



PARTS & ACCESSORIES CATALOGUE 2026 V4



Please refer to our website to view the most
up-to-date version of this catalogue:
www.asnu.com/downloads

ASNU Corporation Europe Ltd
Tel: +44 (0) 208 420 4494
E-mail: orders@asnu.com Web: www.asnu.com

TABLE OF CONTENTS

Visual Index (images of injectors).....	2
Important Information Prior to Servicing Injectors.....	11
K-Jet & Cold Start Valves	14
Top Feed Injectors.....	15-70
Side Feed Injectors	71
Gasoline Direct Injectors (GDI)	87
Piezo Injectors	129-130
Machine Adapter Boxes.....	132
ASNU Machine - Adapters, Spares & Accessories	137
Warranty Disclaimer.....	149
Index.....	COMING SOON

FUEL INJECTOR INDEX

ADAPTERS & COMPONENTS

IMPORTANT

MANY INJECTORS LOOK ALIKE. THE ILLUSTRATIONS SHOWN IN THIS CATALOG ARE THE BEST POSSIBLE REPRESENTATIONS & SHOULD BE USED ONLY AS A GUIDE.

PRIOR TO SELECTING INJECTOR COMPONENTS, & BEFORE DISASSEMBLING, ALWAYS INSPECT THE INJECTOR TO BE SERVICED, THEN CAREFULLY MATCH & SELECT THE COMPONENTS WITH THE ILLUSTRATIONS.

FOR TECHNICAL ASSISTANCE PLEASE EMAIL: enquiries@asnu.com OR CALL +44 (0) 2084204494



BOSCH K-JET
MECHANICAL
PAGE 14



BOSCH EV1
BMW/PORSCHE
PAGE 15



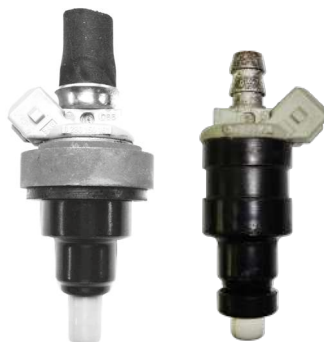
BOSCH EV1
BMW
PAGE 16



GM
MULTI-PORT
PAGE 17



BOSCH D-JET
EV1.0 BODY
PAGE 18



BOSCH L-JET
EV1.0 BODY
PAGE 19



DENSO HOSE
NISSAN
PAGE 20



BOSCH EV1
RENAULT
PAGE 21

FUEL INJECTOR INDEX

ADAPTERS & COMPONENTS



WEBER MPI
FORD
PAGE 22



WEBER
IWP
PAGE 23



CITROEN/PEUGEOT
SAGEM
PAGE 24



DENSO
NISSAN / TOYOTA
PAGE 25



DENSO
FORD / MAZDA
PAGE 26



DENSO
MITSUBISHI
PAGE 27



LUCAS
DISC INJECTOR
PAGE 28



LUCAS
AIR ASSISTED BMW
PAGE 29



SIEMENS
UNIVERSAL
PAGE 30



SIEMENS
VOLVO/BMW/MERC
PAGE 31



SIEMENS
PEUGEOT/CITROEN
PAGE 32



SIEMENS
VW
PAGE 33

FUEL INJECTOR INDEX

ADAPTERS & COMPONENTS



SIEMENS
MARINE
PAGE 34



SIEMENS
UNIVERSAL
PAGE 35



DELPHI
MULTIPORT
PAGE 36



DELPHI
MULTIPORT
PAGE 37



BOSCH EV6
FORD
PAGE 38



BOSCH EV6
FORD/VW
PAGE 39



BOSCH EV6
PEUGEOT/CITROEN
PAGE 40



BOSCH EV6
BMW
PAGE 41



NIKKI/DENSO
NISSAN
PAGE 42



DENSO
SUBARU
PAGE 43



DENSO
NISSAN
PAGE 44



DENSO
TOYOTA
PAGE 45

FUEL INJECTOR INDEX

ADAPTERS & COMPONENTS



DENSO
TOYOTA
PAGE 46



DENSO
TOYOTA
PAGE 47



DENSO
FORD/JAGUAR
PAGE 48



HITACHI
NISSAN
PAGE 49



AINIS
TOYOTA/LEXUS
PAGE 50



DENSO
TOYOTA/LEXUS
PAGE 51



AINIS
TOYOTA/LEXUS
PAGE 52



DENSO
TOYOTA/LEXUS
PAGE 53



NIPPON/DENSO
MITSUBISHI
PAGE 54



YAMAHA
PAGE 55



BOSCH
EV14
PAGE 56



BOSCH
EV14
PAGE 57

FUEL INJECTOR INDEX

ADAPTERS & COMPONENTS



KEIHIN
HONDA
PAGE 58



KEIHIN
HONDA
PAGE 59



KEIHIN
HONDA
PAGE 60



KEIHIN
HONDA
PAGE 61



KEIHIN
HONDA
PAGE 62



KEIHIN
HONDA
PAGE 63



KEIHIN
HONDA
PAGE 64



KEIHIN
HONDA
PAGE 65



KEIHIN
HONDA
PAGE 66



KEIHIN
HONDA
PAGE 67



HITACHI
SUZUKI/CHEVROLET
PAGE 68



DELPHI
GM
PAGE 69

FUEL INJECTOR INDEX

ADAPTERS & COMPONENTS



MAGNETTI MARELLI
VW
PAGE 70



DENSO
TOYOTA
PAGE 71



JECS
NISSAN/SUBARU
PAGE 72



DENSO
NISSAN/SUBARU
PAGE 73



TBI MAXI
GM
PAGE 74



DELPHI/ROCHESTER
GM
PAGE 75



WEBER
FIAT
PAGE 76



HITACHI
NISSAN
PAGE 77



DENSO
MAZDA/FORD
PAGE 78



DENSO
MAZDA
PAGE 79



BOSCH
FORD/VW
PAGE 80



WEBER
DUCATI
PAGE 81

FUEL INJECTOR INDEX

ADAPTERS & COMPONENTS



BOSCH
VW
PAGE 82



BOSCH
VW/CHRYSLER
PAGE 83



BOSCH TBI
GM
PAGE 84



SIEMENS
MERCURY OPTIMAX
PAGE 85



JECS
NISSAN
PAGE 86



YAMAHA
MITSUBISHI
PAGE 87



SIEMENS
CITROEN/PEUGEOT
PAGE 88



SIEMENS
VAUXHALL/OPEL/GM
PAGE 89



BOSCH HDEV1
FORD
PAGE 90



BOSCH HDEV1
VW/AUDI
PAGE 91



BOSCH HDEV5
VAUXHALL/SAAB
PAGE 92



BOSCH HDEV5
VW
PAGE 93

FUEL INJECTOR INDEX

ADAPTERS & COMPONENTS



BOSCH HDEV5
FORD
PAGE 94



BOSCH HDEV5
JAGUAR
PAGE 95



BOSCH HDEV5-2
BMW
PAGE 96



BOSCH HDEV5
NISSAN/INFINITI
PAGE 97



BOSCH HDEV5-2
BMW
PAGE 98



BOSCH HDEV5
BMW B38/B48
PAGE 99



BOSCH HDEV6
BMW /MINI
PAGE 100



BOSCH HDEV6
INJECTOR
PAGE 101



BOSCH HDEV6
BMW/LAND ROVER
PAGE 102



CONTINENTAL
PORSCHE
PAGE 103



CONTINENTAL
PORSCHE
PAGE 104



CONTINENTAL
PORSCHE
PAGE 105

FUEL INJECTOR INDEX

ADAPTERS & COMPONENTS



CONTINENTAL
VW/AUDI
PAGE 106



CONTINENTAL
NISSAN
PAGE 107



CONTINENTAL
VW
PAGE 108



HITACHI
VW/AUDI
PAGE 109



HITACHI
SUBARU
PAGE 110



DENSO
INJECTOR
PAGE 111



DENSO
TOYOTA/LEXUS
PAGE 112



DENSO
TOYOTA/LEXUS
PAGE 113



DENSO
NISSAN/MAZDA
PAGE 114



MARELLI
VW
PAGE 115



MARELLI
VW
PAGE 116



MARELLI
HYUNDAI/KIA
PAGE 117

FUEL INJECTOR INDEX

ADAPTERS & COMPONENTS



MARELLI
MAZDA
PAGE 118



MARELLI
VW
PAGE 119



DELPHI
PAGE 120



DELPHI
PEUGEOT/CITROEN
PAGE 121



DELPHI
VW/AUDI/SKODA
PAGE 122



AC DELCO
PEUGEOT/CITROEN
PAGE 123



AC DELCO
CHEVROLET
PAGE 124



GM
CHEVROLET
PAGE 125



KEIHIN
HONDA
PAGE 126



FOMOCO
MAZDASPEED
PAGE 127



OPTIMAX
MERCURY MARINE
PAGE 128



SIEMENS
BMW
PAGE 129

FUEL INJECTOR INDEX

ADAPTERS & COMPONENTS



BOSCH
MERCEDES/NISSAN
PAGE 130



ETEC/FICHT
2 STROKE GDI
PAGE 131

ADAPTERS & COMPONENTS

IMPORTANT - INJECTOR SERVICE INFORMATION

- QUALIFY THE INJECTORS TO BE SERVICED.
- CORROSION & RUST IN INJECTOR INLET CANNOT BE PROPERLY CLEANED.
- INJECTORS WITH BROKEN OR DAMAGED PINTLES CANNOT BE REPAIRED.
- BEFORE DISASSEMBLING THE INJECTOR, MAKE SURE YOU HAVE THE NECESSARY REPAIR COMPONENTS. SOME INJECTOR COMPONENTS CANNOT BE REPLACED OR NOT AVAILABLE FROM ASNU.
- ADAPTER APPLICATIONS
- ACCESSORY INFORMATION
- PORT INJECTORS SHOULD BE TESTED AT 3 BAR
- GDI INJECTORS SHOULD BE TESTED AT 5 BAR
- FOR BEST PERFORMANCE, CLEANED INJECTORS SHOULD BE INSTALLED IN VEHICLE IMMEDIATELY AFTER SERVICING WITH ASNU.
- SHELF LIFE: SERVICED INJECTORS THAT WILL NOT BE RE-INSTALLED TO A VEHICLE ENGINE MUST BE TREATED WITH LIQUID PARRAFIN OR LIGHT OIL TO PREVENT SEIZING OF INTERNAL COMPONENTS. REFER TO ASNU OPERATION MANUAL FOR CORRECT PROCEDURE.
- PROTECTIVE CAPS MUST BE INSTALLED TO PREVENT CONTAMINATION & PRESERVE INJECTOR SHELF LIFE.
- TECHNICAL ASSISTANCE: enquiries@asnu.com
- ORDERS: orders@asnu.com

TOP FEED INJECTORS

Service Items



	ASNU 12 O-Ring
	ASNU 12B O-Ring

**Mechanical Fuel Injector
Bosch K-Jetronic**

Service Tools

				
ASNU 47 8mm Female Coupling	ASNU 50 10mm Female Coupling	ASNU 55 12mm Female Coupling	ASNU 95 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



**BMW
Bosch EV1**

	ASNU 03 Filter Basket
	ASNU 08 Top O-ring
	ASNU 09 Spacer
	ASNU 08 Lower O-ring
	ASNU 26 Pintle Cap

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



**BMW
Bosch EV1**

	ASNU 03 Filter Basket
	ASNU 08 Top O-ring
	ASNU 09 Spacer
	ASNU 08 Lower O-ring
	ASNU 36 Pintle Cap

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



**GM Multi-port
Multec Injector**

	ASNU 03 Filter Basket
	ASNU 14 Top & Bottom O-Ring



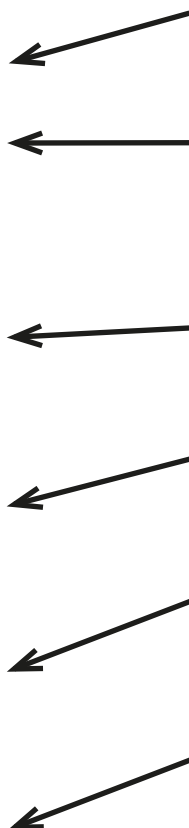
Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



	ASNU 03 Filter Basket
	ASNU 40 Hose (1M Length)
	ASNU 34 Ferrule
	ASNU 11 Body Seal
	ASNU 16 O-Ring
	ASNU 07 Pintle Cap

**Mercedes/Volvo/BMW
Bosch D-Jetronic**

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 58 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



**GM/Jaguar/Fiat/Alfa
Bosch L-Jetronic**

	ASNU 03 Filter Basket
	ASNU 40 Hose (1M Length)
	ASNU 34 Ferrule
	ASNU 11 Body Seal
	ASNU 16 O-Ring
	ASNU 07 Pintle Cap

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 58 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



**Nissan
Denso**

	ASNU 03 Filter Basket
	ASNU 40 Hose (1M Length)
	ASNU 34 Ferrule
	ASNU 19 Body Seal
	ASNU 16 O-Ring
	ASNU 07 Pintle Cap

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 58 Fuel Rail Coupling		

Notes

TOP FEED INJECTORS



**Renault/Jaguar
Bosch EV1.0**

Service Items

	ASNU 03 Standard Filter Basket
	ASNU 08 Top O-Ring
	ASNU 09 Plastic Washer
	ASNU 23 Lower O-Ring

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling		

Notes

TOP FEED INJECTORS

Service Items



	ASNU 04 Filter Basket
	ASNU 08 Top & Bottom O-Ring
	ASNU 09 Plastic Washer
	ASNU 05 Pintle Cap

**Ford
Weber MPI**

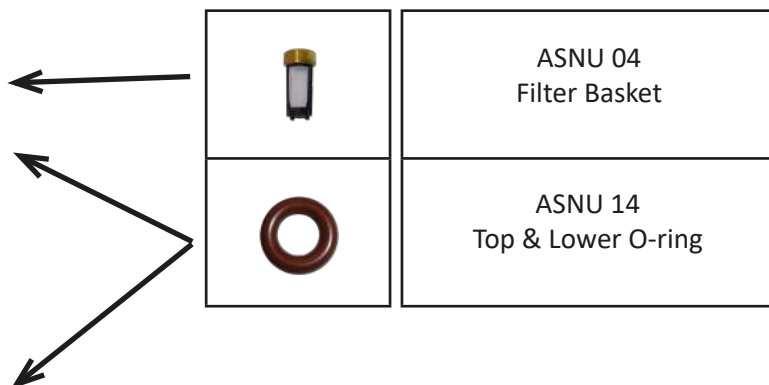
Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



IWP Weber

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 44 Long 14mm Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

NOT SERVICEABLE

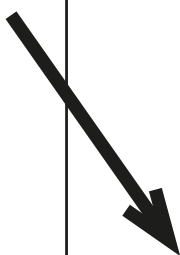
SAGEM MINI
CITROEN / PEUGEOT / RENAULT



ASNU39
LOWER O-RING



REPLACE WITH ONE OF THE INJECTORS LISTED IN
THE NOTES BELOW (SHOWN BELOW)



NOTES:

01F003A	VAL 348004	→	BOSCH 0280156328
01F005A	VAL 348006	→	BOSCH 0280156329
01F002A	VAL 348001	→	BOSCH 0280156357

TOP FEED INJECTORS

Service Items



**Nissan / Toyota
Denso**

	ASNU 03 Filter Basket
	ASNU 17 Top O-ring
	ASNU 15 Spacer
	ASNU 237 Manifold Seal
	ASNU 07 Pintle Cap

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 59 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



Ford/Mazda/Toyota
Denso

	ASNU 03 Filter Basket
	ASNU 17 Top O-ring
	ASNU 15 Spacer
	ASNU 237 Lower Seal
	ASNU 07 Pintle Cap
	ASNU 38 Pintle Cap

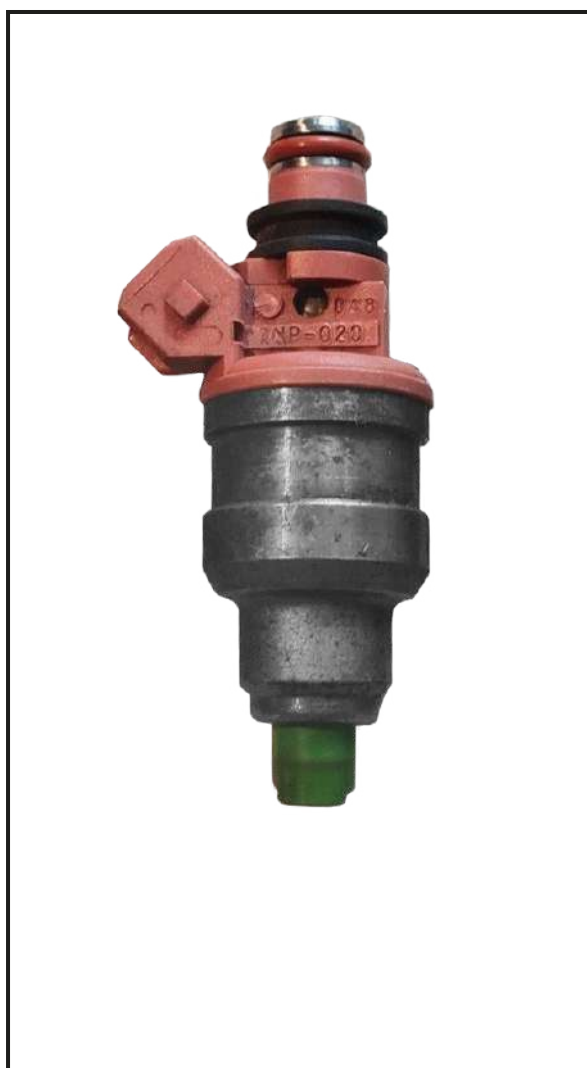
Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 59 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

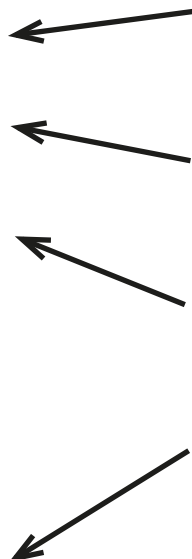
TOP FEED INJECTORS

Service Items



**Mitsubishi
Denso**

	ASNU 03 Filter Basket
	ASNU 17 Top O-ring
	ASNU 15 Spacer
	ASNU 237 Lower Seal



Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 59 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



**Lucas Disc
Injector**



ASNU 02
Filter Basket

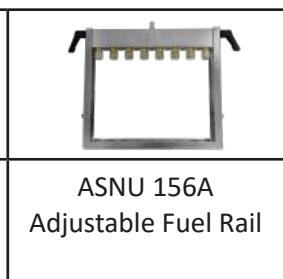
ASNU 08
O-Ring (x2)



Service Tools



ASNU 70
Universal Harness



ASNU 156A
Adjustable Fuel Rail



ASNU 57
Fuel Rail Coupling



ASNU 153
Cleaning Tray

Notes

TOP FEED INJECTORS

Service Items



ASNU 03
Filter Basket



ASNU 14
Top O-ring



ASNU 21
Lower O-ring

BMW
Lucas Air Assisted

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

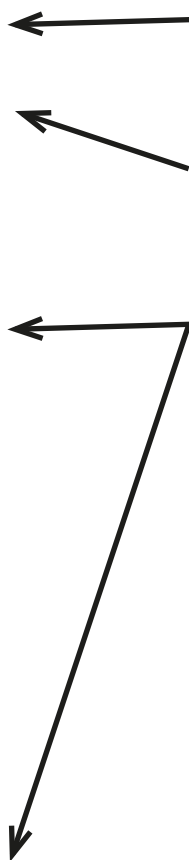
TOP FEED INJECTORS

Service Items



Siemens Deka

	ASNU 03 Filter Basket
	ASNU 194 O-Ring Retaining clip
	ASNU 14 Top & Bottom O-ring



Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 89 Rail Insert	ASNU 153 Cleaning Tray

Notes

DO NOT PULSE THESE SIEMENS DEKA INJECTORS DURING CLEANING

TOP FEED INJECTORS

Service Items



	ASNU 03 Filter Basket
	ASNU 14 Top O-ring
	ASNU 239 Lower O-ring

**Volvo/BMW/Mercedes
Siemens Deka**

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 89 Rail Insert	ASNU 153 Cleaning Tray

Notes

TOP FEED INJECTORS

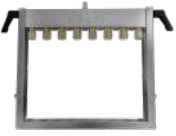
Service Items



	ASNU 14 Top O-ring
	ASNU 247 Lower O-ring

Peugeot / Citroen
Siemens Deka

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 89 Rail Insert	ASNU 153 Cleaning Tray

Notes

Do not attempt to remove internal filter

TOP FEED INJECTORS

Service Items

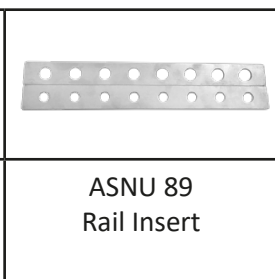
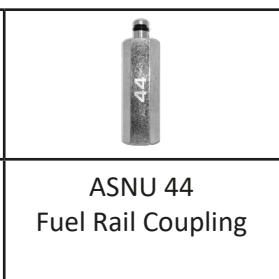
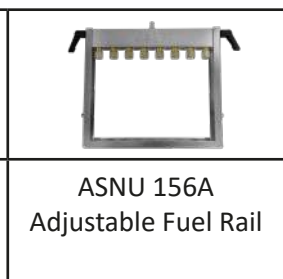


ASNU 14
O-Ring (x2)



VW
Siemens Deka

Service Tools



Notes

Do not attempt to remove internal filter

TOP FEED INJECTORS

Service Items



ASNU 14
O-Ring (x2)



**Marine
Siemens Deka**

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 44 Fuel Rail Coupling	ASNU 89 Rail Insert	ASNU 153 Cleaning Tray

Notes

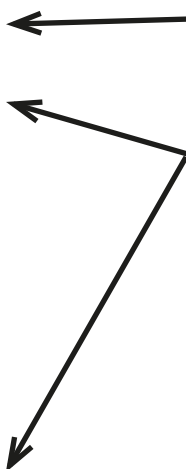
Do not attempt to remove internal filter

TOP FEED INJECTORS

Service Items

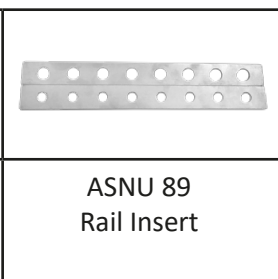
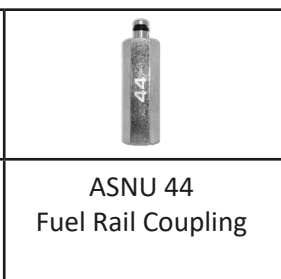
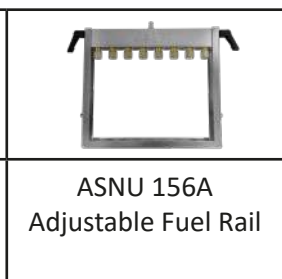


ASNU 02 Filter Basket
ASNU 14 O-Ring (x2)



Siemens Deka

Service Tools



Notes

TOP FEED INJECTORS

Service Items



Delphi Multiport

	ASNU 03 Filter Basket
	ASNU 14 Top O-Ring
	ASNU 239 O-Ring
	ASNU 254 Pintle Cap

Service Tools

				
ASNU 116 Delphi Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



Delphi Multiport

	ASNU 03 Filter Basket
	ASNU 14 Top O-Ring
	ASNU 239 O-Ring
	ASNU 254 Pintle Cap

Service Tools

				
ASNU 116 Delphi Harness	ASNU 156A Adjustable Fuel Rail	ASNU 44 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

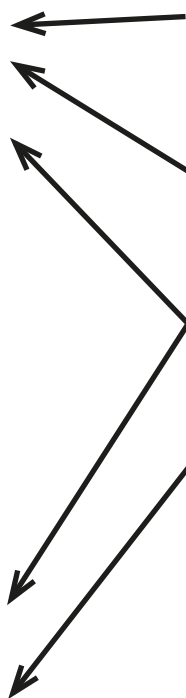
TOP FEED INJECTORS

Service Items



**Ford
Bosch EV6**

	ASNU 03 Filter Basket
	ASNU 194 O-Ring Retaining clip
	ASNU 14 Top & Bottom O-Ring
	ASNU 192 Pintle Cap



Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

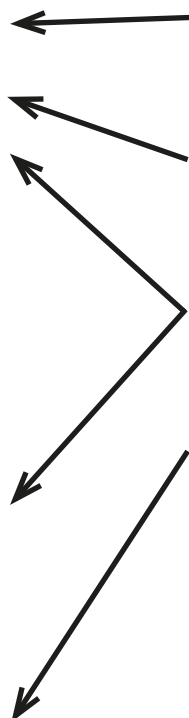
TOP FEED INJECTORS

Service Items



**Ford / VW
Bosch EV6**

	ASNU 03 Filter Basket
	ASNU 194 O-Ring Retaining clip
	ASNU 14 Top & Bottom O-Ring
	ASNU 191 Pintle Cap - Chimney Style



Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

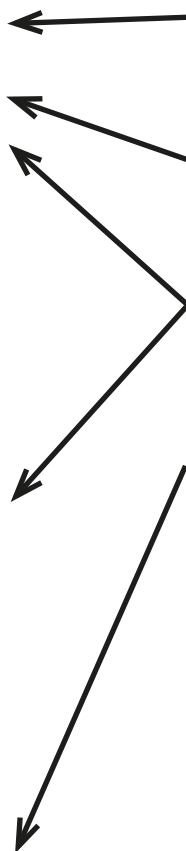
TOP FEED INJECTORS

Service Items



**Peugeot / Citroen
Bosch EV6**

	ASNU 03 Filter Basket
	ASNU 194 O-Ring Retaining clip
	ASNU 14 Top & Lower O-ring
	ASNU 190 Pintle Cap - Flat Style



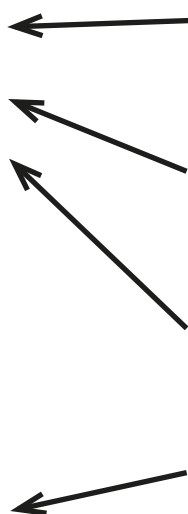
Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



	ASNU 03 Filter Basket
	ASNU 194 O-Ring Retaining clip
	ASNU 14 Top O-ring
	ASNU 239 Lower O-ring

**BMW
Bosch EV6**

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 89 Rail Insert	ASNU 153 Cleaning Tray

Notes

TOP FEED INJECTORS

Service Items



	ASNU 03 Filter Basket
	ASNU 194 Retaining clip
	ASNU 14 Top & Lower O-ring
	ASNU 191 Pintle Cap

**Nissan
Nikki/Denso**

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



	ASNU 03 Filter Basket
	ASNU 194 O-Ring Retaining clip
	ASNU 30 Top O-ring
	ASNU 15 Spacer
	ASNU 253 Lower Seal

Subaru
Denso

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 59 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



**Nissan
Denso**

	ASNU 03 Filter Basket
	ASNU 194 Retaining clip
	ASNU 14 Top O-ring
	ASNU 247 Lower O-ring
	ASNU 169 Lower O-Ring Retaining Clip
	ASNU 293 Pintle Cap

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



**Toyota
Denso**

	ASNU 03 Filter Basket
	ASNU 194 O-Ring Retaining clip
	ASNU 17 Top O-Ring
	ASNU 291 Pintle Cap 7mm Long
	ASNU 253 Lower Seal

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 59 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

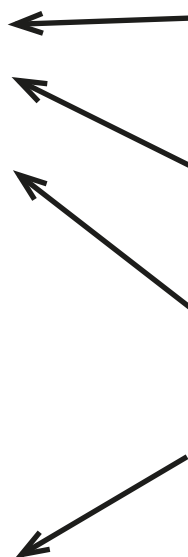
TOP FEED INJECTORS

Service Items



**Toyota
Denso**

	ASNU 03 Filter Basket
	ASNU 194 O-Ring Retaining clip
	ASNU 17 Top O-Ring
	ASNU 294 Pintle Protection Cap



Service Tools

				
ASNU 70P Hirschmann Connector Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 59 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



**Toyota
Denso**

	ASNU 03 Filter Basket
	ASNU 194 O-Ring Retaining clip
	ASNU 17 Top O-Ring
	ASNU 294 Pintle Protection Cap



Service Tools

				
ASNU 70D Harness Adapter Use with ASNU 70	ASNU 156A Adjustable Fuel Rail	ASNU 59 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS



**Ford/Jaguar
Denso**

Service Items

	ASNU 03 Filter Basket
	ASNU 194 Retaining clip
	ASNU 14 Top O-ring
	ASNU 247 Lower O-ring
	ASNU 292 Pintle Cap

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 89 Rail Insert	ASNU 153 Cleaning Tray

Notes

TOP FEED INJECTORS

Service Items



	ASNU 03SS7 or ASNU 136 Filter Basket
	ASNU 14 Top O-ring
	ASNU 247 Lower O-ring
	ASNU 189 Extended Pintle Cap

**Nissan
Hitachi**

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



**Toyota / Lexus
Aisin**

	ASNU 03 Filter Basket
	ASNU 17 Top O-Ring
	ASNU 242 Insulator
	ASNU 289B Pintle Cap
	ASNU 17 Lower O-Ring

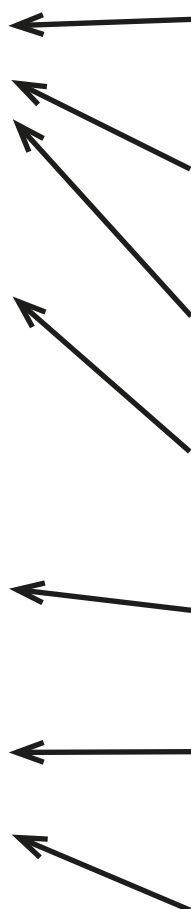
Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 59 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



	ASNU 03 Filter Basket
	ASNU 194 O-Ring Retaining clip
	ASNU 17 Top O-Ring
	ASNU 15 Spacer
	ASNU 242 Insulator
	ASNU 289 Pintle Cap
	ASNU 17 Lower O-Ring

**Toyota / Lexus
Denso**

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 59 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



	ASNU 03 Filter Basket
	ASNU 17 Top O-Ring
	ASNU 253 Lower Seal



**Toyota / Lexus
Aisin**

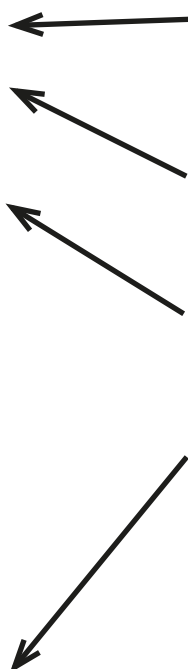
Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 59 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



	ASNU 03 Filter Basket
	ASNU 17 Top O-Ring
	ASNU 15 Spacer
	ASNU 253 Lower O-Ring

**Toyota/Lexus
Denso**

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 59 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

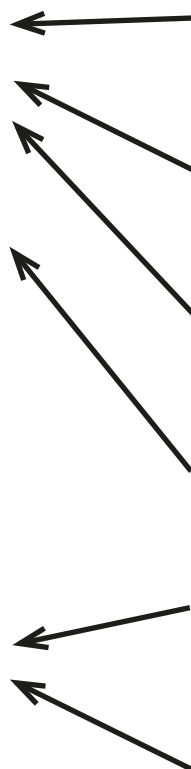
TOP FEED INJECTORS



**Mitsubishi Multiport
Nippon / Denso**

Service Items

	ASNU 03 Filter Basket
	ASNU 245 Top O-ring
	ASNU 30 Top O-ring
	ASNU 15 Spacer
	ASNU237 Manifold Seal
	ASNU 16 Manifold Seal



Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 59 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

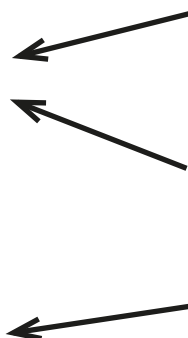
TOP FEED INJECTORS

Service Items



**Yamaha
Multiport**

	ASNU 02A Filter Basket
	ASNU 30G Top O-ring
	ASNU 008C Lower O-ring



Service Tools

				
ASNU 70P Hirschmann Connector Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 45 Long 11mm Fuel Rail Coupling	ASNU 89 Rail Insert	ASNU 153 Cleaning Tray

Notes

TOP FEED INJECTORS

Service Items



	ASNU 14 Top O-ring
	ASNU 247 Lower O-ring

Bosch EV14

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 44 Fuel Rail Coupling	ASNU 89 Rail Insert	ASNU 153 Cleaning Tray

Notes

- * The filter basket is internal and cannot be removed
- * Retainer should not be removed (below the ASNU 247 O-Ring)

TOP FEED INJECTORS

Service Items



Bosch EV14

	ASNU 14 Top O-ring
	ASNU 247 Lower O-ring



Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 89 Rail Insert	ASNU 153 Cleaning Tray

Notes

- * The filter basket is internal and cannot be removed
- * Retainer should not be removed (below the ASNU 247 O-Ring)

TOP FEED INJECTORS

Service Items



**Honda
Keihin**

	ASNU 198 Filter Basket
	ASNU 14 Top O-Ring
	ASNU 195 Plastic Spacer
	ASNU 08 Lower O-Ring
	ASNU 183 Pintle Cap

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 44 Long 14mm Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



	ASNU 198 Filter Basket
	ASNU 14 Top & Middle O-Ring
	ASNU 30M Pintle Cap
	ASNU 102B Lower Seal

**Honda
Keihin**

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



**Honda
Keihin**

	ASNU 198 Filter Basket
	ASNU 14 Top & Lower O-Ring
	ASNU 195 Spacer
	ASNU 184 Pintle Cap

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



ASNU 199
Filter Basket



ASNU 14
Top O-Ring



ASNU 197A
Bottom O-Ring



ASNU 197
Pintle Cap

**Honda
Keihin**

Service Tools



ASNU 70
Universal Injector
Harness



ASNU 156A
Adjustable Fuel Rail



ASNU 57
Fuel Rail Coupling



ASNU 153
Cleaning Tray

Notes

TOP FEED INJECTORS

Service Items



**Honda
Keihin**

	ASNU 30F Filter Basket
	ASNU 30 Top O-Ring
	ASNU 30A Spacer
	ASNU 30H Head Seal

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 59 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

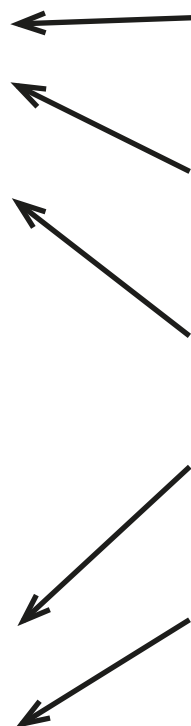
TOP FEED INJECTORS



**Honda
Keihin**

Service Items

	ASNU 30F Filter Basket
	ASNU 30 Top O-Ring
	ASNU 30A Spacer
	ASNU 30H Head Seal
	ASNU 220 Pintle Cap



Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 59 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



	ASNU 03 Filter Basket
	ASNU 30 Top O-Ring
	ASNU 30A Spacer

**Honda
Keihin**

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 59 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS



**Honda
Keihin**

Service Items

	ASNU 198 Filter Basket
	ASNU 30 Top O-Ring
	ASNU 10Y Lower Seal

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 45 Long 11mm Fuel Rail Coupling	ASNU 89 Rail Insert	ASNU 70H Harness Adapter Use with ASNU 70

Notes

TOP FEED INJECTORS

Service Items



	ASNU 186 Filter Basket
	ASNU 262 Top O-Ring
	ASNU 10Y Lower Seal



**Honda
Keihin**

Service Tools

				
ASNU 70P Hirschmann Connector Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 258 Fuel Rail Coupling	ASNU 68A Lower Adapter	

Notes

TOP FEED INJECTORS

Service Items



	ASNU 03 Filter Basket
	ASNU 30 Top O-ring
	ASNU 30A Spacer
	ASNU 30H Lower Seal
	ASNU 196 Pintle Cap
	ASNU 196A Lower O-ring

**Honda
Keihin**

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 59 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

TOP FEED INJECTORS

Service Items



	ASNU 03 Filter Basket
	ASNU 17 Top O-ring
	ASNU 15 Spacer
	ASNU 237 Lower Seal

**Suzuki
Hitachi**

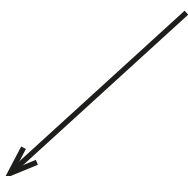
Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 59 Fuel Rail Coupling		

Notes

TOP FEED INJECTORS

Service Items



ASNU 03
Filter Basket



ASNU 276
Top O-Ring



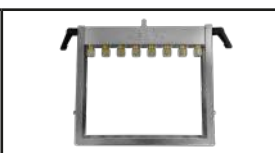
ASNU 247
Lower O-Ring

GM

Service Tools



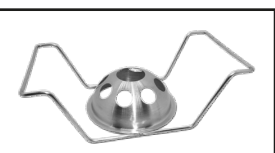
ASNU 70
Universal Harness



ASNU 156A
Adjustable Fuel Rail



ASNU 57
Fuel Rail Coupling



ASNU 153
Cleaning Tray

Notes

TOP FEED INJECTORS

Service Items



	ASNU 03 Filter Basket
	ASNU 14 Top O-ring
	ASNU 247 Lower O-Ring



VW
Magnetti Marelli

Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 153 Cleaning Tray	

Notes

SIDE FEED INJECTORS

Service Items



	ASNU 104A Top O-Ring
	ASNU 104F Filter
	ASNU 104B Middle O-Ring

**Toyota
Denso Side Feed**

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 104 Side Feed Block	ASNU 97 Side Feed Bath Cradle	ASNU 104X Blanking Plug (for testing less than 6)	

Notes

SIDE FEED INJECTORS

Service Items



**Nissan/Subaru
JECS Side Feed**

		ASNU 103A Top O-Ring
		ASNU 103C Filter Basket
		ASNU 103K Filter Basket
		ASNU 103B Lower O-Ring
		ASNU 103E Pintle Cap

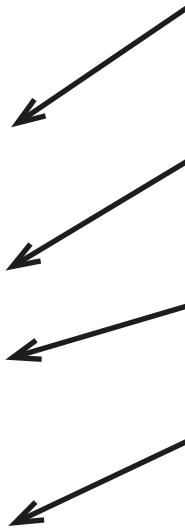
Service Tools

ASNU 70 Universal Injector Harness	ASNU 103 Side Feed Block	ASNU 97 Side Feed Bath Cradle	ASNU 103X Blanking Plug (for testing less than 6)	

Notes

SIDE FEED INJECTORS

Service Items



	ASNU 106A Top O-Ring
	ASNU 106C Filter Basket
	ASNU 106B Lower O-Ring
	ASNU 07 Pintle Cap

**Nissan / Subaru
Denso**

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 106 Side Feed Block	ASNU 106X Blanking Plug (for testing less than 6)	ASNU 97 Side Feed Bath Cradle	

Notes

SIDE FEED INJECTORS

Service Items



	ASNU 60E Top O-Ring
	ASNU 60H Filter Basket
	ASNU 60G Lower O-Ring
	ASNU 60F Metal Washer

**TBI Maxi
GM**

Service Tools

				
ASNU 71H Injector Harness (comes with 71 Block)	ASNU 71 Side Feed Block	ASNU 97 Side Feed Bath Cradle		

Notes

Tip for testing - set machine to 'Sequential' mode and set for 4 injectors

SIDE FEED INJECTORS

Service Items



	ASNU 64A Top O-Ring
	ASNU 64E Filter (Upper)
	ASNU 64F Filter (Lower)
	ASNU 64H Lower O-Ring

Service Tools

				
ASNU 72H Injector Harness (comes with 72 Block)	ASNU 72 Side Feed Block	ASNU 97 Side Feed Bath Cradle		

Notes

Tip for testing - set machine to 'Sequential' mode and set for 8 injectors

SIDE FEED INJECTORS

Service Items



	ASNU 64A Top O-Ring
	ASNU 64C Upper Filter (Weber)
	ASNU 64D Lower Filter (Weber)
	ASNU 64B Lower O-Ring

Fiat
Magneti Marelli Weber

Service Tools

				
ASNU 72H Injector Harness (comes with 72 Block)	ASNU 72 Side Feed Block	ASNU 97 Side Feed Bath Cradle		

Notes

SIDE FEED INJECTORS

Service Items



	ASNU 105A Top O-Ring
	ASNU 105C Filter
	ASNU 105B Lower O-Ring

**Nissan
Hitachi Side Feed**

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 105 Side Feed Block	ASNU 97 Side Feed Bath Cradle		

Notes

SIDE FEED INJECTORS

Service Items



	ASNU 62A Top O-Ring
	ASNU 78D Filter Basket
	ASNU 14 Lower O-Ring
	ASNU 35 Pintle Cap
	ASNU 26 Pintle Cap

**Mazda/Ford
Denso Side Feed**

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 78 Side Feed Block	ASNU 97 Side Feed Bath Cradle		

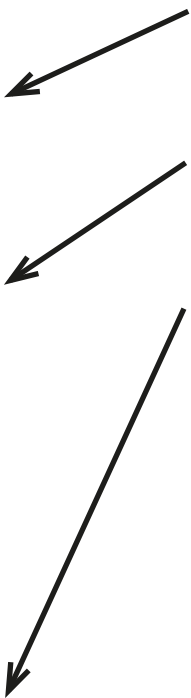
Notes

SIDE FEED INJECTORS

Service Items



	ASNU 107A Top O-Ring
	ASNU 14 Lower O-Ring
	ASNU 78D Filter Basket



**Mazda
Denso Side Feed**

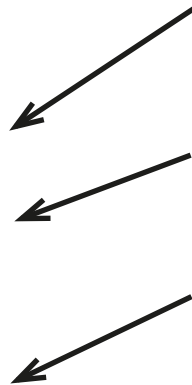
Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 107 Side Feed Block	ASNU 107X Blanking Plug (if required)	ASNU 97 Side Feed Bath Cradle	

Notes

SIDE FEED INJECTORS

Service Items



	ASNU 62A Top O-Ring
	ASNU 65C Filter Basket
	ASNU 14 Lower O-Ring
	ASNU 13 Pintle Cap

**Ford/VW
Bosch Side Feed**

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 78 Side Feed Block	ASNU 97 Side Feed Bath Cradle		

Notes

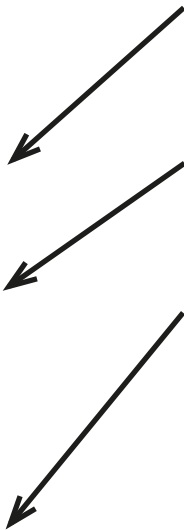
SIDE FEED INJECTORS

Service Items



Ducati
Weber Side Feed

	ASNU 62A Top O-Ring
	ASNU 61 Filter Basket
	ASNU 14 Lower O-Ring



Service Tools

ASNU 70 Universal Injector Harness	ASNU 78 Side Feed Block	ASNU 78X Blanking Plug (if required)	ASNU 97 Side Feed Bath Cradle	

Notes

SIDE FEED INJECTORS

Service Items



	ASNU 62A Top O-Ring
	ASNU 65C Filter Basket
	ASNU 14 Lower O-Ring
	ASNU 13 Pintle Cap

**VW
Bosch Side Feed**

Service Tools

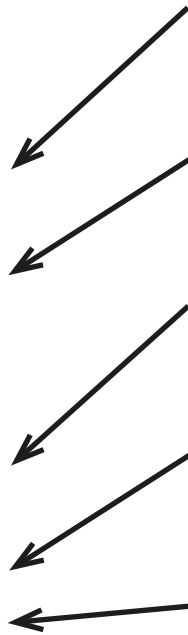
				
ASNU 70 Universal Injector Harness	ASNU 78 Side Feed Block	ASNU 97 Side Feed Bath Cradle		

Notes

Testing Tip - When testing, use ASNU 70 (use 2 plugs per injector) and ensure you put the positive part of the pin on one side (wire with the white stripe), and the negative (plain black wire) on the other side. Set the machine to simultaneous and set the number of injectors to double the amount you are testing (max of 4 injectors can be tested at once)

SIDE FEED INJECTORS

Service Items



	ASNU 65A Top O-Ring
	ASNU 65C Filter Basket
	ASNU 65D Lower Filter Basket
	ASNU 65B Lower O-Ring
	ASNU 65E Pintle Cap

**VW / Chrysler TBI
Bosch Side Feed**

Service Tools

				
ASNU 76H Injector Harness (comes with 76 Block)	ASNU 76 Side Feed Block	ASNU 97 Side Feed Bath Cradle		

Notes

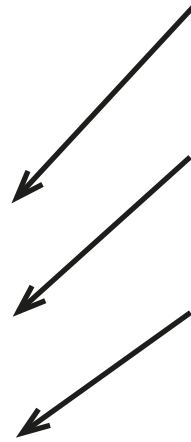
SIDE FEED INJECTORS

Service Items



**GM / Rochester TBI
Bosch Side Feed**

	ASNU 62A Top O-Ring
	ASNU 62C Filter
	ASNU 62B Lower O-Ring



Service Tools

				
ASNU 73H Injector Harness (comes with 73 Block)	ASNU 73 Side Feed Block	ASNU 97 Side Feed Bath Cradle		

Notes

SIDE FEED INJECTORS

Service Items



ASNU 65A
Top O-Ring



ASNU 78C
Filter



ASNU 14
Lower O-Ring

Mazda/Ford/Mercury Optimax
Siemens Side Feed

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 78 Side Feed Block	ASNU 97 Side Feed Bath Cradle		

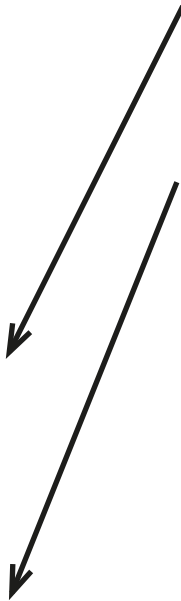
Notes

SIDE FEED INJECTORS

Service Items



	ASNU 112A Top O-Ring
	ASNU 112B Lower O-Ring



Nissan Micra
JECS Side Feed

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 112 Side Feed Block	ASNU 97 Side Feed Bath Cradle		

Notes

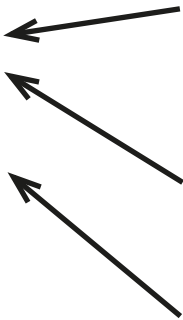
GASOLINE DIRECT INJECTION

Service Items



**Mitsubishi / Yamaha
GDI**

	ASNU 03 or ASNU 03W Standard or S/S Filter Basket
	ASNU 296 Top Split Washer
	ASNU 234 Top O-Ring



Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling		

Notes

Tip for testing - Remove top o-ring and replace with ASNU 08 and use ASNU 57 coupling

GASOLINE DIRECT INJECTION

Service Items



**Citroen / Peugeot
Siemens GDI**

	ASNU 02A Filter Basket
	ASNU 262 Top O-Ring
	ASNU 263 Spiral Split Washer
	ASNU 265 White 3.2mm Teflon Seal



Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 56 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



**Vauxhall/Opel/GM
Siemens GDI**

	ASNU 02A Filter Basket
	ASNU 262B Top O-Ring
	ASNU 263 Spiral Split Washer
	ASNU 265 White 3.2mm Teflon Seal



Service Tools

				
ASNU 117 Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 56 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



**Ford
Bosch HDEV1 GDI**

	ASNU 03 or ASNU 03W Standard or S/S Filter Basket
	ASNU 259 Top O-Ring
	ASNU 283 Split Washer
	ASNU 265 White 3.2mm Teflon Seal

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



**VW/Audi
Bosch HDEV1 GDI**

	ASNU 03 or ASNU 03W Standard or S/S Filter Basket
	ASNU 259 Top O-Ring
	ASNU 283 Split Washer
	ASNU 265 White 3.2mm Teflon Seal

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



**Vauxhall/Saab
Bosch HDEV5 GDI**

	ASNU 271 Top O-Ring
	ASNU 283B Split Spacer
	ASNU 265A Black 3.4mm Graphite Seal



Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 268 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



**VW
Bosch HDEV5 GDI**

	ASNU 66W S/S Filter Basket
	ASNU 271 Top O-Ring
	ASNU 283B Split Spacer
	ASNU 217 VW Damper Washer/Clip
	ASNU 265 White 3.2mm Teflon Seal

Service Tools

				
ASNU 70P Hirschmann Connector Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 268 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



ASNU 86S4 Slim Filter Basket Removal Pin required



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

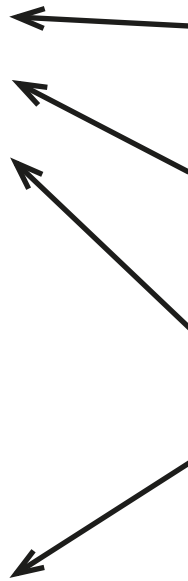
GASOLINE DIRECT INJECTION

Service Items



**Ford
Bosch HDEV5 GDI**

	ASNU 66W S/S Filter Basket
	ASNU 271 Top O-Ring
	ASNU 283B Split Washer
	ASNU 265 White 3.2mm Teflon Seal



Service Tools

				
ASNU 70P Hirschmann Connector Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 268 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



ASNU 86S4 Slim Filter Basket Removal Pin required



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



**Jaguar
Bosch HDEV5 GDI**

	ASNU 271 Top O-Ring
	ASNU 283B Split Washer
	ASNU 265 White 3.2mm Teflon Seal



Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 268 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes

This injector has an internal filter that cannot be removed or replaced



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



**BMW/Peugeot/Citroen
Bosch HDEV5 GDI**

	ASNU 66W S/S Filter Basket
	ASNU 271 Top O-Ring
	ASNU 283B Split Washer
	ASNU 265A Black 3.4mm Graphite Seal



Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 268 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



ASNU 86S4 Slim Filter Basket Removal Pin required



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



**Nissan/Infinity
Bosch HDEV5-1 GDI**

	ASNU 66W S/S Filter Basket
	ASNU 271 Top O-Ring
	ASNU 283B Split Washer
	ASNU 265A Black 3.4mm Graphite Seal



Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 268 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



ASNU 86S4 Slim Filter Basket Removal Pin required



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



ASNU 265A
Black 3.4mm Graphite Seal



BMW
Bosch HDEV52 GDI

Service Tools



ASNU 70P
Hirschmann Connector
Injector Harness



ASNU 156A
Adjustable Fuel Rail



ASNU 134
Fuel Rail Coupling



ASNU 267
GDI Cleaning Tray



ASNU 266
GDI Seal Fitting Tool

Notes

This injector has an internal filter that cannot be removed or replaced



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

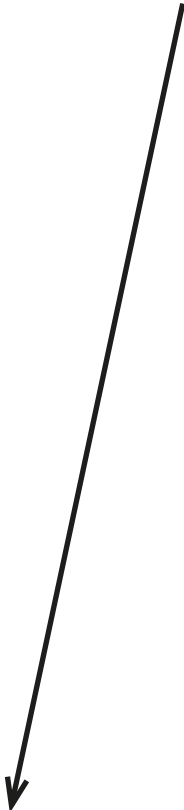
Service Items



ASNU 265A
Black 3.4mm Graphite Seal



**BMW (B38/B48/B58)
Bosch GDI**



Service Tools



ASNU 70P
Hirschmann Connector
Injector Harness



ASNU 156A
Adjustable Fuel Rail



ASNU 231B
Fuel Rail Coupling



ASNU 267
GDI Cleaning Tray



ASNU 266
GDI Seal Fitting Tool

Notes

This injector has an internal filter that cannot be removed or replaced



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



ASNU 265F
Black 2.7mm Graphite Seal



BMW/MINI
Bosch HDEV6 GDI

Service Tools



ASNU 70P
Hirschmann Connector
Injector Harness



ASNU 156A
Adjustable Fuel Rail



ASNU 231B
Fuel Rail Coupling



ASNU 267
GDI Cleaning Tray



ASNU 264
GDI Seal Fitting Tool

Notes

This injector has an internal filter that cannot be removed or replaced

GASOLINE DIRECT INJECTION

Service Items



**VW
Bosch HDEV6 GDI**

	ASNU 257A Top O-Ring
	ASNU 257B Top Spacer Washer
	ASNU 265C Black 2.6mm Graphite Seal



Service Tools

				
ASNU 70P Hirschmann Connector Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 258 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 264 GDI Seal Fitting Tool

Notes

This injector has an internal filter that cannot be removed or replaced

GASOLINE DIRECT INJECTION

Service Items



ASNU 265F
Black 2.7mm Graphite Seal



Land Rover / BMW N63/S63 4.4L
Bosch HDEV6L GDI



Service Tools



ASNU 70P
Hirschmann Connector
Injector Harness



ASNU 156A
Adjustable Fuel Rail



ASNU 134
Fuel Rail Coupling



ASNU 267
GDI Cleaning Tray



ASNU 264
GDI Seal Fitting Tool

Notes

This injector has an internal filter that cannot be removed or replaced

GASOLINE DIRECT INJECTION

Service Items



**Porsche
Continental GDI**

	ASNU 219 Filter Basket
	ASNU 193B Top O-Ring
	ASNU 265 White 3.2mm Teflon Seal



Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 133 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

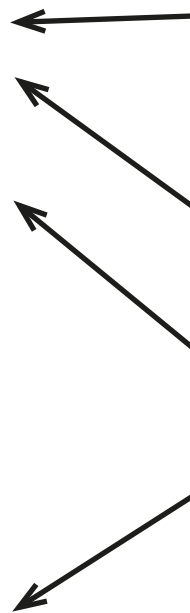
GASOLINE DIRECT INJECTION

Service Items



**Porsche
Continental GDI**

	ASNU 03 or ASNU 03W Standard or S/S Filter Basket
	ASNU 259 Top O-Ring
	ASNU 283 Split Spacer
	ASNU 265 White 3.2mm Teflon Seal



Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes

Ensure you push the filter further in the top of the injector until it fits tight
(use a small socket or similar tool to push it further in)



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



**Porsche/VW/Audi
Continental GDI**

	ASNU 66W Filter Basket
	ASNU 271 Top O-Ring
	ASNU 283B Split Spacer
	ASNU 265B Black 2.8mm Graphite Seal



Service Tools

				
ASNU 70P Hirschmann Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 268 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



ASNU 86S4 Slim Filter Basket Removal Pin required



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



**VW/Audi
Continental GDI**

	ASNU 66W Filter Basket
	ASNU 271 Top O-Ring
	ASNU 283B Split Spacer
	ASNU 202 Rubber Damping Seal
	ASNU 265B Black 2.8mm Graphite Seal

Service Tools

				
ASNU 70P Hirschmann Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 268 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



ASNU 86S4 Slim Filter Basket Removal Pin required



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



**Nissan Qashqai
Continental GDI**

	ASNU 271 Top O-Ring
	ASNU 283B Split Washer
	ASNU 265B Black 2.8mm Graphite Seal



Service Tools

				
ASNU 70P Hirschmann Connector Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 268 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes

This injector has an internal filter that cannot be removed or replaced



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



**VW / Audi
Continental GDI**

	ASNU 03 or ASNU 03W Standard or S/S Filter Basket
	ASNU 14 Top O-Ring
	ASNU 283 Split Spacer
	ASNU 176 Damper Washer / Clip
	ASNU 265 White 3.2mm Teflon Seal

Service Tools

				
ASNU 70P Hirschmann Connector Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes

Ensure you push the filter further in the top of the injector until it fits tight
(use a small socket or similar tool to push it further in)



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



	ASNU 03 or ASNU 03W Standard or S/S Filter Basket
	ASNU 259 Top O-Ring
	ASNU 283 Split Washer
	ASNU 265 White 3.2mm Teflon Seal



**VW
Hitachi GDI**

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



**Subaru
Hitachi GDI**

	ASNU 66W S/S Filter Basket
	ASNU 271 Top O-Ring
	ASNU 283B Split Washer
	ASNU 265E Black 3.6mm Teflon Seal

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 268 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



ASNU 86S4 Slim Filter Basket Removal Pin required



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



ASNU 67
Filter Basket



Denso
GDI

Service Tools

ASNU 70P Hirschmann Connector Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling		

Notes

Remove Top O-Ring & Fit 5 x ASNU 14 O-rings and ASNU 57 Fuel Rail Coupling for testing

GASOLINE DIRECT INJECTION

Service Items



**Toyota/Lexus
Denso GDI**

	ASNU 67 Filter Basket
	ASNU 209 Top O-Ring Retaining Clip
	ASNU 212 O-Ring Retaining Washer
	ASNU 234 Top O-Ring
	ASNU 213 O-Ring Seating Washer
	ASNU 214 O-Ring Spacer (lower)

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 123 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	

Notes



ASNU 86S4 Slim Filter Basket Removal Pin required

GASOLINE DIRECT INJECTION

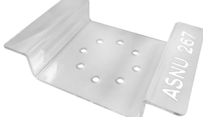
Service Items



**Toyota/Lexus
Denso GDI**

	ASNU 67 Filter Basket
	ASNU 209 Top O-Ring Retaining Clip
	ASNU 213 O-Ring Seating Washer
	ASNU 234 Top O-Ring
	ASNU 213 O-Ring Seating Washer
	ASNU 214 O-Ring Spacer (lower)
	ASNU 265D Teflon Seal

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 123 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 265DT GDI Seal Fitting Tool

Notes



ASNU 86S4 Slim Filter Basket Removal Pin required

Tip - If ASNU 123 adapter is unavailable,
remove top o-ring, fit 2 x ASNU 08 and test
with ASNU 57

GASOLINE DIRECT INJECTION

Service Items



**Mazda/Nissan
GDI**

	ASNU 210 Retaining Clip
	ASNU 271 Top O-Ring
	ASNU 216 Split O-Ring Seating Washer
	ASNU 206 Damping Metal Ring
	ASNU 207 Spacer for Damping Ring
	ASNU 208 Retaining Metal Washer
	ASNU 205 Damper Retaining Clip
	ASNU 265A Black 3.4mm Graphite Seal

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 268 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



**VW
Marelli GDI**

	ASNU 14 Top O-Ring
	ASNU 283 Split Washer
	ASNU 265 White 3.2mm Teflon Seal



Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes

This injector has an internal filter that cannot be removed or replaced



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items

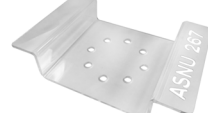


**VW
Marelli GDI**

	ASNU 193A Top O-Ring
	ASNU 283B Split Washer
	ASNU 265 White 3.2mm Teflon Seal



Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes

This injector has an internal filter that cannot be removed or replaced



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



	ASNU 271 Top O-Ring
	ASNU 283B Split Washer
	ASNU 202 Rubber Damping Washer
	ASNU 265A Black 3.4mm Graphite Seal

**Hyundai / Kia
Marelli GDI**

Service Tools

				
ASNU 70KA Harness Adapter Use with ASNU 70	ASNU 156A Adjustable Fuel Rail	ASNU 268 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes

Unknown filter - do not remove



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



**Mazda
Mageti Marelli GDI**

	Coming Soon Middle O-Ring
	ASNU 265 White 3.2mm Teflon Seal
	ASNU 265A Black 3.4mm Graphite Seal



Service Tools

ASNU 70P Hirschmann Connector Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 60 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



**Mazda
Mageti Marelli GDI**

	ASNU 299 Top O-Ring
	ASNU 265A Black 3.4mm Graphite Seal



Service Tools

				
ASNU 70P Hirschmann Connector Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 258 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

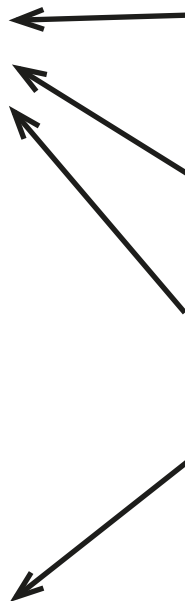
GASOLINE DIRECT INJECTION

Service Items



Delphi GDI

	ASNU 03 or ASNU 03W Standard or S/S Filter Basket
	ASNU 262 Top O-Ring
	ASNU 263 Spiral Washer
	ASNU 265B Black 2.8mm Graphite Seal



Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 258 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



**Vauxhall/Peugeot/Citroen
Delphi GDI**

	ASNU 03 or ASNU 03W Standard or S/S Filter Basket
	ASNU 262 Top O-Ring
	ASNU 263 Spiral Split Washer
	ASNU 265B Black 2.8mm Graphite Seal



Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 258 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

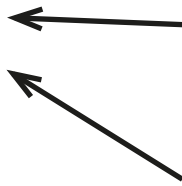
Notes



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



	ASNU 277 Filter Basket
	ASNU 285 Top O-Ring

**VW/Audi/Skoda
Delphi GDI**

Service Tools

				
ASNU 70P Hirschmann Connector Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 258 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 261 GDI Seal Fitting Tool for Delphi GDI 6.4mm

Notes

GASOLINE DIRECT INJECTION

Service Items



**Vauxhall
AC Delco/Continental GDI**

	ASNU 271 Top O-Ring
	ASNU 283B Split Washer
	ASNU 211 Fuel Rail Spacer Clip
	ASNU 265B Black 2.8mm Graphite Seal



Service Tools

				
ASNU 70P Hirschmann Connector Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 268 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes

Filter baskets are not serviceable for this injector



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



**Chevrolet
AC Delco GDI**

	ASNU 03 / ASNU 03W Filter Basket
	ASNU 259 Top O-Ring
	ASNU 283C Split Washer
	ASNU 203 Rubber Dust Seal
	ASNU 265A Black 3.4mm Graphite Seal

Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 57 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



**GMC/Chevrolet
GDI**

	ASNU 03 or ASNU 03W Standard or S/S Filter Basket
	ASNU 262 Top O-Ring
	ASNU 263 Spiral Split Washer
	ASNU 223 GM GDI Lower Seal
	ASNU 265B Black 2.8mm Graphite Seal



Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 258 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



**Honda
Keihin GDI**

	ASNU 66W Filter Basket
	ASNU 271 Top O-Ring
	ASNU 284 Split Washer
	ASNU 265A Black 3.4mm Graphite Seal



Service Tools

				
ASNU 70P Hirschmann Connector Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 268 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	ASNU 266 GDI Seal Fitting Tool

Notes



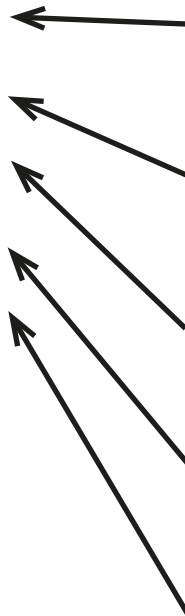
ASNU 86S4 Slim Filter Basket Removal Pin required



Tip - Fit ASNU 07
Combustion Seal
Protective Sleeve
after Servicing

GASOLINE DIRECT INJECTION

Service Items



	ASNU 03 or ASNU 03W Standard or S/S Filter Basket
	ASNU 296 Top Split Washer
	ASNU 218 Top O-Ring
	ASNU 297 Middle Split Washer
	ASNU 298 Lower Split Washer

**Mazda
GDI**

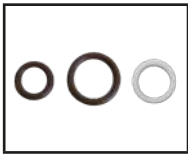
Service Tools

				
ASNU 70 Universal Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 231 Fuel Rail Coupling	ASNU 267 GDI Cleaning Tray	

Notes

GASOLINE DIRECT INJECTION

Service Items



ASNU 248
Optimax Seal Kit

Mercury Marine
Optimax GDI

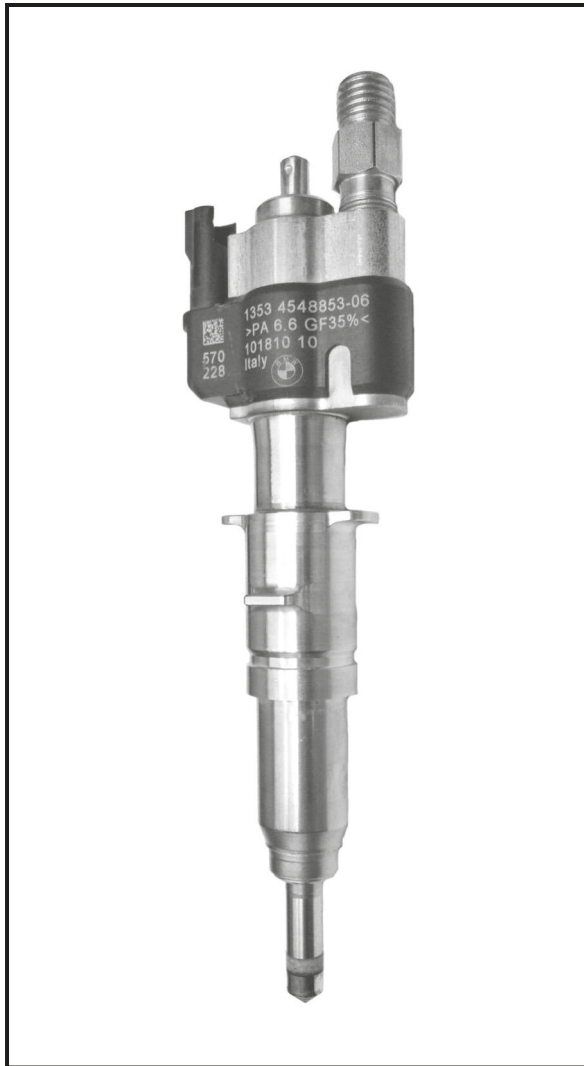
Service Tools

				
ASNU 70 Universal Harness	ASNU 156A Adjustable Fuel Rail	ASNU 68 Adapter coupling	ASNU 95B Cleaning Tray	ASNU 248A Teflon Seal Installation Tool

Notes

PIEZO INJECTORS

Service Items



**BMW
Siemens Piezo**

	ASNU 219 Siemens Piezo Filter Basket
	ASNU 265 White 3.2mm Teflon Seal



ASNU 07
Combustion Seal
Protective Sleeve

Service Tools

				
ASNU 124 Piezo Injector Harness	ASNU 120 Quick Connect Fuel Rail	ASNU 121 Fuel Rail Coupling	ASNU 266 GDI Seal Fitting Tool	ASNU 219T Filter Fitting Tool

Notes

To test & service this injector you will need the ASNU Piezo box in conjunction with your ASNU Classic GDI machine

PIEZO INJECTORS

Service Items



**Nissan/Mercedes
Bosch Piezo**

	ASNU 123B Top O-Ring
	ASNU 265 White 3.2mm Teflon Seal
	ASNU 123A Vehicle Fuel Rail O-Ring
	ASNU 283B Vehicle Fuel Rail Washer



Service Tools

				
ASNU 124 Piezo Injector Harness	ASNU 156A Adjustable Fuel Rail	ASNU 123 Fuel Rail Coupling	ASNU 266 GDI Seal Fitting Tool	ASNU 07 Combustion Seal Protective Sleeve

Notes

To test & service this injector you will need the ASNU Piezo box in conjunction with your ASNU Classic GDI machine

GASOLINE DIRECT INJECTION



FICHT INJECTOR



E-TEC INJECTOR



ASNU 185SK
Seal Kit for E-TEC

CLEAN & TEST THE INJECTORS USING THE ASNU 2 STROKE GDI BOX & FOLLOW
THE INSTRUCTIONS SUPPLIED

NOTES:



FICHT & E-TEC INJECTORS CAN ONLY BE SERVICED AND
CHECKED USING THE ASNU 2 STROKE GDI ADAPTOR
BOX IN CONJUNCTION WITH AN ASNU CLASSIC GDI OR
ASNU GDI ADAPTOR BOX AND ASNU CLASSIC.

PIEZO

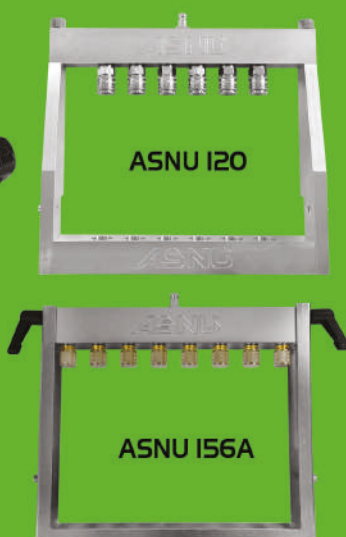
PETROL/GASOLINE



SIEMENS



BOSCH



ASNU I24



PIEZO GDI ADAPTER BOX

ASNU PIEZO

Diagnosing Injector Performance

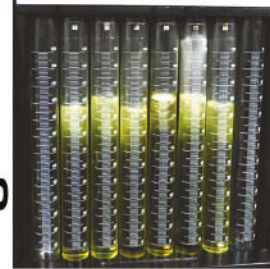
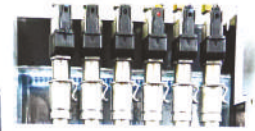
Piezo injector is the current system of choice of major executive vehicle manufacturers. Piezo injectors can respond so quickly that they can allow the vehicle to run at incredible air/fuel ratios of up to 60:1 in some engines. Compared to standard vehicles running at 14:1 air/fuel ratios, this means the minimum amount of fuel is used and the exhaust emissions are virtually non-existent, while still maintaining excellent drivability and performance. As you can imagine, the performance of these injections is critical, maintenance should **not** be an option, it should be **mandatory**.

How often do you check your Piezo injectors?

Piezo injections offer performance, driveability, economy and the ultimate in exhaust emissions.



How do
you
test your
Piezo injectors?



Equipment Included in Piezo Adapter Box



Adjustable Fuel Rail



Siemens Fuel Rail



Injector Harness



Siemens Coupling (QTY 6)



Siemens Coupling (QTY 6)



Connection Harness

Special Features

In conjunction with a world leading vehicle manufacturer, ASNU have created this purpose built adapter box.

- ◆ Easy to use test functions using the latest Piezo technology
- ◆ Easy connections to Classic GDi Machine or GDi adapter Box.
- ◆ Universal fittings for Piezo type injectors
- ◆ Dimensions: 300mm x 190mm x 220mm in a robust metal casing.

ASNUTM = *good as new...*

ASNU Corporation Europe Ltd
65-67 Glencoe Road,
Bushey, Herts
WD23 3DP (UK)
Tel: (+44) 2084204494
Email: enquiries@asnu.com
www.asnu.com

DISTRIBUTOR



GDI Adapter Box



The ASNU GDI Adapter Box is designed to work with all ASNU produced machines.

The GDI systems operate in SEQUENTIAL mode; firing fuel to each injector in turn directly in to the combustion chamber, as opposed to the conventional SIMULTANEOUS mode as used in most manifold injection systems.

The ASNU GDI Adapter Box is designed to work with all currently produced injectors. As the Gasoline engine develops into the GDI production, ASNU will work to maintain the system with updates as the new systems are introduced.

To enable the user to analyse the fuel spray pattern easier and measure the fuel flow rate more accurately, the ASNU GDI Adapter Box has a specific range of settings that will enable the user to check the injectors electronic operation, clearly see the injectors spray pattern form and accurately measure the injector delivery flow rates.

GDI Adapter Box Features

- Suitable For All Types GDI Injectors
- 18 Various M/S & RPM Test Settings
- Simulates on-car Spray Patterns & Flow Rates
- Tests Up To 8 GDI/FSI Injectors at one time
- Suitable for Standard Manifold Injectors
- Sequential Injector Firing Operation
- Single Injector Selection During Multi Injector Operation
- Injector Inductance Test - Checking Injector Electro Magnetic Circuit
- Injector Leak Down Test
- Ultrasonic Injector Cleaning Cycle
- 12 Language Selection Screen
- Easy to Read LCD Screen
- Membrane Key Pad
- Updates Old ASNU Machine To Latest Specification
- Use with Any ASNU System
- Power Supply - AC Input 90 - 264 V



2 STROKE GDI MARINE ADAPTER BOX



The 2SGDI system has been produced to drive Evinrude and Ficht Direct Injectors with an ASNU Classic GDI machine



Ficht & ETEC Injector Applications:

- Marine (Evinrude, Johnson outboards and Sea Doo jet skis)
- Snow (Ski doo, and Polaris snowmobiles)
- Land (Polaris and Bombardier ATV products)

2 Stroke GDI Box Benefits:

- Run Ficht and ETEC injectors using any ASNU Classic GDI machine / GDI Box
- Recover seized injectors.
- Clean fouled injectors
- Leak test injectors
- Dynamic flow test injectors (pulsing)
- View spray patterns



Injector Driver Technical details:

- Automatic detection of Ficht or ETEC injector connection
 - High voltage drive
 - Uni-directional high current drive (Ficht)
 - Bi-directional high current drive (E-TEC)
- 100 – 5000 injections per minute pulsing range
- 96 – 264Vac 50/60Hz electrical supply range

2 Stroke GDI Box Kit Contents:



ASNU 25GDI
Driver Box



ASNU 147
Mains power lead



ASNU 185D
Ficht & E-TEC Mounting Frame



ASNU 185PH
Pintle Holder



ASNU 185Ficht
Injector Fuel Connection &
Blanking plug for Ficht



ASNU 185ETEC
Injector Fuel Connection
& Blanking plug for E-TEC



ASNU 185T
Cleaning Tray



ASNU 150M
Display Window



ASNU 185F
Injector Harness for
Ficht



ASNU 185E3
Injector Harness for
E-TEC 3-Pin



ASNU 185E2
Injector Harness for
E-TEC 2-Pin



ASNU 125
Adapter box to ASNU
connection cable



ASNU 185SK
E-TEC Seal Kit

In addition to the supplied contents, you will also require:



ASNU Classic GDI /
GDI Box



ASNU 266EXT
Injector Extraction Tool



ASNU 42
Flowrite



ASNU 41
Bioclean

ASNU Corporation Europe Ltd
65-67 Glencoe Road, Bushey, Hertfordshire, WD23 3DP
Tel: +44 (0) 208 4204494 Email: enquiries@asnu.com, Web: www.asnu.com

ACCESSORIES & SPARES

ASNU REMOTE CONTROL SOFTWARE & Optional Variable Voltage add-on box

Introducing the ASNU Remote Control Software

The Remote Control software is designed to work alongside the ASNU Classic GDI. The Asnu Classic GDI machine is pre-programmed with a limited set of injector testing settings, so running the ASNU Remote Control Software with the machine will allow you to take more control when testing and servicing your injectors and replicate behaviour much closer to on-vehicle performance.



Part Numbers:

ASNU Remote Control Software: **ASNU Remote**
ASNU Variable Voltage add-on box: **ASNU 630***



*Followed by UK, EU, USA or AUS depending on power plug requirement

ACCESSORIES & SPARES

Features of the ASNU Remote Control Software

Full control of injector parameters including the following:

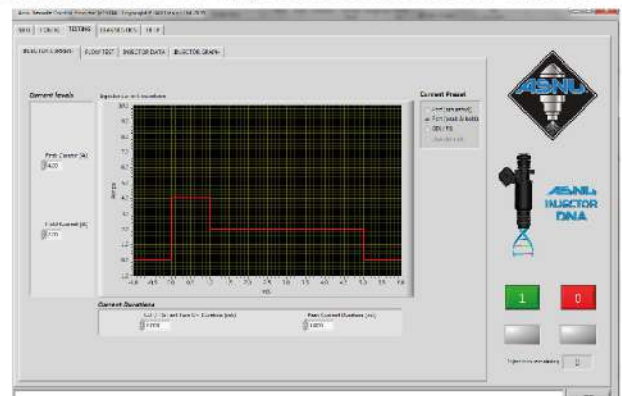
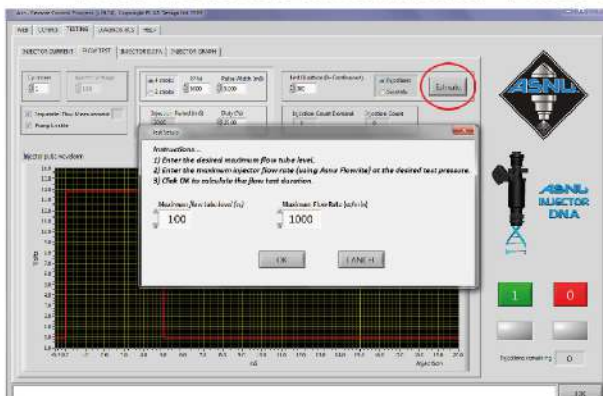
- * Fast Turn On Time (GDI/FSI)
- * Engine Speed
- * Peak Current
- * Pulse Width
- * Hold Current
- * Duty
- * Flow Test Duration (injections or seconds)
- * 4 or 2 Stroke selection
- * Injector Voltage (Optional extra in conjunction with the Variable Voltage USB controlled power supply box. Range 0V - 18V)

Other features include:

- * Ability to automatically estimate the flow test duration that will be required to fill the flow tubes
- * Graphical representation of the injector Offset / Dead-time
- * The ability to generate the Offset / Deadtime data for any injector at different voltages and pressures
- * Ability to match sets of injectors
- * Automatic conversion of flow values from volume in (cc) to flow rate (cc/min and lbs/hour)
- * Flow results and test settings can be saved, viewed and printed (Excel or Excel file compatible reader required)
- * Automatic conversion of flow values from Asnu FlowRite liquid to Vehicle fuel including user adjustment for different fuels
- * Graphical representation of the injector Pulse Width and Duty
- * Graphical representation of the injector current demand
- * Built in User manual and instruction links
- * Ability to save configuration settings
- * Free 10 day trial available

System Requirements:

- ASNU Classic GDI
- Windows 10 or newer (32 and 64 bit supported)
- PC/Laptop with USB port (2 x USB ports required if you order the optional Variable Voltage Box)
- ASNU Classic GDI Firmware version 19.04 or later is required to make use of all the program features
- ASNU Classic GDI with Serial number 423900 or newer otherwise ASNU 631 Upgrade Kit with board is required



ACCESSORIES & SPARES



ASNU Adjustable Injector Test Rail & ASNU GDI Fuel Rail Holder

The ASNU I56A Adjustable Injector Test Rail has been designed to allow the ASNU user to quickly and easily install and test various different physical sized injectors without having to change the test rails they are mounted into.



Operation of the rail is very simple - by simply releasing the clamp levers, you can quickly release the injectors for easy removal and install. Once the injectors are in place, just turn the levers to secure their position.

This will really help reduce the time to test a set of injectors!

Part Number: ASNU I56A

ACCESSORIES & SPARES



ASNU GDI Fuel Rail Holder



The fuel rail holder is deep enough to allow the adjustable securing frame to go down to very small injectors (such as Pico) when installing or removing them. The fuel rail holder makes it easy to work whilst installing and removing injectors, whilst at the same time capturing the residual fuel that is released from the rail when the injectors are removed, which can then be returned to the fuel tank reservoir.



The fuel rail holder can also be used as a waste receptacle when flushing the injectors before re-testing them, ensuring that the water based ultrasonic fluid (that may still be inside the injectors after ultrasonic cleaning) is removed and disposed of so as not to contaminate the oil-based test fluid in the machine.

The GDI Fuel Rail Holder (Part No ASNU 885) is included when you order ASNU I56A Adjustable Injector Test Rail

ASNU GDI Extractor Tool

Part No: ASNU266EXT



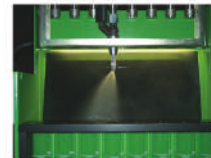
The ASNU GDI Injector Extractor tool has been designed by ASNU for the safe removal of tight fitting or inaccessible GDI injectors. This tool will be an essential, valuable and welcome addition to the tool range of any technician involved with the removal of GDI Injectors.



The GDI Injectors are built to a one micron tolerance; possibly the finest tolerance of any mechanical part on the engine.



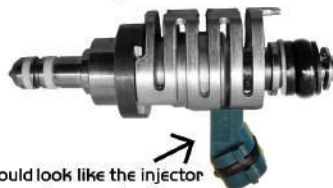
Removing these injectors without the correct tool can possibly alter the seating of the pintle shaft of the injector, which can cause leaking or "sticking" problems for the valves pintle or it can even break the pintle ball off the end of the shaft. Any of these issues will render the injector as scrap and will require a new one. Hopefully the issue will be identified BEFORE it's fitted back in to the engine, where if not, it could cause untold damage to the engine's combustion chamber.



ASNU has tested and serviced more GDI injectors than anyone else in the world and have seen injectors damaged beyond recognition by "Technicians" struggling to remove GDI injectors without the correct tools. The kit in its basic format will safely grip all gasoline solenoid injectors in the grooves designed for extraction purposes.



Broken off connector plug (should look like the injector to the right) due to incorrect removal.



Damaged injectors from using vice grips/pry bar to remove injectors & damaging the outer casing



There is also an optional extra designed for extracting the BMW Piezo Injectors (ASNU 266BMW) As the injectors connecting pipe is offset, it is very easy for technicians to try and remove these injectors, pulling them out at the wrong angle and damaging them without the use of the ASNU tool.



ACCESSORIES & SPARES

INJECTOR COUPLINGS



ASNU 44
EXTRA LONG INJECTOR
COUPLING (14.5MM)



ASNU 45
EXTRA LONG INJECTOR
COUPLING (11MM)



ASNU 47
8MM FEMALE COUPLING FOR
8MM MALE COLD START
INJECTOR



ASNU 48
10MM MALE COUPLING FOR
10MM FEMALE COLD START
INJECTOR



ASNU 49
COLD START INJECTOR
COUPLING (HOSE TYPE)



ASNU 50
10MM FEMALE COUPLING FOR
10MM MALE COLD START
INJECTOR



ASNU 51
COUPLING FOR D-JET HOSE
INJECTOR FOR TESTING
(WITHOUT HOSE FITTED)



ASNU 54
8MM MALE COUPLING FOR
10MM FEMALE K-JET
INJECTOR



ASNU 55
12MM FEMALE COUPLING FOR
12MM MALE K-JET
INJECTOR

ACCESSORIES & SPARES

INJECTOR COUPLINGS



ASNU 56
SLIM COUPLING FOR TESTING
SIEMENS GDI INJECTORS



ASNU 57
INJECTOR COUPLING FOR
STANDARD INJECTORS
(14.5MM)



ASNU 58
INJECTOR COUPLING FOR
TESTING INJECTORS WITH
HOSE FITTED



ASNU 59
SLIM INJECTOR COUPLING FOR
NIPPON/DENSO INJECTORS
(11MM)



ASNU 60
INJECTOR COUPLING FOR
MAZDA GDI SCREW TOP
INJECTORS (ASNU105B INSIDE)



ASNU 68
ADAPTER COUPLING KIT
FOR OPTIMAX MARINE
GDI INJECTOR



ASNU 68A
LOWER INJECTOR ADAPTER
COUPLING SPACER



ASNU 121
QUICK CONNECT COUPLING
FOR SIEMENS PIEZO INJECTORS



ASNU 123
INJECTOR COUPLING FOR
BOSCH PIEZO / DENSO GDI
INJECTORS

ACCESSORIES & SPARES

INJECTOR COUPLINGS



ASNU 133
INJECTOR COUPLING FOR
SIEMENS PORSCHE
GDI INJECTORS



ASNU 134
INJECTOR COUPLING FOR
SCREW TOP BOSCH BMW GDI
INJECTORS (ASNU 30 INSIDE)



ASNU 231
INJECTOR COUPLING FOR
MAZDA/DENSO GDI
INJECTORS



ASNU 231B
INJECTOR COUPLING FOR
BALL TYPE BMW GDI
INJECTORS



ASNU 258
SLIM INJECTOR COUPLING FOR
HYUNDAI/GM/KIA
GDI INJECTORS



ASNU 268
INJECTOR COUPLING FOR
GDI INJECTORS
(13MM)

ACCESSORIES & SPARES

Tools & Spares



ASNU 81
CUSTOM NYLON COVER
FOR ASNU MACHINE



ASNU 84
PINTLE CAP & FILTER
ASSEMBLY TOOL



ASNU 86
FILTER BASKET
REMOVAL TOOL



ASNU 86S
STANDARD
FILTER BASKET REMOVAL
PIN (COMES WITH ASNU 86)



ASNU 86S4
4MM GDI FILTER BASKET
REMOVAL PIN
(COMES WITH ASNU 86)



ASNU 87
CUSTOM FIT
RUBBER MAT
FOR ASNU BENCH



ASNU 88S
FUEL RAIL
HOLDER BUCKET



ASNU 89
FUEL RAIL INSERT PLATE



ASNU 92
INJECTOR SERVICE
REPORT PAD

ACCESSORIES & SPARES

Tools & Spares



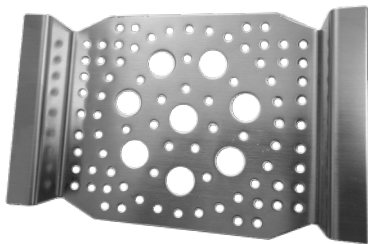
ASNU 95
PERSPEX CLEANING TRAY
FOR K-JETRONIC
INJECTORS



ASNU 95B
PERSPEX CLEANING TRAY
FOR OPTIMAX GDI
INJECTORS



ASNU 97
PERSPEX CLEANING TRAY
FOR SIDE FEED INJECTORS



ASNU 99
METAL CLEANING TRAY
FOR MINI PICO / SIEMENS
INJECTORS



ASNU 150
DISPLAY WINDOW



ASNU 151
CALIBRATION FLUID
TANK COVER



ASNU 153
CLEANING TRAY



ASNU 154
MACHINE INLINE FILTER



ASNU 155
FUEL PUMP
PRE FILTER

ACCESSORIES & SPARES

ASNU Filter Baskets				
	Ring Diameter	Length	Material	Part No
	6mm	6mm	Plastic	ASNU 02
	5.5mm	8mm	Plastic	ASNU 02A
	6mm	10mm	Plastic	ASNU 03
	6mm	10mm	Steel	ASNU 03W
	6.5mm	13mm	Plastic	ASNU 04
	6mm	9.9mm	Stainless	ASNU 03SS6
	7mm	7.3mm	Stainless	ASNU 03SS7
	10.4mm	13mm	Plastic	ASNU 30F

ACCESSORIES & SPARES

ASNU Filter Baskets				
	Ring Diameter	Length	Material	Part No
	4.6mm	12mm	Stainless	ASNU 66W
	4.1mm	14.8mm	Plastic	ASNU 67
	4.5mm	10.6mm	Plastic	ASNU 186
	6mm	11mm	Plastic	ASNU 198
	6.2mm	11.5mm	Plastic	ASNU 199
	5.4mm	15.9mm	Plastic	ASNU 219
	7mm	11.3mm	Plastic	ASNU 136
	5.15mm	8.9mm	Stainless	ASNU 277



WARRANTY DISCLAIMER

Although the information contained within this catalog is believed to be reliable, no warranty (expressed or implied) can be made as to its accuracy or completeness, nor is any responsibility assumed by the seller of the ASNU DIAGNOSTIC TEST BENCH & ULTRASONIC FUEL INJECTOR CLEANER or anyone connected with it for loss or damages suffered through reliance on any information contained in this catalog.

SPECIFICALLY, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER WARRANTY IS MADE OR TO BE IMPLIED WITH RESPECT TO THIS CATALOG AND ITS CONTENTS. IN NO EVENT WILL SELLER BE LIABLE FOR ANY DAMAGES, DIRECT OR INDIRECT, CONSEQUENTIAL OR COMPENSATORY, INCLUDING, WITHOUT LIMITATION, LOST PROFITS, FOR ANY REPRESENTATIONS, BREACHES OR DEFAULTS ARISING OUT OF THE USE OF THIS CATALOG.

Customer agrees to indemnify seller and hold it harmless against all claims and damages, including without limitation, reasonable attorney's fees arising from the use of this catalog, unless such claims or damages result from the infringement of any copyright or other proprietary right of any third party.

TECHNICAL INFORMATION

Due to the wide design variety of injectors between different manufacturers, we strive to maintain the information in this catalog up to date.

We welcome recommendations and comments regarding the ASNU machine functionality, maintenance, and pictures or samples of injectors that require study & adapter development that do not appear in this catalogue.

Please e-mail: enquiries@asnu.com

Please visit our web site: www.asnu.com



ASNU Corporation Europe Ltd
Tel: +44 (0) 208 420 4494
E-mail: orders@asnu.com Web: www.asnu.com