

# Instruction Manual



## 30-3805-20 Core Harness System Crank/Cam Adapter Harness FAST Dual Sync Distributor 35"



### STOP!

**THIS PRODUCT HAS LEGAL RESTRICTIONS.**  
**READ THIS BEFORE INSTALLING/USING!**

**WARNING!** THIS IS A RACE ONLY PRODUCT MANUFACTURED AND SOLD FOR INSTALLATION ON VEHICLES DESIGNED TO BE USED SOLELY FOR COMPETITION PURPOSES. ONCE THIS PART IS INSTALLED, THE VEHICLE MAY NEVER BE USED, OR REGISTERED OR LICENSED FOR USE, ON A PUBLIC ROAD OR HIGHWAY. IF YOU INSTALL THIS PART ON YOUR VEHICLE AND USE THE VEHICLE ON A PUBLIC ROAD OR HIGHWAY, YOU WILL VIOLATE THE CLEAN AIR ACT AND MAY BE SUBJECT TO PERSONAL CIVIL OR CRIMINAL LIABILITY, INCLUDING FINES OF UP TO \$4,819 PER DAY.

IT IS THE RESPONSIBILITY OF THE INSTALLER AND/OR USER OF THIS PRODUCT TO ENSURE THAT IT IS USED IN COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. IF THIS PRODUCT WAS PURCHASED IN ERROR, DO NOT INSTALL AND/OR USE IT. THE PURCHASER MUST ARRANGE TO RETURN THE PRODUCT FOR A FULL REFUND.

THIS POLICY ONLY APPLIES TO INSTALLERS AND/OR USERS WHO ARE LOCATED IN THE UNITED STATES; HOWEVER CUSTOMERS WHO RESIDE IN OTHER COUNTRIES SHOULD ACT IN ACCORDANCE WITH THEIR LOCAL LAWS AND REGULATIONS.

### **WARNING!**

**Improper installation and/or adjustment of this product can result in major engine/vehicle damage. For technical assistance visit our dealer locator to find a professional installer/tuner near you.**

**Note: AEM holds no responsibility for any engine damage or personal injury that results from the misuse of this product, including but not limited to injury or death.**

AEM Performance Electronics  
AEM Performance Electronics, 2205 126th Street Unit A, Hawthorne, CA 90250  
Phone: (310) 484-2322 Fax: (310) 484-0152  
<http://www.aemelectronics.com>  
Instruction Part Number: 10-3805-20  
Document Build 1/26/2021

## Introduction

Some harness user manuals contain active hyperlinks that point to specific sections or even launch additional documents such as wiring diagrams. Recommend viewing this document electronically to take advantage of all features.

Several universal wiring harness options are available for Infinity products. They range in complexity from simple plug and pin kits to complete engine harness assemblies that include power distribution centers. Custom wiring harness projects should only be undertaken by experienced harness builders. If in doubt, please contact AEM for recommendations.

### **30-3805 Universal V8 harness system for Infinity Series 7**

The Infinity Universal V8 Harness system consists of a universal core harness and optional application specific extensions. It was designed with flexibility in mind. The harness system includes many features and it can be used in many different applications.

### **30-3809 Universal V8 harness system for Infinity Series 5**

The Infinity Universal V8 Harness system consists of a universal core harness and optional application specific extensions. It was designed with flexibility in mind. It includes throttle body and pedal interfaces for DBW applications. The harness system includes many features and it can be used in many different applications.

### **30-3705 Universal Mini Harness for Infinity Series 5**

This harness is intended to be used as a starting point by experienced harness builders. It saves time by including basic power distribution features that can be expanded to suit many application requirements. It allows the harness builder to populate the ECU connector with only the features needed by the application.

### **30-3706 Mini Flying Lead Harness for Infinity Series 5**

This harness is intended to be used as a starting point by experienced harness builders. It saves time by including flying leads that can be terminated by the harness builder at the sensor and actuator connectors.

### **30-3707 Mini Flying Lead Harness for Infinity Series 3**

This harness is intended to be used as a starting point by experienced harness builders. It saves time by including flying leads that can be terminated by the harness builder at the sensor and actuator connectors.

### **30-3702 Infinity Series 7 Mini-harness**

This harness is intended to be used as a starting point by experienced harness builders. It saves time by including basic power distribution features that can be expanded to suit many application requirements. It allows the harness builder to populate the ECU connector with only the features needed by the application. Includes 100 96" pre-terminated leads.

### **30-3703 Infinity Series 7 Mini-harness**

This harness is intended to be used as a starting point by experienced harness builders. It saves time by including basic power distribution features that can be expanded to suit many application requirements. It allows the harness builder to populate the ECU connector with only the features needed by the application.

### **30-3701 Infinity Series 7 Plug & Pin Kit**

Bare necessities to begin a custom wire harness design. Includes 73 and 56 pin Molex MX123 harness connectors, terminals and sealing plugs, main relay and relay socket.

### **30-3704 Infinity Series 5 Plug & Pin Kit**

Bare necessities to begin a custom wire harness design. Includes 80 pin Molex MX123 harness connector, terminals and sealing plugs, main relay and relay socket.

### **30-3708 Infinity Series 3 Plug & Pin Kit**

Bare necessities to begin a custom wire harness design. Includes 73 pin Molex MX123 harness connector, terminals and sealing plugs, main relay and relay socket.

*Please read the entire User Manual prior to beginning any installation.*

## Kit Contents

AEM P/N	Description	Qty
36-3805-20	Crank/Cam Extension, FAST Dual Sync 35"	1
10-3805-20	Instruction Sheet	1



## Harness Pinout

C1				DTM Plug, 12 Way
Pin	Wire Color	Gauge	Destination	Crank/Cam
			1	
1	White	22	C2-F	Crank Position Sensor (Hall Effect)
2	Black	22	C2-D	AGND_1 (Analog Sensor Ground)
3	Green	22	C2-C	Camshaft Position Sensor 1 (Hall Effect)
4	Red	22	F1	Fused +12V Relay Power

5				
6				
7				
8				
9				
10				
11	BLK	22	Shield	Shield Ground
12				

C2				Metri-Pack 150, 8 Way
Pin	Wire Color	Gauge	Destination	FAST Dual Sync Distributor
			1	
A				
B				
C	Green	22	C1-3	Camshaft Position Sensor 1 (Hall Effect)
D	Black	22	C1-2	AGND_1 (Analog Sensor Ground)
E				
F	White	22	C1-1	Crank Position Sensor (Hall Effect)
G				
H				

F1				Flying Lead
Pin	Wire Color	Gauge	Destination	+12V
			1	
1	Red	22	C1-4	Fused +12V Relay Power

**NOTE: The cable shield grounds are terminated at the ECU. Do not connect the shield grounds to anything on the vehicle. Doing so may introduce unwanted noise.**

## Harness Installation Tips