











Year	Engine	Part Number
<b>JOHN DEERE</b>		
<b>450CLC Excavator, 744J, 824J Loader</b>		
	12.5L 6125H POWERTECH .....	EX631011
<b>7300 Forage Harvester</b>		
	12.5L 6125 POWERTECH .....	EX631011
<b>7400 Forage Harvester</b>		
	12.5L 6125 POWERTECH .....	EX631012
<b>7500 Forage Harvester</b>		
	12.5L 6125 POWERTECH .....	EX631013
<b>7700 Forage Harvester</b>		
	12.5L 6125 POWERTECH .....	EX631013
<b>9200 Tractor</b>		
	10.5L 6105 POWERTECH to engine serial number 0033713 .....	EX631000
	10.5L 6105 POWERTECH from engine serial number 0033714 through 029999 .....	EX631010
	10.5L 6105 POWERTECH from engine serial number 0300000 .....	EX631011
<b>9300, 9400 Tractors</b>		
	12.5L 6125 POWERTECH to engine Serial Number 010637 .....	EX631001
	12.5L 6125 POWERTECH from engine Serial Number 010638 through 029999 .....	EX631009
	12.5L 6125 POWERTECH from engine serial number 030000 through 034167 .....	EX631011
	12.5L 6125 POWERTECH from engine serial number 034168 .....	EX631012
<b>9300T, 9400T Tractors</b>		
	12.5L 6125H POWERTECH to engine serial number 010637 .....	EX631001
	12.5L 6125H POWERTECH from engine serial number 010638 through 029999 .....	EX631009
	12.5L 6125H POWERTECH from engine serial number 030000 through 034167 .....	EX631011
	12.5L 6125H POWERTECH from engine serial number 034168 .....	EX631012
<b>9220, 9320 Tractors</b>		
	12.5L 6125H POWERTECH .....	EX631011
	12.5L 6125H POWERTECH .....	EX631012
<b>9320T, 9420T, 9520T, 9620T Tractors</b>		
	12.5L 6125H POWERTECH .....	EX631011
	12.5L 6125H POWERTECH .....	EX631012
<b>9750 STS Combine (Canadian application)</b>		
	12.5L 6125H POWERTECH .....	EX631011
<b>9860 STS Combine</b>		
	12.5L 6125H POWERTECH .....	EX631011



Year                  Engine    Part Number

**VOLVO**

**FH12**

9/2002-10/1999	D12.1L Low OUTPUT .....	EX631007
6/2002-7/1998	D12.1L Low OUTPUT .....	EX631008
6/2000-6/1997	D12.1L USA SPECIFICATIONS .....	EX631006
3/1998-1997	D12.1L USA SPECIFICATIONS .....	EX631004
1997-1993	D12.1L High OUTPUT .....	EX631002
1997-1993	D12.1L Low OUTPUT .....	EX631003



Year	Engine	Core Group*	Part Number
<b>DDC SERIES 60</b>			
1989-1988	12.7L 6067GU40 DDEC I/II .....	1 .....	EX634785
1989-1988	12.7L 6067GU40 DDEC I/II .....	1 .....	EX634795
1990-1989	11.1L 6067WU40 DDEC I/II .....	1 .....	EX634865
1989-1988	11.1L 6067WU40 DDEC I/II .....	1 .....	EX634870
1993-1990	11.1L 6067WU40/60 DDEC II/III .....	1 .....	EX634935
1993-1990	12.7L 6067GU60 DDEC II/III .....	1 .....	EX634940
1990	12.7L 6067GU60 DDEC II .....	1 .....	EX634945
1993-1990	12.7L 6067GU60 DDEC II/III .....	1 .....	EX634970
1996-1994	11.1L 6067WK/SK/60 DDEC III .....	2 .....	EX635550
1996-1994	12.7 6067GK/60 DDEC III .....	2 .....	EX635575
1996-1994	11.1L 6067WK/SK/60 DDEC III .....	2 .....	EX635580
1996-1994	12.7 DDEC III .....	2 .....	EX635600
1996-1994	11.1L DDEC III .....	2 .....	EX635605
1996-1994	12.7L 6067GK60 DDEC III .....	2 .....	EX635695
1996-1994	12.7L 6067GK60 DDEC III .....	2 .....	EX635915
2002-1999	12.7L 6067TK60 DDEC IV .....	3 .....	EX636977
2002-1998	11.1L 6067EK60 DDEC IV .....	3 .....	EX636978
2002-1999	12.7L DDEC IV .....	3 .....	EX637045
2002-1999	12.7L DDEC IV .....	3 .....	EX637466
2002-1999	14.0L DDEC IV .....	3 .....	EX637635
2002-1999	12.7L DDEC IV .....	3 .....	EX637650

APPLICATIONS

\* Please see page 9



# NOTES





<b>EX631000</b>		
<b>John Deere</b>		
9200 Tractor		
<b>EX631001</b>		
<b>John Deere</b>		
9300 Tractor 9400 Tractor 9300T Tractor 9400T Tractor		
<b>EX631002</b>		
<b>VOLVO</b>		
FH12 D12.1L		1997-1993
<b>EX631003</b>		
<b>VOLVO</b>		
FH12 D12.1L		1997-1993
<b>EX631004</b>		
<b>VOLVO</b>		
FH12 D12.1L		3/1998-1997
<b>EX631006</b>		
<b>VOLVO</b>		
FH12 D12.1L		6/2000-6/1997
<b>EX631007</b>		
<b>VOLVO</b>		
FH12 D12.1L		9/2002-10/1999
<b>EX631008</b>		
<b>VOLVO</b>		
FH12 D12.1L		6/2002-7/1998
<b>EX631009</b>		
<b>John Deere</b>		
9300 Tractor 9400 Tractor 9300T Tractor 9400T Tractor		
<b>EX631010</b>		
<b>John Deere</b>		
9200 Tractor		

<b>EX631011</b>		
<b>John Deere</b>		
450CLC Excavator 744J Loader 824J Loader 7300 Forage Harvester 9200 Tractor 9300 Tractor 9400 Tractor 9300T Tractor 9400T Tractor 9220 Tractor 9320 Tractor 9320T Tractor 9420T Tractor 9520T Tractor 9620T Tractor 9750 STS Combine 9860 STS Combine		
<b>EX631012</b>		
<b>John Deere</b>		
7400 Forage Harvester 9300 Tractor 9400 Tractor 9300T Tractor 9400T Tractor 9220 Tractor 9320 Tractor 9320T Tractor 9420T Tractor 9520T Tractor 9620T Tractor		
<b>EX631013</b>		
<b>John Deere</b>		
7500 Forage Harvester 7700 Forage Harvester		
<b>EX634785</b>		
<b>DDC</b>		
12.7L 6067GU40		1989-1988
<b>EX634795</b>		
<b>DDC</b>		
12.7L 6067GU40		1989-1988
<b>EX634865</b>		
<b>DDC</b>		
11.1L 6067WU40		1990-1989
<b>EX634870</b>		
<b>DDC</b>		
11.1L 6067WU40		1989-1988

<b>EX634935</b>		
<b>DDC</b>		
11.1L 6067WU40/60		1993-1990
<b>EX634940</b>		
<b>DDC</b>		
12.7L 6067GU60		1993-1990
<b>EX634945</b>		
<b>DDC</b>		
12.7L 6067GU60		1990
<b>EX634970</b>		
<b>DDC</b>		
12.7L 6067GU60		1993-1990
<b>EX635550</b>		
<b>DDC</b>		
11.1L 6067WK/SK/60		1996-1994
<b>EX635575</b>		
<b>DDC</b>		
12.7 6067GK/60		1996-1994
<b>EX635580</b>		
<b>DDC</b>		
11.0L 6067WK/SK/60		1996-1994
<b>EX635600</b>		
<b>DDC</b>		
12.7 DDEC III		1996-1994
<b>EX635605</b>		
<b>DDC</b>		
11.1L DDEC III		1996-1994
<b>EX635695</b>		
<b>DDC</b>		
12.7L 6067GK60		1996-1994
<b>EX635915</b>		
<b>DDC</b>		
12.7L 6067GK60		1996-1994

BUYER'S GUIDE



**EX636977**

**DDC**

12.7L 6067TK60                      2002-1999

**EX636978**

**DDC**

11.1L 6067EK60                      2002-1998

**EX637045**

**DDC**

12.7L DDEC IV                      2002-1999

**EX637466**

**DDC**

12.7L DDEC IV                      2002-1999

**EX637635**

**DDC**

14.0L DDEC IV                      2002-1999

**EX637650**

**DDC**

12.7L DDEC IV                      2002-1999

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DETROIT DIESEL	JOHN DEERE	VOLVO
R5234785 ..... EX634785	RE63052 ..... EX631001	1547287 ..... EX631003
R5234795 ..... EX634795	RE64866 ..... EX631000	1547909 ..... EX631002
R5234865 ..... EX634865	RE68665 ..... EX631001	1677154 ..... EX631005
R5234870 ..... EX634870	RE68806 ..... EX631000	3169521 ..... EX631007
R5234935 ..... EX634935	RE504092 ..... EX631013	3964404 ..... EX631004
R5234940 ..... EX634940	RE504468 ..... EX631009	8112556 ..... EX631005
R5234945 ..... EX634945	RE504469 ..... EX631010	8112557 ..... EX631002
R5234970 ..... EX634970	RE505207 ..... EX631012	8112660 ..... EX631003
R5235550 ..... EX635550	RE505262 ..... EX631009	8113092 ..... EX631004
R5235575 ..... EX635575	RE505318 ..... EX631010	8113180 ..... EX631006
R5235580 ..... EX635580	RE505430 ..... EX631011	8113411 ..... EX631008
R5235600 ..... EX635600	RE505967 ..... EX631011	8113837 ..... EX631007
R5235605 ..... EX635605	RE508490 ..... EX631012	8170966 ..... EX631006
R5235695 ..... EX635695	RE508491 ..... EX631013	8170998 ..... EX631008
R5235915 ..... EX635915	RE517658 ..... EX631013	
R5236977 ..... EX636977	RE517659 ..... EX631012	
R5236978 ..... EX636978	RE517660 ..... EX631011	
R5237045 ..... EX637045	RE517661 ..... EX631011	
R5237466 ..... EX637466	RE517662 ..... EX631012	
R5237635 ..... EX637635	RE517663 ..... EX631013	
R5237650 ..... EX637650	RG27867 ..... EX631001	
	RG27869 ..... EX631000	
	RG29930 ..... EX631009	
	RG29933 ..... EX631010	
	RG30742 ..... EX631011	
	RG31717 ..... EX631012	
	RG31719 ..... EX631013	
	RG33957 ..... EX631009	
	RG33958 ..... EX631010	
	RG33966 ..... EX631011	
	RG33967 ..... EX631012	
	RG33968 ..... EX631013	



# NOTES

## Core Requirements

The core return policy for the Delphi Exchange Electronic Unit Injector program is as follow:

- All Volvo and John Deere Electronic Unit Injector (EUI) cores returned must be exact replacement for unit ordered. Cores will not be accepted if they do not match replacement unit.
- For Series 60 cores please reference below:

Group classification of cores:

Group 1 - EX634785, EX634795, EX634865, EX634870, EX634935, EX634940, EX634945, EX634970

Group 2 - EX635550, EX635575, EX635580, EX635600, EX635605, EX635695, EX635915

Group 3 - EX636977, EX636978, EX637045, EX637466, EX637635, EX637650

Cores will be accepted for any of the Exchange Injectors within the specific group classification. Example; if you purchased EX634795 you can return any of the part numbers listed in group 1 ONLY.

- **Units must be properly indentified with their part number**
- **All acceptable cores must be intact and not damaged**
  - **Fire damaged injectors will not be accepted**
  - **Unacceptable cores will be scrapped immediately**
- **Cores must be returned within 12 months from the date of purchase**

## Warranty

### **SERIES 60's**

Series 60 EUI's are warranted to be free from defects in materials or workmanship for a period of 12 months from date of sale to the end user. Injectors diagnosed in service as "failed" within the first 90 days, will be automatically accepted under our **new "No Hassle" policy**, <sup>(1)</sup> provided the injector is intact as it was removed from the engine and there are no obvious external signs of customer abuse <sup>(2)</sup>.

(1) All other warranty policies apply; refer to section eight of the procedure manual.

(2) Water ingress, incorrect application, installation, and fuel will not be accepted

No R & R or contingent liability

### **JOHN DEERE & VOLVO**

- 12 months from date of sale to the end user.
- No R & R or contingent liability

**All other warranty policies apply; refer to section eight (8) of the procedure manual**

## Technical Information

### **Subject: Fault Finding Engine Misfire on Series 60 Applications**

This is designed to help diagnose “on engine” if a Series 60 injector is faulty, or whether the fault is due to an engine component or setting.

#### **Troubleshooting Procedure**

- a) Ensure the correct injector calibration setting is used. The process for overchecking and resetting this calibration code can be obtained from the engine manufacture. The location of the calibration code on a Delphi Remanufactured Series 60 injector is shown in Figure 1.

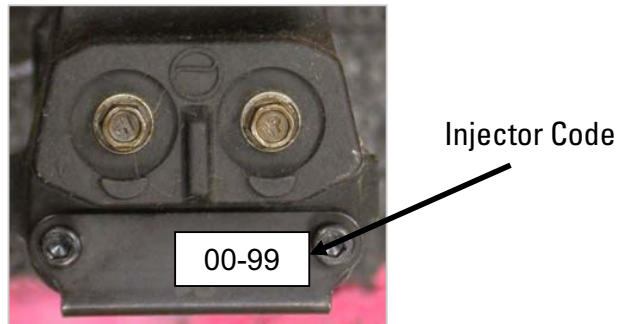


Figure 1

- b) If the correct code is set and the injector continues to misfire it will then be necessary to check the following:
  - Check for correct valve clearance
  - Check for correct injector height
  - Check for worn or damaged camshaft lobes and rollers
- c) If the injector passes all of the checks in section b, follow the engine manufacturers troubleshooting procedures to check for a faulty injector.
- d) If the injector/engine passes all of the previous procedures, the Electronic Control Module (ECM) could be at fault. There is currently no overcheck procedure for the ECM; if the ECM is faulty it must be replaced.

For more information please see the fault matrix on page 12.

## Fault Matrix

	<b>SYMPTOMS</b>					
		Excessive Smoke (Black or Gray)	Excessive Blue Smoke	Excessive White Smoke	Rough Running or Stalling	Misfiring Cylinder
<b>POSSIBLE CAUSE</b>						
Improper Fuel Oil Grade		X	X			
Restricted Air Cleaner Element		X				
Restricted or Cracked Charge Air Cooler		X				
Faulty Exhaust System		X				
Faulty Fuel Injector		X	X		X	
Defective Turbo Charger		X	X			
Worn or Damaged Valve or Cylinder Kit			X			X
Defective Fuel Pump				X		
Aerated Fuel				X	X	X
Improper Injector Calibration Setting				X	X	X
Improper Valve Clearance or Injector Height				X		X
Worn or Damaged Camshaft Lobes & Rollers				X		X
Faulty Electronic Control Module (ECM)				X		X
Low Battery Voltage					X	
Insufficient Fuel Oil Flow					X	
High Fuel Oil Temperature Return					X	
Low Compression Pressure					X	
Poor Vehicle Ground						X





# NOTES



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## ***Company Profile***

Delphi Product & Service Solutions is bringing to the market a strong focus on vehicle electronics, consumer electronics and service technologies. An innovator for over a century, Delphi will capitalize on its Original Equipment (OE) experience, electronics expertise and understanding of vehicle systems to meet the increasingly complex product and service needs of its customers. Delphi's new business unit, Delphi Integrated Service Solutions, will add to these capabilities by providing the diagnostics and service solutions technicians will need to service tomorrow's vehicle systems. Today, Delphi will offer technicians information where they want it, when they want it.

The Delphi brand offers a quality line of automotive parts you can use with the same confidence that automotive manufacturers have in our Original Equipment applications. Our Aftermarket line is designed to provide customers with a wide range of products that will satisfy virtually any need they may have—whether they're looking for a quality replacement part or want to upgrade to the best part available.

***When it comes to Aftermarket products you can trust, turn to the brand that automotive manufacturers around the world have looked to for almost a century—Delphi.***

## ***Présentation de la Société***

Delphi Product & Service Solutions joint au marché son intérêt marqué pour l'électronique de véhicule, l'électronique grand public et les technologies de réparation. Innovateur depuis plus d'un siècle, Delphi capitalise son expérience dans l'équipement d'origine, son expertise en électronique et sa compréhension des systèmes du véhicule afin de répondre aux besoins de plus en plus complexes de ses clients, en matière de produits et de réparation. La nouvelle unité commerciale de Delphi, Delphi Integrated Service Solutions, s'ajoute à ces possibilités en offrant des solutions de diagnostic et de réparation nécessaires aux techniciens pour réparer les systèmes des véhicules de demain. Aujourd'hui, Delphi offre de l'information aux techniciens, où et quand ils en ont besoin.

La marque Delphi vous offre une gamme de pièces automobiles de qualité, que vous pouvez utiliser avec la même confiance que celle qu'accordent les constructeurs automobiles à nos produits d'origine. Notre ligne de pièces de rechange est conçue pour apporter à nos clients une vaste gamme de produits pouvant répondre virtuellement à chacun de leurs besoins potentiels—qu'ils recherchent une pièce de rechange de qualité ou le tout dernier cri en matière de technologie automobile.

***Pour ce qui est de produits de marché secondaire en lesquels vous pouvez vous fier, tournez-vous vers la marque recherchée depuis plus d'un siècle par les fabricants automobiles internationaux—Delphi***

## ***Perfil de la Compañía***

Delphi Product and Service Solutions está haciendo que la atención del mercado se centre fuertemente en los productos electrónicos para vehículos y consumidores, así como en las tecnologías de servicio. Delphi, reconocida por sus constantes innovaciones durante más de un siglo, aprovechará su experiencia y conocimiento en equipos originales (OE), electrónica y sistemas vehiculares para satisfacer las necesidades cada vez más complejas de productos y servicios que manifiestan sus clientes. La nueva unidad comercial de la empresa, Delphi Integrated Service Solutions, ampliará estas capacidades ofreciendo los diagnósticos y las soluciones de servicio que necesitan los técnicos para dar servicio a los sistemas vehiculares del futuro. Hoy Delphi ofrece a los técnicos la información que desean, cuando la desean.

La marca Delphi ofrece una línea de partes para automóviles de calidad que puede utilizar con la misma confianza que los fabricantes de automóviles tienen en nuestras aplicaciones de Equipo Original. Nuestra línea de repuestos fue diseñada para brindar a los clientes una amplia gama de productos que satisfagan prácticamente cualquier necesidad que tengan: se trate de una parte de repuesto de calidad, o de una mejora a la tecnología más avanzada disponible.

***En cuestión de productos confiables de posventa, decídase por la marca que los fabricantes de automóviles de todo el mundo han buscado durante más de un siglo—Delphi.***

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