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ELECTRICAL/ELECTRONIC SYSTEMS DIAGNOSTIC TERMS, DEFINITIONS, ABBREVIATIONS, AND ACRONYMS—EQUIVALENT TO ISO/TR 15031-2:APRIL 30, 2002 —SAE J1930 APR2002

SAE Recommended Practice

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This SAE Recommended Practice supersedes SAE J1930 MAY1998 and is technically equivalent to ISO/TR 15031-2:April 30, 2002.

Foreword—As the number of sophisticated electrical and electronic (E/E) systems on motor vehicles has increased, the number of terms, abbreviations, and acronyms which describe various components of these systems has increased enormously. To bring some order to the proliferation of such terms, abbreviations, and acronyms, the Vehicle E/E Diagnostic Systems Committee has prepared this document.

The nomenclature used to convey automotive service information is being standardized in order to more accurately convey information to technicians faced with the diagnosis and repair of increasingly complex vehicles.

To be properly descriptive, each type of automotive nomenclature requires a consistent methodology. This document is concerned with a methodology for naming objects and systems and with the set of words from which names are built.

The methodology allows objects and systems to be completely described without ambiguity. It also is able to generate names which distinguish among similar objects or systems without confusion but with brevity. Using terms which are well-defined within the context of the automotive service industry, the methodology allows already existing imprecise names to be suitably changed and future names to be assigned in a predictable way which will reliably convey meaning to the technician.

The structure of this SAE document is open-ended by design. As the need arises, additional entries can be added. Because of this flexibility, particular attention should be paid to the month and year publishing code contained in the full "J" number designation.

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1. Scope—This SAE Recommended Practice is applicable to all light-duty gasoline and diesel passenger vehicles and trucks, and to heavy-duty gasoline vehicles. Specific applications of this document include diagnostic, service and repair manuals, bulletins and updates, training manuals, repair data bases, underhood emission labels, and emission certification applications.

This document focuses on diagnostic terms applicable to electrical/electronic systems, and therefore also contains related mechanical terms, definitions, abbreviations, and acronyms.

Even though the use and appropriate updating of this document is strongly encouraged, nothing in this document should be construed as prohibiting the introduction of a term, abbreviation, or acronym not covered by this document.

Certain terms have already been in common use and are readily understood by manufacturers and technicians, but do not follow the methodology of this document. To preserve this understanding, these terms were included and have been identified with the footnote (2), "historically acceptable common usage", so they will not erroneously serve as a precedent in the construction of new names. These terms fall into three categories:

a. Acronyms that do not logically fit the term.
b. Acronyms existing at the component level, i.e., their terms contain the base word or noun that describes the generic item that is being further defined.
c. Acronyms for terms that appear to contain the base word, but are frequently used as a modifier to another base word. (This use may possibly be thought of as following the methodology since the acronym is normally used as a modifier.)

2. References—There are no referenced publications specified herein.

3. How to Use This Document—To find the recommended term corresponding to an existing term, abbreviation, or acronym, see Table 1, Cross-Reference and Look-Up. See Table 2, Recommended Terms, and Table 3, Glossary of Terms, for definitions of the recommended terms. Use Section 4, Methodology, to construct a new name. Appropriate acceptable usages of Recommended Terms and Acronyms are contained in Table 1.

4. Methodology—This naming methodology of describing objects and systems uses modifiers attached to base words. Appropriate modifiers are added to a base word until an object or system is uniquely specified within its context.

4.1 Naming Objects—When building names, select the most descriptive base word from the Glossary of Terms (see Table 3). Add modifiers as necessary or as desirable within the context, in the order of most significance to least significance. The most significant word will be the base word, which denotes the basic function of the object. The most significant modifier will be adjacent to the base word, the second most significant will be next to that modifier, and so on until the least significant modifier is added. For the sake of future clarity, an additional modifier can be added to a name at any time, even if there is no present conflict with another object name. Figure 1 illustrates how modifiers can be added to build the name, "Instrumentation Engine Coolant Temperature Sensor."

When naming an object, it is tempting to choose the first modifiers according to the initial purpose for which the object was designed, but this will not always result in the name which is most helpful in the long run to a service technician. The information a technician needs is most often supplied by a term which describes a functional attribute, not purpose.

To ensure accuracy, always check the Glossary definitions of base words and modifiers before including them in a name. The Glossary is intended for diagnostic purposes, but provides only electrical/electronic terms for base words. Base words which describe non-electrical objects (e.g. bolt, screw, bumper) should be used as in the past. Often, names for these objects are created by attaching the appropriate electrical/electronic object name to the mechanical base word. When using a common multiple word modifier, see Tables 1 and 2 to be sure that the modifier is acceptable or if it should be replaced with a more precise term.

4.1.1 BASE WORDS—The base word is the most generic term in a name. Simply stated, it answers the question, "What is this object?" In answering this question, the base word does not include information about the location or function of an object within a particular system. Specific information like this is provided by modifiers that are added to the base word. The following are examples of base words: diode, engine, module, motor, pump, relay, sensor, solenoid, switch, valve. The base word is always a noun and the last term in a name.

4.1.2 MODIFIERS—Modifiers provide functional/applicational meaning, system differentiation, and locational/directional information. Modifiers usually express non-electrical ideas to describe base words which, in turn, convey electrical/electronic meaning. The range of modifiers is not limited and is used as necessary to uniquely describe an object in light of present knowledge, past experience, and potential future conflicts.

Although modifiers are used as adjectives, they are not necessarily terms which would normally be classified as adjectives. While neither "Air" or "Flow" are adjectives, the meaning of "Airflow Valve" is clear to technicians; it is the name of a valve which regulates the flow of air. Both modifiers are nouns functioning as adjectives because of their position.

MODIFIERS				BASE WORD	
What is its purpose?	Where is it?	Which Temp?	What does it sense?	What is it?	
				Sensor	Most generic
			Temperature	Sensor	
		Coolant	Temperature	Sensor	
	Engine	Coolant	Temperature	Sensor	Most specific
Instrumentation	Engine	Coolant	Temperature	Sensor	
Least <---------- SIGNIFICANCE ----------> Most					

FIGURE 1—MODIFIER USAGE EXAMPLE

System modifiers can be added to object names to describe an object's purpose. When using a system name as a modifier in an object name, the word "System" is not included. For example, the device that directs the exhaust gases in the Exhaust Gas Recirculation (EGR) System is named "Exhaust Gas Recirculation (EGR) Valve."

4.1.3 TECHNOLOGICAL TERMS—Technologically specific terms tend to lengthen names without adding a corresponding level of useful service information about the function of an object. Add an appropriate technological modifier to a name only when it describes the primary difference between two objects. For example, the "thick film" technology used to construct the internal circuit of an Airflow Sensor should not be identified in the object's name. However, if necessary for clarity, it would be appropriate to differentiate the relation to a specific external provision by adding "Hot Wire" to "Airflow Sensor."

A technological term should be the first modifier conversationally (farthest from the base word, the position of least significance), unless a directional modifier is also present.

4.2 Naming Systems—When constructing a name for a system, consider it to be a combination of a "concept" and the word "System." Develop the concept name according to the rules for object naming and add the word "System." Keep in mind that a concept's most basic attribute is its purpose and that this attribute is described by the term closest to the word "System." For example, "recirculation" is the basic attribute of the Exhaust Gas Recirculation (EGR) concept. The group of components that embody the concept are together named the "EGR System."

4.3 Shortened Names—Techniques of shortening, including acronyms and abbreviations, are often necessary when space is limited and when names become awkwardly long. It is preferable to create a name first and its shortened form later, rather than the other way around.

Abbreviations and acronyms may be constructed not only of the letters of the alphabet, but of numbers, space characters, punctuation marks (such as "/" and "–"), subscripts and any other ASCII characters. Treat the individual acronyms, modifier abbreviations, and base word abbreviations as words, separating them by space characters.

4.3.1 ACRONYMS—Specific definitions of acronyms vary, but for the purpose of this document, an acronym is a memorable combination of the first letters of the words of a name. While abbreviations are useful in text where space is limited, acronyms are particularly convenient for shortening verbal communication in addition to written materials. For this reason, acronyms are often pronounceable, which also makes them easy to remember. They are especially useful if a name is long and bulky both on paper and in conversation.

Use acronyms as modifiers or base words within names, such as "EGR System" and "Primary ECM." Do not use them as entire names, like "EGRS." Acronyms and other modifiers may be combined in any meaningful order to modify a base word. The following are examples of acceptable uses of acronyms:

EGR System EGRT Sensor Low Speed FC Switch High Speed FC Switch

Because there are a limited number of useful letter combinations for acronyms, new acronyms should be created for only the most commonly used terms. Also, avoid creating new acronyms by adding letters to those that already exist. For example, when using the acronym "FC" (Fan Control), do not add "H" or "L" to indicate "High Speed" or "Low Speed." Instead, use additional modifiers.

Usually, the first letters of each word of a name are used to build an acronym, but if a particular word is of little significance, it may be omitted ("United States of America" becomes "USA"). Also, more than the first letter of each word may be used ("Radio Detecting And Ranging" becomes "RADAR"). An acronym like "USA" which contains three letters or fewer may have its letters spoken separately, but a longer acronym such as "RADAR" must be pronounceable or its purpose will be defeated.

All of the letters of an acronym should be capitalized. Acronyms should not contain periods. Until an acronym is widely well-known, it should be accompanied by the spelled-out form when necessary for accurate reader comprehension in any given context.

In the very rare cases of strong historical meaning across all manufacturers, the rules for naming and acronym usage may be broken. For example, "AIR" is the approved acronym for "Secondary Air Injection", instead of "SAI." In fact, because there is no approved name "Primary Air Injection," the term "Secondary Air Injection" would be considered inappropriate. Despite this, historical precedent renders "AIR" and "Secondary Air Injection" the most easily understood terms. "AIR" originally meant "Air Injection Reactor". However, vehicles no longer necessarily use a separate air injector reactor, but instead might have additional air injected to the catalytic converter. Because of the similarity to the previous system, technicians have expressed a strong desire to retain "AIR" rather than "SAI".

Before using a new acronym, be sure to check Tables 1 and 2 for any conflicts with acronyms already in use.

4.3.2 ABBREVIATIONS—Use abbreviations to shorten base words and directional modifiers in written materials. Unlike an acronym, an abbreviation should have only its first letter capitalized and should end with a period. Wire colors are an exception to the rules of capitalization and punctuation. As in the past, they should continue to be completely capitalized in text and not followed by a period (for example, "a BLK wire"). Currently identified abbreviations for base words and modifiers are found in Table 1.

4.4 Indexing of Name—Service information index designers consider the importance of each term in a name, and select the most appropriate word(s) to index. They most frequently index base words; following each by its modifier(s) to enhance users retrieval. This document allows the designer flexibility to choose the indexed word(s); while it describes, in detail, the methodology for the conversational word order in text and illustrations. For example, the designer can conform to the methodology of this document and provide the user with the effective retrieval of the conversational name "Left Front Wheel Speed Sensor" by indexing it as "Sensor, Left Front Wheel Speed."

4.5 Alphanumeric Descriptors—4.1, 4.2, and 4.3 describe the appropriate methodology to completely describe objects and systems without ambiguity. This section includes naming objects (with base words, modifiers, and technological terms), naming systems and building shortened names.

An "alphanumeric descriptor" can be used in information delivered to the end-user of a scan tool having an 8-character display limitation. An alphanumeric descriptor is not recommended for general use, but can be built from a Recommended Term by replacing position modifier words with numeric digits, and omitting certain self-evident letters.

Alphanumeric position modifiers in an alphanumeric descriptor should be positioned to follow the base word, rather than the conversational practice of preceding the base word.

Figure 2 illustrates how several Recommended Terms and Acronyms can be further shortened into alphanumeric descriptors. The following guidelines should be followed when using or developing alphanumeric descriptors:

a. First consult Table 2, Recommended Terms in the Acronyms column.
b. If the term is not included, build a suitable term using 4.1 Naming Object or 4.2 Naming System. Then shorten the term using 4.3 Shortened Names.
c. If the resultant term is too long for a scan tool with an 8-character display limitation, build an Alphanumeric Descriptor for electronic delivery according to the pattern shown in Figure 2:
d. Delete or replace characters as required.
e. Omit spaces depending on the display limitation

EXAMPLE—FUEL PRES becomes FUELPRES

f. Consult Table 4 for a matching Alphanumeric Descriptor.
g. If Table 4 does not contain a matching Alphanumeric Descriptor, request an addition, using the Request for Revision form in Appendix A.

Recommended Term	Acceptable Acronized Usage	Alphanumeric Descriptor
Diagnostic Trouble Code	DTC Freeze Fame	DTC FRZF
Engine Coolant Temperature	ECT	None Required
Flexible Fuel	FF	None Required
Freeze Frame	Freeze Frame	FRZF
Fuel Pressure	Fuel Pressure	FUEL PRES
Fuel System 1 Status	Fuel System 1 Status	FUEL SYS 1
Long Term Fuel Trim Bank 2	Long Term FT Bank 2	LONG FT 2
Oxygen Sensor Location Bank 1 Position 1	02S Bank 1 Position 1	02SL0C11

FIGURE 2—ALPHANUMERIC DESCRIPTORS EXAMPLE

5. Cross-Reference and Look-Up—See Table 1.

The left column lists existing terms, acronyms, and abbreviations. The center column provides the corresponding acceptable usages constructed of recommended terms combined with other modifiers and/or base words. The acceptable acronized usage is shown in the right oclumn.

For information about using acronyms and abbreviations, see 4.3.1 (Acronyms) and 4.3.2 (Abbreviations). For additional information about Recommended Terms, see Tables 2 and 3.

TABLE 1—CROSS-REFERENCE AND LOOK-Up[1][2]

EXISTING USAGE	ACCEPTABLE USAGE	ACCEPTABLE ACRONIZED USAGE
3-2 Timing Solenoid	3-2 Timing Solenoid	3-2TS
3-2 Timing Solenoid Valve	3-2 Timing Solenoid Valve	3-2TS Valve
3-2TS (3-2 Timing Solenoid) Valve	3-2 Timing Solenoid Valve	3-2TS Valve
3-2TS (3-2 Timing Solenoid)	3-2 Timing Solenoid	3-2TS
3GR (Third Gear)	Third Gear	3GR
4GR (Fourth Gear)	Fourth Gear	4GR
4WD (Four Wheel Drive)	Four Wheel Drive	4WD
4WD (Four Wheel Drive)	Full Time Four Wheel Drive	F4WD
4WD (Four Wheel Drive)	Selectable Four Wheel Drive	S4WD
A4WD (Automatic 4 Wheel Drive)	Automatic 4 Wheel Drive	A4WD
A/C (Air Conditioning)	Air Conditioning	A/C
A/C Cycling Switch	Air Conditioning Cycling Switch	A/C Cycling Switch
A/F Ratio Sensor	Air Fuel Ratio Sensor	A/F Sensor
A/T (Automatic Transaxle)	Automatic Transaxle	A/T
A/T (Automatic Transmission)	Automatic Transmission	A/T
AAT (Ambient Air Temperature)	Ambient Air Temperature	AAT
AC (Air Conditioning)	Air Conditioning	A/C
ACC (Air Conditioning Clutch)	Air Conditioning Clutch	A/C Clutch
Accelerator	Accelerator Pedal	AP
Accelerator Pedal Position	Accelerator Pedal Position	APP
ACCS (Air Conditioning Cycling Switch)	Air Conditioning Cycling Switch	A/C Cycling Switch
ACH (Air Cleaner Housing)	Air Cleaner Housing	ACL Housing
ACL (Air Cleaner)	Air Cleaner	ACL
ACL (Air Cleaner) Element	Air Cleaner Element	ACL Element
ACL (Air Cleaner) Housing	Air Cleaner Housing	ACL Housing
ACL (Air Cleaner) Housing Cover	Air Cleaner Housing Cover	ACL Housing Cover
ACS (Air Conditioning System)	Air Conditioning System	A/C System
ACT (Air Charge Temperature)	Intake Air Temperature	IAT
Adaptive Fuel Strategy	Fuel Trim	FT
Adsorber	Adsorber	Adsorber
AFC (Airflow Control)	Mass Airflow	MAF
AFC (Airflow Control)	Volume Airflow	VAF
AFS (Airflow Sensor)	Mass Airflow Sensor	MAF Sensor
AFS (Airflow Sensor)	Volume Airflow Sensor	VAF Sensor
After Cooler	Charge Air Cooler	CAC
AFWD (Automatic 4 Wheel Drive)	Automatic 4 Wheel Drive	A4WD
AI (Air Injection)	Secondary Air Injection	AIR
AIP (Air Injection Pump)	Secondary Air Injection Pump	AIR Pump
AIR (Air Injection Reactor)	Pulsed Secondary Air Injection	PAIR
AIR (Air Injection Reactor)	Secondary Air Injection	AIR
AIR Shutoff Valve	Secondary Air Injection Shutoff Valve	Secondary Air Injection Shutoff Valve
Air Cleaner	Air Cleaner	ACL
Air Cleaner Element	Air Cleaner Element	ACL Element
Air Cleaner Housing	Air Cleaner Housing	ACL Housing

TABLE 1—CROSS-REFERENCE AND LOOK-Up[1][2] (continued)

EXISTING USAGE	ACCEPTABLE USAGE	ACCEPTABLE ACRONIZED USAGE
Air Cleaner Housing Cover	Air Cleaner Housing Cover	ACL Housing Cover
Air Conditioning	Air Conditioning	A/C
Air Conditioning Sensor	Air Conditioning Sensor	A/C Sensor
Air Control Valve	Secondary Air Injection Control Valve	AIR Control Valve
Air Fuel Ratio Sensor	Air Fuel Ratio Sensor	A/F Sensor
Air Intake System	Intake Air System	IA System
AIRB (Secondary Air Injection Bypass)	Secondary Air Injection Bypass	AIR Bypass
AIRD (Secondary Air Injection Diverter)	Secondary Air Injection Diverter	AIR Diverter
Airflow Meter	Mass Airflow Sensor	MAF Sensor
Airflow Meter	Volume Airflow Sensor	VAF Sensor
Airflow Sensor	Mass Airflow Sensor	MAF Sensor
Air Management	Secondary Air Injection Bypass	AIR Bypass
Air Management 2	Secondary Air Injection Diverter	AIR Diverter
Air Temperature Sensor	Intake Air Temperature Sensor	IAT Sensor
Air Valve	Idle Air Control Valve	IAC Valve
AIV (Air Injection Valve)	Pulsed Secondary Air Injection	PAIR
ALCL (Assembly Line Communication Link)	Data Link Connector	DLC
Alcohol Concentration Sensor	Flexible Fuel Sensor	FF Sensor
ALDL (Assembly Line Diagnostic Link)	Data Link Connector	DLC
ALT (Alternator)	Generator	GEN
Alternator	Generator	GEN
AM (Air Management)	Secondary Air Injection Bypass	AIR Bypass
AM2 (Air Management 2)	Secondary Air Injection Diverter	AIR Diverter
Ambient Air Temperature	Ambient Air Temperature	AAT
APP (Accelerator Pedal Position)	Accelerator Pedal Position	APP
APS (Absolute Pressure Sensor)	Barometric Pressure Sensor	BARO Sensor
ATS (Air Temperature Sensor)	Intake Air Temperature Sensor	IAT Sensor
Automatic 4 Wheel Drive	Automatic 4 Wheel Drive	A4WD
Automatic Temperature Control	Climate Control	CC
Automatic Transaxle	Automatic Transaxle	A/T
Automatic Transmission	Automatic Transmission	A/T
B+ (Battery Positive Voltage)	Battery Positive Voltage	B+
Backpressure Transducer	Exhaust Gas Recirculation Backpressure Transducer	EGR Backpressure Transducer
BARO (Barometric Pressure)	Barometric Pressure	BARO
Barometric Pressure Sensor	Barometric Pressure Sensor	BARO Sensor
Battery Positive Voltage	Battery Positive Voltage	B+
BC (Blower Control)	Blower Control	BC
BLM (Block Learn Matrix)	Long Term Fuel Trim	Long Term FT
BLM (Block Learn Memory)	Long Term Fuel Trim	Long Term FT
BLM (Block Learn Mutiplier)	Long Term Fuel Trim	Long Term FT
Block Learn Integrator	Long Term Fuel Trim	Long Term FT
Block Learn Matrix	Long Term Fuel Trim	Long Term FT
Block Learn Memory	Long Term Fuel Trim	Long Term FT
Block Learn Multiplier	Long Term Fuel Trim	Long Term FT
Blower Control	Blower Control	BC
Blower Control Module	Blower Control Module	BC Module
Blower Motor Speed Controller	Blower Control Module	BC Module
BP (Barometric Pressure) Sensor	Barometric Pressure Sensor	BARO Sensor
BPP (Brake Pedal Position)	Brake Pedal Position	BPP
Brake Pedal Position	Brake Pedal Position	BPP
Brake Pressure	Brake Pressure	Brake Pressure
BUS Negative	Bus Negative	BUS N
BUS Positive	Bus Positive	BUS P
BUS N	Bus Negative	BUS N
BUS P	Bus Positive	BUS P

TABLE 1—CROSS-REFERENCE AND LOOK-Up[1][2] (continued)

EXISTING USAGE	ACCEPTABLE USAGE	ACCEPTABLE ACRONIZED USAGE
Calculated Load Value	Calculated Load Value	Load
C^{3}I(Computer Controlled Coil Ignition)	Electronic Ignition	EI
CAC (Charge Air Cooler)	Charge Air Cooler	CAC
Camshaft Position	Camshaft Position	CMP
Camshaft Position Actuator	Camshaft Position Actuator	CMP Actuator
Camshaft Position Controller	Camshaft Position Actuator	CMP Actuator
Camshaft Position Sensor	Camshaft Position Sensor	CMP Sensor
Camshaft Sensor	Camshaft Position Sensor	CMP Sensor
Camshaft Timing Actuator	Camshaft Position Actuator	CMP Actuator
Canister	Canister	Canister
Canister	Evaporative Emission Canister	EVAP Canister
Canister Purge	Evaporative Emission Canister Purge	EVAP Canister Purge
Canister Purge Vacuum Switching Valve	Evaporative Emission Canister Purge Valve	EVAP Canister Purge Valve
Canister Purge Valve	Evaporative Emission Canister Purge Valve	EVAP Canister Purge Valve
Canister Purge VSV (Vacuum Switching Valve)	Evaporative Emission Canister Purge Valve	EVAP Canister Purge Valve
CANP (Canister Purge)	Evaporative Emission Canister Purge	EVAP Canister Purge
CARB (Carburetor)	Carburetor	CARB
Carbon Dioxide	Carbon Dioxide	CO2
Carbon Monoxide	Carbon Monoxide	CO
Carburetor	Carburetor	CARB
Catalytic Converter Heater	Catalytic Converter Heater	Catalytic Converter Heater
CC (Climate Control)	Climate Control	CC
CCC (Converter Clutch Control)	Torque Converter Clutch	TCC
CCO (Converter Clutch Override)	Torque Converter Clutch	TCC
CCRM (Constant Control Relay Module)	Relay Mode	RM
CCS (Coast Clutch Solenoid)	Coast Clutch Solenoid	CCS
CCS (Coast Clutch Solenoid) Valve	Coast Clutch Solenoid Valve	CCS Valve
CDI (Capacitive Discharge Ignition)	Distributor Ignition	DI
CDROM (Compact Disc Read Only Memory)	Compact Disc Read Only Memory	CDROM
Central Multiport Fuel Injection	Central Multiport Fuel Injection	Central MFI
Central Sequential Multiport Fuel Injection	Central Multiport Fuel Injection	Central SFI
CES (Clutch Engage Switch)	Clutch Pedal Position Switch	CPP Switch
CFI (Central Fuel Injection	Throttle Body Fuel Injection	TBI
CFI (Continuous Fuel Injection)	Continuous Fuel Injection	CFI
CFV (Critical Flow Venturi)	Critical Flow Venturi	CFV
Charcoal Canister	Evaporative Emission Canister	EVAP Canister
Charge Air Cooler	Charge Air Cooler	CAC
Check Engine	Service Reminder Indicator	SRI
Check Engine	Malfunction Indicator Lamp	MIL
CID (Cylinder Identification) Sensor	Camshaft Position Sensor	CMP Sensor
CIS-E (Continuous Injection System Electronic)	Continuous Fuel Injection	CFI
CIS (Continuous Injection System)	Continuous Fuel Injection	CFI
CKP (Cranksahft Position)	Crankshaft Position	CKP
CKP (Crankshaft Position) Sensor	Crankshaft Position sensor	CKP Sensor
CL (Closed Loop)	Closed Loop	CL
Climate Control	Climate Control	CC
Closed Bowl Distributor	Distributor Ignition	DI
Closed Throttle Position	Closed Throttle Position	CTP
Closed Throttle Switch	Closed Throttle Position Switch	CTP Switch
CLS (Closed Loop System)	Closed Loop	CL
Clutch Engage Switch	Clutch Pedal Position Switch	CPP Switch
Clutch Pedal Position Switch	Clutch Pedal Position Switch	CPP Switch
Clutch Start Switch	Clutch Pedal Position Switch	CPP Switch
Clutch Switch	Clutch Pedal Position Switch	CPP Switch

TABLE 1—CROSS-REFERENCE AND LOOK-Up[1][2] (continued)

EXISTING USAGE	ACCEPTABLE USAGE	ACCEPTABLE ACRONIZED USAGE
CLV (Calculated Load Value)	Calculated Load Value	Load
CMFI (Central Multiport Fuel Injection)	Central Multiport Fuel Injection	Central MFI
CMFI (Central Multiport Fuel Injection)	Central Multiport Fuel Injection	See Table 4
CMP (Camshaft Position)	Camshaft Position	CMP
CMP (Camshaft Position) Sensor	Camshaft Position Sensor	CMP Sensor
CO (Carbon Monoxide)	Carbon Monoxide	CO
CO (Carbon Monoxide) Potentiometer	Carbon Monoxide Potentionmeter	CO Potentionmeter
CO2 (Carbon Dioxide)	Carbon Dioxide	CO2
Coast Clutch Solenoid	Coast Clutch Solenoid	CCS
COC (Continuous Oxidation Catalyst)	Oxidation Catalytic Converter	OC
Coast Clutch Solenoid Valve	Coast Clutch Solenoid Valve	CCS Valve
Condenser	Distributor Ignition Capacitor	DI Capacitor
Constant Control Relay Module	Relay Module	RM
Constant Volume Sampler	Constant Volume Sampler	CVS
Continuous Fuel Injection	Continuous Fuel Injection	CFI
Continuous Injection System	Continuous Fuel Injection System	CFI System
Continuous Injection System-E	Electronic Continuous Fuel Injection System	Electronic CFI System
Continuous Trap Oxidizer	Continous Trap Oxidizer	CTOX
Continuously Variable Transaxle	Continuously Variable Transaxle	CVT
Continuously Variable Transmission	Continuously Variable Transmission	CVT
Coolant Temperture Sensor	Engine Coolant Temperature Sensor	ECT Sensor
CP (Crankshaft Position)	Crankshaft Position	CKP
CPP (Clutch Pedal Position)	Clutch Pedal Position	CPP
CPP (Clutch Pedal Position) Switch	Clutch Pedal Position Switch	CPP Switch
CPS (Camshaft Position Sensor)	Camshaft Position Sensor	CMP Sensor
CPS (Crankshaft Position Sensor)	Crankshaft Position Sensor	CKP Sensor
Crank Angle Sensor	Crankshaft Position Sensor	CKP Sensor
Crankshaft Position	Crankshaft Position	CKP
Crankshaft Position Sensor	Crankshaft Position Sensor	CKP Sensor
Crankshaft Speed	Engine Speed	RPM
Crankshaft Speed Sensor	Engine Speed Sensor	RPM Sensor
Critical Flow Venturi	Critical Flow Venturi	CFV
CTO (Continuous Trap Oxidizer)	Continuous Trap Oxidizer	CTOX
CTOX (Continuous Trap Oxidizer)	Continuous Trap Oxidizer	CTOX
CTP (Closed Throttle Position)	Closed Throttle Position	CTP
CTS (Coolant Temperature Sensor)	Engine Coolant Temperature Sensor	ECT Sensor
CTS (Coolant Temperature Switch)	Engine Coolant Temperature Switch	ECT Switch
CVS (Constant Volume Sampler)	Constant Volume Sampler	CVS
CVT (Continuously Variable Transaxle)	Continuously Variable Transaxle	CVT
CVT (Continuously Variable Transmission)	Continuously Variable Transmission	CVT
Cylinder ID (Identification) Sensor	Camshaft Position Sensor	CMP Sensor
D-Jetronic	Multiport Fuel Injection	MFI
Data Link Connector	Data Link Connector	DLC
Detonation Sensor	Knock Sensor	KS
DFI (Digital Fuel Injection)	Multiport Fuel Injection	MFI
DFI (Direct Fuel Injection)	Throttle Body Fuel Injection	TBI
DI (Direct Injection)	Direct Fuel Injection	DFI
DI (Distributor Ignition)	Distributor Ignition	DI
DI (Distributor Ignition) Capacitor	Distributor Ignition Capacitor	DI Capacitor
Diagnostic Test Mode	Diagnostic Test Mode	DTM
Diagnostic Trouble Code	Diagnostic Trouble Code	DTC
DID (Direct Injection—Diesel)	Direct Fuel Injection	DFI
Differential Pressure Feedback EGR (Exhaust Gas Recirculation) System	Differential Pressure Feedback Exhaust Gas Recirculation System	Differential Pressure Feedback EGR System
Digital EGR (Exhaust Gas Recirculation)	Exhaust Gas Recirculation	EGR
Direct Fuel Injection	Direct Fuel Injection	DFI

TABLE 1—CROSS-REFERENCE AND LOOK-Up[1][2] (continued)

EXISTING USAGE	ACCEPTABLE USAGE	ACCEPTABLE ACRONIZED USAGE
Direct Ignition System	Electronic Ignition System	EI System
DIS (Distributorless Ignition System)	Electronic Ignition System	EI System
DIS (Distributorless Ignition System) Module	Ignition Control Module	ICM
Distance Sensor	Vehicle Speed Sensor	VSS
Distributor Ignition	Distributor Ignition	DI
Distributorless Ignition	Electronic Ignition	EI
DLC (Data Link Connector)	Data Link Connector	DLC
DLI (Distributorless Ignition)	Electronic Ignition	EI
DM (Drive Motor)	Drive Motor	DM
DMCM (Drive Motor Control Module)	Drive Motor Control Module	DMCM
DMCT (Drive Motor Coolant Temperature)	Drive Motor Coolant Temperature	DMCT
DMPI (Drive Motor Power Inverter) Module	Drive Motor Power Inverter Module	DMPI Module
Drive Motor	Drive Motor	DM
Drive Motor Control Module	Drive Motor Control Module	DMCM
Drive Motor Coolant Temperature	Drive Motor Coolant Temperature	DMCT
Drive Motor Power Inverter Module	Drive Motor Power Inverter Module	DMPI Module
Driver	Driver	Driver
DS (Detonation Sensor)	Knock Sensor	KS
DTC (Diagnostic Trouble Code)	Diagnostic Trouble Code	DTC
DTM (Diagnostic Test Mode)	Diagnostic Test Mode	DTM
Dual Bed	Three Way + Oxidation Catalytic Converter	TWC+OC
Duty Solenoid for Purge Valve	Evaporative Emission Canister Purge Valve	EVAP Canister Purge Valve
Dynamic Pressure Control	Dynamic Pressure Control	Dynamic PC
Dynamic Pressure Control Solenoid	Dynamic Pressure Control Solenoid	Dynamic PC Solenoid
Dynamic Pressure Control Solenoid Valve	Dynamic Pressure Control Solenoid Valve	Dynamic PC Solenoid Valve
E2PROM (Electrically Erasable Programmable Read Only Memory)	Electrically Erasable Programmable Read Only Memory	EEPROM
Early Fuel Evapoaration	Early Fuel Evaporation	EFE
EATX (Electronic Automatic Transmission/Transaxle)	Automatic Transmission	A/T
EC (Engine Control)	Engine Coolant	EC
ECA (Electronic Control Assembly)	Powertrain Control Module	PCM
ECL (Engine Coolant Level)	Engine Coolant Level	ECL
ECM (Engine Control Module)	Engine Control Module	ECM
ECT (Engine Coolant Temperature)	Engine Coolant Temperature	ECT
ECT (Engine Coolant Temperature) Sender	Engine Coolant Temperature Sensor	ECT Sensor
ECT (Engine Coolant Temperature) Sensor	Engine Coolant Temperature Sensor	ECT Sensor
ECT (Engine Coolant Temperature) Switch	Engine Coolant Temperature Switch	ECT Switch
ECU4 (Electronic Control Unit 4)	Powertrain Control Module	PCM
EDF (Electro-Drive Fan) Control	Fan Control	FC
EDIS (Electronic Distributor Ignition System)	Distributor Ignition System	DI System
EDIS (Electronic Distributor Ignition System) Module	Distributor Ignition Control Module	Distributor ICM
EDIS (Electronic Distributorless Ignition System)	Electronic Ignition System	EI System
EEC (Electronic Engine Control)	Engine Control	EC
EEC (Electronic Engine Control) Processor	Powertrain Control Module	PCM
EECS (Evaporative Emission Control System)	Evaporative Emission System	EVAP System
EEPROM (Electrically Erasable Programmable Read Only Memory)	Electrically Erasable Programmable Read Only Memory	EEPROM
EFE (Early Fuel Evaporation)	Early Fuel Evaporation	EFE
EFI (Electronic Fuel Injection)	Multiport Fuel Injection	MFI

TABLE 1—CROSS-REFERENCE AND LOOK-Up[1][2] (continued)

EXISTING USAGE	ACCEPTABLE USAGE	ACCEPTABLE ACRONIZED USAGE
EFI (Electronic Fuel Injection)	Throttle Body Fuel Injection	TBI
EFT (Engine Fuel Temperature)	Engine Fuel Temperature	EFT
EFT (Engine Fuel Temperature) Sensor	Engine Fuel Temperature Sensor	EFT Sensor
EGO (Exhaust Gas Oxygen) Sensor	Oxygen Sensor	O2S
EGOS (Exhaust Gas Oxygen Sensor)	Oxygen Sensor	O2S
EGR (Exhaust Gas Recirculation)	Exhaust Gas Recirculation	EGR
EGR (Exhaust Gas Recirculation) Diagnostic Valve	Exhaust Gas Recirculation Diagnostic Valve	EGR Diagnostic Valve
EGR (Exhaust Gas Recirculation) System	Exhaust Gas Recirculation System	EGR System
EGR (Exhaust Gas Recirculation) Thermal Vacuum Valve	Exhaust Gas Recirculation Thermal Vacuum Valve	EGR TVV
EGR (Exhaust Gas Recirculation) Valve	Exhaust Gas Recirculation Valve	EGR Valve
EGR TVV (Exhaust Gas Recirculation Thermal Vacuum Valve)	Exhaust Gas Recirculation Thermal Vacuum Valve	EGR TVV
EGRT (Exhaust Gas Recirculation Temperature)	Exhaust Gas Recirculation Temperature	EGRT
EGRT (Exhaust Gas Recirculation Temperature) Sensor	Exhaust Gas Recirculation Temperature Sensor	EGRT Sensor
EGRV (Exhaust Gas Recirculation Valve)	Exhaust Gas Recirculation Valve	EGR Valve
EGRVC (Exhaust Gas Recirculation Valve Control)	Exhaust Gas Recirculation Valve Control	EGR Valve Control
EGS (Exhaust Gas Sensor)	Osygen Sensor	O2S
EGT (Exhaust Gas Temperature)	Exhaust Gas Temperature	EGT
EHOC (Exhaust Heated Oxidation Catalyst)	Heated Oxidation Catalyst	HOC
EHTWC (Exhaust Heated 3-Way Catalyst)	Heated 3-Way Catalyst	HTWC
EI (Electronic Ignition) (With Distributor)	Distributor Ignition	DI
EI (Electronic Ignition) (Without Distributor)	Electronic Ignition	EI
Electrically Heated 3-Way Catalyst	Heated 3-Way Catalyst	HTWC
Electrically Heated Oxidation Catalyst	Heated Oxidation Catalyst	HOC
Electrically Erasable Programmable Read Only Memory	Electrically Erasable Programmable Read Only Memory	EEPROM
Electronic Automatic Temperature Control	Climate Control	CC
Electronic Engine Control	Electronic Engine Control	Electronic EC
Electronic Ingition	Electronic Ignition	EI
Electronic Spark Advance	Ignition Control	IC
Electronic Spark Timing	Ignition Control	IC
EM (Engine Modification)	Engine Modification	EM
EMR (Engine Maintenance Reminder)	Service Reminder Indicator	SRI
Engine Control	Engine Control	EC
Engine Control Module	Engine Control Module	ECM
Engine Coolant Fan Control	Fan Control	FC
Engine Coolant Level	Engine Coolant Level	ECL
Engine Coolant Level Indicator	Engine Coolant Level Indicator	ECL Indicator
Engine Coolant Temperature	Engine Coolant Temperature	ECT
Engine Coolant Temperature Sender	Engine Coolant Temperature Sensor	ECT Sensor
Engine Coolant Temperature Sensor	Engine Coolant Temperature Sensor	ECT Sensor
Engine Coolant Temperature Switch	Engine Coolant Temperature Switch	ECT Switch
Engine Fuel Temperature	Engine Fuel Temperature	EFT
Engine Fuel Temperature Sensor	Engine Fuel Temperature Sensor	EFT Sensor
EPR (Exhaust Pressure Regulator)	Exhaust Pressure Regulator	EPR
EVAP (Evaporate Emission) CANP (Canister Purge)	Evaporative Emission Canister Purge	EVAP Canister Purge
EVAP (Evaporative Emission)	Evaporative Emission	EVAP
EVAP (Evaporative Emission) Canister	Evaporative Emission Canister	EVAP Canister
EVAP (Evaporative Emission) Purge Valve	Evaporative Emission Canister Purge Valve	EVAP Canister Purge Valve
Evaporative Emission	Evaporative Emission	EVAP
Evaporative Emission Canister	Evaporative Emission Canister	EVAP Canister
EVP (Exhaust Gas Recirculation Valve Position) Sensor	Exhaust Gas Recirculation Valve Position Sensor	EGR Valve Position Sensor
EVR (Exhaust Gas Recirculation Vacuum Regulator) Solenoid	Exhaust Gas Recirculation Vacuum Regulator Valve	EGR Vacuum Regulator Valve

TABLE 1—CROSS-REFERENCE AND LOOK-Up[1][2] (continued)

EXISTING USAGE	ACCEPTABLE USAGE	ACCEPTABLE ACRONIZED USAGE
EVRV (Exhaust Gas Recirculation Vacuum Regulator Valve)	Exhaust Gas Recirculation Vacuum Regulator Valve	EGR Vacuum Regulator Valve
EXC (Exhaust Control)	Exhaust Control	EXC
EXC (Exhaust Control) Valve	Exhaust Control Valve	EXC Valve
EXC (Exhaust Control) Valve Actuator	Exhaust Control Valve	EXC Valve
EXC (Exhaust Control) Valve Cable	Exhaust Control Valve	EXC Valve
Exhaust Control	Exhaust Control	EXC
Exhaust Control Valve	Exhaust Control Valve	EXC Valve
Exhaust Control Valve Actuator	Exhaust Control Valve	EXC Valve
Exhaust Control Valve Cable	Exhaust Control Valve	EXC Valve
Exhaust Gas Recirculation	Exhaust Gas Recirculation	EGR
Exhaust Gas Recirculation Temperature	Exhaust Gas Recirculation Temperature	EGRT
Exhaust Gas Recirculation Temperature Sensor	Exhaust Gas Recirculation Temperature Sensor	EGRT Sensor
Exhaust Gas Recirculation Vacuum Regulator Valve	Exhaust Gas Recirculation Vacuum Regulator Valve	EGR Vacuum Regulator Valve
Exhaust Gas Recirculation Vacuum Solenoid Valve Regulator	Exhaust Gas Rericulation Vacuum Regulator Solenoid Valve	EGR Vacuum Regulator Solenoid Valve
Exhaust Gas Recirculation Vavle	Exhaust Gas Recirculation Valve	EGR Valve
Exhaust Gas Temperature	Exhaust Gas Temperature	EGT
Exhaust Gas Temperature	Exhaust Temperature	E/T
Exhaust Gas Temperature Sensor	Exhaust Gas Temperature Sensor	EGT Sensor
Exhaust Pressure	Exhaust Pressure	EP
Exhaust Pressure Regulator	Exhaust Pressure Regulator	EPR
Exhaust Pressure Regulator Valve	Exhaust Pressure Regulator Valve	EPR Valve
F4WD (Full Time Four Wheel Drive)	Full Time Four Wheel Drive	F4WD
Fan Control	Fan Control	FC
Fan Control Module	Fan Control Module	FC Module
Fan Control Relay	Fan Control Relay	FC Relay
Fan Motor Control Relay	Fan Control Relay	FC Relay
Fast Idle Thermo Valve	Idle Air Control Thermal Valve	IAC Thermal Valve
FBC (Feed Back Carburetor)	Carburetor	CARB
FBC (Feed Back Control)	Mixture Control	MC
FC (Fan Control)	Fan Control	FC
FC (Fan Control) Relay	Fan Control Relay	FC Relay
FEEPROM (Flash Electrically Erasable Programmable Read Only Memory)	Flash Electrically Erasable Programmable Read Only Memory	FEEPROM
FEPROM (Flash Erasable Programmable Read Only Memory)	Flash Erasable Programmable Read Only Memory	FEPROM
FF (Flexible Fuel)	Flexible Fuel	FF
FI (Fuel Injection)	Central Multiport Fuel Injection	Central MFI
FI (Fuel Injection)	Continuous Fuel Injection	CFI
FI (Fuel Injection)	Direct Fuel Injection	DFI
FI (Fuel Injection)	Indirect Fuel Injection	IFI
FI (Fuel Injection)	Multiport Fuel Injection	MFI
FI (Fuel Injection)	Sequential Multiport Fuel Injection	SFI
FI (Fuel Injection)	Throttle Body Fuel Injection	TBI
FIC (Fuel Injector Control)	Fuel Injector Control	FIC
Flame Ionization Detector	Flame Ionization Detector	FID
Flash EEPROM (Electrically Erasable Programmable Read Only Memory)	Flash Electrically Erasable Programmable Read Only Memory	FEEPROM
Flash EPROM (Erasable Programmable Read Only Memory)	Flash Erasable Programmable Read Only Memory	FEPROM
Flexible Fuel	Flexible Fuel	FF
Flexible Fuel Sensor	Flexible Fuel Sensor	FF Sensor
Four Wheel Drive	Automatic 4 Wheel Drive	A4WD
Four Wheel Drive	Four Wheel Drive	4WD
Four Wheel Drive	Full Time Four Wheel Drive	F4WD
Four Wheel Drive	Selectable Four Wheel Drive	S4WD
Fourth Gear	Fourth Gear	4GR
FP (Fuel Pump)	Fuel Pump	FP

TABLE 1—CROSS-REFERENCE AND LOOK-UP[1][2] (continued)

EXISTING USAGE	ACCEPTABLE USAGE	ACCEPTABLE ACRONIZED USAGE
FP (Fuel Pump) Module	Fuel Pump Module	FP Module
Freeze Frame	Freeze Frame	See Table 4
Front Wheel Drive	Front Wheel Drive	FWD
FRP (Fuel Rail Pressure)	Fuel Rail Pressure	FRP
FRP (Fuel Rail Pressure) Sensor	Fuel Rail Pressure Sensor	FRP Sensor
FRT (Fuel Rail Temperature)	Fuel Rail Temperature	FRT
FRT (Fuel Rail Temperature) Sensor	Fuel Rail Temperature Sensor	FRT Sensor
FRZF (Freeze Frame)	Freeze Frame	See Table 4
FT (Fuel Trim)	Fuel Trim	FT
FTP (Fuel Tank Pressure)	Fuel Tank Pressure	FTP
FTP (Fuel Tank Pressure) Sensor	Fuel Tank Pressure Sensor	FTP Sensor
FTT (Fuel Tank Temperature)	Fuel Tank Temperature	FTT
FTT (Fuel Tank Temperature) Sensor	Fuel Tank Temperature Sensor	FTT Sensor
Fuel Charging Station	Throttle Body	TB
Fuel Concentration Sensor	Flexible Fuel Sensor	FF Sensor
Fuel Injection	Central Multiport Fuel Injection	Central MFI
Fuel Injection	Continuous Fuel Injection	CFI
Fuel Injection	Direct Fuel Injection	DFI
Fuel Injection	Indirect Fuel Injection	IFI
Fuel Injection	Multiport Fuel Injection	MFI
Fuel Injection	Sequential Multiport Fuel Injection	SFI
Fuel Injection	Throttle Body Fuel Injection	TBI
Fuel Injector Control	Fuel Injector Control	FIC
Fuel Level Sensor	Fuel Level Sensor	Fuel Level Sensor
Fuel Module	Fuel Pump Module	FP Module
Fuel Pressure	Fuel Pressure	Fuel Pressure
Fuel Pressure	Fuel Pressure	See Table 4
Fuel Pressure Regulator	Fuel Pressure Regulator	Fuel Pressure Regulator
Fuel Pump	Fuel Pump	FP
Fuel Pump Relay	Fuel Pump Relay	FP Relay
Fuel Quality Sensor	Flexible Fuel Sensor	FF Sensor
Fuel Rail Pressure	Fuel Rail Pressure	FRP
Fuel Rail Pressure Sensor	Fuel Rail Pressure Sensor	FRP Sensor
Fuel Rail Temperature	Fuel Rail Temperature	FRT
Fuel Rail Temperature Sensor	Fuel Rail Temperature Sensor	FRT Sensor
Fuel Regulator	Fuel Pressure Regulator	Fuel Pressure Regulator
Fuel Sender	Fuel Pump Module	FP Module
Fuel Sensor	Fuel Level Sensor	Fuel Level Sensor
FUEL SYS (Fuel System Status)	Fuel System Status	See Table 4
Fuel System Status	Fuel System Status	See Table 4
Fuel Tank Pressure	Fuel Tank Pressure	FTP
Fuel Tank Pressure Sensor	Fuel Tank Pressure Sensor	FTP Sensor
Fuel Tank Temperature	Fuel Tank Temperature	FTT
Fuel Tank Temperature Sensor	Fuel Tank Temperature Sensor	FTT Sensor
Fuel Tank Unit	Fuel Pump Module	FP Module
Fuel Trim	Fuel Trim	FT
Full Throttle	Wide Open Throttle	WOT
Full Time Four Wheel Drive	Automatic 4 Wheel Drive	A4WD
Full Time Four Wheel Drive	Full Time Four Wheel Drive	F4WD
FWD (Front Wheel Drive)	Front Wheel Drive	FWD
GCM (Governor Control Module)	Governor Control Module	GCM
GEM (Governor Electronic Module)	Governor Control Module	GCM
GEN (Generator)	Generator	GEN
Glow Plug	Glow Plug	Glow Plug
GND (Ground)	Ground	GND

TABLE 1—CROSS-REFERENCE AND LOOK-Up[1][2] (continued)

EXISTING USAGE	ACCEPTABLE USAGE	ACCEPTABLE ACRONIZED USAGE
Governor	Governor	Governor
Governor Control Module	Governor Control Module	GCM
Governor Electronic Module	Governor Control Module	GCM
GPM (Gram Per Mile)	Gram Per Mile	GPM
Gram Per Mile	Gram Per Mile	GPM
GRD (Ground)	Ground	GND
Ground	Ground	GND
HC (Hydrocarbon)	Hydrocarbon	HC
HCDS (High Clutch Drum Speed)	High Clutch Drum Speed	HCDS
HCDS (High Clutch Drum Speed) Sensor	High Clutch Drum Speed Sensor	HCDS Sensor
Heated Oxygen Sensor	Heated Oxygen Sensor	HO2S
HEDF (High Electro-Drive Fan) Control	Fan Control	FC
HEGO (Heated Exhaust Gas Oxygen) Sensor	Heated Oxygen Sensor	HO2S
HEI (High Energy Ignition)	Distributor Ignition	DI
High Clutch Drum Speed	High Clutch Drum Speed	HCDS
High Clutch Drum Speed Sensor	High Clutch Drum Speed Sensor	HCDS Sensor
High Pressure Cutoff Switch	High Pressure Cutoff Switch	HPC Switch
High Speed FC (Fan Control) Switch	High Speed Fan Control Switch	High Speed FC Switch
HO2S (Heated Oxygen Sensor)	Heated Oxygen Sensor	HO2S
HOC (Heated Oxidation Catalyst)	Heated Oxidation Catalyst	HOC
HOS (Heated Oxygen Sensor)	Heated Oxygen Sensor	HO2S
Hot Wire Anemometer	Mass Airflow Sensor	MAF Sensor
HPC (High Pressure Cutoff) Switch	High Pressure Cutoff Switch	HPC Switch
HTWC (Heated 3-Way Catalyst)	Heated 3-Way Catalyst	HTWC
Hydrocarbon	Hydrocarbon	HC
I/M (Inspection and Maintenance)	Inspection and Maintenance	I/M
IA (Intake Air)	Intake Air	IA
IA (Intake Air) Duct	Intake Air Duct	IA Duct
IAC (Idle Air Control)	Idle Air Control	IAC
IAC (Idle Air Control) Thermal Valve	Idle Air Control Thermal Valve	IAC Thermal Valve
IAC (Idle Air Control) Valve	Idle Air Control Valve	IAC Valve
IACV (Idle Air Control Valve)	Idle Air Control Valve	IAC Valve
IAT (Intake Air Temperature)	Intake Air Temperature	IAT
IAT (Intake Air Temperature) Sensor	Intake Air Temperature Sensor	IAT Sensor
IATS (Intake Air Temperature Sensor)	Intake Air Temperature Sensor	IAT Sensor
IC (Ignition Control)	Ignition Control	IC
ICM (Ignition Control Module)	Ignition Control Module	ICM
ICP (Injection Control Pressure)	Injection Control Pressure	ICP
IDFI (Indirect Fuel Injection)	Indirect Fuel Injection	IFI
IDI (Indirect Diesel Injection)	Indirect Fuel Injection	IFI
IDI (Integrated Direct Ignition)	Electronic Ignition	EI
Idle Air Bypass Control	Idle Air Control	IAC
Idle Air Control	Idle Air Control	IAC
Idle Air Control Valve	Idle Air Control Valve	IAC Valve
Idle Speed Control	Idle Air Control	IAC
Idle Speed Control	Idle Speed Control	ISC
Idle Speed Control Actuator	Idle Speed Control Actuator	ISC Actuator
IFI (Indirect Fuel Injection)	Indirect Fuel Injection	IFI
IFS (Inertia Fuel Shutoff)	Inertia Fuel Shutoff	IFS
Ignition Coil	Ignition Coil	Ignition Coil
Ignition Control	Ignition Control	IC
Ignition Control Module	Ignition Control Module	ICM
IMRC (Intake Manifold Runner Control)	Intake Manifold Runner Control	IMRC
IMT (Intake Manifold Tuning) Valve	Intake Manifold Tuning Valve	IMT Valve
In-Tank Module	Fuel Pump Module	FP Module
Indirect Fuel Injection	Indirect Fuel Injection	IFI

TABLE 1—CROSS-REFERENCE AND LOOK-Up[1][2] (continued)

EXISTING USAGE	ACCEPTABLE USAGE	ACCEPTABLE ACRONIZED USAGE
Inertia Fuel - Shutoff Switch	Inertia Fuel Shutoff Switch	IFS Switch
Inertia Fuel Shutoff	Inertia Fuel Shutoff	IFS
Inertia Switch	Inertia Fuel Shutoff Switch	IFS Switch
Injection Control Pressure	Injection Control Pressure	ICP
Injector Pressure Sensor	Fuel Rail Pressure Sensor	FRP Sensor
Input Shaft Speed	Input Shaft Speed	ISS
Input Shaft Speed	Input Shaft Speed	ISS
Inspection and Maintenance	Inspection and Maintenance	I/M
INT (Integrator)	Short Term Fuel Trim	Short Term FT
Intake Air	Intake Air	IA
Intake Air Duct	Intake Air Duct	IA Duct
Intake Air Temperature	Intake Air Temperature	IAT
Intake Air Temperature Sensor	Intake Air Temperature Sensor	IAT Sensor
Intake Manifold Absolute Pressure Sensor	Manifold Absolute Pressure Sensor	MAP Sensor
Intake Manifold Runner Control	Intake Manifold Runner Control	IMRC
Intake Manifold Tuning Valve	Intake Manifold Tuning Valve	IMT Valve
Integrated Relay Module	Relay Module	RM
Integrator	Short Term Fuel Trim	Short Term FT
Inter Cooler	Charge Air Cooler	CAC
ISC (Idle Speed Control)	Idle Air Control	IAC
ISC (Idle Speed Control)	Idle Speed Control	ISC
ISC (Idle Speed Control) Actuator	Idle Speed Control Actuator	ISC Actuator
ISC (Idle Speed Control) Solenoid Vacuum Valve	Idle Speed Control Solenoid Vacuum Valve	ISC Solenoid Vacuum Valve
ISC BPA (Idle Speed Control Bypass Air)	Idle Air Control	IAC
ISS (Input Shaft Speed)	Input Shaft Speed	ISS
K-Jetronic	Continuous Fuel Injection	CFI
KAM (Keep Alive Memory)	Nonvolatile Random Access Memory	NVRAM
KAM (Keep Alive Memory)	Keep Alive Random Access Memory	Keep Alive RAM
KE-Jetronic	Continuous Fuel Injection	CFI
KE-Motronic	Continuous Fuel Injection	CFI
Knock Sensor	Knock Sensor	KS
KS (Knock Sensor)	Knock Sensor	KS
L-Jetronic	Multiport Fuel Injection	MFI
Lambda	Oxygen Sensor	O2S
LH-Jetronic	Multiport Fuel Injection	MFI
Light Off Catalyst	Warm Up Three Way Catalytic Converter	WU-TWC
Light Off Catalyst	Warm Up Three Way Catalytic Converter	WU-OC
Line Pressure Control Solenoid Valve	Line Pressure Control Solenoid Valve	Line PC Solenoid Valve
LOAD (Calculated Load Value)	Calculated Load Value	LOAD
Lock Up Relay	Torque Converter Clutch Relay	TCC Relay
LONG FT (Long Term Fuel Trim)	Long Term Fuel Trim	See Table 4
Long Term FT (Fuel Trim)	Long Term Fuel Trim	Long Term FT
Long Term Fuel Trim	Long Term Fuel Trim	Long Term FT
Low Speed FC (Fan Control) Switch	Low Speed Fan Control Switch	Low Speed FC Switch
LUS (Lock Up Solenoid) Valve	Torque Converter Clutch Solenoid Valve	TCC Solenoid Valve
M/C (Mixture Control)	Mixture Control	MC
MAF (Mass Airflow)	Mass Airflow	MAF
MAF (Mass Airflow) Sensor	Mass Airflow Sensor	MAF Sensor
Malfunction Indicator Lamp	Malfunction Indicator Lamp	MIL
Manifold Absolute Pressure	Manifold Absolute Pressure	MAP
Manifold Absolute Pressure and Temperature	Manifold Absolute Pressure and Temperature	MAPT
Manifold Absolute Pressure Sensor	Manifold Absolute Pressure Sensor	MAP Sensor
Manifold Differential Pressure	Manifold Differential Pressure	MDP
Manifold Surface Temperature	Manifold Surface Temperature	MST
Manifold Vacuum Zone	Manifold Vacuum Zone	MVZ

TABLE 1—CROSS-REFERENCE AND LOOK-UP[1][2] (continued)

EXISTING USAGE	ACCEPTABLE USAGE	ACCEPTABLE ACRONIZED USAGE
Manual Lever Position Sensor	Transmission Range Sensor	TR Sensor
Manual/Transaxle	Manual/Transaxle	M/T
Manual/Transmission	Manual/Transmission	M/T
Manual Transaxle	Manual Transaxle	M/T
Manual Transmission	Manual Transmission	M/T
M/T (Manual/Transaxle)	Manual Transaxle	M/T
M/T (Manual/Transmission)	Manual Transmission	M/T
MAP (Manifold Absolute Pressure)	Manifold Absolute Pressure	MAP
MAP (Manifold Absolute Pressure) Sensor	Manifold Absolute Pressure Sensor	MAP Sensor
MAPS (Manifold Absolute Pressure Sensor)	Manifold Absolute Pressure Sensor	MAP Sensor
MAPT (Manifold Absolute Pressure and Temperature)	Manifold Absolute Pressure and Temperature	MAPT
Mass Airflow	Mass Airflow	MAF
Mass Airflow Sensor	Mass Airflow Sensor	MAF Sensor
MAT (Manifold Air Temperature)	Intake Air Temperature	IAT
MATS (Manifold Air Temperature Sensor)	Intake Air Temperature Sensor	IAT Sensor
MC (Mixture Control)	Mixture Control	MC
MCS (Mixture Control Solenoid)	Mixture Control Solenoid	MC Solenoid
MCU (Microprocessor Control Unit)	Powertrain Control Module	PCM
MDP (Manifold Differential Pressure)	Manifold Differential Pressure	MDP
MFI (Multiport Fuel Injection)	Multiport Fuel Injection	MFI
MIL (Malfunction Indicator Lamp)	Malfunction Indicator Lamp	MIL
Mixture Control	Mixture Control	MC
MLPS (Manual Lever Position Sensor)	Transmission Range Sensor	TR Sensor
Modes	Diagnostic Test Mode	DTM
Mono-Jetronic	Throttle Body Fuel Injection	TBI
Mono-Motronic	Throttle Body Fuel Injection	TBI
Monotronic	Throttle Body Fuel Injection	TBI
Motronic	Multiport Fuel Injection	MFI
Motronic-Pressure	Multiport Fuel Injection	MFI
MPI (Multipoint Injection)	Multiport Fuel Injection	MFI
MPI (Multiport Injection)	Multiport Fuel Injection	MFI
MRPS (Manual Range Position Switch)	Transmission Range Switch	TR Switch
MST (Manifold Surface Temperature)	Manifold Surface Temperature	MST
Multiport Fuel Injection	Multiport Fuel Injection	MFI
MVZ (Manifold Vacuum Zone)	Manifold Vacuum Zone	MVZ
NDS (Neutral Drive Switch)	Park/Neutral Position Switch	PNP Switch
Neutral Safety Switch	Park/Neutral Position Switch	PNP Switch
NGS (Neutral Gear Switch)	Park/Neutral Position Switch	PNP Switch
Nitrogen Oxides	Nitrogen Oxides	NOX
Non Dispersive Infrared	Non Dispersive Infrared	NDIR
Non Volatile Random Access Memory	Non Volatile Random Access Memory	NVRAM
NOX (Nitrogen Oxides)	Nitrogen Oxides	NOX
NPS (Neutral Position Switch)	Park/Neutral Position Switch	PNP Switch
NVM (Non Volatile Memory)	Non Volatile Random Access Memory	NVRAM
NVRAM (Non Volatile Random Access Memory)	Non Volatile Random Access Memory	NVRAM
O2 (Oxygen)	Oxygen	O2
O2 (Oxygen) Sensor	Oxygen Sensor	O2S
O2S (Oxygen Sensor)	Oxygen Sensor	O2S
OBD (On Board Diagnostic)	On Board Diagnostic	OBD
OBD (On Board Diagnostic) STAT	On Board Diagnostic Status	See Table 4
OBD (On Board Diagnostic) Status	On Board Diagnostic Status	See Table 4
OC (Oxidation Catalyst)	Oxidation Catalytic Converter	OC
ODS (Overdrive Drum Speed)	Overdrive Drum Speed	ODS
ODS (Overdrive Drum Speed) Sensor	Overdrive Drum Speed Sensor	ODS Sensor
Oil Pressure Sender	Engine Oil Pressure Sensor	EOP Sensor
Oil Pressure Sensor	Engine Oil Pressure Sensor	EOP Sensor

TABLE 1—CROSS-REFERENCE AND LOOK-Up[1][2] (continued)

EXISTING USAGE	ACCEPTABLE USAGE	ACCEPTABLE ACRONIZED USAGE
Oil Pressure Switch	Engine Oil Pressure Switch	EOP Switch
OL (Open Loop)	Open Loop	OL
On Board Diagnostic	On Board Diagnostic	OBD
On-Board Refueling Vapor Recovery	On-Board Refueling Vapor Recovery	ORVR
Open Loop	Open Loop	OL
ORVR (On-Board Refueling Vapor Recovery)	On-Board Refueling Vapor Recovery	ORVR
OS (Oxygen Sensor)	Oxygen Sensor	O2S
OSS (Output Shaft Speed) Sensor	Output Shaft Speed Sensor	OSS Sensor
Output Driver	Driver	Driver
Overdrive Drum Speed	Overdrive Drum Speed	ODS
Overdrive Drum Speed Sensor	Overdrive Drum Speed Sensor	ODS Sensor
Output Shaft Speed	Output Shaft Speed	OSS
Output Shaft Speed Sensor	Output Shaft Speed Sensor	OSS Sensor
Oxidation Catalytic Converter	Oxidation Catalytic Converter	OC
OXS (Oxygen Sensor) Indicator	Service Reminder Indicator	SRI
Oxygen	Oxygen	O2
Oxygen Sensor	Oxygen Sensor	O2S
Oxygen Sensor Location	Oxygen Sensor Location	See Table 4
P- (Pressure) Sensor	Manifold Absolute Pressure Sensor	MAP Sensor
P/N (Park/Neutral)	Park/Neutral Position	PNP
P/S (Power Steering) Pressure Switch	Power Steering Pressure Switch	PSP Switch
PAIR (Pulsed Secondary Air Injection)	Pulsed Secondary Air Injection	PAIR
Parameter Identification	Parameter Identification	PID
Parameter Identification Supported	Parameter Identification Supported	See Table 4
Park/Neutral Position	Park/Neutral Position	PNP
PC (Pressure Control) Solenoid Valve	Pressure Control Solenoid Valve	PC Solenoid Valve
PCM (Powertrain Control Module)	Powertrain Control Module	PCM
PCV (Positive Crankcase Ventilation)	Positive Crankcase Ventilation	PCV
PCV (Positive Crankcase Ventilation) Valve	Positive Crankcase Ventilation Valve	PCV Valve
Percent Alcohol Sensor	Flexible Fuel Sensor	FF Sensor
Periodic Trap Oxidizer	Periodic Trap Oxidizer	PTOX
PFE (Pressure Feedback Exhaust) Gas Recirculation Sensor	Feedback Pressure Exhaust Gas Recirculation Sensor	Feedback Pressure EGR Sensor
PFI (Port Fuel Injection)	Multiport Fuel Injection	MFI
PG (Pulse Generator)	Vehicle Speed Sensor	VSS
PGM-FI (Programmed Fuel Injection)	Multiport Fuel Injection	MFI
PID (Parameter Identification)	Parameter Identification	PID
PID SUP (Parameter Identification Supported)	Parameter Identification Supported	See Table 4
PIP (Position Indicator Pulse)	Crankshaft Position	CKP
PNP (Park/Neutral Position)	Park/Neutral Position	PNP
Positive Crankcase Ventilation	Positive Crankcase Ventilation	PCV
Positive Crankcase Ventilation Valve	Positive Crankcase Ventilation Valve	PCV Valve
Power Steering Control	Power Steering Control	PSC
Power Steering Control Module	Power Steering Control Module	PSC Module
Power Steering Pressure	Power Steering Pressure	PSP
Power Steering Pressure Switch	Power Steering Pressure Switch	PSP Switch
Power Takeoff	Power Takeoff	PTO
Powertrain Control Module	Powertrain Control Module	PCM
PR (Pressure Relief)	Pressure Relief	PR
PR (Pressure Relief) Valve	Pressure Relief Valve	PR Valve
Pressure Control Solenoid Valve	Pressure Control Solenoid Valve	PC Solenoid Valve
Pressure Feedback EGR (Exhaust Gas Recirculation)	Feedback Pressure Exhaust Gas Recirculation	Feedback Pressure EGR
Pressure Relief	Pressure Relief	PR
Pressure Relief Valve	Pressure Relief Valve	PR Valve
Pressure Sensor	Manifold Absolute Pressure Sensor	MAP Sensor

TABLE 1—CROSS-REFERENCE AND LOOK-UP[1][2] (continued)

EXISTING USAGE	ACCEPTABLE USAGE	ACCEPTABLE ACRONIZED USAGE
Pressure Feedback EGR (Exhaust Gas Recirculation) System	Feedback Pressure Exhaust Gas Recirculation System	Feedback Pressure EGR System
Pressure Transducer EGR (Exhaust Gas Recirculation) System	Pressure Transducer Exhaust Gas Recirculation System	Pressure Transducer EGR System
PRNDL (Park- Reverse- Neutral- Drive- Low)	Transmission Range	TR
Programmable Read Only Memory	Programmable Read Only Memory	PROM
PROM (Programmable Read Only Memory)	Programmable Read Only Memory	PROM
PSC (Power Steering Control)	Power Steering Control	PSC
PSC (Power Steering Control) Module	Power Steering Control Module	PSC Module
PSP (Power Steering Pressure)	Power Steering Pressure	PSP
PSP (Power Steering Pressure) Switch	Power Steering Pressure Switch	PSP Switch
PSPS (Power Steering Pressure Switch)	Power Steering Pressure Switch	PSP Switch
PTO (Power Takeoff)	Power Takeoff	PTO
PTOX (Periodic Trap Oxidizer)	Periodic Trap Oxidizer	PTOX
Pulsair	Pulsed Secondary Air Injection	PAIR
Pulse Width Modulation	Pulse Width Modulation	PWM
Pulsed Secondary Air Injection	Pulsed Secondary Air Injection	PAIR
PWM (Pulse Width Modulation)	Pulse Width Modulation	PWM
QDM (Quad Driver Module)	Driver	Driver
Quad Driver Module	Driver	Driver
Radiator Fan Control	Fan Control	FC
Radiator Fan Relay	Fan Control Relay	FC Relay
RAM (Random Access Memory)	Random Access Memory	RAM
Random Access Memory	Random Access Memory	RAM
Read Only Memory	Read Only Memory	ROM
Rear Wheel Drive	Rear Wheel Drive	RWD
Recirculated Exhaust Gas Temperature Sensor	Exhaust Gas Recirculation Temperature Sensor	EGRT Sensor
Reed Valve	Pulsed Secondary Air Injection Valve	PAIR Valve
REGTS (Recirculated Exhaust Gas Temperature Sensor)	Exhaust Gas Recirculation Temperature Sensor	EGRT Sensor
Relay Module	Relay Module	RM
Remote Mount TFI (Thick Film Ignition)	Distributor Ignition	DI
Revolutions per Minute	Engine Speed	RPM
RM (Relay Module)	Relay Module	RM
ROM (Read Only Memory)	Read Only Memory	ROM
RPM (Revolutions per Minute)	Engine Speed	RPM
RWD (Rear Wheel Drive)	Rear Wheel Drive	RWD
S4WD (Selectable Four Wheel Drive)	Selectable Four Wheel Drive	S4WD
SABV (Secondary Air Bypass Valve)	Secondary Air Injection Bypass Valve	AIR Bypass Valve
SACV (Secondary Air Check Valve)	Secondary Air Injection Check Valve	AIR Check Valve
SASV (Secondary Air Switching Valve)	Secondary Air Injection Switching Valve	AIR Switching Valve
SBEC (Single Board Engine Control)	Powertrain Control Module	PCM
SBS (Supercharger Bypass Solenoid)	Supercharger Bypass Solenoid	SCB Solenoid
SC (Supercharger)	Supercharger	SC
Scan Tool	Scan Tool	ST
SCB (Supercharger Bypass)	Supercharger Bypass	SCB
Secondary Air Bypass Valve	Secondary Air Injection Bypass Valve	AIR Bypass Valve
Secondary Air Check Valve	Secondary Air Injection Check Valve	AIR Check Valve
Secondary Air Injection	Secondary Air Injection	AIR
Secondary Air Injection Bypass	Secondary Air Injection Bypass	AIR Bypass
Secondary Air Injection Bypass Valve	Secondary Air Injection Bypass Valve	AIR Bypass Valve
Secondary Air Injection Diverter	Secondary Air Injection Diverter	AIR Diverter
Secondary Air Injection Shutoff Valve	Secondary Air Injection Shutoff Valve	AIR Shutoff Valve
Secondary Air Switching Valve	Secondary Air Injection Switching Valve	AIR Switching Valve
Secondary Air Injection Switching Valve	Secondary Air Injection Switching Valve	AIR Switching Valve
SEFI (Sequential Electronic Fuel Injection)	Sequential Multiport Fuel Injection	SFI
Selectable Four Wheel Drive	Automatic 4 Wheel Drive	A4WD

TABLE 1—CROSS-REFERENCE AND LOOK-Up[1][2] (continued)

EXISTING USAGE	ACCEPTABLE USAGE	ACCEPTABLE ACRONIZED USAGE
Selectable Four Wheel Drive	Selectable Four Wheel Drive	S4WD
Self Test	On Board Diagnostic	OBD
Self Test Codes	Diagnostic Trouble Code	DTC
Self Test Connector	Data Link Connector	DLC
Semi-Automatic Temperature Control	Climate Control	CC
Sequential Multiport Fuel Injection	Sequential Multiport Fuel Injection	SFI
Service Engine Soon	Service Reminder Indicator	SRI
Service Engine Soon	Malfunction Indicator Lamp	MIL
Service Reminder Indicator	Service Reminder Indicator	SRI
SFI (Sequential Fuel Injection)	Sequential Multiport Fuel Injection	SFI
Shift Solenoid	Shift Solenoid	SS
Shift Solenoid Valve	Shift Solenoid Valve	SS Valve
Short Term FT (Fuel Trim)	Short Term Fuel Trim	Short Term FT
Short Term Fuel Trim	Short Term Fuel Trim	Short Term FT
SHRT FT (Short Term Fuel Trim)	Short Term Fuel Trim	See Table 4
SLP (Selection Lever Position)	Transmission Range	TR
SMEC (Single Module Engine Control)	Powertrain Control Module	PCM
Smoke Puff Limiter	Smoke Puff Limiter	SPL
SPARK ADV (Spark Advance)	Spark Advance	See Table 4
Spark Advance	Spark Advance	See Table 4
Spark Plug	Spark Plug	Spark Plug
SPI (Single Point Injection)	Throttle Body Fuel Injection	TBI
SPL (Smoke Puff Limiter)	Smoke Puff Limiter	SPL
SRI (Service Reminder Indicator)	Service Reminder Indicator	SRI
SRT (System Readiness Test)	System Readiness Test	SRT
SS (Shift Solenoid)	Shift Solenoid	SS
ST (Scan Tool)	Scan Tool	ST
Supercharger	Supercharger	SC
Supercharger Bypass	Supercharger Bypass	SCB
Sync Pickup	Camshaft Position	CMP
System Readiness Test	System Readiness Test	SRT
TAB (Thermactor Air Bypass)	Secondary Air Injection Bypass	AIR Bypass
TAC (Throttle Actuator Control)	Throttle Actuator Control	TAC
TAC (Throttle Actuator Control) Module	Throttle Actuator Control Module	TAC Module
TAD (Thermactor Air Diverter)	Secondary Air Injection Diverter	AIR Diverter
TB (Throttle Body)	Throttle Body	TB
TBI (Throttle Body Fuel Injection)	Throttle Body Fuel Injection	TBI
TBT (Throttle Body Temperature)	Intake Air Temperature	IAT
TC (Turbocharger)	Turbocharger	TC
TC (Turbocharger) Wastegate	Turbocharger Wastegate	TC Wastegate
TC (Turbocharger) Wastegate Regulating Valve	Turbocharger Wastegate Regulating Valve	TC Wastegate Regulating Valve
TCC (Torque Converter Clutch)	Torque Converter Clutch	TCC
TCC (Torque Converter Clutch) Relay	Torque Converter Clutch Relay	TCC Relay
TCC (Torque Converter Clutch) Solenoid	Torque Converter Clutch Solenoid	TCC Solenoid
TCC (Torque Converter Clutch) Solenoid Valve	Torque Converter Clutch Solenoid Valve	TCC Solenoid Valve
TCCP (Torque Converter Clutch Pressure)	Torque Converter Clutch Pressure	TCCP
TCM (Transmission Control Module)	Transmission Control Module	TCM
TE (Thermal Expansion)	Thermal Expansion	TE
TE (Thermal Expansion) Valve	Thermal Expansion Valve	TE Valve
TFI (Thick Film Ignition)	Distributor Ignition	DI
TFI (Thick Film Ignition) Module	Ignition Control Module	ICM
TFP (Transmission Fluid Pressure)	Transmission Fluid Pressure	TFP
TFT (Transmission Fluid Temperature) Sensor	Transmission Fluid Temperature Sensor	TFT Sensor
Temperature and Manifold Absolute Pressure	Manifold Absolute Pressure and Temperature	MAPT
Thermac	Secondary Air Injection	AIR

TABLE 1.—CROSS-REFERENCE AND LOOK-Up[1][2] (continued)

EXISTING USAGE	ACCEPTABLE USAGE	ACCEPTABLE ACRONIZED USAGE
Thermac Air Cleaner	Air Cleaner	ACL
Thermactor	Secondary Air Injection	AIR
Thermactor Air Bypass	Secondary Air Injection Bypass	AIR Bypass
Thermactor Air Diverter	Secondary Air Injection Diverter	AIR Diverter
Thermactor II	Pulsed Secondary Air Injection	PAIR
Thermal Expansion	Thermal Expansion	TE
Thermal Expansion Valve	Thermal Expansion Valve	TE Valve
Thermal Vacuum Switch	Thermal Vacuum Valve	TVV
Thermal Vacuum Valve	Thermal Vacuum Valve	TVV
Third Gear	Third Gear	3GR
Three Way + Oxidation Catalytic Converter	Three Way + Oxidation Catalytic Converter	TWC+OC
Three Way Catalytic Converter	Three Way Catalytic Converter	TWC
Throttle Actuator	Throttle Actuator	Throttle Actuator
Throttle Actuator Control	Throttle Actuator Control	TAC
Throttle Actuator Control Module	Throttle Actuator Control Module	TAC Module
Throttle Body	Throttle Body	TB
Throttle Body Fuel Injection	Throttle Body Fuel Injection	TBI
Throttle Opener	Idle Speed Control	ISC
Throttle Opener Vacuum Switching Valve	Idle Speed Control Solenoid Vacuum Valve	ISC Solenoid Vacuum Valve
Throttle Opener VSV (Vacuum Switching Valve)	Idle Speed Control Solenoid Vacuum Valve	ISC Solenoid Vacuum Valve
Throttle Position	Throttle Position	TP
Throttle Position Sensor	Throttle Position Sensor	TP Sensor
Throttle Position Switch	Throttle Position Switch	TP Switch
Throttle Potentiometer	Throttle Position Sensor	TP Sensor
TMAP (Temperature and Manifold Absolute Pressure)	Manifold Absolute Pressure and Temperature	MAPT
TOC (Trap Oxidizer - Continuous)	Continuous Trap Oxidizer	CTOX
TOP (Trap Oxidizer - Periodic)	Periodic Trap Oxidizer	PTOX
Torque Converter Clutch	Torque Converter Clutch	TCC
Torque Converter Clutch Pressure	Torque Converter Clutch Pressure	TCCP
Torque Converter Clutch Relay	Torque Converter Clutch Relay	TCC Relay
Torque Converter Clutch Solenoid	Torque Converter Clutch Solenoid	TCC Solenoid
Torque Converter Clutch Solenoid Valve	Torque Converter Clutch Solenoid Valve	TCC Solenoid Valve
TP (Throttle Position)	Throttle Position	TP
TP (Throttle Position) Sensor	Throttle Position Sensor	TP Sensor
TP (Throttle Position) Switch	Throttle Position Switch	TP Switch
TPI (Tuned Port Injection)	Multiport Fuel Injection	MFI
TPNP (Transmission Park Neutral Position)	Park/Neutral Position	PNP
TPS (Throttle Position Sensor)	Throttle Position Sensor	TP Sensor
TPS (Throttle Position Switch)	Throttle Position Switch	TP Switch
TR (Transmission Range)	Transmission Range	TR
Track Road Load Horsepower	Track Road Load Horsepower	TRLHP
Transmission Control Module	Transmission Control Module	TCM
Transmission Fluid Pressure	Transmission Fluid Pressure	TFP
Transmission Fluid Temperature Sensor	Transmission Fluid Temperature Sensor	TFT Sensor
Transmission Park Neutral Position	Park/Neutral Position	PNP
Transmission Position Switch	Transmission Range Switch	TR Switch
Transmission Range Selection	Transmission Range	TR
Transmission Range Sensor	Transmission Range Sensor	TR Sensor
TRLHP (Track Road Load Horsepower)	Track Road Load Horsepower	TRLHP
TRS (Transmission Range Selection)	Transmission Range	TR
TRSS (Transmission Range Selection Switch)	Transmission Range Switch	TR Switch
TSS (Turbine Shaft Speed) Sensor	Turbine Shaft Speed Sensor	TSS Sensor
Tuned Port Injection	Multiport Fuel Injection	MFI
Turbine Shaft Speed Sensor	Turbine Shaft Speed Sensor	TSS Sensor
Turbo (Turbocharger)	Turbocharger	TC

TABLE 1—CROSS-REFERENCE AND LOOK-Up[1][2] (continued)

EXISTING USAGE	ACCEPTABLE USAGE	ACCEPTABLE ACRONIZED USAGE
Turbocharger	Turbocharger	TC
Turbocharger Wastegate	Turbocharger Wastegate	TC Wastegate
Turbocharger Wastegate Regulating Valve	Turbocharger Wastegate Regulating Valve	TC Wastegate Regulating Valve
TVS (Thermal Vacuum Switch)	Thermal Vacuum Valve	TVV
TVV (Thermal Vacuum Valve)	Thermal Vacuum Valve	TVV
TWC (Three Way Catalytic Converter)	Three Way Catalytic Converter	TWC
TWC + OC (Three Way + Oxidation Catalytic Converter)	Three Way + Oxidation Catalytic Converter	TWC+OC
VAC (Vacuum) Sensor	Manifold Differential Pressure Sensor	MDP Sensor
Vacuum Switches	Manifold Vacuum Zone Switch	MVZ Switch
VAF (Volume Airflow)	Volume Airflow	VAF
Valve Position EGR (Exhaust Gas Recirculation) System	Valve Position Exhaust Gas Recirculation System	Valve Position EGR System
Vane Airflow	Volume Airflow	VAF
Variable Control Relay Module	Variable Control Relay Module	VCRM
Variable Fuel Sensor	Flexible Fuel Sensor	FF Sensor
VAT (Vane Air Temperature)	Intake Air Temperature	IAT
VCC (Viscous Converter Clutch)	Torque Converter Clutch	TCC
VCM (Vehicle Control Module)	Vehicle Control Module	VCM
VCRM (Variable Control Relay Module)	Variable Control Relay Module	VCRM
Vehicle Control Module	Vehicle Control Module	VCM
Vehicle Identification Number	Vehicle Identification Number	VIN
Vehicle Speed Sensor	Vehicle Speed Sensor	VSS
VIN (Vehicle Identification Number)	Vehicle Identification Number	VIN
VIP (Vehicle In Process) Connector	Data Link Connector	DLC
Viscous Converter Clutch	Torque Converter Clutch	TCC
Voltage Regulator	Voltage Regulator	VR
Volume Airflow	Volume Airflow	VAF
VR (Voltage Regulator)	Voltage Regulator	VR
VSS (Vehicle Speed Sensor)	Vehicle Speed Sensor	VSS
VSV (Vacuum Solenoid Valve) (Canister)	Evaporative Emission Canister Purge Valve	EVAP Canister Purge Valve
VSV (Vacuum Solenoid Valve) (EVAP)	Evaporative Emission Canister Purge Valve	EVAP Canister Purge Valve
VSV (Vacuum Solenoid Valve) (Throttle)	Idle Speed Control Solenoid Vacuum Valve	ISC Solenoid Vacuum Valve
Warm Up Oxidation Catalytic Converter	Warm Up Oxidation Catalytic Converter	WU-OC
Warm Up Three Way Catalytic Converter	Warm Up Three Way Catalytic Converter	WU-OC
Wide Open Throttle	Wide Open Throttle	WOT
WOT (Wide Open Throttle)	Wide Open Throttle	WOT
WOTS (Wide Open Throttle Switch)	Wide Open Throttle Switch	WOT Switch
WU-TWC (Warm Up Three Way Catalytic Converter)	Warm Up Three Way Catalytic Converter	WU-TWC
WU-OC (Warm Up Oxidation Catalytic Converter)	Warm Up Oxidation Catalytic Converter	WU-OC

1. Change bars to the left of the row indicates new/revised entry.
2. Underlining indicates as referenced in Table 2—Recommended Terms and Recommended Acronyms

6. Recommended Terms—Table 2 is an alphabetical listing of modifiers to be used in combination with base words.

TABLE 2—RECOMMENDED TERMS

RECOMMENDED TERM	ACRONYM	DEFINITION
3-2 Timing Solenoid	3-2TS	A device that controls the "third to second" timing valve.
Accelerator Pedal	AP[1]	SEE GLOSSARY ENTRY "ACCELERATOR PEDAL."
Accelerator Pedal Position	APP	SEE GLOSSARY ENTRY "ACCELERATOR PEDAL."
Adsorber	(2)	A system device which stores hydrocarbons upon engine startup then later releases them to be burned by the TWC down the line. Used only in conjunction with a standard TWC.
Air Cleaner	ACL	SEE GLOSSARY ENTRY "CLEANER."
Air Conditioning	A/C	SEE GLOSSARY ENTRY "AIR CONDITIONING."
Air Fuel Ratio	A/F	A proportion of air to fuel.
Ambient Air Temperature	AAT	Air temperature surrounding the vehicle.
Automatic 4 Wheel Drive	A4WD	Automatic engagement or disengagement of 4 wheel drive based on need.

TABLE 2—RECOMMENDED TERMS (continued)

RECOMMENDED TERM	ACRONYM	DEFINITION
Automatic Transaxle	A/T	SEE GLOSSARY ENTRY "TRANSAXLE."
Automatic Transmission	A/T	SEE GLOSSARY ENTRY "TRANSMISSION."
Barometric Pressure	BARO[1]	SEE GLOSSARY ENTRY "PRESSURE."
Battery Positive Voltage	B+[1]	SEE GLOSSARY ENTRY "BATTERY."
Blower Control	BC	SEE GLOSSARY ENTRIES "BLOWER" and "CONTROL."
Brake Pedal Position	BPP	SEE GLOSSARY ENTRY "BRAKE."
Brake Pressure	(2)	Positive pressure in the brake system.
Bus Negative	BUS N	The neutral side of a high current conductor.
Bus Positive	BUS P	The positive side of a high current conductor.
Calculated Load Value	LOAD	Percent of engine capacity being used.
Camshaft Position	CMP	SEE GLOSSARY ENTRY "CAMSHAFT."
Canister	(2)	SEE GLOSSARY ENTRY "CANISTER."
Carbon Dioxide	CO2	SEE GLOSSARY ENTRY "CARBON DIOXIDE."
Carbon Monoxide	CO	SEE GLOSSARY ENTRY "CARBON MONOXIDE."
Carburetor	CARB[1]	SEE GLOSSARY ENTRY "CARBURETOR."
Catalytic Converter Heater	(2)	A device to quickly heat a catalytic converter.
Charge Air Cooler	CAC[1]	A device which lowers the temperature of the pressurized intake air.
Climate Control	CC	SEE GLOSSARY ENTRIES "CLIMATE" and "CONTROL."
Closed Loop	CL	SEE GLOSSARY ENTRY "CLOSED LOOP."
Closed Throttle Position	CTP	SEE GLOSSARY ENTRY "THROTTLE."
Clutch Pedal Position	CPP	SEE GLOSSARY ENTRY "CLUTCH."
Coast Clutch Solenoid	CCS	A device that controls the coast clutch valve.
Constant Volume Sampler	CVS	An exhaust sampling system that provides a flow of a constant amount of ambient air diluted exhaust.
Continuous Fuel Injection	CFI	A fuel injection system with the injector flow controlled by fuel pressure.
Continuous Trap Oxidizer	CTOX	A system for lowering diesel engine particulate emissions by collecting exhaust particulates and continuously burning them through oxidation.
Continuously Variable Transaxle	CVT	An automatic transaxle that operates at an infinite number of gear ratios.
Continuously Variable Transmission	CVT	An automatic transmission that operates at an infinite number of gear ratios.
Crankshaft Position	CKP	SEE GLOSSARY ENTRY "CRANKSHAFT."
Critical Flow Venturi	CFV	An air flow regulating device which uses a sonic wave to limit air flow.
Data Link Connector	DLC[1]	Connector providing access and/or control of the vehicle information, operating conditions, and diagnostic information.
Diagnostic Test Mode	DTM	A level of diagnostic capability in an On Board Diagnostic (OBD) system. This may include different functional states to observe signals, a base level to read diagnostic trouble codes, a monitor level which includes information on signal levels, bi-directional control with on/off board aids, and the ability to interface with remote diagnosis.
Diagnostic Trouble Code	DTC	An alphanumeric identifier for a fault condition identified by the On Board Diagnostic System.
Direct Fuel Injection	DFI	Fuel injection system that supplies fuel directly into the combustion chamber.
Distributor Ignition	DI	A system in which the ignition coil secondary circuit is switched by a distributor in proper sequence to various spark plugs.
Drive Motor	DM	SEE GLOSSARY ENTRIES "DRIVE" and "MOTOR."
Drive Motor Control Module	DMCM	SEE GLOSSARY ENTRIES "DRIVE" and "MOTOR" and "MODULE."
Drive Motor Coolant Temperature	DMCT	SEE GLOSSARY ENTRIES "DRIVE" and "MOTOR" and "COOLANT."
Drive Motor Power Inverter	DMPI	SEE GLOSSARY ENTRIES "DRIVE", "MOTOR", and "INVERTER."
Driver	(2)	SEE GLOSSARY ENTRY "DRIVER."
Early Fuel Evaporation	EFE	Enhancing air/fuel vaporization during engine warm up.
Electrically Erasable Programmable Read Only Memory	EEPROM	An electronic device named electrically erasable programmable read only memory.
Electrically Heated Oxidation Catalyst	HOC	An oxidation catalyst which is designed to be quickly heated in order to reduce cold start emissions.
Electronic Ignition	EI	A system in which the ignition coil secondary circuit is dedicated to specific spark plugs without the use of a distributor.
Engine Control	EC	SEE GLOSSARY ENTRIES "ENGINE" and "CONTROL."
Engine Control Module	ECM[1]	SEE GLOSSARY ENTRIES "ENGINE," "CONTROL" and "MODULE."
Engine Coolant Level	ECL	SEE GLOSSARY ENTRIES "ENGINE," "COOLANT" and "LEVEL."
Engine Coolant Temperature	ECT	SEE GLOSSARY ENTRIES "ENGINE" and "COOLANT."
Engine Fuel Temperature	EFT	SEE GLOSSARY ENTRIES "ENGINE" and "FUEL."
Engine Modification	EM	A method of lowering engine emissions through changes in basic engine construction or in fuel and spark calibration.
Engine Oil Pressure	EOP	Positive pressure in the engine's lubrication system.
Engine Oil Temperature	EOT	Temperature of engine lubricating oil.
Engine Speed	RPM[1]	SEE GLOSSARY ENTRIES "ENGINE" and "SPEED."
Erasable Programmable Read Only Memory	EPROM	An electronic device named erasable programmable read only memory.
Evaporative Emission	EVAP[1]	A system used to prevent fuel vapor from escaping into the atmosphere. Typically includes a charcoal canister to store fuel vapors.
Exhaust Control	EXC	A technology to maximize engine torque at low RPM and to reduce engine exhaust noise.
Exhaust Gas Recirculation	EGR	Reducing NOx emissions levels by adding exhaust gas to the incoming fuel/air mixture.
Exhaust Gas Recirculation Temperature	EGRT	Sensing exhaust gas recirculation function based on temperature change. Primarily used in systems with mechanical flow control devices.

TABLE 2—RECOMMENDED TERMS (continued)

RECOMMENDED TERM	ACRONYM	DEFINITION
Exhaust Gas Temperature	EGT	Monitor/measure the high temperature of the exhaust gas/catalyst system.
Exhaust Pressure	EP	SEE GLOSSARY ENTRIES "EXHAUST" and "PRESSURE."
Exhaust Pressure Regulator	EPR	SEE GLOSSARY ENTRY "REGULATOR."
Exhaust Temperature	E/T	SEE GLOSSARY ENTRY "EXHAUST."
Four Wheel Drive	4WD	May or may not be driver selectable.
Fan Control	FC	SEE GLOSSARY ENTRIES "FAN" and "CONTROL."
Flame Ionization Detector	FID	A device used to measure hydrocarbon concentrations.
Flash Electrically Erasable Programmable Read Only Memory	FEEPROM	An electronic device named flash electrically erasable programmable read only memory.
Flash Erasable Programmable Read Only Memory	FEPROM	An electronic device named flash erasable programmable read only memory.
Flexible Fuel	FF	A system capable of using a variety of fuels for vehicle operation.
Fourth Gear	4GR(1)	Identifies the gear in which the transmission is operating in at a particular moment (e.g., the Transmission Range [TR] switch may indicate that "drive" was selected but the transmission is operating in 4th gear as indicated by the 4GR switch).
Freeze Frame	(2), (3)	A block of memory containing the vehicle operating conditions for a specific time.
Front Wheel Drive	FWD	A driveline configuration that transmits motive power only through the front axle.
Fuel Injector Control	FIC	SEE GLOSSARY ENTRIES "FUEL," "INJECTOR," AND "CONTROL."
Fuel Level Sensor	(2)	SEE GLOSSARY ENTRIES "FUEL" and "SENSOR."
Fuel Pressure	(2)	SEE GLOSSARY ENTRIES "FUEL" and "PRESSURE."
Fuel Pump	FP(1)	SEE GLOSSARY ENTRIES "FUEL" and "PUMP."
Fuel Rail Pressure	FRP	SEE GLOSSARY ENTRIES "FUEL," "RAIL" and "PRESSURE."
Fuel Rail Temperature	FRT	The temperature of fuel in the fuel rail.
Fuel System Status	(2), (3)	Information describing operation of the fuel control.
Fuel Tank Pressure	FTP	SEE GLOSSARY ENTRIES "FUEL," "TANK" and "PRESSURE."
Fuel Tank Temperature	FTT	The temperature of fuel in the fuel tank.
Fuel Trim	FT	A fuel correction term.
Full Time Four Wheel Drive	F4WD	A driveline configuration that transmits motive power to both axles. The system does not allow the driver to select between one axle and two operation.
Generator	GEN(1)	SEE GLOSSARY ENTRY "GENERATOR."
Glow Plug	(2)	SEE GLOSSARY ENTRY "GLOW PLUG."
Governor	(2)	SEE GLOSSARY ENTRY "GOVERNOR."
Governor Control Module	GCM(1)	SEE GLOSSARY ENTRIES "GOVERNOR," "CONTROL" and " MODULE."
Grams Per Mile	GPM	Grams of pollutant emitted per mile.
Ground	GND	SEE GLOSSARY ENTRY "GROUND."
Heated Oxygen Sensor	HO2S(1)	An oxygen sensor (02S) that is electrically heated.
Heated 3-Way Catalyst	HTWC	3-way catalyst which is designed to be quickly heated in order to reduce cold start emissions.
High Clutch Drum Speed	HCDS	The high clutch drum rotational speed.
High Pressure Cutoff	HPC	A method or device for limiting high pressure to a specified value.
Hydrocarbon	HC	SEE GLOSSARY ENTRY "HYDROCARBON."
Idle Air Control	IAC	Electrical or mechanical control of throttle bypass air.
Idle Speed Control	ISC	Electronic control of minimum throttle position.
Ignition Coil	(2)	A device which increases the voltage in an ignition circuit providing a spark to ignite a fuel/air mixture in an engine.
Ignition Control	IC	SEE GLOSSARY ENTRIES " IGNITION" and "CONTROL."
Ignition Control Module	ICM(1)	SEE GLOSSARY ENTRIES " IGNITION," "CONTROL" and "MODULE."
Indirect Fuel Injection	IFI	An injection system that supplies fuel into a combustion pre-chamber (Diesel).
Inertia Fuel Shutoff	IFS	An inertia system that shuts off the fuel delivery system when activated by predetermined force limits.
Injection Control Pressure	ICP	Injection control pressure for hydraulically actuated injectors.
Input Shaft Speed	ISS	SEE GLOSSARY ENTRIES "INPUT SHAFT" and "SPEED."
Intake Manifold Tuning	IMT	Controls air flow by changing the resonant frequency in the intake manifold.
Inspection and Maintenance	I/M(1)	An emission control program.
Intake Air	IA	SEE GLOSSARY ENTRY "INTAKE AIR."
Intake Air Temperature	IAT	SEE GLOSSARY ENTRY "INTAKE AIR."
Intake Manifold Runner Control	IMRC	Controls air flow through runners in the intake manifold.
Knock Sensor	KS(1)	SEE GLOSSARY ENTRIES "KNOCK" and "SENSOR."
Malfunction Indicator Lamp	MIL(1)	A required on board indicator to alert the driver of an emission-related malfunction.
Manifold Absolute Pressure	MAP	SEE GLOSSARY ENTRIES "MANIFOLD" and "PRESSURE."
Manifold Absolute Pressure and Temperature	MAPT	See glossary entry MANIFOLD, PRESSURE and TEMPERATURE.
Manifold Differential Pressure	MDP	SEE GLOSSARY ENTRIES "MANIFOLD" and "PRESSURE."
Manifold Surface Temperature	MST	SEE GLOSSARY ENTRY "MANIFOLD."
Manifold Vacuum Zone	MVZ	SEE GLOSSARY ENTRIES "MANIFOLD" and "VACUUM."
Manual Transaxle	M/T	SEE GLOSSARY ENTRY "TRANSAXLE."
Manual Transmission	M/T	SEE GLOSSARY ENTRY "TRANSMISSION."
Mass Airflow	MAF	A system which provides information on the mass flow rate of the intake air to the engine.

TABLE 2—RECOMMENDED TERMS (continued)

RECOMMENDED TERM	ACRONYM	DEFINITION
Mixture Control	MC	A device which regulates bleed air, fuel, or both, on carbureted vehicles.
Multiport Fuel Injection	MFI	A fuel-delivery system in which each cylinder is individually fueled.
Non Dispersive Infra Red	NDIR	An emission measuring technique typically used for measuring carbon monoxide and carbon dioxide concentrations.
Non-Volatile Random Access Memory	NVRAM	An electronic device named non-volatile random access memory.
Nitrogen Oxides	NOX	SEE GLOSSARY ENTRY "NITROGEN OXIDES".
On Board Diagnostic	OBD	A system that monitors some or all computer input and control signals. Signal(s) outside of the predetermined limits imply a fault in the system or in a related system.
On-Board Refueling Vapor Recovery	ORVR	A system incorporated into a vehicle fuel system designed to collect fuel vapors during refueling.
Open Loop	OL	SEE GLOSSARY ENTRY "OPEN LOOP."
Overdrive Drum Speed	ODS	The overdrive drum rotational speed.
Output Shaft Speed	OSS	SEE GLOSSARY ENTRY "OUTPUT SHAFT" and "SPEED."
Oxidation Catalytic Converter	OC	A catalytic converter system that reduces levels of HC and CO.
Oxygen	O2	SEE GLOSSARY ENTRY "OXYGEN."
Oxygen Sensor	O2S(1)	A sensor which detects oxygen (O2) content in the exhaust gases.
Park/Neutral Position	PNP	SEE GLOSSARY ENTRY "PARK/NEUTRAL."
Parameter Identification	PID	Identifies an address in memory which contains vehicle operating information.
Periodic Trap Oxidizer	PTOX	A system for lowering diesel engine particulate emissions by collecting exhaust particulates and periodically burning them through oxidation.
Positive Crankcase Ventilation	PCV	Positive ventilation of crankcase emissions.
Power Steering Pressure	PSP	SEE GLOSSARY ENTRY "POWER STEERING."
Power Steering Control	PSC	SEE GLOSSARY ENTRY "POWER STEERING" and "CONTROL."
Power Takeoff	PTO	A supplementary mechanism (as on a truck) enabling the engine power to be used to operate non-automotive apparatus (such as a pump).
Powertrain Control Module	PCM(1)	SEE GLOSSARY ENTRIES "POWERTRAIN" "CONTROL" and "MODULE."
Pressure Control	PC	SEE GLOSSARY ENTRIES "PRESSURE" and "CONTROL."
Pressure Relief	PR	Limits excess pressure in a controlled system.
Programmable Read Only Memory	PROM	An electronic device named programmable (by the manufacturer) read only memory.
Pulsed Secondary Air Injection	PAIR(1)	A pulse driven system for providing secondary air without an air pump by using the engine exhaust system pressure fluctuations or pulses.
Pulse Width Modulation	PWM	A rectangular wave with a variable on-off time.
Random Access Memory	RAM	An electronic device named random access memory.
Read Only Memory	ROM	An electronic device named read only memory.
Rear Wheel Drive	RWD	A driveline configuration that transmits motive power only through the rear axle.
Relay Module	RM(1)	SEE GLOSSARY ENTRIES "RELAY" and "MODULE."
Scan Tool	ST(1)	SEE GLOSSARY ENTRY "SCAN TOOL."
Secondary Air Injection	AIR(1)	A pump-driven system for providing secondary air.
Selectable Four Wheel Drive	S4WD	A driveline configuration that allows the driver to select the option to transmit motive power either to both axles or only to one axle (front or rear).
Sequential Multiport Fuel Injection	SFI	A multiport fuel delivery system in which each injector is individually energized and timed relative to its cylinder intake event. Normally fuel is delivered to each cylinder once per two crankshaft revolutions in four cycle engines and once per crankshaft revolution in two cycle engines.
Service Reminder Indicator	SRI(1)	An indicator used to identify a service requirement.
Shift Solenoid	SS	SEE GLOSSARY ENTRY "SHIFT SOLENOID."
Smoke Puff Limiter	SPL	A system to reduce diesel exhaust smoke during vehicle acceleration or gear changes.
Spark Advance	(2), (3)	The relationship between the ignition timing and top dead center.
Spark Plug	(2)	A device for producing an electrical spark inside the cylinder of an internal combustion engine to ignite the fuel mixture.
Supercharger	SC(1)	SEE GLOSSARY ENTRY "SUPERCHARGER."
Supercharger Bypass	SCB	SEE GLOSSARY ENTRY "SUPERCHARGER."
System Readiness Test	SRT	System readiness test as applicable to OBDII scan tool communications.
Thermal Expansion	TE	SEE GLOSSARY ENTRY "THERMAL EXPANSION."
Thermal Vacuum Valve	TVV(1)	A valve that controls vacuum levels or routing based on temperature.
Third Gear	3GR(1)	Identifies the gear in which the transmission is operating in at a particular moment (e.g., the Transmission Range [TR] switch may indicate that "drive" was selected, but the transmission is operating in 3rd gear as indicated by the 3GR switch).
Three Way + Oxidation Catalytic Converter	TWC+OC	A catalytic converter system that has both Three Way Catalyst (TWC) and Oxidation Catalyst (OC). Usually secondary air is introduced between the two catalysts.
Three Way Catalytic Converter	TWC	A catalytic converter system that reduces levels of HC, CO, and NOX.
Throttle Actuator	(2)	SEE GLOSSARY ENTRIES "THROTTLE" and "ACTUATOR."
Throttle Actuator Control	TAC	SEE GLOSSARY ENTRIES "THROTTLE," "ACTUATOR" and "CONTROL."
Throttle Body	TB(1)	SEE GLOSSARY ENTRIES "THROTTLE" and "BODY."
Throttle Body Fuel Injection	TBI	An electronically controlled fuel injection system in which one or more fuel injectors are located in a throttle body.
Throttle Position	TP	SEE GLOSSARY ENTRY "THROTTLE."
Torque Converter Clutch	TCC(1)	SEE GLOSSARY ENTRIES "CONVERTER" and "CLUTCH."
Torque Converter Clutch Pressure	TCCP	A positive pressure in a torque converter clutch hydraulic circuit.
Track Road Load Horsepower	TRLHP	The power required for a vehicle to maintain a constant speed taking into account power losses due to such things as wind resistance, tire losses, bearing friction, etc.

TABLE 2—RECOMMENDED TERMS (continued)

RECOMMENDED TERM	ACRONYM	DEFINITION
Transmission Control Module	TCM[1]	SEE GLOSSARY ENTRIES "TRANSMISSION," "CONTROL," and "MODULE."
Transmission Fluid Pressure	TFP	Positive pressure in a transmission hydraulic system.
Transmission Fluid Temperature	TFT	Temperature of transmission fluid.
Transmission Range	TR	SEE GLOSSARY ENTRIES "TRANSMISSION," and "RANGE."
Turbine Shaft Speed	TSS	SEE GLOSSARY ENTRIES "TURBINE SHAFT," and "SPEED."
Turbocharger	TC[1]	SEE GLOSSARY ENTRY "TURBOCHARGER."
Variable Control Relay Module	VCRM	A module that variably controls engine cooling fan speed, operates the A/C compressor clutch, and controls some of the non-A/C functions.
Vehicle Control Module	VCM[1]	An electronic module that controls the powertrain plus chassis and/or body related functions.
Vehicle Identification Number	VIN	A unique number on the vehicle used for identification.
Vehicle Speed Sensor	VSS[1]	A sensor which provides vehicle speed information.
Voltage Regulator	VR[1]	SEE GLOSSARY ENTRY "REGULATOR."
Volume Airflow	VAF	A system which provides information on the volume flow rate of the intake air to the engine.
Warm Up Oxidation Catalytic Converter	WU-OC	A catalytic converter system designed to lower HC and CO emissions during engine warm up. Usually located in or near the exhaust manifold.
Warm Up Three Way Catalytic Converter	WU-TWC	A catalytic converter system designed to lower HC, CO, & NOX emissions during engine warm up. Usually located in or near the exhaust manifold.
Wide Open Throttle	WOT	SEE GLOSSARY ENTRY "THROTTLE."

1. Historically acceptable common usage
2. Use recommended term only
3. For alphanumeric descriptor, see Table 4.

Change Bar to the left of the row indicates new/revised entry

7. Glossary of Terms—Table 3 is an alphabetical listing of base words and single word modifiers, together with their definitions.

TABLE 3—GLOSSARY OF TERMs[1]

BASE WORD/SINGLE WORD MODIFIER	DEFNITION
Accelerator Pedal	A foot operated device which, directly or indirectly, controls the flow of fuel and/or air to the engine, controlling engine speed.
Accumulator	A vessel in which liquid or gas is stored, usually at greater than atmospheric pressure.
Actuator	A mechanism for moving or controlling something indirectly instead of by hand. Compare: Solenoid, Relay, and Valve.
Air Conditioning	A vehicular accessory system that modifies the passenger compartment air by cooling and drying the air.
Alternator	See Generator.
Battery	An electrical storage device designed to produce a DC voltage by means of an electrochemical reaction.
Blower	A device designed to supply a current of air at a moderate pressure. A blower usually consists of an impeller assembly, a motor, and a suitable case. The blower case is usually designed as part of a ventilation system. Compare: Fan.
Brake	A device for retarding motion, usually by means of friction.
Body	(1) The assembly of components, windows, doors, seats, etc., that provide enclosures for passengers and/or cargo in a motor vehicle. It may or may not include the hood and fenders. (2) The primary, central, or key part of a feature.
Bypass	Providing a secondary path to relieve pressure in the primary passage.
Camshaft	A shaft on which phased cams are mounted. The camshaft is used to regulate the opening and closing of the intake and exhaust valves.
Canister	An evaporative emission canister contains activated charcoal which absorbs fuel vapors and holds them until the vapors can be purged at an appropriate time.
Capacitor	An electrical device for accumulating and holding a charge of electricity.
Carbon Dioxide	A heavy colorless gas that can be found as a product of complete combustion.
Carbon Monoxide	A colorless odorless gas that can be found as a product of incomplete combustion.
Carburetor	A mechanism which automatically mixes fuel with air in the proper proportions to provide a desired power output from a spark ignition internal combustion engine.
Catalyst	A substance that can increase or decrease the rate of a chemical reaction between substances without being consumed in the process.
Chassis	The suspension, steering, and braking elements of a vehicle.
Circuit	A complete electrical path or channel, usually includes the source of electric energy. Circuit may also describe the electrical path between two or more components. May also be used with fluids, air, or liquid.
Cleaner	A device used in the intake system of parts that require clean air. An air cleaner usually has a filter in it to trap particulates and only pass clean air through.
Climate	The temperature/ventilation in the passenger compartment.
Closed Loop (Engine)	An operating condition or mode which enables modification of programmed instructions based on a feedback system.
Clutch	A mechanical device which uses mechanical, magnetic, or friction type connections to facilitate engaging or disengaging of two shafts or rotating members.
Code	A system of symbols (as letters, numbers, or words) used to represent meaning of information.
Coil (Ignition)	A device consisting of windings of conductors around an iron core, designed to increase the voltage, and for use in a spark ignition system.
Control	A means or a device to direct and regulate a process or guide the operation of a machine, apparatus, or system.
Converter (Catalytic)	An in-line, exhaust system device used to reduce the level of engine exhaust emissions.
Converter (Torque)	A device which by its design multiplies the torque in a fluid coupling between an engine and transmission/transaxle.

TABLE 3—GLOSSARY OF TERMs[1] (continued)

BASE WORD/SINGLE WORD MODIFIER	DEFNITION
Coolant	A fluid used for heat transfer. Coolants usually contain additives such as rust inhibitors and antifreeze.
Cooler	A heat exchanger that reduces the temperature of the named medium.
Crankshaft	The part of an engine which converts the reciprocating motion of the pistons to rotary motion.
Data	General term for information, usually represented by numbers, letters, symbols.
Device	A piece of equipment or a mechanism designed for a specific purpose or function. DO NOT use "Device" as a Base Word.
Diagnostics	The process of identifying the cause or nature of a condition, situation, or problem. To determine corrective action in repair of automotive systems.
Differential	(1) A device with an arrangement of gears designed to permit the division of power to two shafts. (2) See Pressure.
Distributor	A mechanical device designed to switch a high voltage secondary circuit from an ignition coil to spark plugs in the proper firing sequence.
Drive	A device which provides a fixed increase or decrease ratio of relative rotation between its input and output shafts.
Driver	A switched electronic device that controls output state.
Electrical	A type of device or system using resistors, motors, generators, incandescent lamps, switches, capacitors, batteries, inductors, or wires. Compare: Electronic.
Electronic	(1) A type of device or system using solid state devices or thermionic elements such as diodes, transistors, integrated circuits, vacuum fluorescent displays, and liquid crystal displays. (2) The storage, retrieval, and display of information through media such as magnetic tape, laser disc, electronic read only memory (ROM), and random access memory (RAM). Compare: Electrical.
Engine	A machine designed to convert thermal energy into mechanical energy to produce force or motion.
Exhaust	Gaseous by-products of combustion emitted from an engine.
Fan	A device designed to supply a current of air. A fan may also have a frame, motor, wiring harness, and the like. Compare: Blower.
Fuel	Any combustible substance burned to provide heat or power. Typical fuels include gasoline and diesel fuel. Other types of fuel include ethanol, methanol, natural gas, propane, or in combination.
Generator	A rotating machine designed to convert mechanical energy into electrical energy.
Glow Plug	A combustion chamber heat generating device to aid starting diesel engines.
Governor	A device designed to automatically limit engine speed.
Ground	An electrical conductor used as a common return for an electric circuit(s) and with a relative zero potential.
Hydrocarbon	An organic compound containing various carbon and hydrogen molecules which occur in fuel.
Idle	Rotational speed of an engine with vehicle at rest and accelerator pedal not depressed.
Ignition	System used to provide high voltage spark for internal combustion engines.
Indicator	A device which visually presents vehicle condition information transmitted or relayed from some other source.
Injector	A device for delivering metered pressurized fuel to the intake system or the cylinders.
Input Shaft	A shaft in a device that is "driven" by the previous element in the powertrain.
Intake Air	Air drawn through a cleaner and distributed to each cylinder for use in combustion.
Inverter	A device which converts direct current to alternating current.
Knock (Engine)	The sharp, metallic sound produced when two pressure fronts collide in the combustion chamber of an engine.
Level	The magnitude of a quantity considered in relation to an arbitrary reference value.
Line	A generic service term used to describe a system of pipes, tubes, and hoses.
Link (Electrical/Electronic)	General term used to indicate the existence of communication facilities between two points.
Manifold	A device designed to collect or distribute fluid, air, or the like. Compare: Rail.
Memory	A device in which data can be stored and used when needed.
Mode	One of several alternative conditions or methods of operating a device or control module.
Module (Electrical/Electronic)	A self-contained group of electrical/electronic components, which is designed as a single replaceable unit.
Motor	A machine that converts kinetic energy, such as electricity, into mechanical energy. Compare: Actuator.
Nitrogen Oxides	Various combinations of nitrogen and oxygen atoms which can be a product of incomplete combustion.
Open Loop	An operating condition or mode based on programmed instructions and not modified by a feedback system.
Output Shaft	A shaft in a device that drives the next element in the powertrain.
Oxygen	A colorless, tasteless, odorless gas that supports combustion.
Park/Neutral	The selected non-drive modes of the transmission.
Power Steering	A system which provides additional force to the steering mechanism, reducing the driver's steering effort.
Powertrain	The elements of a vehicle by which motive power is generated and transmitted to the driven axles.
Pressure	Unless otherwise noted, is gage pressure.
Pressure (Absolute)	The pressure referenced to a perfect vacuum.
Pressure (Atmospheric)	The pressure of the surrounding air at any given temperature and altitude. Sometimes called barometric pressure.
Pressure (Barometric)	Pertaining to atmospheric pressure or the results obtained by using a barometer.
Pressure (Differential)	The pressure difference between two regions, such as between the intake manifold and the atmospheric pressures.
Pressure (Gage)	The amount by which the total absolute pressure exceeds the ambient atmospheric pressure.
Pump	A device used to raise, transfer, or compress fluids by suction, pressure, or both.
Radiator	A radiator is a liquid to air heat transfer device having a tank(s) and core(s) specifically designed to reduce the temperature of the coolant in an internal combustion engine cooling system.
Rail	A manifold for fuel injection fuel. Compare: Manifold
Range	The detent position of the transmission manual valve.
Refrigerant	A substance used as a heat transfer agent in an air conditioning system.

TABLE 3—GLOSSARY OF TERMs[1] (continued)

BASE WORD/SINGLE WORD MODIFIER	DEFNITION
Relay	A generally electromechanical device in which connections in one circuit are opened or closed by changes in another circuit. Compare: Actuator, Solenoid, and Switch.
Regulator (Mechanical)	A mechanism for controlling the flow or pressure of liquid, gases, steam, etc.
Regulator (Voltage)	A device that automatically controls the functional output of another device by adjusting the voltage to meet a specified value.
Scan Tool	A device that interfaces with and communicates information on a data link.
Secondary Air	Air provided to the exhaust system.
Sensor	The generic name for a device that senses either the absolute value or a change in a physical quantity such as temperature, pressure, rotation or flow rate, and converts that change into an electrical quantity signal. Compare: Transducer
Shift Solenoid	A device that controls shifting in an automatic transmission.
Signal (Electrical/Electronic)	A fluctuating electric quantity, such as voltage or current, whose variations represent information.
Solenoid	A device consisting of an electrical coil which when energized, produces a magnetic field in a plunger, which is pulled to a central position. A solenoid may be used as an actuator in a valve or switch. Compare: Actuator, Relay, and Switch.
Solid State	Crystalline circuit structures used to perform electronic functions. Examples of such structures include transistors, diodes, integrated circuits, and other semiconductors.
Speed	The magnitude of velocity (regardless of direction).
Supercharger	A mechanically driven device that pressurizes the intake air, thereby increasing the density of charge air and the consequent power output from a given engine displacement.
Switch	A device for making, breaking, or changing the connections in an electrical circuit. Compare: Relay, Solenoid, and Valve.
System	A group of interacting mechanical or electrical components serving a common purpose.
Tank	A storage device for liquid or gas.
Test	A procedure whereby the performance of a product is measured under various conditions.
Thermal Expansion	The expansion of a solid, liquid, or gas due to a change in temperature.
Throttle	A valve for regulating the supply of a fluid, usually air or a fuel/air mix, to an engine.
Transaxle	A device consisting of a transmission and axle drive gears assembled in the same case. Compare: Transmission.
Transducer	A device that receives energy from one system and retransmits (transfers) it, often in a different form, to another system. For example, the cruise control transducer converts a vehicle speed signal to a modulated vacuum output to control a servo. Compare: Sensor.
Transmission	A device which selectively increases or decreases the ratio of relative rotation between its input and output shafts. Compare: Transaxle.
Troubleshooting	See Diagnostics.
Turbine Shaft	A shaft in a device that is driven by a turbine.
Turbocharger	A centrifugal device driven by exhaust gases that pressurize the intake air, thereby increasing the density of charge air and the consequent power output from a given engine displacement.
Ultraviolet	The portion of the electromagnetic spectrum between violet visible light and x-rays.
Vacuum	A circuit in which pressure has been reduced below the ambient atmospheric pressure.
Valve	A device by which the flow of a liquid, gas, vacuum, or loose material in bulk may be started.
Vapor	A substance in its gaseous state as distinguished from the liquid or solid state.
Volatile	(1) Vaporized at normal temperatures. (2) Not permanent.
Wastegate	A valve to limit charge air pressure by allowing exhaust gases to bypass the turbocharger
Wheel	A circular frame of hard material that may be solid, partially solid, or spoked and capable of turning on an axle.

1. Change bar to the left ot the row indicates new/revised entry

*8. **Alphanumeric Descriptor Table**—*Table 4 is an alphabetical listing of alphanumeric descriptors to be used when required due to limited display sizes.

TABLE 4—ALPHANUMERIC DESCRIPTOR TABLE

RECOMMENDED TERM	ACCEPTABLE ACRONIZED USAGE	ALPHANUMERIC DESCRIPTOR
Central Multiport Fuel Injection	Central MFI	CMFI
Diagnostic Trouble Code Freeze Frame	DTC Freeze Frame	DTC FRZF
Freeze Frame	Freeze Frame	FRZF
Fuel Pressure	Fuel Pressure	FUEL PRES
Fuel System Status	Fuel System Status	FUEL SYS
Long Term Fuel Trim	Long Term FT	LONG FT
OBD Status	OBD Status	OBD STAT
Oxygen Sensor Location	O2S Location	O2S LOC
Parameter Identification Supported	PID Supported	PID SUP
Short Term Fuel Trim bp	Short Term FT *bp*	SHRT FT *bp*
Spark Advance	Spark Advance	SPARK ADV

b = numeric indication of bank
p = numeric indication of position
Bold indicates new/revised entry

9. Revision Procedures—It will be appropriate to revise the published SAE J1930 on an ongoing basis. Requested revisions and updates will be controlled by the SAE Vehicle E/E Systems Diagnostics Standards Committee using the normal Recommended Practice Ballot process. This will ensure proper distribution of the changes.

As required by SAE standards, the SAE J1930 document will be formally updated and balloted at least once every five years. When warranted by the number of requested modifications, SAE J1930 will be updated as often as every three months.

Use Appendix A for submission of new information.

APPENDIX A
REQUEST FOR REVISION TO SAE J1930 ELECTRICAL/ELECTRONIC SYSTEMS DIAGNOSTIC TERMS, DEFINITIONS, ABREVIATIONS & ACRONYMS

To insure that your request is accepted for ballot and incorporation into J1930, please supply the following information consistent with the methodology of Section 4:

Please send completed form to: *SAE Task Force, 755 West Big Beaver Rd., Suite 1600, Troy, MI 48084-4093 USA.*

FAX # (248) 273-2494

PURPOSE or RATIONAL FOR REQUEST: _____

_____

_____

• SECTION 5.0 (Table 1.0)

EXISTING USAGE(S) _____ ***RECOMMENDED TERMS:*** _____

_____ _____

_____ _____

_____ _____

• SECTION 6.0 (Table 2.0)

RECOMMENDED TERMS:	**Add**	**Delete**	**Change**
Existing: _____	O	O	O
Suggested: _____			
ACRONYM/ABBREVIATIONS			
Existing: _____	O	O	O
Suggested: _____			
DEFINITION:			
Existing: _____	O	O	O
_____			
Suggested _____			
_____			

• SECTION 7.0 (Table 3.0)

GLOSSARY of TERMS _____

_____

_____

_____

• SECTION 8.0 (Table 4.0)

ALPHANUMERIC DESCRIPTOR DESIRED _____

REQUESTOR: *Phone:* *Fax:*

_____ _____

Signature ***Date***

ADDRESS: _____

_____

COMMITTEE USE ONLY

Recommended for ballot? YES ____ NO ____ Ballot Target Date _____

Comments: _____

_____

_____

J1930 Chairperson _____ Date: _____

FIGURE A1—REQUEST FOR REVISION FORM