94R	640
2007-02	L6 3.0L Optional	{1,8,24,50,80,139}	49	850
2001	L6 3.0L	{1,8,24,50,139}	49	720
1995-94	V8 3.0L	{1,24,50}	93	800
<b>530i xDrive</b>				
2018-17	L4 2.0L Optional	{1,8,24,50,80,139}	49	850
2017	L4 2.0L Auxiliary Battery	{1,80,139}	NA	NA
<b>530xi</b>				
2007-06	L6 3.0L Optional	{1,8,24,50,139}	94R	640
2007-06	L6 3.0L Optional	{1,8,24,50,80,139}	49	850
<b>535d</b>				
2016	L6 3.0L	{1,8,24,50,80,139}	49	850
2015-14	L6 3.0L Optional	{1,8,24,50,80}	95R	950
<b>535d xDrive</b>				
2016	L6 3.0L	{1,8,24,50,80,139}	49	850
2015-14	L6 3.0L Optional	{1,8,24,50,80}	95R	950
<b>535i</b>				
2016	L6 3.0L	{1,8,24,50,80,139}	49	850
2015-14	L6 3.0L Optional	{1,8,24,50,80,139}	95R	950
2013-11	L6 3.0L Optional	{1,8,24,50,139}	95R	950
2013-08	L6 3.0L Optional	{1,8,24,50,80,139}	49	850
2010-08	L6 3.0L Optional	{1,8,24,50,139}	94R	640
<b>535i GT</b>				
2017-10	L6 3.0L	{1,8,24,50,80,139}	49	850
<b>535i GT xDrive</b>				
2017-11	L6 3.0L	{1,8,24,50,80,139}	49	850
<b>535i xDrive</b>				
2016	L6 3.0L	{1,8,24,50,80,139}	49	850
2015-14	L6 3.0L Optional	{1,8,24,50,80,139}	95R	950
2013-11	L6 3.0L Optional	{1,8,24,50,139}	95R	950
2013-11	L6 3.0L Optional	{1,8,24,50,80,139}	94R	800
2010-09	L6 3.0L Optional	{1,8,24,50,139}	94R	640
2010-09	L6 3.0L Optional	{1,8,24,50,80,139}	49	850
<b>535xi</b>				
2008	L6 3.0L Optional	{1,8,24,50,139}	94R	640
2008	L6 3.0L Optional	{1,8,24,50,80,139}	49	850
<b>540i</b>				
2018	L6 3.0L Optional	{1,8,24,50,80,139}	95R	950
2017	L6 3.0L Auxiliary Battery	{1,80,139}	NA	NA
2017	L6 3.0L Optional	{1,8,24,50,80,139}	48	760
2003-02	V8 4.4L	{1,24,50,139}	49	720
2003	V8 4.4L Optional	{1,50,80,139}	49	850
2001-97	V8 4.4L	{1,139}	49	850
<b>540i xDrive</b>				
2018	L6 3.0L Optional	{1,8,24,50,80,139}	48	760
2017	L6 3.0L Auxiliary Battery	{1,80,139}	NA	NA
2017	L6 3.0L Optional	{1,8,24,50,80,139}	49	850
<b>545i</b>				
2005-04	V8 4.4L Optional	{1,8,24,50,139}	49	720
2005-04	V8 4.4L Optional	{1,8,24,50,80,139}	49	850
2005	V8 4.4L Optional	{1,24,50,139}	94R	640
2004	V8 4.4L	{1,24,50,139}	95R	850
<b>550i</b>				
2016	V8 4.4L	{1,8,24,50,80,139}	49	850
2015-14	V8 4.4L Optional	{1,8,24,50,80,139}	95R	950
2013-11	V8 4.4L Optional	{1,8,24,50,139}	95R	950
2013-11	V8 4.4L Optional	{1,8,24,50,80,139}	49	850
2010-06	V8 4.8L Optional	{1,8,24,50,139}	94R	640
2010-06	V8 4.8L Optional	{1,8,24,50,80,139}	49	850

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>BMW (Continued)</b>				
<b>550i GT</b>				
2015-10	V8 4.4L	{1,8,24,50,80,139}	49	850
<b>550i GT xDrive</b>				
2017-10	V8 4.4L	{1,8,24,50,80,139}	49	850
<b>550i xDrive</b>				
2016	V8 4.4L	{1,8,24,50,80,139}	49	850
2015-14	V8 4.4L Optional	{1,8,24,50,80,139}	95R	950
2013-11	V8 4.4L Optional	{1,8,24,50,139}	95R	950
2013-11	V8 4.4L Optional	{1,8,24,50,80,139}	49	850
<b>640i</b>				
2018-17	L6 3.0L	{1,8,24,50,80,139}	95R	950
2016-15	L6 3.0L Optional	{1,8,24,50,80,139}	95R	950
2016-14	L6 3.0L Auxiliary Battery	{1,8,80,139}	400	200
2014	L6 3.0L Optional	{1,8,24,50,80,139}	49	850
2013-12	L6 3.0L Optional	{1,8,24,50,139}	95R	950
2013-12	L6 3.0L	{1,8,24,50,80,139}	49	850
2013-12	L6 3.0L Auxiliary Battery	{8,50,80,139}	400	200
<b>640i Gran Coupe</b>				
2018-16	L6 3.0L	{1,8,24,50,80,139}	95R	950
2015-14	L6 3.0L Optional	{1,8,24,50,80,139}	95R	950
2015-14	L6 3.0L Auxiliary Battery	{1,8,80,139}	400	200
2013	L6 3.0L Auxiliary Battery	{8,50,80}	400	200
2013	L6 3.0L Optional	{1,8,24,50,139}	95R	950
2013	L6 3.0L	{1,8,24,50,80,139}	49	850
<b>640i xDrive</b>				
2018-17	L6 3.0L	{1,8,24,50,80,139}	95R	950
2016-14	L6 3.0L Optional	{1,8,24,50,80,139}	95R	950
2016	L6 3.0L Auxiliary Battery	{1,80,139}	400	200
2015	L6 3.0L Auxiliary Battery	{1,8,80,139}	400	200
<b>640i xDrive Gran Coupe</b>				
2018-16	L6 3.0L	{1,8,24,50,80,139}	95R	950
2015-14	L6 3.0L Optional	{1,8,24,50,80,139}	95R	950
2015	L6 3.0L Auxiliary Battery	{1,8,80,139}	400	200
<b>640i xDrive Gran Turismo</b>				
2018	L6 3.0L Optional	{1,8,24,50,80}	95R	950
2018	L6 3.0L	{1,8,24,50,80,139}	49	850
2018	L6 3.0L Auxiliary w/Executive Drive	{1,8,24,50,80,261}	47	600
<b>645Ci</b>				
2005-04	V8 4.4L	{1,24,50,139}	95R	850
<b>650i</b>				
2018-17	V8 4.4L	{1,8,24,50,80,139}	95R	950
2016-14	V8 4.4L Optional	{1,8,24,50,80,139}	95R	950
2013-12	V8 4.4L Optional	{1,8,24,50,139}	95R	950
2013-12	V8 4.4L	{1,8,24,50,80,139}	49	850
2010-06	V8 4.8L	{1,8,24,50,80,139}	49	850
2007-06	V8 4.8L Optional	{1,8,24,50,139}	95R	850
<b>650i Gran Coupe</b>				
2018-16	V8 4.4L	{1,8,24,50,80,139}	95R	950
2015-14	V8 4.4L Optional	{1,8,24,50,80,139}	95R	950
2013	V8 4.4L Optional	{1,8,24,50,139}	95R	950
2013	V8 4.4L	{1,8,24,50,80,139}	49	850
<b>650i xDrive</b>				
2018-17	V8 4.4L	{1,8,24,50,80,139}	95R	950
2016-14	V8 4.4L Optional	{1,8,24,50,80,139}	95R	950
2013-12	V8 4.4L Optional	{1,8,24,50,139}	95R	950
2013-12	V8 4.4L	{1,8,24,50,80,139}	49	850
<b>650i xDrive Gran Coupe</b>				
2018-16	V8 4.4L	{1,8,24,50,80,139}	95R	950
2015-13	V8 4.4L Optional	{1,8,24,50,80,139}	95R	950
<b>733i</b>				
1984	L6 3.2L	{37,46}	91	600
1983	L6 3.2L Optional	{37,46}	47	370

See page 23 for application footnotes.

# VEHICLES REQUIRING LABOR-INTENSIVE BATTERY REPLACEMENT

## BMW

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YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>BMW (Continued)</b>				
<b>733i (Continued)</b>				
1982-81	L6 3.2L Optional	{37,46}	42	495
1980-78	L6 3.2L	{46}	47	370
<b>735i</b>				
1992-87	L6 3.5L	{46}	93	800
1986	L6 3.5L	{37,46}	92	650
1985	L6 3.5L	{37,46}	91	600
<b>735iL</b>				
1992-88	L6 3.5L	{46}	93	800
<b>740Ld xDrive</b>				
2015	L6 3.0L	{1,8,24,50,80,139}	49	850
<b>740Li</b>				
2015	L6 3.0L	{1,8,24,50,80,139}	49	850
2014	L6 3.0L Optional	{1,8,24,50,80,139}	49	850
2013-11	L6 3.0L	{1,8,24,50,80,139}	49	850
<b>740Li xDrive</b>				
2015	L6 3.0L	{1,8,24,50,80,139}	49	850
2014	L6 3.0L Optional	{1,8,24,50,80,139}	49	850
2013	L6 3.0L	{1,8,24,50,80,139}	49	850
<b>740e xDrive</b>				
2018-17	L4 2.0L Hybrid, Auxiliary Battery	{1,8,24,50,80,261}	47	680
2018	L4 2.0L Hybrid	{1,8,24,50,80,139}	49	600
2017	L4 2.0L Hybrid	{1,8,24,50,80,139}	49	850
<b>740i</b>				
2018	L6 3.0L Auxiliary w/Executive Drive	{1,8,24,50,80,139}	47	480
2017	L6 3.0L Auxiliary w/Executive Drive	{1,8,24,50,80,139}	47	680
2016	L6 3.0L	{1,8,24,50,80,139}	47	680
2015-13	L6 3.0L	{1,8,24,50,80,139}	49	850
2012	L6 3.0L Optional	{1,8,24,50,80,139}	49	850
2011	L6 3.0L	{1,8,24,50,80,139}	49	850
2001	V8 4.4L	{1,46}	95R	850
2000-97	V8 4.4L	{1,46}	95R	950
1995	V8 4.0L	{1,46}	95R	950
1994-93	V8 4.0L	{1,46}	93	800
<b>740i xDrive</b>				
2018-17	L6 3.0L Auxiliary w/Executive Drive	{1,8,24,50,80,139}	47	680
2017	L6 3.0L Auxiliary Battery	{1,80,139}	400	200
<b>740iL</b>				
2001	V8 4.4L	{1,46}	95R	850
2000-96	V8 4.4L	{1,46}	95R	950
1995	V8 4.0L	{1,46}	95R	950
1994-93	V8 4.0L	{1,46}	93	800
<b>745Li</b>				
2005-04	V8 4.4L	{1,50,80}	49	850
2003-02	V8 4.4L Optional	{1,50,80}	49	850
2003	V8 4.4L	{1,24,50}	95R	800
2002	V8 4.4L	{1,24,50}	95R	850
<b>745i</b>				
2005-04	V8 4.4L	{1,50,80}	49	850
2003-02	V8 4.4L Optional	{1,50,80}	49	850
2003	V8 4.4L	{1,24,50}	95R	800
2002	V8 4.4L	{1,24,50}	95R	850
<b>750Li</b>				
2015-13	V8 4.4L	{1,8,24,50,80,139}	49	850
2012	V8 4.4L Gas	{1,8,24,50,80,139}	49	850
2011-09	V8 4.4L	{1,8,24,50,80,139}	49	850
2008	V8 4.8L	{1,24,50,139}	49	720
2008	V8 4.8L Optional	{1,8,24,50,80,139}	49	850
2007	V8 4.8L	{1,8,24,50,80,139}	49	850
2006	V8 4.8L	{1,24,50,139}	49	720
2006	V8 4.8L Optional	{1,8,24,50,80,139}	49	850

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>BMW (Continued)</b>				
<b>750Li xDrive</b>				
2018-17	V8 4.4L Optional	{1,8,24,50,80,139}	95R	950
2018-17	V8 4.4L Auxiliary w/Executive Drive	{1,8,24,50,80,261}	47	680
2015-10	V8 4.4L	{1,8,24,50,80,139}	49	850
<b>750i</b>				
2018-17	V8 4.4L Optional	{1,8,24,50,80,139}	95R	950
2018-17	V8 4.4L Auxiliary w/Executive Drive	{1,8,24,50,80,261}	47	680
2017	V8 4.4L	{1,8,24,50,80}	47	680
2016	V8 4.4L	{1,8,24,50,80,139}	47	680
2015-13	V8 4.4L	{1,8,24,50,80,139}	49	850
2012	V8 4.4L Gas	{1,8,24,50,80,139}	49	850
2011-09	V8 4.4L	{1,8,24,50,80,139}	49	850
2008-06	V8 4.8L	{1,8,24,50,80,139}	49	850
<b>750i xDrive</b>				
2018-17	V8 4.4L Optional	{1,8,24,50,80,139}	95R	950
2018-17	V8 4.4L Auxiliary w/Executive Drive	{1,8,24,50,80,261}	47	680
2017	V8 4.4L	{1,8,24,50,80}	47	680
2016	V8 4.4L	{1,8,24,50,80,139}	47	680
2015-10	V8 4.4L	{1,8,24,50,80,139}	49	850
<b>750iL</b>				
2001	V12 5.4L Auxiliary Battery	{1,46}	48	650
2000	V12 5.4L	{1,46}	95R	950
1999	V12 5.4L Auxiliary Battery	{1,46}	48	650
1998-95	V12 5.4L	{1,46}	95R	950
1994-88	V12 5.0L	{1,46}	93	800
<b>760Li</b>				
2015-10	V12 6.0L	{1,8,24,50,80,139}	49	850
2008-06	V12 6.0L	{1,8,24,50}	49	720
2005-03	V12 6.0L	{1,8,50}	49	900
<b>760i</b>				
2006	V12 6.0L	{1,8,24,50}	49	720
2005-04	V12 6.0L	{1,8,50}	49	900
<b>ActiveHybrid 3</b>				
2015-13	L6 3.0L Hybrid	{1,8,24,50,80,139}	94R	800
<b>ActiveHybrid 5</b>				
2016-14	L6 3.0L Hybrid	{1,8,24,50,80,139}	49	850
2013-12	L6 3.0L Hybrid	{1,8,24,50,80,139}	95R	950
<b>ActiveHybrid 7</b>				
2015-13	L6 3.0L Hybrid	{1,8,24,50,80,139}	49	850
<b>Alpina B6 Gran Coupe</b>				
2016	V8 4.4L	{1,8,24,50,80,139}	95R	950
<b>Alpina B6 xDrive Gran Coupe</b>				
2018-15	V8 4.4L	{1,8,24,50,80,139}	95R	950
<b>Alpina B7</b>				
2018-17	V8 4.4L Optional	{1,8,24,50,80}	95R	950
2015-11	V8 4.4L	{1,8,24,50,80,139}	49	850
2008-07	V8 4.4L	{1,139}	49	720
<b>Alpina B7 xDrive</b>				
2015-11	V8 4.4L	{1,8,24,50,80,139}	49	850
<b>Alpina B7L</b>				
2015-11	V8 4.4L	{1,8,24,50,80,139}	49	850
<b>Alpina B7L xDrive</b>				
2015-11	V8 4.4L	{1,8,24,50,80,139}	49	850
<b>M2</b>				
2018-16	L6 3.0L Optional	{1,8,24,50,80,139}	49	850
<b>M235i</b>				
2016	L6 3.0L Convertible, Optional	{1,8,24,50,80,139}	49	850
2015	L6 3.0L Conv	{1,8,24,50,80,139}	49	850
2014	L6 3.0L Optional	{1,8,24,50,80,139}	49	850
<b>M235i xDrive</b>				
2016	L6 3.0L Convertible, Optional	{1,8,24,50,80,139}	49	850
2015	L6 3.0L Optional	{1,8,24,50,80,139}	49	850



# VEHICLES REQUIRING LABOR-INTENSIVE BATTERY REPLACEMENT

## BMW — BUICK

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YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F	YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>BMW (Continued)</b>					<b>BMW (Continued)</b>				
<b>M240i</b>					<b>X4 (Continued)</b>				
2019-17	L6 3.0L	{1,8,24,50,80,139}	94R	800	2017	L4 2.0L	{1,8,24,46,50,80}	94R	800
<b>M240i xDrive</b>					2017	L6 3.0L	{46}	NA	NA
2018-17	L6 3.0L	{1,8,24,50,80,139}	94R	800	2016	L4 2.0L Optional	{1,8,24,46,50,80}	49	850
<b>M3</b>					2015	L4 2.0L Optional	{1,8,24,46,50,80}	94R	800
2017-15	L6 3.0L Li-ion Battery Only	{12,139,276,282}	NA	NA	<b>X5</b>				
2013-08	V8 4.0L Optional	{1,8,24,50,139}	49	720	2018-16	L4 2.0L Hybrid	{1,8,24,50,80,139}	95R	950
2013-08	V8 4.0L Optional	{1,8,24,50,80,139}	48	760	2017	L4 2.0L Hybrid, Auxiliary Battery	{80,139}	NA	NA
2006	L6 3.2L	{1,8,46,50}	48	570	2016	L4 2.0L Hybrid, Auxiliary Battery	{12,80,139}	NA	NA
2005-02	L6 3.2L	{1,46}	94R	640	2015-14	L6 3.0L Diesel	{1,8,24,50,80,139}	95R	950
2001	L6 3.2L	{1,46}	94R	765	2013-11	L6 3.0L Diesel	{1,8,24,50,80,139}	49	850
1999-98	L6 3.2L Conv	{1,16,46}	92	575	2013-09	L6 3.0L Diesel, Optional	{1,8,24,50,139}	48	570
1999-98	L6 3.2L Exc Conv	{1,46}	92	650	2010-09	L6 3.0L Gas	{1,8,24,50,80,139}	49	850
1997-96	L6 3.2L	{1,46}	92	650	2008-07	L6 3.0L	{1,8,24,50,80,139}	49	850
1995	L6 3.0L	{1,46}	92	650	2006	L6 3.0L Optional	{1,8,24,50,139}	94R	640
1994	L6 3.0L	{1,46}	92	575	2006	V8 4.8L	{1,8,24,50,80,139}	49	850
<b>M4</b>					2005	V8 4.4L Optional	{1,50,80,139}	49	850
2017-15	L6 3.0L Li-ion Battery Only	{12,139,276,282}	NA	NA	2005	L6 3.0L	{1,8,24,50,139}	49	720
<b>M5</b>					2004	L6 3.0L Optional	{1,8,24,50,139}	94R	640
2016	V8 4.4L	{1,8,24,50,80,139}	49	850	2003	L6 3.0L	{1,8,24,50,139}	94R	640
2015-12	V8 4.4L Optional	{1,8,24,50,80,139}	95R	950	2002	L6 3.0L Optional	{1,8,24,50,139}	49	720
2010-06	V10 5.0L Optional	{1,8,24,50,139}	94R	640	2001	L6 3.0L Optional	{1,8,24,50,139}	94R	640
2010-06	V10 5.0L Optional	{1,8,24,50,80,139}	49	850	2000	V8 4.4L Optional	{1,8,24,50,139}	94R	640
<b>M550i xDrive</b>					<b>X6</b>				
2018	V8 4.4L Optional	{1,8,24,50,80,139}	95R	950	2018	V8 4.4L	{1,8,24,50,80,139}	49	850
2018	V8 4.4L Auxiliary w/M Sports Suspension	{1,8,24,50,80,261}	47	680	2017-16	V8 4.4L Optional	{1,8,24,50,80,139}	49	850
<b>M6</b>					2017-14	V8 4.4L Optional	{1,8,24,50,139}	48	570
2018-17	V8 4.4L	{1,8,24,50,80,139}	95R	950	2017	L6 3.0L	{139}	NA	NA
2016-13	V8 4.4L Optional	{1,8,24,50,80,139}	95R	950	2015-14	V8 4.4L Optional	{1,8,24,50,80,139}	95R	950
2012	V8 4.4L Optional	{1,8,24,50,139}	95R	950	2013	L6 3.0L Optional	{1,8,24,50,139}	48	570
2012	V8 4.4L	{1,8,24,50,80,139}	49	850	2013	L6 3.0L	{1,8,24,50,80,139}	49	850
2010-06	V10 5.0L	{1,8,24,50,80,139}	49	850	2012	V8 4.4L Optional	{1,8,24,50,139}	48	570
<b>M6 Gran Coupe</b>					2012	V8 4.4L Optional	{1,8,24,50,80,139}	95R	950
2018-16	V8 4.4L	{1,8,24,50,80,139}	95R	950	2011	V8 4.4L Gas, Optional	{1,8,24,50,139}	95R	950
2015-14	V8 4.4L Optional	{1,8,24,50,80,139}	95R	950	2011	V8 4.4L Hybrid	{1,8,24,50,80,139}	48	760
<b>M760Li xDrive</b>					2010	L6 3.0L Optional	{1,8,24,50,139}	49	850
2018	V12 6.6L Optional	{1,8,24,50,80,139}	95R	950	2010	V8 4.4L Gas	{1,8,24,50,80,139}	49	850
2018	V12 6.6L Auxiliary Battery	{1,8,24,50,80,261}	47	680	2009	L6 3.0L	{1,8,24,50,139}	48	570
<b>M760i xDrive</b>					2009	L6 3.0L Optional	{1,8,24,50,80,139}	49	850
2018-17	V12 6.6L Optional	{1,8,24,50,80,139}	95R	950	2008	V8 4.4L Optional	{1,8,24,50,139}	48	570
2018-17	V12 6.6L Auxiliary Battery	{1,8,24,50,80,261}	47	680	2008	V8 4.4L	{1,8,24,50,80,139}	49	850
<b>X1</b>					<b>Z3</b>				
2018	L4 2.0L Optional	{1,8,24,50,80,139}	94R	800	2002	L6 2.5L	{1,139}	48	570
2017-12	L4 2.0L Optional	{1,8,24,50,80,139}	48	760	2001-99	L6 2.5L	{1,139}	48	650
2015-12	L4 2.0L Optional	{1,8,24,50,139}	94R	640	1998-96	L4 1.9L	{1,139}	48	650
<b>X3</b>					<b>Z4</b>				
2018	L4 2.0L Optional	{1,8,24,50,80,139}	94R	800	2016-12	L4 2.0L Optional	{1,8,24,50,80,139}	94R	800
2017-16	L4 2.0L Optional	{1,8,24,50,80,139}	49	850	2011-09	L6 3.0L Optional	{1,8,24,50,80,139}	94R	800
2015-14	L4 2.0L Optional	{1,8,24,50,80,139}	94R	800	2008-06	L6 3.2L	{1,24,139}	47	480
2013	L4 2.0L Optional	{1,8,24,50,139}	95R	950	2008-06	L6 3.0L Optional	{1,8,24,50,139}	48	570
2013	L4 2.0L Optional	{1,8,24,50,80,139}	49	850	2008-06	L6 3.0L Optional	{1,8,24,50,80,139}	48	760
2012-11	L6 3.0L 2979cc, Optional	{1,8,24,50,139}	95R	950	2005-04	L6 2.5L Exc Telematics	{1,46}	47	480
2012-11	L6 3.0L 2996cc	{1,8,24,50,80,139}	49	850	2005-03	L6 3.0L Exc Telematics	{1,24,46}	48	570
2010	L6 3.0L 2996cc	{1,8,24,50,139}	48	570	2003	L6 2.5L	{1,46}	48	570
2010	L6 3.0L 2996cc, Optional	{1,8,24,50,80,139}	49	850	<b>Z8</b>				
2009-07	L6 3.0L Optional	{1,8,24,50,139}	49	720	2003	V8 4.8L	{1,24,139}	49	740
2009-07	L6 3.0L Optional	{1,8,24,50,80,139}	49	850	2002	V8 5.0L	{1,24,139}	49	720
2006-04	L6 2.5L Optional	{1,8,24,50,139}	49	720	2001-00	V8 5.0L	{1,24,139}	49	850
2006-04	L6 2.5L Optional	{1,8,24,50,80,139}	49	850	<b>BUICK</b>				
<b>X4</b>					<b>Enclave</b>				
2018	L4 2.0L Optional	{1,8,24,46,50,80}	94R	800	2019-18	V6 3.6L	{1,80,252}	94R	730
					2017-10	V6 3.6L	{1,252}	48	660

See page 23 for application footnotes.

# VEHICLES REQUIRING LABOR-INTENSIVE BATTERY REPLACEMENT BUICK — CHEVROLET

**IMPORTANT NOTE: BATTERIES CAN EXPLODE!** Always wear safety glasses AND shield eyes when working around batteries. Always check for proper polarity and sufficient terminal clearance BEFORE final installation to avoid dangerous sparks, potential explosion, possible severe personal injury and/or expensive electrical system and/or vehicle/equipment damage or fire.

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>BUICK (Continued)</b>				
<b>Enclave (Continued)</b>				
2009-08	V6 3.6L	{1,252}	48	730
<b>LaCrosse</b>				
2019-18	V6 3.6L	{80,139}	94R	850
2017	V6 3.6L	{80,139}	94R	730
<b>LeSabre</b>				
2005-00	V6 3.8L	{1,41}	100	770
<b>Lucerne</b>				
2011-09	V6 3.9L	{1,41}	94R	720
2008	V6 3.8L	{1,41}	48	730
2007-06	V6 3.8L	{1,41}	79	800
<b>Terraza</b>				
2007	V6 3.9L	{43}	34	600
2006-05	V6 3.5L	{43}	34	600
<b>CADILLAC</b>				
<b>ATS</b>				
2019	L4 2.0L w/o Start Stop	{1,80,139}	48	700
2018-13	L4 2.0L Start Stop	{1,80,139}	94R	730
<b>CT6</b>				
2019	L4 2.0L	{1,80,139}	94R	730
2018-17	L4 2.0L Start Stop	{1,80,139}	49	850
2016	L4 2.0L Start Stop	{80,139}	49	850
<b>CTS</b>				
2019-14	L4 2.0L Start Stop	{1,80,139}	94R	730
2015	L4 2.0L w/o Start Stop	{1,139}	48	660
2014	V6 3.6L w/o Start Stop	{1,139}	48	660
2014	L4 2.0L w/o Start Stop	{1,254}	48	660
2014	V6 3.0L w/o Start Stop	{254}	48	660
2013-10	V6 3.0L	{1,139}	48	660
2009-08	V6 3.6L	{1,139}	48	730
<b>DTS</b>				
2011-09	V8 4.6L	{1,41}	94R	720
2008	V8 4.6L	{1,41}	48	730
2007-06	V8 4.6L	{1,41}	79	800
<b>DeVille</b>				
2005-00	V8 4.6L	{1,41}	79	800
<b>ELR</b>				
2016-14	L4 1.4L Hybrid	{1,80,139}	140R	520
<b>Escalade</b>				
2018-16	V8 6.2L	{328}	94R	720
2015	V8 6.2L Optional	{328}	48	730
<b>Escalade ESV</b>				
2018-16	V8 6.2L	{328}	94R	720
2015	V8 6.2L Optional	{328}	48	730
<b>Seville</b>				
2004-98	V8 4.6L	{1,41}	79	800
<b>CHEVROLET</b>				
<b>C4500 Kodiak</b>				
2009-03	V8 6.6L	{24,179,267}	31T	700
<b>C5500 Kodiak</b>				
2009-03	V8 6.6L	{24,179,267}	31T	700
1991-90	V8 6.0L Optional	{24,179,267}	31T	580
<b>C6500 Kodiak</b>				
2009-05	L6 7.2L Optional	{24,179,267}	31T	750
<b>C7500 Kodiak</b>				
2009-99	L6 7.2L Optional	{24,179,267}	31T	750
1998-97	V8 6.0L Optional	{24,179,267}	31T	625
<b>Camaro</b>				
2019-16	L4 2.0L	{1,80,139}	48	700
2015-10	V6 3.6L	{1,139}	94R	720

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>CHEVROLET (Continued)</b>				
<b>Caprice</b>				
2017	V6 3.6L Police Package, Optional Auxiliary Battery	{1,80,139}	48	700
2016	V6 3.6L Police Package	{139}	94R	700
2016	V6 3.6L	{1,80,139}	48	700
2015-14	V6 3.6L Police Package, Optional Auxiliary Battery	{1,80,139}	48	700
2013-12	V6 3.6L Police Package	{1,139}	94R	765
2011	V8 6.0L Police Package	{1,139}	94R	765
<b>Cobalt</b>				
2010-09	L4 2.0L	{1,139,260}	90	590
2008-05	L4 2.0L	{1,139,260}	90	600
<b>Corvette</b>				
2019-14	V8 6.2L	{1,139}	48	615
2010	V8 6.2L Exc Z52	{139}	85	590
<b>Cruze</b>				
2018-16	L4 1.4L w/o Start Stop	{1,139}	47	525
2018-16	L4 1.4L Start Stop	{1,80,139}	94R	730
<b>HHR</b>				
2011	L4 2.2L	{1,139}	90	600
2010-08	L4 2.0L	{1,139}	90	600
2007-06	L4 2.2L	{1,139}	90	600
<b>Impala</b>				
2018	L4 2.5L Start Stop Auxiliary	{1,80,139}	401	180
2017	L4 2.5L Auxiliary Battery	{1,80,139}	401	155
2016-14	L4 2.5L Start Stop Auxiliary	{1,80,139}	401	155
<b>Lumina</b>				
2001-96	V6 3.1L	{42}	78	600
1995-94	V6 3.1L	{42}	75	525
1993	L4 2.2L	{42}	75	525
1992-90	L4 2.5L	{42}	75	630
<b>Lumina APV</b>				
1996	V6 3.4L	{43}	75	525
1995-90	V6 3.1L	{43}	75	525
<b>Malibu</b>				
2018	L4 1.8L Hybrid	{139}	47	525
2015-13	L4 2.5L Start Stop Auxiliary	{1,80,139}	401	155
<b>Malibu Limited</b>				
2016	L4 2.5L Auxiliary Battery	{1,80,139}	401	155
<b>Monte Carlo</b>				
2005-01	V6 3.4L	{42}	78	600
2000	V6 3.4L Optional	{42}	78	690
1999-96	V6 3.1L	{42}	78	600
1995	V6 3.1L	{42}	75	690
<b>SS</b>				
2015	V8 6.2L	{1,80,139}	48	730
2014	V8 6.2L	{1,80,139}	48	700
<b>Silverado 1500</b>				
2019-15	V6 4.3L	{328}	48	730
2019	L4 2.7L	{80,328}	94R	720
<b>Silverado 1500 LD</b>				
2019	V8 5.3L	{328}	94R	720
<b>Silverado 1500 Legacy</b>				
2019	V8 5.3L	{328}	94R	720
<b>Silverado 2500</b>				
2018	V8 5.3L	{328}	94R	720
2017	V6 4.3L	{328}	94R	720
2016-14	V8 5.3L	{328}	94R	720
<b>Silverado 2500 HD</b>				
2019-15	V8 6.6L Diesel	{15,328}	48	730
2019	V8 6.0L Primary Battery	{328}	94R	720
2017-15	V8 6.0L Primary Battery	{328}	94R	720

# VEHICLES REQUIRING LABOR-INTENSIVE BATTERY REPLACEMENT

## CHEVROLET — DODGE

**IMPORTANT NOTE: BATTERIES CAN EXPLODE!** Always wear safety glasses AND shield eyes when working around batteries. Always check for proper polarity and sufficient terminal clearance BEFORE final installation to avoid dangerous sparks, potential explosion, possible severe personal injury and/or expensive electrical system and/or vehicle/equipment damage or fire.

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F	YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>CHEVROLET (Continued)</b>					<b>CHRYSLER (Continued)</b>				
<b>Silverado 3500</b>					<b>300 (Continued)</b>				
2018-16	V8 6.0L Primary Battery	{328}	94R	720	2007-05	V6 2.7L	{1,139}	94R	730
2015	V8 6.0L	{328}	94R	720	<b>300M</b>				
<b>Silverado 3500 HD</b>					2004-02	V6 3.5L	{45}	34	600
2020-15	V8 6.6L Diesel	{15,328}	48	730	2001-98	V6 3.5L	{40}	34	600
2019-15	V8 6.0L Primary Battery	{328}	94R	720	<b>Cirrus</b>				
<b>Silverado 4500 HD</b>					2000-95	L4 2.4L	{40}	75	510
2019	V8 6.6L Diesel	{15,328}	48	730	2000	L4 2.0L	{251}	75	510
<b>Silverado 5500 HD</b>					<b>Concorde</b>				
2019	V8 6.6L Diesel	{15,328}	48	730	2004-02	V6 2.7L	{251}	34	500
<b>Silverado 6500 HD</b>					2001-98	V6 2.7L	{40}	34	500
2019	V8 6.6L Diesel	{15,328}	48	730	<b>Grand Voyager</b>				
<b>T6500</b>					2000	V6 3.0L	{249}	34	500
2009-07	L6 7.8L Optional	{24,179,267}	31T	750	<b>Intrepid</b>				
2006-05	L6 7.8L	{24,179,267}	31T	700	2004-03	V6 2.7L Optional	{40}	34	600
2004	L6 7.8L Optional	{24,179,267}	31T	750	2002-98	V6 2.7L	{40}	34	500
2002-99	L6 7.2L Optional	{24,179,267}	31T	750	<b>LHS</b>				
1998-97	V8 6.0L Optional	{24,179,267}	31T	625	2001-99	V6 3.5L	{40}	34	600
<b>T7500</b>					<b>Prowler</b>				
2009-04	L6 7.8L Optional	{24,179,267}	31T	750	2002-01	V6 3.5L	{251}	34	525
2002-99	L6 7.2L Optional	{24,179,267}	31T	750	<b>Sebring</b>				
1998-97	V8 6.0L Optional	{24,179,267}	31T	625	2010	L4 2.4L Convertible Or Sedan	{40}	86	525
<b>T8500</b>					2009-08	L4 2.4L Convertible Or Sedan	{40,276}	86	525
2009-04	L6 7.8L Optional	{24,179,267}	31T	750	2007	L4 2.4L Convertible Or Sedan	{40}	86	525
<b>Tahoe</b>					2006	L4 2.4L Convertible Or Sedan	{251}	75	510
2020	V8 5.3L	{328}	NA	NA	2005-04	L4 2.4L Coupe	{40}	86	525
2019	V8 5.3L Primary Battery	{328}	94R	720	2005	V6 2.7L Convertible Or Sedan	{251}	75	510
2018-16	V8 5.3L	{328}	94R	720	2004	L4 2.4L Conv	{251}	75	510
2015	V8 5.3L Optional	{328}	48	730	2003	L4 2.4L Convertible Or Sedan	{251}	75	510
<b>Traverse</b>					2003	L4 2.4L Convertible Or Sedan	{40}	75	510
2019-18	L4 2.0L	{80,266}	94R	730	2002	L4 2.4L Conv	{251}	75	510
2017	V6 3.6L	{1,302}	48	660	2002	L4 2.4L Coupe	{40}	86	525
2016-14	V6 3.6L	{1,266}	48	660	2001	V6 2.7L Coupe	{251}	86	525
2013	V6 3.6L	{1,184}	48	660	2001	L4 2.4L Convertible Or Sedan	{40}	75	510
2012-09	V6 3.6L	{1,266}	48	660	2000	V6 2.5L Conv	{251}	75	510
<b>Trax</b>					1999	V6 2.5L Conv	{40}	75	510
2019-18	L4 1.4L Start Stop	{80,266}	48	730	1998	L4 2.4L w/AT	{40}	75	510
<b>Uplander</b>					1997-96	V6 2.5L Conv	{40}	75	510
2009-07	V6 3.9L	{43}	34	600	<b>Voyager</b>				
2006-05	V6 3.5L	{43}	34	600	2003-01	V6 3.3L	{249}	34	600
<b>Venture</b>					2000	V6 3.0L	{249}	34	500
2005-97	V6 3.4L	{43}	78	600	<b>DODGE</b>				
<b>Volt</b>					<b>Avenger</b>				
2019	L4 1.5L Hybrid	{1,80,139}	47	630	2014-11	L4 2.4L	{251}	86	525
2018-16	L4 1.5L Hybrid	{1,80,139}	47	600	2010	L4 2.0L	{251}	86	525
2015-11	L4 1.4L Hybrid	{1,80,139}	47	600	2009-08	L4 2.0L	{251,276}	86	525
<b>W4500 Tiltmaster</b>					2000	V6 2.5L	{251}	86	525
2008-05	L4 5.2L Optional	{24,179,267}	31T	750	1999-95	L4 2.0L	{251}	86	525
<b>W5500 Tiltmaster</b>					<b>Challenger</b>				
2010-05	L4 5.2L Optional	{24,179,267}	31T	750	2020	V6 3.6L	{139}	NA	NA
<b>W5500HD Tiltmaster</b>					2019-11	V6 3.6L	{1,139}	94R	730
2008-05	L4 5.2L Optional	{24,179,267}	31T	750	2010	V6 3.5L	{1,139}	94R	730
2004	L4 4.8L Optional	{24,179,267}	31T	700	2009	V6 3.5L	{1,139,276}	94R	730
<b>CHRYSLER</b>					2008	V8 6.1L	{1,139,276}	94R	730
<b>200</b>					<b>Charger</b>				
2014-11	L4 2.4L	{249}	86	525	2020	V6 3.6L	{139}	NA	NA
<b>300</b>					2019	V6 3.6L	{1,139}	94R	730
2020	V6 3.6L	{139}	NA	NA	2018	V6 3.6L Police Package	{1,139}	94R	730
2019-11	V6 3.6L	{1,139}	94R	730	2017	V6 3.6L Police Package	{1,139}	49	800
2010	V6 2.7L	{1,139}	94R	730	2016-11	V6 3.6L Exc Police	{1,139}	94R	730
2009-08	V6 3.5L	{1,139}	94R	730	2010	V6 2.7L	{1,139}	94R	730
2009-08	V6 2.7L	{1,139,276}	94R	730	2009-08	V6 2.7L	{1,139,276}	94R	730

See page 23 for application footnotes.

# VEHICLES REQUIRING LABOR-INTENSIVE BATTERY REPLACEMENT

## DODGE — FORD

**IMPORTANT NOTE: BATTERIES CAN EXPLODE!** Always wear safety glasses AND shield eyes when working around batteries. Always check for proper polarity and sufficient terminal clearance BEFORE final installation to avoid dangerous sparks, potential explosion, possible severe personal injury and/or expensive electrical system and/or vehicle/equipment damage or fire.

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F	YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>DODGE (Continued)</b>					<b>FORD (Continued)</b>				
<b>Charger (Continued)</b>					<b>E-150 Econoline Club Wagon</b>				
2007-06	V6 2.7L	{1,139}	94R	730	2002-01	V6 4.2L Auxiliary Battery	{3,255}	65	625
<b>Durango</b>					2000-99 V8 4.6L Auxiliary Battery {3,255} 65 625				
2020-19	V6 3.6L	{256}	NA	NA	1998	V6 4.2L Auxiliary Battery	{3,255}	65	625
2018	V6 3.6L w/o Start Stop	{1,80,256}	94R	700	1997	V6 4.2L Optional	{3,255}	65	750
2017-16	V6 3.6L Start Stop	{1,80,256}	48	760	<b>E-250</b>				
2015-14	V6 3.6L	{1,80,256}	94R	730	2014-10	V8 4.6L Secondary Battery	{3,255}	65	750
2013-11	V6 3.6L	{1,80,256}	94R	700	2009	V8 4.6L Secondary Battery	{3,255}	65	625
<b>Intrepid</b>					2008-07 V8 4.6L Secondary Battery {3,255} 65 750				
2004-00	V6 2.7L	{45}	34	500	2006-04	V8 4.6L Secondary Battery	{3,255}	65	625
1999-98	V6 2.7L	{40}	34	500	2003	V6 4.2L Secondary Battery	{3,255}	65	625
<b>Journey</b>					<b>E-350 Club Wagon</b>				
2019-09	L4 2.4L	{265}	86	525	2005-03	V8 5.4L Secondary Battery	{3,255}	65	625
<b>Magnum</b>					<b>E-350 Super Duty</b>				
2008-05	V6 2.7L	{1,139}	94R	730	2019-18	V8 6.2L Auxiliary Battery	{303}	65	750
<b>Sprinter 2500</b>					2017 V10 6.8L Auxiliary Battery {303} 65 750				
2009-07	V6 3.0L Diesel	{1,231}	49	850	2015-07	V8 5.4L Secondary Battery	{3,255}	65	750
2006-03	L5 2.7L Diesel	{1,231}	49	850	2006-04	V8 5.4L Secondary Battery	{3,255}	65	625
<b>Sprinter 3500</b>					<b>E-450 Econoline Super Duty</b>				
2009-07	V6 3.0L Diesel	{1,231}	49	850	2002-00	V8 5.4L Auxiliary Battery	{3,255}	65	625
2006-03	L5 2.7L Diesel	{1,231}	49	850	<b>E-450 Super Duty</b>				
<b>Stratus</b>					2015-10 V8 5.4L Secondary Battery {3,255} 65 750				
2006-01	L4 2.0L	{40}	NA	NA	2009-06	V8 5.4L Secondary Battery	{3,255}	65	625
2000-95	L4 2.0L	{40}	86	510	2005	V10 6.8L Secondary Battery	{3,255}	65	625
<b>Viper</b>					2004-03 V8 5.4L Secondary Battery {3,255} 65 625				
2010-08	V10 8.4L	{46}	34	600	<b>Escape</b>				
2006-03	V10 8.3L	{152}	34	600	2020	L3 1.5L	{322}	NA	NA
2002-98	V10 8.0L	{152}	78	650	2019	L4 2.5L	{322}	96R	590
1997-93	V10 8.0L	{152}	78	770	2019	L4 1.5L	{80,322}	48	760
1992	V10 8.0L	{152}	78	650	2018	L4 1.5L w/o Start Stop	{322}	96R	590
<b>FERRARI</b>					2018 L4 1.5L Start Stop {80,322} 48 760				
<b>360</b>					2017 L4 1.5L w/o Intelligent Access, w/o Start Stop {322} 96R 590				
2008	V8 3.6L	{1,8,80,262}	48	760	2017	L4 1.5L w/Intelligent Access, Start Stop	{80,322}	48	760
2006-00	V8 3.6L	{1,8,80,262}	48	760	2016-15	L4 1.6L	{322}	96R	590
<b>458 Italia</b>					2014-13 L4 1.6L Optional {322} 96R 590				
2012-11	V8 4.5L	{1,8,80,208}	48	760	<b>F-150</b>				
2010	V8 4.5L	{1,8,80,262}	48	760	2019-15	V6 2.7L Exc King Ranch, Lariat, Platinum	{50,80,261}	48	760
<b>599 GTB</b>					2017 V6 3.5L Exc King Ranch, Lariat, Platinum {50,261} 48 610				
2009-06	V12 6.0L	{1,8,139}	34R	850	2016	V6 2.7L King Ranch, Lariat, Platinum	{50,261}	94R	800
<b>612 Scaglietti</b>					2015 V6 3.5L Exc King Ranch, Lariat, Platinum {50,261} 48 610				
2010-05	V12 5.7L	{1,8,139}	34R	850	2014-11	V6 3.5L	{50,261}	65	750
<b>California</b>					<b>F-250 Super Duty</b>				
2014-09	V8 4.3L Start Stop	{1,24,80,139}	49	NA	2019-17	V8 6.2L Exc XL	{50,261}	65	750
2014	V8 4.3L w/o Start Stop	{1,8,139}	34R	850	2019-11	V8 6.7L Diesel	{15,50,261}	65	750
2013	V8 4.3L w/o Start Stop	{1,8,139}	34R	450	2016-11	V8 6.2L Optional	{50,261}	65	750
2012-09	V8 4.3L w/o Start Stop	{1,8,139}	34R	850	<b>F-350</b>				
<b>F430</b>					2016 V8 6.2L {50,261} 65 650				
2009-06	V8 4.3L	{1,8,262}	34R	760	<b>F-350 Super Duty</b>				
<b>FORD</b>					2019-17 V8 6.2L Exc XL {50,261} 65 750				
<b>C-Max</b>					2019-11 V8 6.7L Diesel {15,50,261} 65 750				
2018-17	L4 2.0L Hybrid	{1,139}	67R	390	2016-11	V8 6.2L Optional	{50,261}	65	750
2014	L4 2.0L Hybrid	{1,254}	67R	390	<b>Fusion</b>				
2013	L4 2.0L Hybrid	{1,250}	67R	390	2019-18	L4 2.0L Hybrid	{280}	90	590
<b>E-150</b>					2019-18 L4 2.0L Gas w/Intelligent Access {322} 90 590				
2014-07	V8 4.6L Secondary Battery	{3,255}	65	750	2019-18	L4 1.5L	{80,322}	48	760
2014	V8 4.6L w/Flex Fuel	{255}	65	650	2017-15	L4 1.5L w/Intelligent Access	{322}	90	590
2006-04	V8 4.6L Secondary Battery	{3,255}	65	625	<b>FORD (Continued)</b>				
2003	V6 4.2L Secondary Battery	{3,255}	65	625	<b>E-150 Econoline Club Wagon</b>				
<b>E-150 Club Wagon</b>					2002-01 V6 4.2L Auxiliary Battery {3,255} 65 625				
2005-04	V8 4.6L Secondary Battery	{3,255}	65	625	2000-99	V8 4.6L Auxiliary Battery	{3,255}	65	625
2003	V6 4.2L Secondary Battery	{3,255}	65	625	1998	V6 4.2L Auxiliary Battery	{3,255}	65	625



# VEHICLES REQUIRING LABOR-INTENSIVE BATTERY REPLACEMENT

## FORD— HINO

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YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F	YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>FORD (Continued)</b>					<b>GMC (Continued)</b>				
<b>Fusion (Continued)</b>					<b>Sierra</b>				
2017-15	L4 1.5L Start Stop	{80,322}	48	760	2020-15	V8 5.3L	{328}	NA	NA
2017-13	L4 2.0L Hybrid	{1,280}	99R	390	<b>Sierra 1500</b>				
<b>GT</b>					2020	L4 2.7L	{328}	NA	NA
2020-17	V6 3.5L Li-ion Battery Only	{12,276,282,331}	NA	NA	2019-17	V6 4.3L	{328}	48	730
<b>LCF</b>					2019	L4 2.7L	{1,80,328}	94R	800
2010-06	V6 4.5L Optional	{24,179,267}	31T	925	2018	V8 5.3L Start Stop	{80,328}	94R	730
<b>Thunderbird</b>					2016	V6 4.3L	{328}	94R	720
2005-02	V8 3.9L	{1,139}	66	650	2015	V6 4.3L	{328}	48	730
<b>Transit-150</b>					<b>Sierra 2500 HD</b>				
2019-15	V6 3.5L	{1,153}	48	610	2020	V8 6.6L	{328}	NA	NA
2019-15	L5 3.2L Diesel	{1,15,80,153}	48	760	2019-15	V8 6.6L Diesel	{15,328}	48	730
<b>Transit-250</b>					2019	V8 6.0L Auxiliary Battery	{328}	48	730
2019-15	V6 3.5L	{1,153}	48	610	2019	V8 6.0L	{80,328}	94R	730
2019-15	L5 3.2L Diesel	{1,15,80,153}	48	760	2018	V8 6.0L w/o Start Stop	{328}	94R	720
<b>Transit-350</b>					2018	V8 6.0L Start Stop	{80,328}	94R	730
2019-15	V6 3.5L	{1,153}	48	610	2017	V8 6.0L	{80,328}	94R	730
2019-15	L5 3.2L Diesel	{1,15,80,153}	48	760	2016-15	V8 6.0L	{328}	94R	720
<b>Transit-350 HD</b>					<b>Sierra 3500 HD</b>				
2019-15	L5 3.2L Diesel	{1,15,80,153}	48	760	2020	V8 6.6L	{328}	NA	NA
2019	V6 3.5L	{1,153}	48	760	2019-15	V8 6.6L Diesel	{15,328}	48	730
2018	V6 3.5L	{1,153}	48	610	2019	V8 6.0L Auxiliary Battery	{328}	48	730
2017	V6 3.5L	{1,80,153}	48	760	2019	V8 6.0L	{80,328}	94R	730
2016-15	V6 3.5L	{80,153}	48	760	2018	V8 6.0L w/o Start Stop	{328}	94R	720
<b>FREIGHTLINER</b>					2018	V8 6.0L Start Stop	{80,328}	94R	730
<b>Sprinter 2500</b>					2017	V8 6.0L	{80,328}	94R	730
2017	L4 2.1L Diesel, Optional	{1,231}	49	760	2016-15	V8 6.0L	{328}	94R	720
2017	L4 2.1L Diesel	{1,80,231}	48	680	<b>T6500</b>				
2016-15	L4 2.1L Diesel, Optional	{1,80,231}	49	850	2009-05	L6 7.8L Optional	{24,179,267}	31T	750
2016	L4 2.1L Diesel	{1,231}	49	850	<b>T7500</b>				
2015	L4 2.1L Diesel, Optional	{1,231}	49	760	2009-04	L6 7.8L Optional	{24,179,267}	31T	700
2014	L4 2.1L Diesel	{1,231}	49	850	2002-99	L6 7.2L Optional	{24,179,267}	31T	750
2013-07	V6 3.0L Diesel	{1,231}	49	850	1998-97	V8 6.0L Optional	{24,179,267}	31T	625
2006-02	L5 2.7L Diesel	{1,231}	49	850	<b>W4500 Forward</b>				
<b>Sprinter 3500</b>					2008-05	L4 5.2L Diesel	{24,179,267}	31T	700
2017-15	L4 2.1L Diesel, Optional	{1,80,231}	49	850	<b>W5500 Forward</b>				
2017	L4 2.1L Diesel, Optional	{1,231}	49	760	2010-05	L4 5.2L Optional	{24,179,267}	31T	750
2016-14	L4 2.1L Diesel	{1,231}	49	850	2004	L6 7.8L Optional	{24,179,267}	78	750
2015	L4 2.1L Diesel, Optional Auxiliary	{8,12,80,231}	NA	170	<b>W5500HD Forward</b>				
2013-07	V6 3.0L Diesel	{1,231}	49	850	2009-05	L4 5.2L Optional	{24,179,267}	31T	750
2006-02	L5 2.7L Diesel	{1,231}	49	850	2004	L4 4.8L Optional	{24,179,267}	31T	700
<b>GENESIS</b>					<b>Yukon</b>				
<b>G80</b>					2020	V8 5.3L	{328}	NA	NA
2020	V6 3.3L	{139}	NA	NA	2019-16	V8 5.3L	{328}	94R	720
2019-18	V6 3.3L	{1,80,139}	95R	950	2015	V8 5.3L Optional	{328}	48	730
2017	V6 3.8L	{1,80,139}	95R	950	<b>Yukon XL</b>				
<b>G90</b>					2020	V8 5.3L	{328}	NA	NA
2019	V6 3.3L	{1,80,139}	95R	950	2019-15	V8 5.3L	{328}	94R	720
2018-17	V6 3.3L	{139}	95R	950	<b>HINO</b>				
<b>GMC</b>					145				
<b>Acadia</b>					2010-05	L4 4.7L	{15,24,267}	31T	625
2015-10	V6 3.6L	{1,184}	48	660	<b>155</b>				
2009-07	V6 3.6L	{1,184}	48	730	2020-12	L4 5.0L	{15,24,267}	31T	625
<b>C4500 Topkick</b>					<b>165</b>				
2008-05	V8 6.6L	{24,179,267}	78	600	2010-05	L4 4.7L	{15,24,267}	31T	625
<b>C5500 Topkick</b>					<b>185</b>				
2008-05	V8 6.6L	{24,179,267}	78	600	2010-05	L4 4.7L	{15,24,267}	31T	625
<b>C6500 Topkick</b>					<b>195</b>				
2009-05	L6 7.2L	{24,179,267}	78	600	2020-12	L4 5.0L	{15,24,267}	31T	625
<b>C7500 Topkick</b>					<b>195DC</b>				
2009-05	L6 7.2L Optional	{24,179,267}	31T	750	2014	L4 5.0L	{15,24,267}	31T	625

See page 23 for application footnotes.



# VEHICLES REQUIRING LABOR-INTENSIVE BATTERY REPLACEMENT

## HINO

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YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F	YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>HINO (Continued)</b>					<b>HINO (Continued)</b>				
195h					FD2218				
2019-15	L4 5.0L	{15,24,267}	31T	625	1997-93	L6 6.5L	{15,24,267}	31T	625
2014	L4 5.0L	{15,24,267}	31T	925	FD2218LP				
2013-12	L4 5.0L	{15,24,267}	31T	625	1997-93	L6 6.5L	{15,24,267}	31T	625
195h DC					FD2220				
2014	L4 5.0L	{15,24,267}	31T	625	2002-98	L6 8.0L	{15,24,267}	31T	625
198					FD2320				
2020-11	L6 7.7L	{15,24,267}	31T	625	2004-03	L6 8.0L	{15,24,267}	31T	625
238					FE16				
2014-05	L6 7.7L	{15,24,267}	31T	625	1987-86	L6 5.8L	{15,24,267}	31T	625
258					FE17				
2020-06	L6 7.7L	{15,24,267}	31T	625	1992-84	L6 6.7L	{15,24,267}	31T	625
258ALP					FE19				
2014-08	L6 7.7L	{15,24,267}	31T	625	1992-85	L6 6.5L	{15,24,267}	31T	625
258LP					FE20				
2014-06	L6 7.7L	{15,24,267}	31T	625	1992	L6 6.5L	{15,24,267}	31T	625
268					FE2618				
2020-05	L6 7.7L	{15,24,267}	31T	625	1997-93	L6 6.5L	{15,24,267}	31T	625
268A					FE2620				
2014-08	L6 7.7L	{15,24,267}	31T	625	2004-98	L6 8.0L	{15,24,267}	31T	625
300					FF17				
2019-15	L4 4.0L	{15,24,267}	31T	625	1991-84	L6 6.7L	{15,24,267}	31T	625
308					FF19				
2008-05	L6 7.7L	{15,24,267}	31T	625	1992-90	L6 6.5L	{15,24,267}	31T	625
338					1989	L6 5.9L	{15,24,267}	31T	625
2020-05	L6 7.7L	{15,24,267}	31T	625	1988-84	L6 6.5L	{15,24,267}	31T	625
338CT					FF20				
2014-08	L6 7.7L	{15,24,267}	31T	625	1992	L6 6.5L	{15,24,267}	31T	625
358					FF23				
2017-08	L6 7.7L	{15,24,267}	31T	625	1992	L6 6.5L	{15,24,267}	31T	625
500					FF3018				
2019-15	L4 4.7L	{15,24,267}	31T	625	1997-93	L6 6.5L	{15,24,267}	31T	625
BF1524M					FF3020				
2017	L6 7.7L	{15,24,267}	31T	625	2004	L6 8.0L	{15,24,267}	31T	625
BF918G					2002-98	L6 8.0L	{15,24,267}	31T	625
2017	L4 5.1L	{15,24,267}	31T	625	1997-93	L6 6.5L	{15,24,267}	31T	625
BF918K					FFC1				
2017	L4 5.1L	{15,24,267}	31T	625	1988-86	L6 5.9L	{15,24,267}	31T	625
BR1425S					FG19				
2017	L6 7.7L	{15,24,267}	31T	625	1986-85	L6 6.5L	{15,24,267}	31T	625
FA14					FG22				
1991-89	L4 3.8L	{15,24,267}	31T	625	1985-84	L6 9.4L	{15,24,267}	31T	625
FA1415					GC17				
1997-93	L4 3.8L	{15,24,267}	31T	625	1991-90	L6 6.7L	{15,24,267}	31T	625
FA15					GC20				
1992	L4 3.8L	{15,24,267}	31T	625	1992	L6 6.5L	{15,24,267}	31T	625
FA1517					SF17				
2004-98	L4 5.3L	{15,24,267}	31T	625	1991-90	L6 6.7L	{15,24,267}	31T	625
FB14					1989	L6 6.5L	{15,24,267}	31T	625
1991-87	L4 3.8L	{15,24,267}	31T	625	1988	L6 6.7L	{15,24,267}	31T	625
FB15					SG19				
1992	L4 3.8L	{15,24,267}	31T	625	1992-86	L6 6.5L	{15,24,267}	31T	625
FB1715					SG20				
1997-93	L4 3.8L	{15,24,267}	31T	625	1992	L6 6.5L	{15,24,267}	31T	625
FB1817					SG22				
2004-98	L4 5.3L	{15,24,267}	31T	625	1987-86	L6 9.4L	{15,24,267}	31T	625
FD16					SG23				
1987-86	L6 5.8L	{15,24,267}	31T	625	1992-86	L6 6.5L	{15,24,267}	31T	625
FD17					SG231				
1992-88	L6 6.7L	{15,24,267}	31T	625	1992-89	L6 6.5L	{15,24,267}	31T	625
FD20					SG3320				
1992	L6 6.5L	{15,24,267}	31T	625	2004	L6 8.0L	{15,24,267}	31T	625

See page 23 for application footnotes.

# VEHICLES REQUIRING LABOR-INTENSIVE BATTERY REPLACEMENT

## HINO — LAMBORGHINI

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YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F	YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>HINO (Continued)</b>					<b>JAGUAR (Continued)</b>				
<b>SG3320 (Continued)</b>					<b>XFR-S</b>				
2002-98	L6 8.0L	{15,24,267}	31T	625	2015-13	V8 5.0L	{1,254}	49	800
1997-93	L6 6.5L	{15,24,267}	31T	625	<b>XJ</b>				
<b>SG3323</b>					2019-18	V6 3.0L	{254}	NA	NA
1997-93	L6 6.5L	{15,24,267}	31T	625	2017-14	V6 3.0L	{80,254}	49	900
<b>SG3325</b>					2015-14	V8 5.0L	{1,254}	49	800
2004-98	L6 8.0L	{15,24,267}	31T	625	2013	V6 3.0L	{1,254}	49	800
<b>SG5523</b>					2012-11	V8 5.0L	{1,254}	49	800
1996-93	L6 6.5L	{15,24,267}	31T	625	<b>XJB</b>				
<b>HYUNDAI</b>					2009-07	V8 4.2L	{1,254}	49	950
<b>Equus</b>					2006-04	V8 4.2L	{1,254}	49	750
2016-12	V8 5.0L	{1,139}	49	740	2003-98	V8 4.0L	{1,254}	49	680
2011	V8 4.6L	{139}	49	740	<b>XJR</b>				
<b>Genesis</b>					2017-14	V8 5.0L	{254}	NA	NA
2016-15	V6 3.8L	{1,80,139}	95R	950	2009-07	V8 4.2L	{1,254}	49	950
2014-09	V6 3.8L	{1,139}	49	740	2006-04	V8 4.2L	{1,254}	49	750
<b>Sonata</b>					2003	V8 4.0L	{1,254}	49	680
2019	L4 2.0L Hybrid	{1,139,247}	H6R	600	2002-98	V8 4.0L	{254}	49	680
2017-16	L4 2.0L Hybrid	{1,139,247}	H6R	600	1997	L6 4.0L	{254}	49	680
2015	L4 2.4L Hybrid	{1,139,247}	H6R	600	1996-95	L6 4.0L	{254}	47	590
<b>Tucson</b>					<b>XK</b>				
2020	L4 2.4L	{139}	NA	NA	2015-14	V8 5.0L	{1,254}	93	800
2019	L4 2.0L	{1,139}	48	640	2013-10	V8 5.0L	{1,254}	49	800
2018-17	L4 2.0L	{139}	48	640	2009-07	V8 4.2L	{1,254}	93	800
2018-16	L4 1.6L	{1,139}	48	640	<b>XK8</b>				
2016	Electric Electric/Hydrogen	{139}	47	600	2006-04	V8 4.2L	{1,254}	49	750
<b>INFINITI</b>					2003	V8 4.2L	{254}	49	680
<b>M35h</b>					2002-97	V8 4.0L	{254}	49	680
2013-12	V6 3.5L Hybrid	{1,139}	24F	700	<b>XKR</b>				
<b>Q50</b>					2015-14	V8 5.0L	{254}	NA	NA
2019	L4 2.0L Rear	{139,281}	NA	600	2013-10	V8 5.0L	{1,254}	49	800
2018	V6 3.5L Hybrid	{12,139}	NA	NA	2013	V6 3.0L	{254}	NA	NA
2017	V6 3.5L Hybrid	{139}	NA	NA	2009-07	V8 4.2L	{1,254}	93	800
2016	V6 3.5L Hybrid	{12,139}	NA	NA	2006-04	V8 4.2L	{1,254}	49	750
2015-14	V6 3.5L Hybrid	{1,139}	35	585	2003	V8 4.2L	{254}	49	680
<b>Q60</b>					2002-00	V8 4.0L	{254}	49	680
2018	L4 2.0L Front	{139,281}	NA	780	<b>XKR-S</b>				
2017	L4 2.0L Rear	{139,281}	NA	600	2013-12	V8 5.0L	{1,254}	49	800
<b>Q70</b>					<b>JEEP</b>				
2015-14	V6 3.5L Hybrid	{1,139}	35	585	<b>Grand Cherokee</b>				
<b>JAGUAR</b>					2018	V6 3.0L Diesel	{1,47,256}	49	800
<b>S-Type</b>					2018	V6 3.0L Aux, Diesel	{80,256}	400	200
2008-07	V6 3.0L	{1,254}	49	950	2017	V8 5.7L	{1,47,256}	49	800
2006-04	V6 3.0L	{1,254}	49	750	2017	V6 3.6L	{1,80,256}	49	800
2003	V6 3.0L Optional	{1,254}	49	750	2015-14	V6 3.0L Diesel	{1,80,256}	49	800
2002	V6 3.0L Optional	{1,254}	49	680	2013-11	V6 3.6L	{1,80,256}	94R	700
2001-00	V6 3.0L	{1,254}	49	680	<b>KIA</b>				
<b>Vanden Plas</b>					<b>Forte5</b>				
2009	V8 4.2L	{1,139}	93	680	2017	L4 1.6L	{326}	47	550
2008-04	V8 4.2L	{139}	93	680	<b>Niro</b>				
<b>XF</b>					2017	L4 1.6L Hybrid	{12,139,282}	NA	NA
2019-18	L4 2.0L	{254}	NA	NA	<b>Optima</b>				
2017-16	L4 2.0L	{80,254}	94R	850	2015-13	L4 2.4L Hybrid	{139,247}	H6R	600
2015-13	L4 2.0L	{1,254}	49	800	<b>LAMBORGHINI</b>				
2015-13	V6 3.0L	{80,254}	49	900	<b>Gallardo</b>				
2012	V6 3.0L	{1,254}	49	800	2014-13	V10 5.2L	{253}	NA	NA
2011-10	V8 5.0L	{1,254}	49	800	2012-10	V10 5.2L	{1,253}	49	800
2009	V8 4.2L	{1,254}	49	800	2009-08	V10 5.0L	{1,253}	49	800
<b>XFR</b>									
2015-10	V8 5.0L	{1,254}	49	800					

See page 23 for application footnotes.

# VEHICLES REQUIRING LABOR-INTENSIVE BATTERY REPLACEMENT LAND ROVER — MERCEDES-BENZ

**IMPORTANT NOTE: BATTERIES CAN EXPLODE!** Always wear safety glasses AND shield eyes when working around batteries. Always check for proper polarity and sufficient terminal clearance BEFORE final installation to avoid dangerous sparks, potential explosion, possible severe personal injury and/or expensive electrical system and/or vehicle/equipment damage or fire.

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>LAND ROVER</b>				
<b>Range Rover</b>				
2017	V6 3.0L Start Stop Auxiliary	{1,8,80,250}	400	200
2016-14	V6 3.0L Start Stop Auxiliary	{1,8,12,80,250}	NA	NA
2016-14	V6 3.0L	{1,8,80,250}	49	850
2013	V8 5.0L Start Stop Auxiliary	{1,8,12,80,250}	NA	NA
2013	V8 5.0L	{1,8,80,250}	49	850
<b>Range Rover Evoque</b>				
2017	L4 2.0L	{1,8,80,250}	49	850
<b>Range Rover Sport</b>				
2017	V6 3.0L Start Stop Auxiliary	{1,8,80,250}	400	200
2016-15	V6 3.0L Start Stop Auxiliary	{1,8,12,80,250}	NA	NA
2016-15	V6 3.0L	{1,8,80,250}	49	850
2014	V6 3.0L Auxiliary Battery	{1,8,80,250}	400	200
<b>LEXUS</b>				
<b>CT200h</b>				
2017-11	L4 1.8L Hybrid	{1,50,80,250}	S46B24R	325
<b>ES300h</b>				
2020	L4 2.5L Hybrid	{139}	NA	NA
2019-13	L4 2.5L Hybrid	{1,80,139,235}	S65D26R	450
<b>GS450h</b>				
2018-13	V6 3.5L Hybrid	{1,50,80,139,235}	S65D26L	360
2011-07	V6 3.5L Hybrid	{1,50,80,139,235}	S65D26L	360
<b>HS250h</b>				
2012-10	L4 2.4L Hybrid	{1,50,80,139,235}	S55D23R	360
<b>LC500</b>				
2019-18	V8 5.0L Exc Cold Climate	{1,139}	48	600
<b>LC500h</b>				
2019-18	V6 3.5L Hybrid	{1,139}	48	690
<b>LFA</b>				
2012	V10 4.8L	{1,50,80,139}	S75D31R	450
<b>LS500</b>				
2019-18	V6 3.5L Exc Executive, Luxury, F Sport Plus Pkg	{1,139}	48	605
<b>LS500h</b>				
2020	V6 3.5L	{139}	NA	NA
2019-18	V6 3.5L Hybrid, Exc Executive Pkg	{1,139}	48	605
<b>LS600h</b>				
2016-08	V8 5.0L Hybrid	{1,50,80,139,235}	S75D31L	450
<b>NX300h</b>				
2019	L4 2.5L Hybrid	{1,139}	47	460
2018-15	L4 2.5L Hybrid	{139}	47	460
2015	L4 2.5L Hybrid	{1,139}	47	460
<b>RX350</b>				
2015-10	V6 3.5L	{50,261}	24F	585
<b>RX450h</b>				
2019-16	V6 3.5L Hybrid	{1,50,80,250}	47	460
2015-10	V6 3.5L Hybrid	{1,50,80,235,250}	S55D23L	360
<b>RX450hL</b>				
2019-18	V6 3.5L Hybrid	{1,50,80,235,250}	S55D23L	360
<b>UX250h</b>				
2019	L4 2.0L Hybrid	{1,250}	140R	285
<b>LINCOLN</b>				
<b>LS</b>				
2006	V8 3.9L	{1,139}	66	650
2005-01	V6 3.0L Optional	{1,139}	66	750
2000	V6 3.0L	{1,139}	66	650
<b>MKX</b>				
2018-17	V6 2.7L w/o Start Stop	{322}	94R	730
2018-17	V6 2.7L Start Stop	{80,322}	94R	800

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>LINCOLN (Continued)</b>				
<b>MKX (Continued)</b>				
2016	V6 2.7L	{322}	94R	730
2015-13	V6 3.7L	{322}	65	650
<b>MKZ</b>				
2019-17	L4 2.0L Hybrid	{1,139}	90	590
2015-13	L4 2.0L Hybrid	{1,139}	67R	390
2013	L4 2.0L Hybrid, Optional	{139}	96R	590
<b>MASERATI</b>				
<b>Coupe</b>				
2007-03	V8 4.2L	{1,8,139,213}	48	785
<b>Ghibli</b>				
2019-14	V6 3.0L	{1,8,80,139}	49	850
<b>GranCabrio</b>				
2019	V8 4.7L	{1,8,80,139}	49	850
2017	V8 3.8L	{1,8,80,139}	49	850
2016-13	V8 4.7L	{1,8,80,139}	49	850
2011-10	V8 4.7L	{1,8,80,139}	49	850
<b>GranSport</b>				
2008	V8 4.2L	{139}	NA	NA
2007-05	V8 4.2L	{1,8,139,213}	48	785
<b>GranTurismo</b>				
2019-18	V8 4.7L	{1,8,80,139}	49	850
2017-13	V8 4.2L	{1,8,80,139}	49	850
2012	V8 4.7L	{1,8,80,139}	49	850
2011-08	V8 4.2L	{1,8,80,139}	49	850
<b>Quattroporte</b>				
2019-14	V6 3.0L	{1,8,80,139}	49	850
2013-12	V8 4.7L	{1,8,80,139}	49	850
2011-05	V8 4.2L	{1,8,80,139}	49	850
2004-03	V8 3.2L	{1,8,80,139}	49	850
<b>Spyder</b>				
2006-02	V8 4.2L	{1,8,139,213}	48	785
<b>MAYBACH</b>				
<b>57</b>				
2012-03	V12 5.5L Optional	{1,8,80,139}	49	950
<b>62</b>				
2012-03	V12 5.5L Optional	{1,8,80,139}	49	950
<b>MAZDA</b>				
<b>Miata</b>				
2005-99	L4 1.8L	{1,46,80}	46A24L	320
1997-94	L4 1.8L	{1,46,80}	46A24L	320
1993-90	L4 1.6L	{1,46,80}	46A24L	320
<b>MERCEDES-BENZ</b>				
<b>B200</b>				
2011-06	L4 2.0L	{1,8,24,80,258}	48	680
<b>C230</b>				
2009-08	V6 2.5L	{1,8,139}	49	760
<b>C250</b>				
2015-12	L4 1.8L Optional	{1,8,46}	47	480
2015	L4 2.0L	{1,8,24,80,139}	48	680
2015	L4 2.0L Auxiliary Battery	{1,80,326}	400	200
2015	L4 1.8L Optional	{1,8,24,46,80}	48	800
2014	L4 1.8L Optional	{1,8,24,46,80}	49	850
2013	L4 1.8L Optional	{1,8,24,46,80}	48	800
2012	V6 3.5L	{1,8,24,139}	48	680
2012	V6 3.5L Optional	{1,8,24,80,139}	48	760
2012	V6 3.5L Auxiliary Battery	{1,80,326}	400	200
2012	L4 1.8L Optional	{1,8,24,46,80}	48	760
2011-10	V6 2.5L Optional	{1,8,24,46,80}	48	760

SSee page 23 for application footnotes.

# VEHICLES REQUIRING LABOR-INTENSIVE BATTERY REPLACEMENT

## MERCEDES-BENZ

**IMPORTANT NOTE: BATTERIES CAN EXPLODE!** Always wear safety glasses AND shield eyes when working around batteries. Always check for proper polarity and sufficient terminal clearance BEFORE final installation to avoid dangerous sparks, potential explosion, possible severe personal injury and/or expensive electrical system and/or vehicle/equipment damage or fire.

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F	YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>MERCEDES-BENZ (Continued)</b>					<b>MERCEDES-BENZ (Continued)</b>				
<b>C250 (Continued)</b>					<b>LK500</b>				
2011-10	V6 2.5L	{1,8,46}	94R	700	2006	V8 5.0L	{1,8,46}	49	760
<b>C300</b>					2005-03	V8 5.0L	{1,8,46}	49	825
2014-13	V6 3.5L Optional	{1,8,24,46,80}	49	850	<b>CLK55 AMG</b>				
2014-13	V6 3.5L	{1,8,46}	48	680	2006	V8 5.5L	{1,8,46}	49	760
2012-08	V6 3.0L	{1,8,46}	48	680	2005-01	V8 5.5L	{1,8,46}	49	825
2012	V6 3.0L Optional	{1,8,24,46,80}	48	800	<b>CLS400</b>				
2011-10	V6 3.5L	{1,8,24,80,139}	48	680	2018-16	V6 3.5L Battery Backup	{12,327}	NA	NA
2011-10	V6 3.5L Auxiliary Battery	{1,80,326}	400	200	<b>CLS500</b>				
2011-10	V6 3.0L Optional	{1,8,24,46,80}	49	850	2006	V8 5.0L	{80,139}	49	850
2009-08	V6 3.0L Optional	{1,8,24,46,80}	48	800	<b>CLS55 AMG</b>				
<b>C32 AMG</b>					2006	V8 5.5L	{80,139}	49	850
2004-03	V6 3.2L	{1,139}	49	825	<b>CLS550</b>				
2002	V6 3.2L	{1,139}	49	850	2018	V8 4.6L Optional	{1,8,80,139}	49	850
<b>C350e</b>					2016	V8 4.6L Optional	{1,8,80,139}	49	850
2018-16	L4 2.0L Hybrid	{1,8,80,139}	49	850	2015	V8 4.6L	{1,8,80,139}	49	850
2016	L4 2.0L Hybrid, Auxiliary Battery	{12,306}	NA	NA	2014-12	V8 4.6L Optional	{1,8,80,139}	49	850
<b>C63 AMG</b>					2011-07	V8 5.5L	{1,8,139}	49	760
2019	V8 4.0L Optional	{1,24,80,139}	49	850	2011-07	V8 5.5L	{1,8,80,139}	49	850
2018-16	V8 4.0L Optional	{1,8,24,80,139}	48	800	<b>CLS63 AMG</b>				
2018-16	V8 4.0L Optional	{1,8,80,139}	49	850	2014-12	V8 5.5L	{1,8,80,139}	49	850
2015-08	V8 6.3L Optional	{1,8,80,139}	49	850	2011-07	V8 6.3L	{1,8,80,139}	49	850
2015	V8 6.3L	{1,8,24,80,139}	48	800	<b>E250</b>				
2014-09	V8 6.2L	{1,8,24,80,139}	48	800	2016-14	L4 1.8L Battery Backup	{12,327}	NA	NA
2008	V8 6.3L	{1,8,24,80,139}	48	800	<b>E280</b>				
<b>C63 AMG S</b>					2007	V6 3.0L	{1,8,80,139}	49	850
2019	V8 4.0L Optional	{1,24,80,139}	48	800	<b>E300</b>				
2018-15	V8 4.0L Optional	{1,8,24,80,139}	48	800	2019	L4 2.0L Optional	{1,24,80,139}	47	680
2018-15	V8 4.0L Optional	{1,8,80,139}	49	850	2018-17	L4 2.0L Optional	{1,8,24,80,139}	47	680
2017	V8 4.0L Optional, Li-ion	{12,139,282}	NA	NA	2017	L4 2.0L	{1,8,80,139}	48	760
<b>CL500</b>					2016-14	V6 3.5L	{1,8,80,139}	48	760
2006	V8 5.0L	{80,139}	49	850	2012	V6 3.5L	{1,8,80,139}	49	850
2005-98	V8 5.0L	{1,46}	49	825	2009-08	V6 3.0L Optional	{1,8,80,139}	49	850
<b>CL55 AMG</b>					2009	V6 3.0L Optional	{1,8,139}	49	760
2006	V8 5.5L	{80,139}	49	850	2008	V6 3.0L	{1,8,139}	48	680
2005-04	V8 5.5L	{1,46}	49	825	1999-95	L6 3.0L Diesel	{1,41}	49	825
2003	V8 5.5L	{1,46}	49	850	<b>E320</b>				
2002-01	V8 5.5L	{1,46}	49	825	2009-07	V6 3.0L Diesel, Primary Battery	{1,8,80,139}	49	850
<b>CL550</b>					2006-05	L6 3.2L Diesel, Primary Battery	{1,8,80,139}	49	850
2014-11	V8 4.6L Auxiliary Battery	{1,80,139}	400	200	2005	L6 3.2L	{1,139}	49	825
2014-11	V8 4.6L On-Board Electrical System Battery	{1,8,80,139}	49	850	2004-03	V6 3.2L	{1,139}	49	825
2010-07	V8 5.5L On-Board Electrical System Battery	{1,8,80,139}	49	850	2002-99	V6 3.2L	{1,41}	49	825
<b>CL600</b>					<b>E350</b>				
2014-07	V12 5.5L On-Board Electrical System Battery	{1,8,80,139}	49	850	2007-06	V6 3.5L Optional	{1,8,80,139}	48	760
2006-03	V12 5.5L	{1,8,80,139}	49	850	2006	V6 3.5L Optional	{1,8,139}	49	760
2002-01	V12 5.8L	{1,8,139}	49	825	<b>E400</b>				
1999-98	V12 6.0L	{1,8,139}	49	760	2018	V6 3.0L Optional	{1,8,24,80,139}	47	680
<b>CL65 AMG</b>					2017	V6 3.5L Battery Backup	{12,327}	NA	NA
2014-08	V12 6.0L On-Board Electrical System Battery	{1,8,80,139}	49	850	2016-15	V6 3.0L Optional	{1,8,80,139}	49	850
2006-05	V12 6.0L	{1,8,80,139}	49	850	2014-13	V6 3.5L Hybrid	{1,8,80,139}	49	850
<b>CLA250</b>					2014	V6 3.0L	{1,8,24,80,139}	49	850
2019	L4 2.0L Auxiliary Battery	{80,326}	400	200	<b>E420</b>				
<b>CLA45 AMG</b>					1997	V8 4.2L	{41}	48	690
2019	L4 2.0L Auxiliary Battery	{80,326}	400	200	<b>E43 AMG</b>				
<b>CLK320</b>					2018-17	V6 3.0L Optional	{1,8,24,80,139}	47	680
2005-99	V6 3.2L	{1,8,46}	49	825	<b>E430</b>				
1998	V6 3.2L	{1,46}	49	825	2002-00	V8 4.3L	{1,8,41}	49	825
<b>CLK430</b>					<b>E500</b>				
2003-99	V8 4.3L	{1,8,46}	49	825	2006	V8 5.0L Primary Battery	{1,80,139}	49	850
					2005-03	V8 5.0L Primary Battery	{1,8,139}	49	825
					<b>E55 AMG</b>				
					2006	V8 5.5L Primary Battery	{1,80,139}	49	850
					2005-03	V8 5.5L Primary Battery	{1,46,80}	49	850

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YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>MERCEDES-BENZ (Continued)</b>				
<b>E55 AMG (Continued)</b>				
2002-99	V8 5.5L	{1,8,41}	49	825
<b>E550</b>				
2015-12	V8 4.6L Primary Battery	{1,8,139}	94R	700
2011	V8 5.5L Primary Battery	{1,8,24,139}	49	850
2010-07	V8 5.5L Primary Battery	{1,8,139}	49	850
2009-07	V8 5.5L Optional	{1,8,80,139}	49	850
<b>E63 AMG</b>				
2009	V8 6.3L Primary Battery	{1,8,80,139}	49	850
2007	V8 6.3L Primary Battery	{1,8,80,139}	49	850
<b>G500</b>				
2008-07	V8 5.0L Primary Battery	{1,8,41}	49	850
2006-02	V8 5.0L Primary Battery	{1,8,41}	49	825
<b>G55 AMG</b>				
2011-07	V8 5.5L Primary Battery	{1,8,41}	49	850
2006-03	V8 5.5L Primary Battery	{1,8,41}	49	825
2003	V8 5.5L Optional	{1,8,41,80}	49	850
<b>G550</b>				
2014-09	V8 5.5L Primary Battery	{1,8,41,80}	49	850
<b>G63 AMG</b>				
2018-17	V8 5.5L Primary Battery	{1,8,80,256}	49	850
2014-13	V8 5.5L Primary Battery	{1,8,80,258}	49	850
<b>G65 AMG</b>				
2018-14	V12 6.0L Primary Battery	{1,8,80,256}	49	850
2014	V12 6.0L Battery Backup	{45,256}	NA	NA
2014	V12 6.0L Auxiliary Battery	{80,256}	400	200
<b>GL320</b>				
2009-07	V6 3.0L Diesel	{1,8,41}	49	850
<b>GL350</b>				
2015-10	V6 3.0L Diesel	{1,8,80,258}	49	850
<b>GL450</b>				
2015	V6 3.0L	{1,8,80,258}	49	850
2014-07	V8 4.6L	{1,8,80,258}	49	850
<b>GL550</b>				
2015-13	V8 4.6L	{1,8,80,258}	49	850
2012-08	V8 5.5L	{1,8,80,258}	49	850
<b>GLE63 AMG</b>				
2013	V8 5.5L	{1,8,80,258}	49	850
<b>GLE300d</b>				
2016	L4 2.1L Diesel	{1,8,80,256}	49	850
<b>GLE350</b>				
2018-16	V6 3.5L	{1,8,80,256}	49	850
<b>GLE350d</b>				
2016	V6 3.0L Diesel	{1,8,80,256}	49	850
<b>GLE400</b>				
2017-16	V6 3.0L	{1,8,80,256}	49	850
<b>GLE43 AMG</b>				
2019-17	V6 3.0L	{1,8,80,256}	49	850
<b>GLE450 AMG</b>				
2016	V6 3.0L	{1,8,80,256}	49	850
<b>GLE550</b>				
2018-16	V8 4.6L	{1,8,80,256}	49	850
<b>GLE550e</b>				
2018-16	V6 3.0L Hybrid	{1,8,80,256}	49	850
<b>GLE63 AMG</b>				
2019-16	V8 5.5L	{1,8,80,256}	49	850
<b>GLE63 AMG S</b>				
2019-16	V8 5.5L	{1,8,80,256}	49	850
<b>GLS450</b>				
2019-17	V6 3.0L	{1,8,80,256}	49	850
<b>GLS550</b>				
2019-17	V8 4.6L	{1,8,80,256}	49	850

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>MERCEDES-BENZ (Continued)</b>				
<b>GLS63 AMG</b>				
2019-17	V8 5.5L	{1,8,80,256}	49	850
<b>ML250</b>				
2015	L4 2.1L Diesel	{1,8,80,256}	49	850
<b>ML320</b>				
2009	V6 3.0L	{1,80,258}	49	850
2009	V6 3.0L Diesel	{1,8,258}	49	760
2008-07	V6 3.0L	{1,8,80,258}	49	850
<b>ML350</b>				
2015-10	V6 3.0L Diesel	{1,8,80,258}	49	850
2009-08	V6 3.5L	{1,8,80,258}	49	850
2007	V6 3.5L	{1,8,80,258}	49	950
2006	V6 3.5L Optional	{1,8,80,257}	49	950
2006	V6 3.5L	{1,8,80,258}	48	690
2005	V6 3.7L Optional	{1,80,258}	49	850
<b>ML400</b>				
2015	V6 3.0L	{1,8,80,256}	49	850
<b>ML450</b>				
2011-10	V6 3.5L Hybrid	{1,80,258}	49	850
<b>ML500</b>				
2007-06	V8 5.0L Optional	{1,80,258}	49	950
2005	V8 5.0L Optional	{1,80,258}	49	850
2005	V8 5.0L	{258}	49	825
<b>ML550</b>				
2014-12	V8 4.6L	{1,8,258}	49	850
2011-08	V8 5.5L	{1,80,258}	49	850
<b>ML63 AMG</b>				
2011-07	V8 6.3L	{1,80,258}	49	850
<b>Maybach S550</b>				
2017	V8 4.6L Optional	{1,8,80,256}	49	850
<b>Metris</b>				
2020-19	L4 2.0L	{1,8,256}	48	680
2020	L4 2.0L Optional	{1,8,80,256}	48	760
2019	L4 2.0L Battery Backup	{12,256}	NA	NA
2019	L4 2.0L Auxiliary Battery	{1,80,256}	400	200
2019	L4 2.0L Optional	{1,8,80,256}	49	850
2018-16	L4 2.0L Optional	{1,8,256}	49	760
2018-16	L4 2.0L Optional	{1,8,80,256}	48	760
<b>R320</b>				
2009-07	V6 3.0L	{1,8,80,258}	49	850
<b>R350</b>				
2013-10	V6 3.0L Diesel	{1,24,80,258}	48	760
2010	V6 3.0L Diesel, Battery Backup	{12,258}	NA	NA
2009-06	V6 3.5L	{1,24,80,258}	48	760
<b>R500</b>				
2007-06	V8 5.0L	{1,8,80,258}	49	950
<b>R63 AMG</b>				
2007	V8 6.3L	{1,8,80,258}	49	850
<b>S350</b>				
2013-12	V6 3.0L Diesel	{1,8,80,258}	49	850
2006	V6 3.7L	{1,8,80,139}	49	850
1995-94	L6 3.4L Diesel	{1,8,80,139}	49	760
<b>S400</b>				
2013-10	V6 3.5L Hybrid	{1,8,80,139}	48	760
<b>S430</b>				
2006	V8 4.3L	{1,8,46,80}	49	850
2005-00	V8 4.3L	{1,46,80}	49	825
<b>S450</b>				
2011-08	V8 4.6L On-Board Electrical System Battery	{1,8,80,139}	49	850
<b>S500</b>				
2006-02	V8 5.0L	{1,8,46,80}	49	850
2001-94	V8 5.0L	{1,8,46,80}	49	760



# VEHICLES REQUIRING LABOR-INTENSIVE BATTERY REPLACEMENT

## MERCEDES-BENZ — MITSUBISHI

**IMPORTANT NOTE: BATTERIES CAN EXPLODE!** Always wear safety glasses AND shield eyes when working around batteries. Always check for proper polarity and sufficient terminal clearance BEFORE final installation to avoid dangerous sparks, potential explosion, possible severe personal injury and/or expensive electrical system and/or vehicle/equipment damage or fire.

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>MERCEDES-BENZ (Continued)</b>				
<b>S55 AMG</b>				
2006	V8 5.5L	{1,8,80,139}	49	850
2005-04	V8 5.5L	{1,80,139}	49	825
2003	V8 5.5L	{1,8,80,139}	49	850
2002-01	V8 5.5L	{1,80,139}	49	825
<b>S550</b>				
2015-12	V8 4.6L On-Board Electrical System Battery	{1,8,80,139}	49	850
2011-07	V8 5.5L On-Board Electrical System Battery	{1,8,80,139}	49	850
<b>S600</b>				
2013-07	V12 5.5L On-Board Electrical System Battery	{1,8,80,139}	49	850
2007	V12 5.5L Starting Battery	{1,139}	102R	520
2006-03	V12 5.5L	{1,8,80,139}	49	850
2002-01	V12 5.8L	{1,139}	49	825
1999-94	V12 6.0L	{1,46,80}	49	825
<b>S63 AMG</b>				
2015-14	V8 5.5L	{1,8,80,139}	49	850
2014	V8 5.5L Optional, Li-Ion	{12,139,282}	NA	NA
2013	V8 6.2L	{1,8,80,139}	49	850
2012-11	V12 6.0L	{1,8,80,139}	49	850
2010	V8 6.3L On-Board Electrical System Battery	{1,8,80,139}	49	850
2009-08	V8 6.3L	{1,8,80,139}	49	850
<b>S65 AMG</b>				
2013-07	V12 6.0L On-Board Electrical System Battery	{1,8,80,139}	49	850
2006	V12 6.0L	{1,8,80,139}	49	850
<b>SL320</b>				
1997-94	L6 3.2L	{46}	49	825
<b>SL500</b>				
2006-03	V8 5.0L Starting Battery	{1,139}	102R	520
2006-03	V8 5.0L On-Board Electrical System Battery	{1,8,80,139}	48	760
2002-99	V8 5.0L	{1,46}	49	825
1998-94	V8 5.0L	{46}	49	825
<b>SL55 AMG</b>				
2008	V12 5.5L On-Board Electrical System Battery	{1,8,47,139}	48	760
2007-03	V8 5.5L Starting Battery	{1,139}	102R	520
2007-03	V8 5.5L On-Board Electrical System Battery	{1,8,47,139}	48	760
<b>SL550</b>				
2016-14	V8 4.6L On-Board Electrical System Battery	{1,8,80,139}	49	850
2013	V8 4.6L	{1,8,80,139}	49	850
2013	V8 4.6L On-Board Electrical System Battery	{1,8,46,80}	49	850
2012-07	V8 5.5L On-Board Electrical System Battery	{1,8,80,139}	48	760
<b>SL600</b>				
2011-04	V12 5.5L On-Board Electrical System Battery	{1,8,80,139}	48	760
2007-04	V12 5.5L Starting Battery	{1,139}	102R	520
2002-94	V12 6.0L	{1,139}	49	825
<b>SL63 AMG</b>				
2015-13	V8 5.5L On-Board Electrical System Battery	{1,8,80,139}	48	760
2012-09	V8 6.3L On-Board Electrical System Battery	{1,8,80,139}	48	760

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>MERCEDES-BENZ (Continued)</b>				
<b>SL65 AMG</b>				
2015-13	V12 6.0L On-Board Electrical System Battery	{1,8,80,139}	48	760
2011-05	V12 6.0L On-Board Electrical System Battery	{1,8,80,139}	48	760
2007-05	V12 6.0L Starting Battery	{1,139}	102R	520
<b>SLR McLaren</b>				
2006	V8 5.5L On-Board Electrical System Battery	{1,8,80,139}	98R	760
<b>Sprinter 2500</b>				
2016-14	L4 2.1L Diesel	{1,8,231}	48	680
2016-14	L4 2.1L Diesel, Optional	{1,8,80,231}	49	850
2015-10	V6 3.0L Diesel	{1,231}	49	850
2013-10	V6 3.0L Diesel, Optional	{1,8,80,231}	48	760
<b>Sprinter 3500</b>				
2016-14	L4 2.1L Diesel	{1,8,231}	48	680
2016-14	L4 2.1L Diesel, Optional	{1,8,80,231}	49	850
2013-10	V6 3.0L Diesel	{1,8,80,231}	49	850
<b>MINI</b>				
<b>Cooper</b>				
2017-16	L3 1.5L Optional	{1,8,24,50,80}	94R	800
2016-15	L3 1.5L Optional	{1,8,24,50,80,261}	94R	800
2015-14	L4 1.6L	{1,8,24,50,261}	47	480
2015-11	L4 1.6L	{1,8,24,50,247,261}	47	480
2015-11	L4 1.6L Optional	{1,8,24,50,80,151,261}	47	600
2014	L3 1.5L	{1,8,24,50,80,261}	94R	800
2013-09	L4 1.6L Optional	{1,8,24,50,80,261}	47	680
2013	L4 1.6L Optional	{1,8,24,50,261}	48	570
2012-09	L4 1.6L	{1,8,24,50,261}	47	480
2009-03	L4 1.6L Turbo or Supercharged	{1,8,24,50,139}	47	480
2008-02	L4 1.6L Exc Turbo or Supercharged	{1,8,24,50,261}	47	480
<b>Cooper Clubman</b>				
2017-16	L3 1.5L	{1,8,24,50,80,261}	48	760
<b>Cooper Countryman</b>				
2017	L3 1.5L Optional	{1,8,24,50,80,261}	94R	800
2016-14	L4 1.6L	{1,8,24,50,261}	47	480
2016	L4 1.6L Optional	{1,8,24,50,247,261}	47	680
2016	L4 1.6L Optional	{1,8,24,50,80,151,261}	48	570
2015-14	L4 1.6L Optional	{1,8,24,50,247,261}	48	570
2015-14	L4 1.6L Optional	{1,8,24,50,80,151,261}	47	680
2013	L4 1.6L	{1,8,24,50,247,261}	47	480
2013	L4 1.6L Optional	{1,8,24,50,261}	48	570
2013	L4 1.6L Optional	{1,8,24,50,80,151,261}	47	600
2012-11	L4 1.6L Optional	{1,8,24,50,247,261}	47	680
2012-11	L4 1.6L	{1,8,24,50,261}	47	480
2012-11	L4 1.6L Optional	{1,8,24,50,80,151,261}	48	570
<b>Cooper Paceman</b>				
2016-13	L4 1.6L	{1,8,24,50,261}	47	480
2016-13	L4 1.6L Optional	{1,8,24,50,80,151,261}	47	680
2016	L4 1.6L Optional	{1,8,24,50,247,261}	47	680
2015-14	L4 1.6L Optional	{1,8,24,50,247,261}	48	570
2013	L4 1.6L Optional	{1,8,24,50,247,261}	47	680
<b>MITSUBISHI</b>				
<b>Lancer</b>				
2015-12	L4 2.0L Evolution	{1,12,139}	NA	700
2012	L4 2.0L	{139}	35	520
2012	L4 2.0L Evolution	{1,139}	34	700
2009-08	L4 2.0L Evolution	{1,139}	34	700
<b>Outlander PHEV</b>				
2019-18	L4 2.0L	{1,254}	S46B24L	

See page 23 for application footnotes.

# VEHICLES REQUIRING LABOR-INTENSIVE BATTERY REPLACEMENT MITSUBISHI FUSO — PORSCHE

**IMPORTANT NOTE: BATTERIES CAN EXPLODE!** Always wear safety glasses AND shield eyes when working around batteries.  
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potential explosion, possible severe personal injury and/or expensive electrical system and/or vehicle/equipment damage or fire.

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>MITSUBISHI FUSO</b>				
<b>FE120</b>				
2005	L4 4.9L	{15,24,267}	31T	400
<b>FE125</b>				
2011-08	L4 4.9L	{15,24,267}	31T	400
<b>FE140</b>				
2007-06	L4 4.9L	{15,24,267}	31T	400
<b>FE145</b>				
2011-05	L4 4.9L	{15,24,267}	31T	400
<b>FE145CC</b>				
2011-05	L4 4.9L	{15,24,267}	31T	400
<b>FE180</b>				
2011-05	L4 4.9L	{15,24,267}	31T	400
<b>FG140</b>				
2011-05	L4 4.9L	{15,24,267}	31T	400
<b>FK200</b>				
2011-05	L6 7.5L	{15,24,267}	31T	512
<b>FK260</b>				
2011-08	L6 7.5L	{15,24,267}	31T	512
<b>FM260</b>				
2007-05	L6 7.5L	{15,24,267}	31T	512
<b>FM330</b>				
2011-05	L6 7.5L	{15,24,267}	31T	512
<b>NISSAN</b>				
<b>Rogue</b>				
2019-17	L4 2.0L Hybrid	{1,250}	48	770
<b>OLDSMOBILE</b>				
<b>Aurora</b>				
2003	V8 4.0L	{1,6,41}	100	770
2002-01	V6 3.5L	{1,6,41}	100	770
<b>Silhouette</b>				
2004-97	V6 3.4L	{43}	78	600
1996	V6 3.4L	{43}	75	550
1995	V6 3.8L	{43}	75	630
1994-90	V6 3.1L	{43}	75	525
<b>PANOZ</b>				
<b>AIV Roadster</b>				
2000-99	V8 4.6L	{263}	58R	580
<b>Esperante</b>				
2007-01	V8 4.6L	{263}	58R	580
<b>PETERBILT</b>				
<b>210</b>				
2015-08	L6 6.7L	{24,148,267}	31T	650
<b>220</b>				
2020-13	L6 6.7L	{24,148,267}	31T	650
2010	L6 6.7L	{24,148,267}	31T	650
2007	L6 5.9L	{24,148,267}	31T	650
<b>330</b>				
2020-09	L6 6.7L	{24,148,267}	31T	650
2008	L6 6.7L Diesel	{24,148,267}	31T	650
2007	L6 7.2L	{24,148,267}	31T	650
2005	L6 7.2L	{24,148,267}	31T	650
2004	L6 7.2L Optional	{24,148,267}	31T	925
2003-98	L6 6.6L	{24,148,267}	31T	650
1997-96	L6 6.6L Optional	{24,148,267}	31T	925
1995	L6 6.6L Optional	{24,148,267}	4	940
<b>335</b>				
2010-09	L6 6.7L	{24,148,267}	31T	650
2008	L6 6.7L Diesel	{24,148,267}	31T	650
2007-05	L6 7.2L	{24,148,267}	31T	650

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>PLYMOUTH</b>				
<b>Breeze</b>				
2000-96	L4 2.0L	{40}	75	510
<b>PONTIAC</b>				
<b>Aztek</b>				
2005-01	V6 3.4L	{42}	78	600
<b>Bonneville</b>				
2005-04	V6 3.8L	{1,41}	100	770
2003-02	V6 3.8L Exc Supercharged	{1,41}	100	770
2001-00	V6 3.8L Exc Supercharged	{1,41}	79	840
<b>G5</b>				
2010-09	L4 2.2L	{1,139}	90	590
2008-07	L4 2.2L	{1,139}	90	600
<b>G8</b>				
2009	V6 3.6L	{1,46}	94R	720
2008	V6 3.6L	{1,46}	94R	700
<b>GTO</b>				
2006-05	V8 6.0L	{139}	85	600
<b>Grand Am</b>				
1974	V8 5.7L	{267}	NA	NA
<b>Grand Prix</b>				
1996	V6 3.1L	{6,42}	78	600
1995	V6 3.1L Early Model	{6,42}	75	525
1994-92	V6 3.1L	{6,42}	75	525
1991-90	L4 2.3L	{6,42}	75	630
1989-88	V6 2.8L	{6,42}	75	525
<b>Montana</b>				
2005-99	V6 3.4L	{42}	78	600
<b>Trans Sport</b>				
1999-97	V6 3.4L	{42}	78	600
1996	V6 3.4L	{42}	75	525
1995-90	V6 3.1L	{42}	75	525
<b>PORSCHE</b>				
<b>911</b>				
2019-17	H6 3.0L	{1,80,253}	49	850
2016	H6 3.4L	{1,253}	49	740
2015	H6 3.4L	{1,253}	49	750
2014-12	H6 3.4L	{1,253}	49	740
2011-10	H6 3.6L	{1,253}	49	740
2009-05	H6 3.6L	{1,253}	94R	740
2004-02	H6 3.6L Exc GT2	{1,151,253}	94R	740
2001-99	H6 3.4L	{1,46}	48	650
2001	H6 3.6L GT3	{1,46,151}	48	650
1998-93	H6 3.6L	{1,46}	48	650
1992-91	H6 3.3L Turbo	{1,46}	48	650
1990	H6 3.6L	{1,46}	48	650
1989	H6 3.2L Exc Speedster	{1,46}	48	650
<b>Boxster</b>				
2016	H6 2.7L	{1,80,253}	48	760
2015	H6 2.7L	{253}	NA	NA
2014-13	H6 2.7L	{1,253}	94R	650
2012-09	H6 3.4L	{1,253}	94R	650
2012-09	H6 2.9L	{1,6,253}	94R	650
<b>Cayenne</b>				
2014-11	V6 3.0L Hybrid	{1,153}	94R	650
2010	V6 3.6L	{1,153}	94R	650
<b>Cayman</b>				
2014	H6 2.7L	{1,253}	49	740
2012-09	H6 2.9L	{1,253}	49	740
2008-07	H6 2.7L	{1,253}	94R	740
2006	H6 3.4L	{1,253}	94R	740

# VEHICLES REQUIRING LABOR-INTENSIVE BATTERY REPLACEMENT

## PORSCHE — VOLKSWAGEN

**IMPORTANT NOTE: BATTERIES CAN EXPLODE!** Always wear safety glasses AND shield eyes when working around batteries. Always check for proper polarity and sufficient terminal clearance BEFORE final installation to avoid dangerous sparks, potential explosion, possible severe personal injury and/or expensive electrical system and/or vehicle/equipment damage or fire.

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>PORSCHE (Continued)</b>				
<b>Panamera</b>				
2014-12	V6 3.0L	{1,153}	49	740
2011	V6 3.6L	{1,153}	49	740
2010	V8 4.8L	{1,153}	49	740
<b>RAM</b>				
<b>ProMaster 1500</b>				
2017-15	L4 3.0L Diesel	{1,231}	49	800
2017-14	L4 3.0L Diesel, Optional	{1,80,231}	95R	950
2014	L4 3.0L Diesel	{231}	49	800
<b>ProMaster 2500</b>				
2017-14	L4 3.0L Diesel	{1,231}	49	800
2017-14	L4 3.0L Diesel, Optional	{1,80,231}	95R	950
<b>ProMaster 3500</b>				
2017	L4 3.0L Diesel	{1,231}	49	800
2016-14	L4 3.0L Diesel, Optional	{1,80,231}	95R	950
2016-14	L4 3.0L Diesel	{231}	49	800
<b>ROLLS-ROYCE</b>				
<b>Ghost</b>				
2015-10	V12 6.6L	{1,8,80,139}	49	900
<b>Phantom</b>				
2015	V12 6.7L	{1,8,80,139}	48	760
2014-04	V12 6.7L Optional	{1,8,80,139}	49	900
<b>SATURN</b>				
<b>Ion</b>				
2007-04	L4 2.0L	{1,139}	78	600
2003	L4 2.2L	{1,139}	75	600
<b>Outlook</b>				
2010	V6 3.6L	{1,264}	48	660
2009-07	V6 3.6L	{1,264}	48	730
<b>Relay</b>				
2007	V6 3.9L	{208}	34	600
2006-05	V6 3.5L	{208}	34	600
<b>SMART</b>				
<b>Fortwo</b>				
2014	L3 1.0L	{1,8,262}	47	540
2013-08	L3 1.0L	{1,8,263}	47	540
2007-06	L3 0.7L	{1,8,208}	47	540
2005	L3 0.8L	{1,8,208}	47	540
<b>TOYOTA</b>				
<b>Avalon</b>				
2019	L4 2.5L Hybrid	{1,139}	47	355
2018-13	L4 2.5L Hybrid	{1,80,139,235}	S55D23R	355
<b>Camry</b>				
2019-18	L4 2.5L Hybrid	{1,139}	47	355
2015	L4 2.5L Hybrid w/Moonroof	{1,12,80,235,250}	S65D26R	450
2015	L4 2.5L Hybrid	{1,80,235,250}	S55D23R	355
2014-12	L4 2.5L Hybrid w/Moonroof	{1,12,80,139,235}	S65D26R	450
2014-12	L4 2.5L Hybrid	{1,80,139,235}	S55D23R	355
<b>Highlander</b>				
2019-11	V6 3.5L Hybrid	{1,80,235,250}	S55D23L	360
<b>MR2 Spyder</b>				
2005-00	L4 1.8L	{139}	51R	430
<b>Mirai</b>				
2019	Electric Electric/Hydrogen	{1,12,80,139,235}	S46B24R	360
2018-17	Electric Electric/Hydrogen	{1,12,80,139,235}	S46B24R	325
2016	Electric Electric/Hydrogen	{1,12,80,139}	S46B24R	325
<b>Prius</b>				
2016	L4 1.8L Hybrid	{139}	140R	295
2015-14	L4 1.8L Hybrid	{1,12,80,139}	S46B24R	325
2013-10	L4 1.8L Auxiliary Battery	{1,12,80,139}	S46B24R	325

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>TOYOTA (Continued)</b>				
<b>Prius (Continued)</b>				
2009-04	L4 1.5L Exc Smart Key, Auxiliary Battery	{1,12,80,139}	S34B20R	270
2003-01	L4 1.5L Auxiliary Battery	{1,12,80,139}	S34B20L	270
<b>Prius C</b>				
2019-18	L4 1.5L Hybrid	{1,12,257}	LN0	280
2017	L4 1.5L Hybrid	{1,12,80,257}	S34B20R	270
2016-14	L4 1.5L Hybrid	{1,12,80,139}	S34B20R	270
2013-12	L4 1.5L Auxiliary Battery	{1,12,80,139}	S34B20R	270
<b>Prius V</b>				
2018-14	L4 1.8L Hybrid	{1,12,80,139}	S46B24R	325
2013-12	L4 1.8L Auxiliary Battery	{1,12,80,139}	S46B24R	325
<b>RAV4</b>				
2019	L4 2.5L Hybrid w/o Wireless /Smart door lock, Opt Audio	{1,139}	140R	285
2018	L4 2.5L Hybrid w/o P remium sound System	{1,80,139,235}	S46B24R	325
2017	L4 2.5L Hybrid w/Premium sound System	{1,80,139,235}	S55D23R	355
2016	L4 2.5L Gas	{139}	35	355
<b>VOLKSWAGEN</b>				
<b>Atlas</b>				
2018	L4 2.0L PR-J0V Code	{1,24,50,257,261,281}	NA	NA
2018	L4 2.0L PR-J0N, PR-J1L Code	{1,8,24,50,261}	47	540
2018	L4 2.0L PR-J2D Code	{1,8,24,50,80,261}	48	680
<b>Beetle</b>				
2017-16	L4 1.8L PR-J2D Code	{1,8,24,50,80,261}	48	680
2017	L4 1.8L PR-J1D Code	{1,8,24,50,261}	48	640
2016	L4 1.8L PR-J0N Code	{1,8,24,50,261}	47	540
2015-14	L4 1.8L PR-J0N Code	{8,24,50,261,286}	47	540
2015	L4 2.0L Diesel, PR-J0N Code	{1,8,24,50,261}	47	540
2015	L4 2.0L Diesel, PR-J2D Code	{1,8,24,50,80,261}	48	680
2015	L4 1.8L PR-J2D Code	{8,24,50,80,261,286}	48	480
2014	L4 1.8L PR-J2D Code	{8,24,50,80,261,286}	48	680
2013	L4 2.0L Gas, PR-J0N Code	{8,24,50,261,286}	47	540
2013	L4 2.0L Gas, PR-J1L Code	{8,24,50,80,261,286}	48	680
2012	L4 2.0L PR-J0N Code	{8,24,50,261,286}	47	540
2012	L4 2.0L PR-J1D Code	{8,24,50,80,261,286}	48	680
2010-07	L5 2.5L Optional	{8,24,50,261,286}	48	640
2006	L4 1.9L Diesel, Turbo	{8,24,50,261,286}	47	540
2004-03	L4 1.8L Optional	{44}	48	640
2002-00	L4 1.8L	{44}	47	480
1999	L4 1.8L	{44}	48	640
1998	L4 1.9L Diesel, Turbo	{44}	48	640
<b>CC</b>				
2017-16	L4 2.0L Optional	{1,8,24,50,80}	48	680
2017	L4 2.0L Optional	{1,8,24,50}	49	760
2016	L4 2.0L Optional	{1,8,24,50}	48	640
2015	L4 2.0L Optional	{8,24,50,286}	48	640
2015	L4 2.0L Optional	{8,24,50,80,286}	48	680
2014-13	L4 2.0L Optional	{8,24,50,261,286}	48	640
2014-13	L4 2.0L Optional	{8,24,50,80,261,286}	48	680
2013-12	L4 2.0L Optional	{24,139,281}	48	680
2013	V6 3.6L Optional	{8,24,50,139,286}	48	640
2013	V6 3.6L Optional	{8,24,50,80,139,286}	48	680
2012	L4 2.0L Optional	{8,24,50,286}	48	640
2012	L4 2.0L Optional	{8,24,50,80,286}	48	680
2012	V6 3.6L	{8,24,50,139,286}	47	540
2012	L4 2.0L	{8,24,50,261,286}	47	540
2011	L4 2.0L	{8,24,50,139,286}	47	480
2010-09	L4 2.0L	{8,24,139,286}	47	480

See page 23 for application footnotes.

# VEHICLES REQUIRING LABOR-INTENSIVE BATTERY REPLACEMENT VOLKSWAGEN

**IMPORTANT NOTE: BATTERIES CAN EXPLODE! Always wear safety glasses AND shield eyes when working around batteries. Always check for proper polarity and sufficient terminal clearance BEFORE final installation to avoid dangerous sparks, potential explosion, possible severe personal injury and/or expensive electrical system and/or vehicle/equipment damage or fire.**

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>VOLKSWAGEN (Continued)</b>				
<b>Eos</b>				
2016-11	L4 2.0L Optional	{8,24,50,261,286}	48	640
2016	L4 2.0L Optional	{1,8,24,50}	48	640
2016	L4 2.0L Optional	{1,8,24,50,80}	48	680
2015-11	L4 2.0L Optional	{8,24,50,80,261,286}	48	680
2011	L4 2.0L Exc Auxiliary, PR-J2K Code	{8,24,50,261,286}	47	540
2010	L4 2.0L Exc Auxiliary, PR-J2K Code	{1,8,24,50,261,286}	47	540
2010	L4 2.0L Optional	{1,8,24,50,261,286}	48	640
2010	L4 2.0L Optional	{1,8,24,50,80,261,286}	48	680
2009-07	L4 2.0L Exc Auxiliary, PR-J2K Code	{8,24,50,261,286}	47	540
2009-07	L4 2.0L Optional	{8,24,50,261,286}	48	640
2009	L4 2.0L Optional	{8,24,50,80,261,286}	48	680
2008	V6 3.2L Auxiliary, PR-J2K Code	{139}	NA	NA
2008	V6 3.2L Optional	{8,24,50,139,286}	48	640
2007	L4 2.0L Auxiliary, PR-J2K Code	{139}	NA	NA
<b>EuroVan</b>				
2003-01	V6 2.8L Auxiliary Battery	{3,153}	27	570
<b>GTI</b>				
2017-14	L4 2.0L PR-J0S Code	{1,8,24,50,261,281}	47	540
2017	L4 2.0L PR-J0N, PR-J1L Code	{1,8,24,50}	47	540
2017	L4 2.0L PR-J2D Code	{1,8,24,50,80}	48	480
2016-15	L4 2.0L PR-J0N, PR-J1L Code	{1,8,24,50,261}	47	540
2016	L4 2.0L PR-J1P Code	{1,8,24,50}	NA	360
2016	L4 2.0L PR-J2D Code	{1,8,24,50,80,261}	48	680
2015	L4 2.0L PR-J2D Code	{1,8,24,50,80,261}	48	680
2014	L4 2.0L PR-J2S Code	{1,8,24,50,261}	NA	480
2014	L4 2.0L Optional	{1,8,24,50,80,261}	48	640
2014	L4 2.0L Optional	{8,24,50,261,286}	48	570
2013-12	L4 2.0L Optional	{1,8,24,50,80,261}	48	680
2013	L4 2.0L PR-J0T Code	{1,8,24,50,261,281}	48	680
2013	L4 2.0L Gas, Optional	{8,24,50,80,261,286}	48	680
2013	L4 2.0L Gas	{8,50,261,286}	48	640
2012	L4 2.0L Optional	{1,8,24,50,261,281}	48	680
2012	L4 2.0L Optional	{8,50,261,286}	48	570
<b>Golf</b>				
2017-16	L4 1.8L Gas, PR-J0N, PR-J1L Code	{1,8,24,50}	47	540
2017-16	L4 1.8L Gas, PR-J1D Code	{8,24,50,286}	48	640
2017	L4 1.8L Gas, PR-J0S Code	{1,8,24,50,281}	47	540
2017	L4 1.8L Gas, PR-J0V Code	{8,24,50,281,286}	NA	NA
2017	L4 1.8L Gas, PR-J2D Code	{8,24,50,80,286}	48	480
2016	L4 1.8L PR-J1P Code	{1,8,12,24,50}	NA	360
2016	L4 1.8L PR-J0S Code	{1,8,24,50,281}	47	540
2016	L4 1.8L Gas, PR-J2D Code	{8,24,50,80,286}	48	680
2015	L4 1.8L PR-J0S Code	{1,8,24,50,261,281}	47	540
2015	L4 2.0L Diesel, PR-J0V Code	{1,8,24,50,261,281,286}	NA	NA
2015	L4 2.0L Diesel, PR-J1D Code	{1,8,24,50,261,286}	48	640
2015	L4 1.8L Gas, PR-J2D Code	{1,8,24,50,80,261}	48	680
2015	L4 1.8L Gas, PR-J0N, PR-J1L Code	{8,24,50,261,286}	47	540
2014	L4 2.0L Diesel, PR-J0S Code	{1,8,24,50,261,281}	47	540
2014	L4 2.0L Diesel, PR-J2S Code	{1,8,24,50,261,286}	NA	480
2014	L4 2.0L Diesel	{8,24,50,261,286}	47	540
2013	L4 2.0L Gas, PR-J0T Code	{1,8,24,50,261,281}	48	680
2013	L4 2.0L Gas	{1,8,24,50,261,286}	47	540
2013	L4 2.0L Gas, Optional	{1,8,24,50,80,261,286}	48	680
2013	L5 2.5L Optional	{8,24,50,80,261,286}	48	680
2013	L5 2.5L	{8,50,261,286}	47	540
2012	L4 2.0L Diesel, Optional	{1,8,24,50,261,281}	48	680

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>VOLKSWAGEN (Continued)</b>				
<b>Golf (Continueud)</b>				
2012	L4 2.0L Diesel	{8,50,261,286}	47	540
2006	L4 1.8L	{24,43}	47	480
2005-03	L4 1.8L	{24,43}	47	570
2002-00	L4 1.8L	{24,43}	47	575
1999	L4 1.9L Diesel	{24,43}	98R	620
1998	L4 1.8L	{24,43}	97R	575
1997	L4 1.8L	{24,43}	42	460
<b>Golf Alltrack</b>				
2017	L4 1.8L Gas, PR-J0S Code	{1,8,24,50,281}	47	540
2017	L4 1.8L Gas, PR-J0V Code	{8,24,50,281,286}	NA	NA
2017	L4 1.8L Gas, PR-J0N, PR-J1L Code	{8,24,50,286}	47	540
2017	L4 1.8L Gas, PR-J2D Code	{8,24,50,80,286}	48	480
<b>Golf R</b>				
2017-15	L4 2.0L Gas, PR-J0S Code	{1,8,24,50,261,281}	47	540
2017-15	L4 2.0L Gas, PR-J2D Code	{1,8,24,50,80,261}	48	680
2017	L4 2.0L Gas, PR-J0N, PR-J1L Code	{1,8,24,50,261}	47	540
2016-15	L4 2.0L Gas, PR-J0N, PR-J1L Code	{1,8,24,50,261}	47	540
2012	L4 2.0L Gas	{1,8,24,50,261}	47	540
2012	L4 2.0L Gas, Optional	{1,8,24,50,261,281}	48	680
2012	L4 2.0L Gas, Optional	{1,8,24,50,80,261}	48	680
<b>Golf SportWagen</b>				
2017-16	L4 1.8L PR-J0N, PR-J1L Code	{1,8,24,50,261}	47	540
2015	L4 1.8L Gas, PR-J0N, PR-J1L Code	{8,24,50,261,286}	47	540
<b>Jetta</b>				
2017-16	L4 1.4L Optional	{1,8,24,50}	47	540
2017-16	L4 1.4L Optional	{1,8,24,50,80}	48	680
2017	L4 1.4L Optional	{1,8,24,50,281}	47	540
2017	L4 2.0L Optional	{8,24,50,281,286}	NA	680
2016	L4 1.4L PR-J0S Code	{1,8,24,50,281}	47	540
2016	L4 1.4L Optional	{1,8,24,50,281}	48	680
2016	L4 2.0L PR-J0S Code	{8,24,50,281,286}	NA	540
2015	L4 2.0L Diesel, Optional	{8,24,50,281,286}	NA	680
2015	L4 1.4L Hybrid	{8,24,50,286}	48	480
2014-13	L4 1.4L Optional	{8,24,50,261,286}	48	570
2013	L4 2.0L Diesel, Optional	{8,24,50,80,261,286}	48	680
2012	L4 2.0L PR-J0S Code	{8,24,50,261,281,286}	NA	540
2012	L4 2.0L Optional	{8,24,50,261,281,286}	NA	680
2012	L4 2.0L Gas	{8,24,50,261,286}	47	540
2012	L4 2.0L Gas, Optional	{8,24,50,80,261,286}	48	680
2011	L4 2.0L Diesel, Optional	{1,8,24,50,281}	48	680
2011	L4 2.0L Diesel, Optional	{1,8,24,50,80}	48	640
2011	L4 2.0L Gas, Optional	{1,8,24,50,261,281}	48	680
2011	L4 2.0L Gas, Optional	{1,8,24,50,80,261}	48	640
2009	L4 2.0L Gas	{8,24,50,261,286}	47	540
2005	L4 1.8L Early Model	{24,43}	47	520
2005	L4 1.9L Diesel & Early Model	{8,24,43,286}	47	520
1997	L4 1.9L Diesel	{43}	98R	620
<b>Passat</b>				
2017-16	L4 1.8L PR-J0N, PR-J1L Code	{1,8,24,50,261}	47	540
2015	L4 1.8L Optional	{8,24,50,286}	48	640
2015	V6 3.6L Optional	{8,24,50,139,286}	49	760
2015	V6 3.6L	{8,24,50,261,286}	47	540
2014	L5 2.5L Optional	{8,24,50,139,286}	49	760
2014	L4 1.8L Optional	{8,24,50,261,286}	48	640
2013-12	L4 2.0L Diesel	{8,24,50,261,286}	47	540
2013	V6 3.6L Optional	{8,24,50,139,286}	49	760
2012	L5 2.5L Optional	{8,24,50,139,286}	48	640

See page 23 for application footnotes.



# VEHICLES REQUIRING LABOR-INTENSIVE BATTERY REPLACEMENT

## VOLKSWAGEN — VOLVO

**IMPORTANT NOTE: BATTERIES CAN EXPLODE!** Always wear safety glasses AND shield eyes when working around batteries. Always check for proper polarity and sufficient terminal clearance BEFORE final installation to avoid dangerous sparks, potential explosion, possible severe personal injury and/or expensive electrical system and/or vehicle/equipment damage or fire.

YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F	YEAR	DESCRIPTIONS	Notes	O.E. BCI NO.	CCA @ 0° F
<b>VOLKSWAGEN (Continued)</b>					<b>VOLVO</b>				
<b>Passat (Continued)</b>					<b>C70</b>				
2007	V6 3.6L	{24,43}	48	640	2002-01	L5 2.3L	{1,6,46}	48	600
2005	L4 1.8L 4 Motion	{24,43}	48	570	<b>S60</b>				
2005	L4 1.8L Exc 4 Motion	{43,286}	49	740	2009-05	L5 2.4L Optional	{1,6,46}	49	800
2004-98	L4 1.8L	{24,43}	48	570	2004-01	L5 2.3L Optional, Turbo	{1,6,46}	49	800
2002-00	V6 2.8L	{8,24,43}	48	540	<b>S80</b>				
<b>Passat CC</b>					2009-08	L6 3.0L w/o Premium Audio	{1,139}	48	600
2010-09	L4 2.0L	{8,24,139,286}	47	480	2007	L6 3.2L w/o Premium Audio	{1,139}	48	600
<b>Phaeton</b>					2006-04	L5 2.5L Optional	{1,6,46}	49	800
2006-04	V8 4.2L	{1,139,286}	49	740	2003-02	L6 2.9L Optional	{1,6,46}	49	800
<b>Tiguan</b>					2001-99	L6 2.8L Optional	{1,6,46}	49	800
2017	L4 2.0L Optional	{1,8,24,50}	48	680	<b>S90</b>				
2017	L4 2.0L Optional	{1,8,24,50,80}	48	640	2017	L4 2.0L Optional	{1,80,139}	49	850
2016	L4 2.0L Optional	{1,8,24,50}	48	640	<b>V70</b>				
2016	L4 2.0L Optional	{1,8,24,50,80}	48	680	2007	L5 2.4L Optional	{139}	48	600
2015	L4 2.0L Optional	{8,24,50,286}	48	640	2007	L5 2.4L Optional	{1,6,46}	49	800
2015	L4 2.0L Optional	{8,24,50,80,286}	48	680	2006-05	L5 2.4L Optional	{1,6,46}	48	600
2014-12	L4 2.0L Optional	{8,24,50,80,261,286}	48	680	2004-98	L5 2.3L Optional	{1,6,46}	48	600
2014-11	L4 2.0L Optional	{8,24,50,261,286}	48	640	<b>XC70</b>				
2011-09	L4 2.0L Optional	{1,8,24,50,80,261}	48	680	2007-03	L5 2.5L Optional	{1,6,46}	48	600
2010	L4 2.0L Optional	{1,8,24,50,261}	48	640	<b>XC90</b>				
2009	L4 2.0L Gas, Optional	{8,24,50,261,286}	48	570	2017	L4 2.0L	{139}	NA	NA
<b>Touareg</b>					2014-12	L6 3.2L Optional	{1,139}	49	760
2017	V6 3.6L Optional	{1,8,24,50,153}	95R	850	2011-07	L6 3.2L Exc Electrical upgrade	{1,139}	48	600
2017	V6 3.6L Optional	{1,8,24,50,80,153}	95R	950	2006-03	L5 2.5L Exc Electrical upgrade	{1,139}	48	600
2016	V6 3.0L Diesel	{1,8,24,50,153}	94R	640					
2016	V6 3.0L Diesel, Optional	{1,8,24,50,80,153}	49	850					
2015	V6 3.0L Hybrid	{8,24,50,153,286}	94R	640					
2015	V6 3.0L Hybrid, Optional	{8,24,50,80,153,286}	49	850					
2014-11	V6 3.0L Hybrid	{8,24,50,153,286}	48	640					
2010-09	V6 3.0L Diesel	{8,24,153,286}	95R	850					
2009-08	V8 4.2L	{153,286}	93	790					
2008-07	V6 3.6L Optional	{8,24,153,286}	95R	850					
2007	V8 4.2L	{153,286}	93	740					
2006-05	V10 5.0L	{8,153,286}	49	850					
2006-04	V6 3.2L	{153,286}	94R	640					
2004	V10 4.9L Aux, Diesel	{8,153,286}	95R	950					
<b>e-Golf</b>									
2017-16	Electric Electric, PR-J1L Code	{1,8,24,50,261}	47	540					
2017-16	Electric Electric, PR-J2D Code	{1,8,24,50,80,261}	48	680					
2015	Electric Electric, PR-J1L Code	{8,24,50,286}	47	540					
2015	Electric Electric, PR-J0S Code	{1,8,24,50,261,281}	47	540					
2015	Electric Electric, PR-J0S Code	{8,24,50,261,281,286}	NA	540					
2015	Electric Electric, PR-J2D Code	{8,24,50,80,261,286}	48	680					

See page 23 for application footnotes.



# VEHICLES REQUIRING LABOR-INTENSIVE BATTERY REPLACEMENT

## ACURA

**IMPORTANT NOTE: BATTERIES CAN EXPLODE! Always wear safety glasses AND shield eyes when working around batteries. Always check for proper polarity and sufficient terminal clearance BEFORE final installation to avoid dangerous sparks, potential explosion, possible severe personal injury and/or expensive electrical system and/or vehicle/equipment damage or fire.**

1	Battery gasses need to be vented to outside.	249	Battery located between left front headlight assembly & left front wheel splash shield.
3	Deep cycle battery required. Watch polarity!	250	Battery located in cargo area.
6	Installation may take over 30 mins.	251	Battery located in compartment behind left front fender.
8	Best Performance Estimate	252	Battery located in floor pan in 2nd row passenger area.
12	Non-BCI group size.	253	Battery located in front trunk.
15	Two batteries required. For best results, replace both of same type.	254	Battery located in luggage compartment.
16	Vibration proof battery. Replacement not available.	255	Battery located in passenger side frame rail, behind the front passenger door.
24	OEM Used various size batteries in production. Check original battery for size and correct fit.	256	Battery located under passenger front seat.
37	Best fit estimate, Mfr. Recommended replacement battery shown, may vary from OE battery. Check clearance before connecting cables.	257	Battery located under passenger rear seat.
40	Battery located in wheel well - Remove front tire to access the battery.	258	Battery located under passenger seat.
41	Battery located under the rear seat.	260	Vent tube may need to be modified for proper venting.
42	Battery located under hood, under the washer bottle.	261	Battery located in engine compartment.
43	Battery located under hood, under the fuse box.	262	Battery located in passenger footwell.
44	Battery located under hood, under the fuse box. Power steering reservoir must be moved.	263	Battery located in passenger side front wheel well.
45	Battery located under hood, under the air filter.	264	Battery located in rear passenger footwell.
46	Battery located in trunk. Spare tire may have to be removed.	265	Battery is located behind the left front fender and is accessible through the wheel well.
47	OE battery is AGM	266	Battery is located behind the passenger seat in the floor.
50	Vehicle computer system must be reset and battery registered using scan tool	267	Battery is located on the frame rail.
80	AGM Valve-Regulated Battery Required.	276	Call service specialist before changing battery
139	Battery Located in Trunk.	280	Battery is located left hand side of luggage compartment.
148	Two or more batteries required. For best results, replace all.	281	OE battery is EFB, Enhanced Flooded Battery.
151	Mfr. Recommended replacement battery shown, may vary from OE battery.	282	Li-ion Battery Only
152	Battery Located in Left Rear Tire Well. Remove Tire.	286	Battery gasses need to be vented to outside. For proper venting instructions see the last page.
153	Battery Located Under Drivers Seat.	302	Battery located behind the passenger seat in the floor.
179	Requires 1 to 4 batteries	303	Battery located on Passenger side frame rail.
184	Battery located behind passenger seat.	306	Battery located in Co-Drivers Legroom.
208	Battery located under floor on passenger side.	322	Battery located in engine compartment, against firewall.
213	OE does not require AGM battery.	326	Battery located under the cabin air filter housing in engine compartment.
231	Battery Located Under Drivers Footwell.	327	Battery located below instrument panel.
235	w/sensor	328	Battery located in engine compartment, with fuseblock on top of battery.
247	DIN/EN size	331	Battery located inside the right front fender.

**DISCLAIMER:** The battery replacement data published in this guide has been obtained from Battery Council International. The information contained in this guide was the most current information available at the time of publication. The information is subject to change without notice from equipment manufacturers or field experience. Users should consult the most current edition of this application guide and their owner's manual. The marketer and manufacturer expressly deny any responsibility for the accuracy provided. While every effort has been made to accurately catalog the replacement battery information in this guide, any liability for damages as a consequence of using the information in this guide is expressly denied. Users should also attempt to obtain replacement battery data from the original equipment manufacturer's user manual or service department for their specific application.