MSD IGNITION

INSTALLATION INSTRUCTIONS

Cam Sync Generator
PN 8914
for Distributorless Waste Spark Ignition Systems

Parts Included:

1 - Cam Sync Generator, PN 8914 1 - Parts Bag

The Cam Sync Generator was designed primarily for Saturn applications with an MSD DIS-2 installed. It can also be used to produce a cam sync signal in other waste spark applications.

After installing an MSD DIS Ignition Control on some waste spark ignition systems, the ECM of the vehicle may not be able to receive a cam sync signal. The Cam Sync Generator will produce a cam sync signal after start up for the factory ECM. This is done by detecting a cylinder that is under compression through its signal wire which is wrapped around the designated spark plug wire. On Saturn applications, the number four spark plug wire is used for the cam sync.

WIRING	
RED	On/Off wire. Connect into the DIS Ignition small Red wire.
BLACK	Ground. Connect to the ECM ground chassis.
WHITE (2)	Connect these wires to the matching White wire (#1 trigger input) of the DIS-2 ignition.
BROWN/ WHITE	Cam Sync Output to the ECM. On Saturns, this connects to the "Cyl 4 Out" or cam sync wire which is generally the Brown/White wire coming out of the ignition module.
BROWN	Signal sensing wire. Loop around the designated spark plug wire. (For Saturn engines, this is the number four spark plug wire.)

LED

There is an LED on the side of the generator which signals three different conditions.

STATUS	CONDITION
ON	Indicates that a cam sync signal has been acquired and the generator is providing an output signal to the ECM.
OFF	If the LED is off while the engine is running, this means that the generator acquired the cam sync signal but has lost it. Since it already sensed the signal, it will continue providing a sync signal output until the engine is turned Off.
FLASHING	The LED will flash when it receives a trigger signal from the ignition but does not sense a cam sync signal. (Brown Wire disconnected or Broken)

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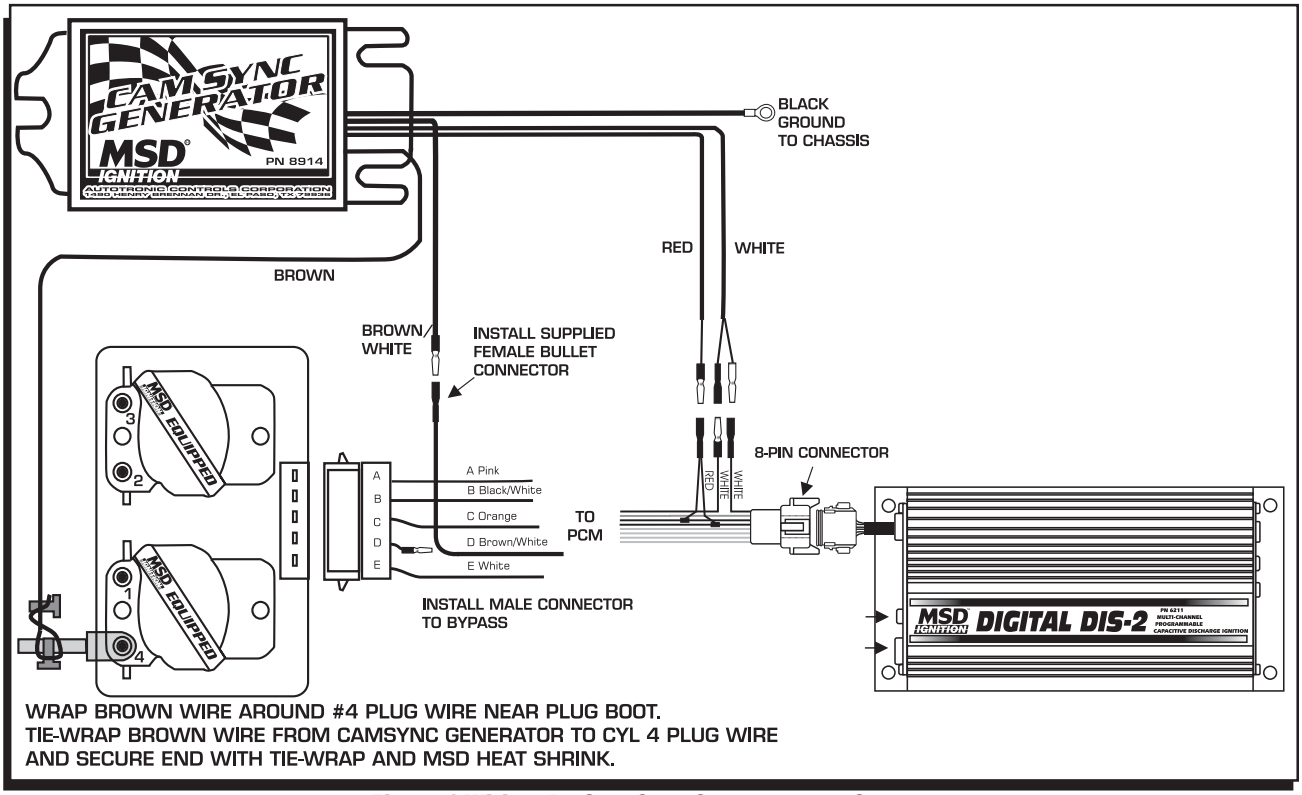

Figure 1 Wiring the Cam Sync Generator to a Saturn.

Service

In case of malfunction, this MSD component will be repaired free of charge according to the terms of the warranty. When returning MSD components for service, Proof of Purchase must be supplied for warranty verification. After the warranty period has expired, repair service is charged based on a minimum and maximum charge.

Send the unit prepaid with proof of purchase to the attention of: **Customer Service Department, Autotronic Controls Corporation, 12120 Esther Lama, Suite 114, El Paso, Texas 79936**.

When returning the unit for repair, leave all wires at the length in which you have them installed. Be sure to include a detailed account of any problems experienced, and what components and accessories are installed on the vehicle.

The repaired unit will be returned as soon as possible after receipt, COD for any charges. (Ground shipping is covered by warranty). All units are returned regular UPS unless otherwise noted. For more information, call the MSD Customer Service Line (915) 855-7123. MSD technicians are available from 8:00 a.m. to 5:00 p.m. Monday - Friday (Mountain Time).

Limited Warranty

Autotronic Controls Corporation warrants MSD Ignition products to be free from defects in material and workmanship under normal use and if properly installed for a period of one year from date of purchase. If found to be defective as mentioned above, it will be replaced or repaired if returned prepaid along with proof of date of purchase. This shall constitute the sole remedy of the purchaser and the sole liability of Autotronic Controls Corporation. To the extent permitted by law, the foregoing is exclusive and in lieu of all other warranties or representations whether expressed or implied, including any implied warranty of merchantability or fitness. In no event shall Autotronic Controls Corporation be liable for special or consequential damages.