



# Non-Shielded Ignition Upgrade Kits with MIC3+ Ignition Controller

For CATERPILLAR® G3300 & G3400 Series Engines



**MOTORTECH System Upgrades**

reliable • efficient • worldwide

## ■ General Information

### Non-Shielded Ignition Upgrade Kits with MIC3+ Ignition Controller for CATERPILLAR® G3300 & G3400 Series Gas Engines

MOTORTECH's ignition control upgrades with MIC3+ series state-of-the-art ignition controllers are specially designed for a complete and simple conversion of CATERPILLAR® G3300 and G3400 gas engines. Prefabricated and prewired components make the conversion easier and reduce costs based on engine downtime. Don't go Low-Tech and take the risk of engine down time because of failing equipment and eliminate the need for constant exchange of parts or rewiring.

Upgrade your engine to the latest systems and increase reliability and efficiency.

#### These Kits contain:

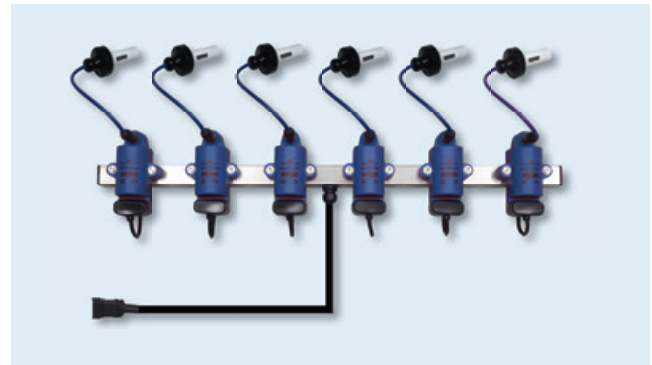
- MIC3+ series electronic ignition controller with high energy output
- Wiring rails with high energy ignition coils
- Input and output harness assemblies
- Spark plug leads
- Mechanical conversion kit for triggering

#### Benefits

- More powerful and reliable MIC3+ ignition controller
- Enables optimized starting behaviour and engine performance
- Kits include all necessary components for a quick and successful upgrade
- Prefabricated components guarantee easy installation
- High quality materials and design last longer
- Upgrade kits can be extended with detonation or temperature control individually



*MIC3+ series ignition controller*



*AlphaRail wiring rails and spark plug leads*



*Trigger conversion kit, pickup and magneto flange cover (G3304/06 and G3406)*

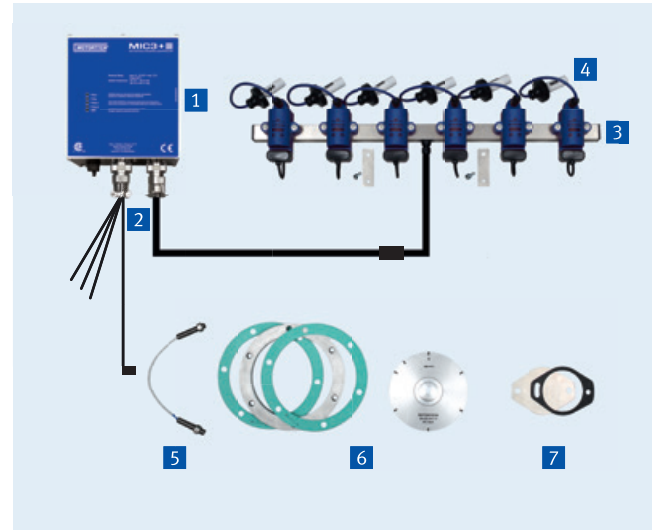
**The Century of Ignition Magnetos is Over.  
Move Forward to the Latest Generation of High Energy Ignition!**

## ■ Ordering Information

### Ignition Upgrade Kit for In-line Engines CATERPILLAR® G3304/ G3306/ G3406

#### Kit contains:

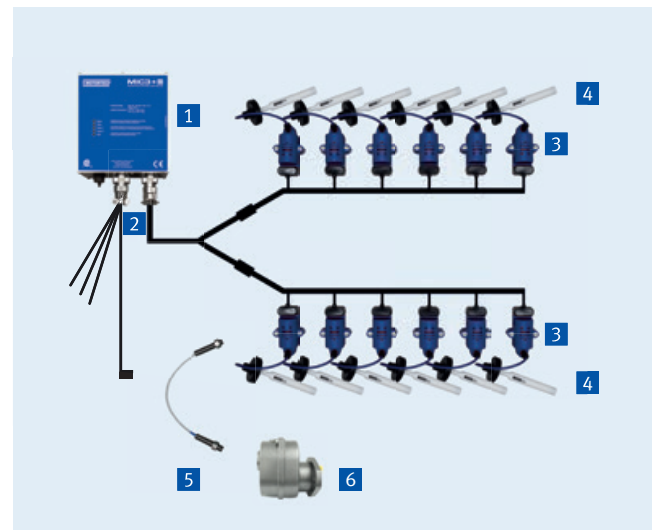
- MIC3+ series ignition controller 1
- Input and output harnesses 2
- AlphaRail wiring rail with high energy ignition coils and brackets 3
- Spark plug leads 4
- Inductive pickup 5
- Mechanical trigger conversion kit with trigger disc, spacer, gaskets 6
- Magneto drive cover kit 7



### Ignition Upgrade Kit for V-Engines CATERPILLAR® G3408/ G3412

#### Kit contains:

- MIC3+ series ignition controller 1
- Input and output harnesses 2
- High energy ignition coils 3
- PolyMot spark plug leads 4
- Inductive pickup 5
- TriDev trigger device to replace ALTRONIC III magneto 6



#### Ordering Information

P/N	Description	CATERPILLAR® Model
75.00.536	Ignition upgrade kit	G3304
75.00.537	Ignition upgrade kit	G3306
75.00.538	Ignition upgrade kit	G3406
75.00.539	Ignition upgrade kit	G3408
75.00.540	Ignition upgrade kit	G3412

## Ordering Information

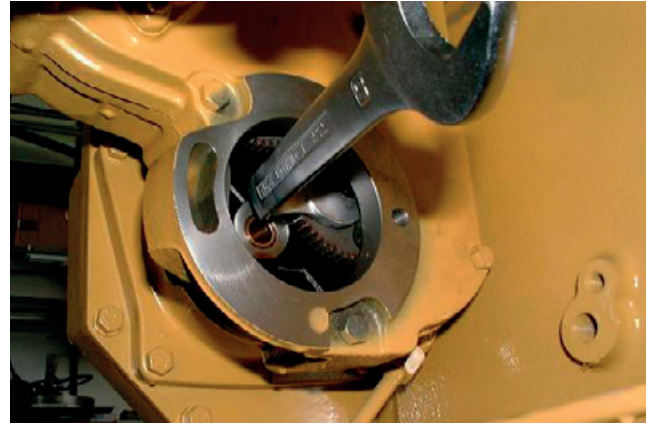


### Optional Available Tool for CATERPILLAR® G3406

The swan-necked fork spanner ensures easy removal of camshaft drive gear.

#### Ordering Information

P/N	Description
44.04.005	Fork spanner, 24 mm, swan-necked



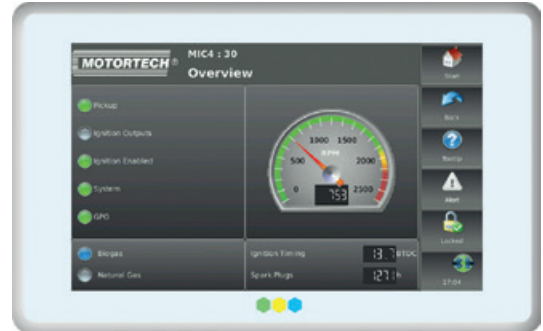
#### Ordering Information – Sub Components

P/N	Description	G3304 75.00.536	G3306 75.00.537	G3406 75.00.538	G3408 75.00.539	G3412 75.00.540
66.00.350-6	MIC3+ ignition controller, Light Duty, 6 outputs	1	1	1		
66.00.350-12	MIC3+ ignition controller, Light Duty, 12 outputs				1	1
75.23.331-4000	Output harness to ignition wiring rail, length 160" (4,0 m)	1	1	1		
75.24.331-4000	Output harness to ignition wiring rail, length 160" (4,0 m)				1	1
75.40.106-L	Ignition wiring rail, 4 cylinders, with ignition coil P/N 06.50.105	1				
75.40.105-L	Ignition wiring rail, 6 cylinders, with ignition coil P/N 06.50.105		1	1		
75.20.241	Wiring harness, 4 cylinders				2	
75.20.242	Wiring harness, 6 cylinders					2
06.50.113	High energy ignition coil				8	12
75.10.301	Flat bar (180°) and fastening material for ignition wiring rail	2	2			
75.10.300	Flat bar (180°) and fastening material for ignition wiring rail			2		
06.88.016-18	High tension lead for CATERPILLAR® G3300 series	4	6			
06.85.1019-16	PolyMot™ high tension lead for CATERPILLAR® G3400 series			6	8	12
06.02.034-160	Input harness, length 160" (4,0 m), for inductive pickup, including CAN Bus/Modbus wiring	1	1	1	1	1
66.60.003-60	Pickup, inductive, M12x1 x 60 mm	1	1	1	1	1
75.30.132	Trigger conversion kit for CATERPILLAR® G3304 (4+1 events)	1				
75.30.131	Trigger conversion kit for CATERPILLAR® G3306 (6+1 events)		1			
75.30.133	Trigger conversion kit for CATERPILLAR® G3406 (6+1 events)			1		
24.95.002	Flange cover plate for magneto drive	1	1	1		
06.22.228-GO-A	TriDev trigger device, 2:1, CCW, 8+1 events (replaces ALT III P/N 8A23H-GO)				1	
06.22.226-GO-A	TriDev trigger device, 2:1, CCW, 6+1 events (replaces ALT III P/N 12P21H-GO)					1

## Accessories

### PowerView3 – HMI-Module

The operating data of MIC3/3+, MIC4 and MIC5 series ignition controllers will be completely visualized via HMI module (Human Machine Interface). The overview screen shows the relevant information as engine speed, ignition timing and status of pickups, ignition outputs or active parameter set. The PowerView3 also allows justification of various ignition parameters such as ignition timing and energy. Functions as the self-test for error diagnostics can also be executed via HMI module. The control keys guarantee simple navigation through different display pages and menus. All in all the PowerView3 HMI module is also able to provide error diagnostics on-site without requiring a laptop!



## PowerView3

MOTORTECH ENGINE INFORMATION MONITOR

The PowerView3 is also available for data visualization of:

- DetCon Detonation Control
- TempScan20 Temperature Module



### Industrial Spark Plugs

Today the industrial gas engine market requests Platinum and Iridium tip electrodes for long spark plug life.

Distribution partner for DENSO spark plugs



### DetCon20 – Detonation Control

The gas engine operators are calling for increased power output from their engines. More load means higher temperatures, pressures and tougher operation. This mostly ends in catastrophic engine damages due to detonation or pre-ignition. As MOTORTECH has proven for years, detonation can be detected professionally with the DetCon2 or DetCon20. Single cylinder sensors constantly monitor the sound level of the combustion chamber. If detonation is detected the system will take steps to eliminate detonation immediately.

Upgrade your engines and increase availability of the equipment!



## DetCon20

MOTORTECH DETONATION CONTROL SYSTEM

Download now!



## All Products at a Glance!

For further information about the MOTORTECH products get our product guide online.



Scan QR-Code to get to the download page



Distribution partner for DENSO spark plugs

**DENSO**



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### MOTORTECH GmbH

Hogrevestr. 21-23  
29223 Celle  
Germany  
Phone: +49 (5141) 93 99 0  
Fax: +49 (5141) 93 99 99  
[www.motortech.de](http://www.motortech.de)  
[sales@motortech.de](mailto:sales@motortech.de)

### MOTORTECH Americas, LLC

1400 Dealers Avenue, Suite A  
New Orleans, LA 70123  
USA  
Phone: +1 (504) 355 4212  
Fax: +1 (504) 355 4217  
[www.motortechamericas.com](http://www.motortechamericas.com)  
[info@motortechamericas.com](mailto:info@motortechamericas.com)

### MOTORTECH Shanghai Co. Ltd.

Room 1018 Enterprise Square,  
No. 228 Meiyuan Road,  
Zhabei District, 200070 Shanghai  
China  
Phone: +86 (21) 6380 7338  
[www.motortechshanghai.com](http://www.motortechshanghai.com)  
[info@motortechshanghai.com](mailto:info@motortechshanghai.com)

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