TABLE OF CONTENTS

General Index - Fuel Injectors & Testing Adapters ........................................ Pages 2-8

Specialized Guide - Top Feed Injectors .......................................................... Pages 9-42

Specialized Guide - Side Feed Injectors ......................................................... Pages 43-54

Gasoline Direct Injectors (Gdi) ....................................................................... Pages 55-68

Piezo Injectors .................................................................................................. Pages 69-70

Asnu Machine - Adapters, Spares & Accessories ......................................... Pages 71-87

Warranty Disclaimer ......................................................................................... Page 88
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 SEND A FAX TO: +44 (0) 208 420 4495
or email: asnu.sales@asnu.com

BOSCH TYPE EV1.3 BODY PAGE 9
GM MULTI-PORT MULTEC PAGE 10
BOSCH K-JET MECHANICAL PAGE 11
HONDA KEIHIN STYLE PAGE 12

BOSCH D-JET EV1.0 BODY PAGE 13
BOSCH D-JET EV1.0 BODY PAGE 14
BOSCH CHIMNEY STYLE PINTLE CAP PAGE 15
FUEL INJECTOR INDEX
ADAPTERS & COMPONENTS

BOSCH EV1.0
FORD/MAZDA
PAGE 16

BOSCH EV1.0
MAZDA
PAGE 17

BOSCH EV1.0
TOYOTA/MAZDA
PAGE 18

BOSCH EV1.0
MITSUBISHI/MAZDA
PAGE 19

DENSO FORD / MAZDA / KIA
PAGE 20

LUCAS
PAGE 21

SAGEM
PAGE 22

SIEMENS
PAGE 23

WEBER MPI
PAGE 24

DELPHI MPI
PAGE 25

DELPHI MPI
PAGE 26

BOSCH EV6
PAGE 27
FUEL INJECTOR INDEX
ADAPTERS & COMPONENTS

SUZUKI MULTIPORT
PAGE 40

MITSUBISHI
MULTIPORT
PAGE 41

TOYOTA MULTIPORT
PAGE 42

JECS TYPE TOYOTA
PAGE 43

JECS TYPE NISSAN
PAGE 44

NISSAN SUBARU SPI
PAGE 45

GM TBI MAXI
PAGE 46

GMI TBI 700 MULTEC
DELPHI / ROCHESTER
DAEWOO - PAGE 47

MAGNETI MARELLI
WEBER
PAGE 48

NISSAN NAVARRA /
PATHFINDER
PAGE 49

MAZDA / FORD /
DENSO
PAGE 50

EV8
BOSCH
PAGE 51
IMPORTANT - INJECTOR SERVICE INFORMATION

- QUALIFY THE INJECTORS TO BE SERVICED.
- CORROSION & RUST IN INJECTOR INLET CANNOT BE PROPERLY CLEANED.
- INJECTORS WITH BROKEN OR DAMAGED PINTLE 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. REFER TO THE INJECTOR INDEX.
- ADAPTER APPLICATIONS: REFER TO PAGES TO THE INJECTOR INDEX.
- ACCESSORY INFORMATION: REFER TO PAGES 62-74.
- 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 PARAFFIN OR LIGHT OIL TO PREVENT SEIZING OF INTERNAL COMPONENTS. REFER TO ASNU OPERATION MANUAL FOR PROPER PROCEDURE.
- RED PROTECTIVE CAPS MUST BE INSTALLED TO PREVENT CONTAMINATION & PRESERVE INJECTOR SHELF LIFE. SEE INJECTOR INDEX TO SELECT PROPER PROTECTIVE CAPS.
- TECHNICAL ASSISTANCE: asnu.sales@asnu.com

EMAIL: asnu.sales@asnu.com
### TOP FEED INJECTORS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Component Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASNU03</td>
<td>Filter</td>
</tr>
<tr>
<td>ASNU08</td>
<td>O-Ring</td>
</tr>
<tr>
<td>ASNU27</td>
<td>Pintle Cap (BMW) Yellow</td>
</tr>
<tr>
<td>ASNU36</td>
<td>BMW Cap (3mm hole) Yellow</td>
</tr>
<tr>
<td>ASNU26</td>
<td>Twin Hole Pintle Cap Yellow</td>
</tr>
<tr>
<td>ASNU29</td>
<td>Pintle Cap Yellow</td>
</tr>
<tr>
<td>ASNU13</td>
<td>Bosch VW 3mm hole Green</td>
</tr>
<tr>
<td>ASNU09</td>
<td>Yellow Washer</td>
</tr>
<tr>
<td>ASNU33</td>
<td>Clip</td>
</tr>
<tr>
<td>ASNU25</td>
<td>Cap (2 Req)</td>
</tr>
<tr>
<td>ASNU23</td>
<td>O-Ring (Lower)</td>
</tr>
<tr>
<td>ASNU70</td>
<td>Harness</td>
</tr>
</tbody>
</table>

Use Test Adapter ASNU57 with filter in Connect Injectors with ASNU70 Harness BOSCH TYPE EV1.3 Body

Adapter ASNU57 tests injectors with filter installed

### NOTES:
# TOP FEED INJECTORS

<table>
<thead>
<tr>
<th>ASNU03 FILTER</th>
<th>ASNU14 O-RING (2 REQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASNU25 CAP (2 REQ)</td>
<td>ASNU255 SPACER</td>
</tr>
<tr>
<td>Adapter ASNU57 tests injectors with filter installed</td>
<td>ASNU70 UNIVERSAL HARNESS</td>
</tr>
</tbody>
</table>

**NOTES:**

- Use Test Adapter ASNU57 with filter in
- Connect Injectors with ASNU70 Harness
- GM MULTI-PORT MULTEC INJECTOR
## TOP FEED INJECTORS

<table>
<thead>
<tr>
<th>Adapter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASNU12</td>
<td>O-RING</td>
</tr>
<tr>
<td>ASNU12B</td>
<td>O-RING</td>
</tr>
<tr>
<td>ASNU225</td>
<td>O-RING</td>
</tr>
<tr>
<td>ASNU25</td>
<td>CAP</td>
</tr>
<tr>
<td>ASNU24</td>
<td>CAP</td>
</tr>
<tr>
<td>ASNU227</td>
<td>MOUNT SEAL - VARIOUS</td>
</tr>
<tr>
<td>ASNU228</td>
<td>BOOT - SOME BMW</td>
</tr>
</tbody>
</table>

Use Adapter ASNU50 or ASNU54 or ASNU55

BOSCH MECHANICAL FUEL INJECTOR
K-JETRONIC & COLD START VALVES

**NOTES:**
**NOTES:**

Use Test Adapter ASNU59 with filter in

Connect Injectors with ASNU70 Harness

HONDA MULTI-PORT KEIHIN STYLE

PINTLE CAP CANNOT BE REPLACED.

DO NOT REMOVE FOR INJECTOR CLEANING NOR TESTING

Adapter ASNU59 tests injectors with filter installed

ASNU70 UNIVERSAL HARNESS
**TOP FEED INJECTORS**

<table>
<thead>
<tr>
<th><strong>ASNU07</strong></th>
<th><strong>ASNU03</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>PINTLE CAP</td>
<td>FILTER</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>ASNU16</strong></th>
<th><strong>ASNU24</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>O-RING</td>
<td>CAP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>ASNU11</strong></th>
<th><strong>ASNU25</strong></th>
<th><strong>ASNU34</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>SEAL</td>
<td>CAP</td>
<td>FERRULE</td>
</tr>
</tbody>
</table>

**Use Adapter ASNU58 with hose installed**

**Connect Injectors with ASNU70 Harness**

**MERCEDES / JAGUAR / VOLVO WITH BOSCH D-JETRONIC EV1.0 BODY**

- Adapter ASNU58 tests injectors with hose & filter installed
- Adapter ASNU51 tests injectors with filter removed
- ASNU70 UNIVERSAL HARNESS

**NOTES:**
Use Adapter ASNU58 with hose installed

Connect Injectors with ASNU70 Harness

GM / JAGUAR / FIAT / ALFA WITH BOSCH D-JETRONIC European Applications

Adapter ASNU58 tests injectors with hose & filter installed

Adapter ASNU51 tests injectors with filter removed

ASNU70 UNIVERSAL HARNESS

NOTES:
### TOP FEED INJECTORS

<table>
<thead>
<tr>
<th>ASNU09 WASHER</th>
<th>ASNU08 O-RING</th>
<th>ASNU28 PLASTIC PINTLE CAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASNU03 FILTER</td>
<td>ASNU33 CLIP</td>
<td></td>
</tr>
<tr>
<td>ASNU25 CAP</td>
<td>ASNU24 CAP</td>
<td></td>
</tr>
</tbody>
</table>

**BOSCH CHIMNEY STYLE PINTLE CAP**

Adapter ASNU57 tests injectors with filter installed

**ASNU70 UNIVERSAL HARNESS**

### NOTES:
Use Test Adapter ASNU59 with filter in

Connect Injectors with ASNU70 Harness

BOSCH EV1.0 BODY Ford / Mazda Applications

Adapter ASNU59 tests injectors with filter installed

ASNU70 UNIVERSAL HARNESS

NOTES:
**TOP FEED INJECTORS**

<table>
<thead>
<tr>
<th><strong>ASNU17</strong> O-RING</th>
<th><strong>ASNU15</strong> UPPER BUSHING</th>
<th><strong>ASNU23B</strong> LOWER BUSHING w/CERAMIC INSERT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ASNU07</strong> PINTLE CAP</td>
<td><strong>ASNU03</strong> FILTER</td>
<td></td>
</tr>
<tr>
<td><strong>ASNU24</strong> CAP</td>
<td><strong>ASNU25</strong> CAP</td>
<td></td>
</tr>
</tbody>
</table>

Use Test Adapter ASNU59 with filter in

Connect Injectors with ASNU70 Harness

BOSCH EV1.0 BODY
Mazda Applications

Adapter ASNU59 tests injectors with filter installed

ASNU70 UNIVERSAL HARNESS

**NOTES:**
**TOP FEED INJECTORS**

<table>
<thead>
<tr>
<th>ASNU17</th>
<th>ASNU18</th>
<th>ASNU15</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-RING</td>
<td>SEAL</td>
<td>BUSHING</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ASNU03</th>
<th>ASNU38B</th>
<th>ASNU07</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILTER</td>
<td>PINTLE CAP</td>
<td>PINTLE CAP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ASNU24</th>
<th>ASNU25</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAP</td>
<td>CAP</td>
</tr>
</tbody>
</table>

Use Test Adapter ASNU59 with filter in.

Connect Injectors with ASNU70 Harness.

BOSCH EV1.0 BODY

Toyota/Mazda Applications

Adapter ASNU59 tests injectors with filter installed.

ASNU70 UNIVERSAL HARNESS

---

**NOTES:**
Use Test Adapter ASNU59 with filter in
Connect Injectors with ASNU70 Harness
Bosch EV1.0 Body Chrysler Mitsubishi Mazda Toyota

Adapter ASNU59 tests injectors with filter installed

ASNU70 Universal Harness

Notes:
Use Test Adapter ASNU59 with filter in
Connect Injectors with ASNU70 Harness

DENSO
Ford / Mazda / Kia

Adapter ASNU59 tests injectors with filter installed

ASNU03 FILTER
ASNU07 PINTLE CAP
ASNU17 O-RING
ASNU15 BUSHING
ASNU18 SEAL
ASNU25 CAP
ASNU24 CAP
ASNU70 UNIVERSAL HARNESS

NOTES:
Use Test Adapter ASNU57 with filter in

Connect Injectors with ASNU70 Harness

LUCAS DISC INJECTOR

Adapter ASNU57 tests injectors with filter installed

ASNU70 UNIVERSAL HARNESS

NOTES:
**TOP FEED INJECTORS**

ASNU14  
TOP O-RING  
Retainer should not be removed

ASNU21  
BOTTOM O-RING

ASNU03  
FILTER

ASNU89  
ADAPTER PLATE  
(USE TO HOLD BOTTOM OF INJECTORS IN TEST RAIL)

LUCAS BMW AIR ASSISTED

Adapter ASNU57  
tests injectors with filter installed

ASNU70  
UNIVERSAL HARNESS

NOTES:
NOTES:

DO NOT PULSE SIEMENS DEKA INJECTORS DURING CLEANING
### TOP FEED INJECTORS

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASNU04</td>
<td>FILTER w/wider crush ring</td>
</tr>
<tr>
<td>ASNU05</td>
<td>PINTLE CAP</td>
</tr>
<tr>
<td>ASNU09</td>
<td>SPACER</td>
</tr>
<tr>
<td>ASNU08</td>
<td>O-RING</td>
</tr>
<tr>
<td>ASNU24</td>
<td>CAP</td>
</tr>
<tr>
<td>ASNU25</td>
<td>CAP</td>
</tr>
<tr>
<td>ASNU57</td>
<td>Adapter tests injectors with filter installed</td>
</tr>
<tr>
<td>ASNU70</td>
<td>UNIVERSAL HARNESS</td>
</tr>
</tbody>
</table>

**Use Test Adapter ASNU57 with filter in**

**Connect Injectors with ASNU70 Harness**

**WEBER MPI**

**NOTES:**
NOTES:

Use Test Adapter ASNU57
Use custom harness ASNU116
DELPHI MULTEC MULTIPORT

ADAPTER ASNU57
(Tests injectors with filter installed)

CUSTOM HARNESS ASNU116
(Tests up to 8 injectors)

ASNU239 O-RING (LOWER)
ASNU14 O-RING (UPPER)
ASNU03 FILTER

ASNU89 ADAPTER PLATE
(USE TO HOLD BOTTOM OF INJECTORS IN TEST RAIL)

ASNU254 PINTLE CAP BLACK
Use Test Adapter ASNU44
Use custom harness ASNU116
DELPHI MULTEC MULTIPORT

Adapter ASNU44
Extra Long Adapter
tests injectors with filter installed

CUSTOM HARNESS ASNU116
(Tests up to 8 injectors)
### TOP FEED INJECTORS

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASNU14</td>
<td>O-RING (2 Req.)</td>
</tr>
<tr>
<td>ASNU03</td>
<td>FILTER</td>
</tr>
<tr>
<td>ASNU192</td>
<td>PINTLE CAP</td>
</tr>
<tr>
<td>ASNU89</td>
<td>ADAPTER PLATE (USE TO HOLD BOTTOM OF INJECTORS IN TEST RAIL)</td>
</tr>
<tr>
<td>ASNU57</td>
<td>Use Test Adapter ASNU57 with filter in BOSCH EV6 MULTIPORT</td>
</tr>
<tr>
<td>ADAPTER ASNU57</td>
<td>tests injectors with filter installed</td>
</tr>
<tr>
<td>ASNU70</td>
<td>UNIVERSAL HARNESS</td>
</tr>
</tbody>
</table>

### NOTES:
# TOP FEED INJECTORS

<table>
<thead>
<tr>
<th>ASNU14</th>
<th>ASNU191</th>
<th>ASNU03</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-RING (2 Req.)</td>
<td>PINTLE CAP Short Chimney Style (Orange)</td>
<td>FILTER</td>
</tr>
</tbody>
</table>

- **ASNU89 ADAPTER PLATE**
  - (USE TO HOLD BOTTOM OF INJECTORS IN TEST RAIL)

- **Use Test Adapter ASNU57 with filter in BOSCH EV6 MULTIPORT**

- **ADAPTER ASNU57**
  - tests injectors with filter installed

- **ASNU70 UNIVERSAL HARNESS**

## NOTES:
TOP FEED INJECTORS

**NOTES:**

Use Test Adapter ASNU57 with filter in BOSCH EV6 MULTIPORT

**ASNU89 ADAPTER PLATE**
(USE TO HOLD BOTTOM OF INJECTORS IN TEST RAIL)

**ASNU14 O-RING**
(2 Req.)

**ASNU190 PINTLE CAP**
Flat Washer Style (Orange)

**ASNU03 FILTER**

**ASNU57 ADAPTER**
Tests injectors with filter installed

**ASNU70 UNIVERSAL HARNESS**
### TOP FEED INJECTORS

<table>
<thead>
<tr>
<th>Use Test Adapter ASNU44 with filter in BOSCH EV14 MULTIPORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASNU14 TOP O-RING Retainer should not be removed</td>
</tr>
<tr>
<td>INTERNAL FILTER NOT REPLACEABLE</td>
</tr>
<tr>
<td>ASNU89 ADAPTER PLATE (USE TO HOLD BOTTOM OF INJECTORS IN TEST RAIL)</td>
</tr>
<tr>
<td>ASNU247 LOWER O-RING</td>
</tr>
<tr>
<td>ADAPTER ASNU44 Tests injectors with filter installed</td>
</tr>
<tr>
<td>ASNU70 UNIVERSAL HARNESS</td>
</tr>
</tbody>
</table>

### NOTES:
# TOP FEED INJECTORS

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td>ASNU17 O-RING (2 REQ)</td>
<td>ASNU03 FILTER</td>
<td><img src="image2.png" alt="Image" /></td>
</tr>
<tr>
<td><img src="image3.png" alt="Image" /></td>
<td>ASNU242 INSULATOR</td>
<td>ASNU289B PINTLE CAP</td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
</tbody>
</table>

*Use Test Adapter ASNU59 with filter in*

*Connect Injectors with ASNU70 Harness*

*ASRAM - TOYOTA - LEXUS PRADO / 4-RUNNER / GX LAND CRUISER (EUROPE)*

*ADAPTER ASNU59 Tests injectors with filter installed*

*ASNU70 UNIVERSAL HARNESS*

## NOTES:
Use Test Adapter ASNU59 with filter in
Connect Injectors with ASNU70 Harness
DENSO - LEXUS ES / GS

ADAPTER ASNU59 Tests injectors with filter installed
ASNU70 UNIVERSAL HARNESS

NOTES:
Use Test Adapter ASNU45 with filter in

Connect injectors with ASNU70 Harness

TOYOTA COROLLA / YARIS / NEW SENSATION / CELICA / TERIOS

TOYOTA MULTIPORT
TOP FEED INJECTORS

Use Test Adapter ASNU44 with filter in HONDA KEIHIN MULTIPORT

RIGHT FEED INJECTORS

ASNU14 O-RING (2 Req.)

ASNU30F FILTER

ASNU89 ADAPTER PLATE
(USE TO HOLD BOTTOM OF INJECTORS IN TEST RAIL)

ASNU70 UNIVERSAL HARNESS

ADAPTER ASNU44
Extra Long Adaptor tests injectors with filter installed

ASNU90/HA012 Harness Adaptor
(required with the ASNU70 for Suzuki motorbike injectors)

NOTES:
## TOP FEED INJECTORS

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ASNU14 O-RING (Qty 2)</td>
<td>LOWER O-RING - UNDER DEVELOPMENT</td>
</tr>
<tr>
<td></td>
<td>ASNU03 FILTER</td>
<td></td>
</tr>
</tbody>
</table>

- **ASNU89 ADAPTER PLATE**
  (USE TO HOLD BOTTOM OF INJECTORS IN TEST RAIL)

- **ASNU70 UNIVERSAL HARNESS**

### Use Test Adapter ASNU57 with filter in

**HONDA KEIHIN**
- **CIVIC SI**
- **CRV**

### Lower O-Ring under development

### NOTES:
Use Test Adapter ASNU59 with filter in
Connect injectors with ASNU70 Harness

TOYOTA COROLLA / YARIS / NEW SENSATION / CELICA / TERIOS

TOYOTA MULTIPORT

NOTES:
NOTES:

Use Test Adapter ASNU44 with filter in
Connect Injectors with ASNU70 Harness
FIAT / PALIO / SIENNA / UNO
RENAULT MEGANE
SEAT CORDOVA - VW GOLF
WEBER MULTIPORT

TOP FEED INJECTORS

ASNU14
O-RING (2 Req.)

ASNU04
FILTER
w/wider crush ring

ASNU89
ADAPTER PLATE
(USE TO HOLD BOTTOM OF INJECTORS IN TEST RAIL)

ADAPTER ASNU44
Tests injectors with filter installed

ASNU70
UNIVERSAL HARNESS
NOTES:

- 01F003A VAL 348004 → BOSCH 0280156328
- 01F005A VAL 348006 → BOSCH 0280156329
- 01F002A VAL 348001 → BOSCH 0280156357
## TOP FEED INJECTORS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASNU03</td>
<td>FILTER</td>
</tr>
<tr>
<td>ASNU17</td>
<td>O-RING (2 REQ)</td>
</tr>
<tr>
<td>ASNU15</td>
<td>BUSHING</td>
</tr>
<tr>
<td>ASNU18</td>
<td>GROMMET</td>
</tr>
</tbody>
</table>

**NOTES:**

- Use Test Adapter ASNU59 with filter in.
- Connect Injectors with ASNU70 Harness.
- TOYOTA SUZUKI MULTIPORT.
- ADAPTER ASNU59 Tests injectors with filter installed.
- ASNU70 UNIVERSAL HARNESS.
### TOP FEED INJECTORS

| Use Test Adapter ASNU59 with filter in |
| ASNU17 O-RING |
| ASNU18 LOWER SEAL |
| ASNU 659 UPPER SEAL |
| Connect Injectors with ASNU70 Harness |
| SUZUKI GRAND VITARA |
| SUZUKI MULTIPORT |
| ADAPTER ASNU59 Tests injectors with filter installed |
| ASNU70 UNIVERSAL HARNESS |

**NOTES:**
### Use Test Adapter

**ASNU59 with filter in**

### Connect Injectors with

**ASNU70 Harness**

#### MITSUBISHI LANSER / SPACE / WAGON / MX / MF / GALANT

#### MITSUBISHI MULTIPOINT

**ADAPTER ASNU59**

Tests injectors with filter installed

**ASNU59**

**FILTER**

**ASNU18 SEAL**

**ASNU16 SEAL** (either is required for various applications)

**ASNU15 BUSHING**

**ASNU70 UNIVERSAL HARNESS**

### NOTES:
Use Test Adapter ASNU59 with filter in
Connect injectors with ASNU70 Harness

TOYOTA COROLLA / YARIS / NEW SENSATION / CELICA / TERIOS

TOYOTA MULTIPORT

ADAPTER ASNU59 Tests injectors with filter installed

NOTES:
Use Test Adapter ASNU104 (block holds 6 injectors)

Re-use old filter

Connect Injectors with ASNU70 Harness

JECS TYPE TOYOTA

ASNU104C O-RING

ASNU104B O-RING

ASNU104A O-RING

ASNU104D INSULATOR

ASNU24 CAP

ASNU104 ADAPTER BLOCK

ASNU70 UNIVERSAL HARNESS

NOTES:
Use Test Adapter ASNU103 (block holds 6 injectors, blanking off plugs available for 4 cylinder models)

Connect Injectors with ASNU70 Harness

JECS TYPE
NISSAN

NOTES:
NOTES:

Use Test Adapter ASNU79
(single block)
Use Test Adapter ASNU75
(4 inj. block)
Use Adapter ASNU106
(6 inj. block)
Connect injectors with
ASNU70 Harness
Nissan / Subaru SPI

ASNU106C
Filter
ASNU07
Pintle Cap
ASNU106E
Seal

ASNU106B
LOWER O-RING
ASNU61A
UPPER O-RING
ASNU24
Cap

ASNU106
6 INJ. BLOCK
Use Test Adapter ASNU71 (single injector block includes custom harness ASNU71H) or Use Test Adapter ASNU101 (twin injector block includes custom harness ASNU101H)

GM TBI MAXI

NOTES:
Use Test Adapter ASNU72 (single injector block w/harness)

Use Test Adapter ASNU115 (4 injector block w/harness)

GM TBI 700 MULTEC
DELPHI / ROCHESTER
DAEWOO

ASNU24 CAP

ASNU64E FILTER (UPPER)

ASNU64A O-RING, UPPER (ROCHESTER)

ASNU64F FILTER (LOWER)

ASNU64B O-RING

ASNU72 ADAPTER BLOCK

ASNU115 4 INJ. ADAPTER BLOCK WITH CUSTOM HARNESS ASNU115H

NOTES:
### SIDE FEED INJECTORS

<p>| ASNU64C | ASNU64A |</p>
<table>
<thead>
<tr>
<th>FILTER (UPPER) - WEBER</th>
<th>O-RING UPPER</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASNU64D</td>
<td>ASNU64H</td>
</tr>
<tr>
<td>FILTER (LOWER) - WEBER</td>
<td>O-RING</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>ASNU64G</td>
<td>ASNU24</td>
</tr>
<tr>
<td>FILTER (LOWER) - WEBER</td>
<td>CAP</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>ASNU72</td>
<td>ASNU115</td>
</tr>
<tr>
<td>ADAPTER BLOCK</td>
<td>4 INJ. ADAPTER BLOCK WITH CUSTOM HARNESS ASNU115H</td>
</tr>
</tbody>
</table>

**Use Test Adapter ASNU72**  
(single injector block w/harness)

**Use Test Adapter ASNU115**  
(4 injector block w/harness)

**MAGNETI MARELLI WEBER**

---

**NOTES:**
| **ASNU105A**  
| **O-RING**  
| **(UPPER)**  
| **ASNU105B**  
| **O-RING**  
| **(LOWER)**  
| **ASNU105C**  
| **FILTER**  
| **ASNU25**  
| **CAP**  

---

**Use Test Adapter ASNU105**  
(block holds 4 injectors)

**Connect injectors with**  
ASNU70 universal harness

**NISSAN NAVARA / PATHFINDER**

---

**ASNU105**  
**ADAPTER BLOCK**

**ASNU70**  
**UNIVERSAL HARNESS**

---

**NOTES:**

---
### NOTES:

Use Test Adapter ASNU78 (block holds 4 injectors Ford Zetec)

or

Test Adapter ASNU110 (block holds 6 injectors for Chrysler 3.5L)

Connect injectors with ASNU70 universal harness

MAZDA / FORD / DENSO
<table>
<thead>
<tr>
<th>ASNU78 ADAPTER BLOCK (Holds 4 Injectors - Ford &amp; VW)</th>
<th>ASNU114 MULTIPOINT PIN TYPE HARNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use Test Adapter ASNU78 (block holds 4 injectors Ford &amp; VW) or Test Adapter ASNU110 (block holds 6 injectors for Chrysler 3.5L) Connect injectors with ASNU70 UNIVERSAL HARNESS EV8 BOSCH</td>
<td></td>
</tr>
<tr>
<td>ASNU62A O-RING (UPPER)</td>
<td>ASNU14 O-RING (LOWER)</td>
</tr>
<tr>
<td>ASNU70 UNIVERSAL HARNESS</td>
<td></td>
</tr>
<tr>
<td>ASNU110 ADAPTER BLOCK (Holds 6 Injectors - Chrysler 3.5L)</td>
<td></td>
</tr>
<tr>
<td>ASNU65C FILTER</td>
<td></td>
</tr>
<tr>
<td>ASNU62A O-RING (UPPER)</td>
<td>ASNU14 O-RING (LOWER)</td>
</tr>
<tr>
<td>ASNU70 UNIVERSAL HARNESS</td>
<td></td>
</tr>
<tr>
<td>ASNU110 ADAPTER BLOCK (Holds 6 Injectors - Chrysler 3.5L)</td>
<td></td>
</tr>
<tr>
<td>ASNU65C FILTER</td>
<td></td>
</tr>
<tr>
<td>NOTES:</td>
<td></td>
</tr>
</tbody>
</table>

51
**Use Test Adapter ASNU76 (single block includes custom harness)**

**CHRYSLER TBI (BOSCH)**

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASNU65A</td>
<td>O-RING (Upper)</td>
</tr>
<tr>
<td>ASNU65B</td>
<td>O-RING (Lower)</td>
</tr>
<tr>
<td>ASNU24</td>
<td>Cap</td>
</tr>
<tr>
<td>ASNU65F</td>
<td>CLIP (UPPER)</td>
</tr>
<tr>
<td>ASNU65C</td>
<td>FILTER (UPPER)</td>
</tr>
<tr>
<td>ASNU65D</td>
<td>FILTER (LOWER)</td>
</tr>
<tr>
<td>ASNU65E</td>
<td>PINTLE CAP</td>
</tr>
</tbody>
</table>

**ASNU76 ADAPTER BLOCK WITH CUSTOM HARNESS**

**NOTES:**
Use Test Adapter ASNU78 (block holds 4 injectors Ford Zetec)
or
Test Adapter ASNU110 (block holds 6 injectors for Chrysler 3.5L)

Connect injectors with ASNU70 universal harness

MAZDA / FORD / SIEMENS
### SIDE FEED INJECTORS

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASNU112A</td>
<td>UPPER O-RING</td>
</tr>
<tr>
<td>ASNU112B</td>
<td>LOWER O-RING</td>
</tr>
<tr>
<td>ASNU70</td>
<td>UNIVERSAL HARNESS</td>
</tr>
<tr>
<td>NISSAN MICRA</td>
<td>4 INJECTOR BLOCK</td>
</tr>
</tbody>
</table>

**NOTES:**

- Use Test Adapter ASNU112 (4 Injector block)
- Connect injectors with ASNU70 universal harness

**Replacement Filter:**

- Replacement filter is under development and currently not available.
- Re-use old filter.
Use Test Adapter ASNU 57 (with filter in)

MITSUBISHI HITACHI - GDI

For testing - remove top O’Ring and replace with ASNU 08 x 2 and use ASNU 57 coupling.

NOTES:
<table>
<thead>
<tr>
<th><strong>NOTES:</strong></th>
</tr>
</thead>
</table>

Use Test Adapter ASNU56 (with filter in)

CITROEN / PEUGOT GDI - SIEMENS

Use Test Adapter ASNU56 (with filter in)

CITROEN / PEUGOT GDI - SIEMENS

Filter not available. Do not remove.

ASNU 262 O-RING (TOP)

ASNU 265 White 3.2mm Teflon Seal

ASNU 263 SPLIT SPACER

ASNU89 ADAPTER PLATE (USE TO HOLD BOTTOM OF INJECTORS IN TEST RAIL)

INJECTOR ADAPTER ASNU 56 Test injectors with filter installed

WIRING HARNESS ASNU 260 Universal Injector
Use Test Adapter ASNU 57 with filter

FORD - GDI
BOSCH

INJECTOR ADAPTER
ASNU 57
Test injectors with filter installed

WIRING HARNESS
ASNU 260
Universal Injector

NOTES:
ASNU 265
White 3.2mm Teflon Seal

ASNU 03
FILTER

ASNU 259
TOP ‘O’ RING 14.5mm

ASNU89
ADAPTER PLATE
(USE TO HOLD BOTTOM OF INJECTORS IN TEST RAIL)

Use Test Adapter ASNU57 with filter
VW - GDI
BOSCH

INJECTOR ADAPTER ASNU 57
Test injectors with filter installed

WIRING HARNESS ASNU 260
Universal Injector

NOTES:
Use Test Adapter ASNU 268 with filter

**NOTES:**

- ASNU 265A Black 3.4mm Teflon Seal
- FILTER CANNOT BE REPLACED DO NOT REMOVE
- ASNU271 TOP ‘O’ RING 13mm
- ASNU89 ADAPTER PLATE (USE TO HOLD BOTTOM OF INJECTORS IN TEST RAIL)
- INJECTOR ADAPTER ASNU 268 Test injectors with filter installed
- WIRING HARNESS ASNU 260 Universal Injector

GASOLINE DIRECT INJECTION
Use Test Adapter ASNU 57 with filter

VW AUDI - GDI
BOSCH

INJECTOR ADAPTER ASNU 57
Test injectors with filter installed

WIRING HARNESS ASNU 260
Universal Injector

NOTES:
GASOLINE DIRECT INJECTION

Use Test Adapter ASNU 268 with filter

FILTER CANNOT BE REPLACED
DO NOT REMOVE

ASNU 265
White 3.2mm Teflon Seal

ASNU 263
SPLIT SPACER

ASNU 271
TOP ‘O’ RING 13mm

ASNU 89
ADAPTER PLATE
(USE TO HOLD BOTTOM OF INJECTORS IN TEST RAIL)

INJECTOR ADAPTER
ASNU 268
Test injectors with filter installed

ASNU 70P
WIRING HARNESS
Hirschmann Plug

NOTES:
Use Test Adapter ASNU268 with filter

VW - GDI
BOSCH

WARNING, DO NOT REMOVE FILTER. NOT REPLACEABLE

ASNU 265
White 3.2mm Teflon Seal

ASNU271
TOP ‘O’ RING 13mm

ASNU122
DUAL FITMENT GDI FUEL RAIL

INJECTOR ADAPTER
ASNU 268
Test injectors with filter installed

WIRING HARNESS
ASNU 260
Universal Injector

NOTES:
GASOLINE DIRECT INJECTION

ASNU 265A
Black 3.4mm Teflon Seal

ASNU 121
INJECTOR ADAPTER
Test injectors installed

BMW - GDI
BOSCH

ASNU 70P
INJECTOR HARNESS
Piezo Type Connectors

ASNU 180
BOSCH RAIL

NOTES:
DENSO GDI

ASNU 265
WHITE 3.2MM TEFION SEAL

ASNU 03
FILTER

TOP O’RING NOT YET AVAILABLE

INJECTOR ADAPTER
ASNU 231
Test injectors with filter installed

WIRING HARNESS
ASNU 260
Universal Injector

NOTES:
GASOLINE DIRECT INJECTION

- ASNU 265B
- Black 2.8 mm Teflon Seal (2 required)
- ASNU 181 Extension Bolts
- USE ASNU181 EXTENSION BOLTS WITH LONG INJECTORS
- USE TEST ADAPTER ASNU258
- Delphi GDI For GM/Hyundai/Kia
- ASNU 03 Filter Basket
- ASNU 258 Adaptor
- WIRING HARNESS ASNU 260 Universal Injector

NOTES:
GASOLINE DIRECT INJECTION

- BMW GDI (B38) Bosch
- ASNU 122 Fuel Rail
- ASNU 265A Black 3.4mm Teflon Seal
- ASNU 231B Injector Adaptor
- INJECTOR HARNESS ASNU 70P
- INJECTOR HARNESS ASNU 70P

NOTES:
GASOLINE DIRECT INJECTION

NOTES:

OPTIMAX - MERCURY MARINE ENGINE

ASNU 248 Service Kit

ASNU 68 INJECTOR ADAPTER COUPLING KIT
GASOLINE DIRECT INJECTION

Fitch Marine Injector

E-Tec Marine Injector

ASNU246
Marine Adaptor Kit

NOTES:

Fitch & E-Tec injectors only work in conjunction with the ASNU Marine GDI Injector Adaptor Box. Please contact us for more details.
TECHNICAL NOTES:

FOR TECHNICAL ASSISTANCE, PLEASE CALL:
UK (44) (0)208 420 4494 OR FAX: UK (44) (0)208 420 4495 OR EMAIL: asnu.sales@asnu.com
BOSCH PIEZO GDI
MERCEDES Gasoline Direct Injection

ASNU 122
FUEL RAIL FOR BOSCH PIEZO INJECTORS

ASNU 123
INJECTOR TO FUEL RAIL COUPLING FOR BOSCH PIEZO INJECTORS

ASNU 265
White 3.2mm Teflon Seal

PIEZO ADAPTER BOX
CHOICE OF THREE COLOURS
ALL THE ABOVE PARTS ARE PART OF THE KIT SUPPLIED WITH THE ASNU PIEZO ADAPTER BOX

ASNU 124 & 125
PIEZO INJECTOR WIRING HARNESS

TECHNICAL NOTES:

FOR TECHNICAL ASSISTANCE, PLEASE CALL:
UK (44) (0)208 420 4494 OR FAX: UK (44) (0)208 420 4495 OR EMAIL: asnu.sales@asnu.com
The Classic GDI
Injector Diagnostic Testing & Servicing System
The ASNU Classic GDI
A complete system for the latest generation fuel injection

What is GDI?
GDI is an abbreviation for Gasoline Direct Injection, a process where the fuel is injected directly in to the combustion chamber. There are many variations of this process, with manufacturers preferring their own abbreviation of the system, here are some of the ones currently in use:

FSI = VW Audi (Fuel Stratified Injection)
SCI = Ford (Smart Charge injection)
IDE = Renault (Injection Direct Essence)
JTS = Alfa Romeo (Jet Thrust Stoichiometric)
SIDI = Holden (Spark Ignition Direct Injection)
HPI = BMW (High Precision Injection)
HPDI = Porsche (High Pressure Direct Injection)
Ecotec = GM, Vauxhall, Opel
CGI = Mercedes Benz (Charged Gasoline Injection)
DISt = Ford/Mazda (Direct Injection-Spark-Ignition)
GDI = Mitsubishi Peugeot Citroën, Hyundai, Volvo, (Gasoline Direct Injection)

On a GDI system, the fuel is injected directly in to the combustion chamber at a much higher pressure than manifold systems, up to 200 bar.
These systems now require fuel pumps and injectors made of stainless steel and must be capable of performing at a much higher specification than ones seen on previous manifold injection systems.
Both designed to deliver very precise quantities of fuel at extremely high pressures and in short periods of time, in some cases for fractions of a millisecond.
To control these systems, the ECU is also of a higher specification and required to supply a higher current of up to 90V on some systems.
There are many manufacturers of this type of system, but Robert Bosch are recognised as one of the leaders in the development of the GDI Technology.

The GDI System has two running modes: Stratified & Homogeneous.

Stratified Charge Running Mode.
This mode is the economical combustion cycle, in some systems, the Air to Fuel ratio can be as high as 65 to 1.
In this mode the injector delivers a minimum amount of fuel in to the combustion chamber, just before the piston reaches the top and before the plug fires. This mode is used at idle and light throttle settings when the car is driven slowly.

Homogeneous Running Mode.
This mode is what would be called a normal combustion cycle, with an Air to Fuel ratio of 25 to 1.
In this mode the injector delivers a normal amount of fuel in to the combustion chamber. This gives the engine the required performance as the car goes faster.
The Engine Management System determines when the system needs to switch between the Stratified Charge Mode and the Homogeneous Running Mode.
Spray pattern & flow rate analysis

The ASNU system has been designed for comparing injector against injector at a safe operating level and is suitable for use by apprentice level mechanics to Master level engineers.

To enable a safe and easy examination of the injector’s performance, the ASNU system runs the Injectors at a lower and safer operating fuel pressure of up to a maximum of 10 bar. On a vehicle fitted with a GDI system the fuel pressure will operate at a potentially dangerously high level for the inexperienced, reaching anywhere between 75 bar up to 200 bar on some systems.

The Engine Management System of a GDI is designed to open the injectors for short micro-second durations, with a maximum opening duration of only 5 milliseconds. Any visual analysis of the injectors spray pattern could be both difficult and dangerous. When mounted on the ASNU Classic GDI, the injectors are being supplied with the correct peak and hold currents and firing in sequential mode simulating those of the vehicles ECU.

The ASNU allows the user to safely examine the injectors Spray pattern in greater detail for any discrepancies in the fuel distribution and atomisation.

In some operating modes, the ASNU system opens the injectors for a much longer duration, thus exaggerating the spray pattern and making it easier to examine the spray’s performance.

GDI Injectors & Fuel Trims

The Distribution and Atomisation on a GDI Injector are critical to maintaining the correct Performance, Fuel Economy and Exhaust Emissions. They are now even more important than the quantity of fuel being delivered by the injector. The latest adaptive Engine Management Systems have a Short and Long Term Fuel Trim adjustment, adjusting the fuel delivery as compensation for any discrepancies in the CO emissions. An adjustment of up to 15% can be made to the fuel delivery of each injector on some systems, but as there are number of measurements that contribute to the Fuel Trim Adjustment, these measurements cannot adjust or compensate for poor Fuel Distribution and Atomisation.

**FUEL TRIM ADJUSTMENTS ARE NOT CORRECTING THE CAUSE THE PROBLEM, ONLY COMPENSATING FOR IT. DON’T FIND THE PROBLEM, FIND THE CAUSE OF THE PROBLEM**

The ASNU system allows the user to visually examine the injectors on an individual cycle or in sequential mode, where they can compare the injectors performance under a range of simulated Millisecond & RPM driving cycles already programmed in to the ASNU system. The injectors can be operated at various RPM & Milli Second settings, restricted only by the number of injectors being tested in the sequential testing operation.
The ASNU Classic GDI

Technical Specifications

The ASNU Classic Features
- Backlit Viewing Window
- Multi Language Selection
- Digital Operational Display
- Membrane Key Pad
- Wide Range of Functions
- Injector Shot Counter Display
- Injector Shot Timer Display
- Duty Cycle Display
- Up to 10,000 RPM
- Manual & Automatic Cleaning Cycles
- Suitable for Injected Motorcycles
- Suitable for Injected Marine Engines
- Suitable for LPG Injection
- For use on EVERY type of Manifold Injector

Local ASNU Distributor:

Specifications
- Input Voltage: 96v – 265v
- Dimensions & Weight:
  L  W  H Weight
  55 x 45 x 70 cm 30Kg

Additional GDI Features
- Suitable For All Types GDI Injectors
- USB Computer interface for user setting of Peak & Hold Currents & mS pulse widths and RPM
- Peak & Hold Current Control with ECU matched current settings
- Tests Up To 8 GDI/FSI Injectors at one time
- Static and Dynamic operation
- Sequential Injector Firing Operation for GDI Injectors
- Fast injector turn on and turn off circuits giving more repeatable results
- Single Injector Selection During Multi Injector Operation
- Suitable for Standard Manifold Injectors with Sequential or Simultaneous firing option
- 18 Various M/S & RPM Test Settings
- Simulates on-car Spray Patterns & Flow Rates
- Injector Inductance Test – Checking Injector Electro Magnetic Circuit
- Injector Leak Down Test
- Ultrasonic Injector Cleaning Cycle
- 12 Language Selection Screen
- Lbs per hour to Milliliters calculator
- Easy to Read LCD Screen
- Membrane Key Pad

ASNU Corporation Europe Ltd
Tel: +44 208 420 4494 Fax: +44 208 420 4495
Web Site: www.asnu.com E-Mail:asnu-sales@asnu.com
# ACCESSORIES & SPARES

<table>
<thead>
<tr>
<th>ASNU41C</th>
<th>ASNU41</th>
<th>ASNU42</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO-CLEAN ULTRASONIC CLEANING FLUID CONCENTRATE 1 LITER BOTTLE</td>
<td>BIO-CLEAN ULTRASONIC CLEANING FLUID PRE-MIX 5 LITER BOTTLE</td>
<td>FLOW-RITE CALIBRATION FLUID 1 GALLON</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ASNU44</th>
<th>ASNU47</th>
<th>ASNU48</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADAPTER COUPLING EXTRA LONG EXTERNAL FOR SHORT INJECTORS</td>
<td>8MM FEMALE ADAPTER COUPLING FOR 8MM MALE COLD START INJECTOR</td>
<td>10MM MALE ADAPTER COUPLING FOR 10MM FEMALE COLD START INJECTOR</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ASNU49</th>
<th>ASNU50</th>
<th>ASNU54</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADAPTER COUPLING COLD START INJECTOR HOSE TYPE (12-13MM)</td>
<td>10MM FEMALE ADAPTER COUPLING FOR 10MM MALE COLD START INJECTOR</td>
<td>8MM MALE ADAPTER COUPLING FOR 10MM FEMALE CIS (K-JET)</td>
</tr>
<tr>
<td>Part Number</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>ASNU55</td>
<td>12MM FEMALE ADAPTER COUPLING FOR 12MM MALE CIS (K-JET)</td>
<td></td>
</tr>
<tr>
<td>ASNU57</td>
<td>12MM FEMALE ADAPTER COUPLING TESTS INJECTORS WITHOUT REMOVING INLET FILTER</td>
<td></td>
</tr>
<tr>
<td>ASNU58</td>
<td>ADAPTER COUPLING TESTS MULTIPIORT INJECTORS WITH FUEL HOSE INSTALLED</td>
<td></td>
</tr>
<tr>
<td>ASNU59</td>
<td>ADAPTER COUPLING SLIM TYPE DENSO TESTS INJECTORS WITHOUT REMOVING INLET FILTER</td>
<td></td>
</tr>
<tr>
<td>ASNU68</td>
<td>ADAPTER COUPLING KIT MERCURY MARINE OPTIMAX GDI INJECTOR</td>
<td></td>
</tr>
<tr>
<td>ASNU70</td>
<td>UNIVERSAL HARNESS CONNECTS MOST MULTIPIORT INJECTORS</td>
<td></td>
</tr>
<tr>
<td>ASNU70M</td>
<td>INJECTOR HARNESS HIRSCHMANN FITMENT</td>
<td></td>
</tr>
<tr>
<td>ASNU70P</td>
<td>INJECTOR HARNESS PIEZO TYPE CONNECTORS</td>
<td></td>
</tr>
<tr>
<td>ASNU71</td>
<td>ADAPTER BLOCK GM TBI MAXI WITH CUSTOM HARNESS (single block - use ASNU101 for double block)</td>
<td></td>
</tr>
</tbody>
</table>
ASNU72
ADAPTER BLOCK
GM TBI MULTEC
WITH CUSTOM HARNESS
(single block - use ASNU115 for Quad Block)

ASNU73
ADAPTER BLOCK
FORD CFI - HOLLEY SPI
CHRYSLER & BOSCH
WITH CUSTOM HARNESS
(single block - use ASNU113 for twin block)

ASNU76
ADAPTER BLOCK
BOSCH SPI
(Tests 1 injector)

ASNU78
ADAPTER BLOCK
FORD ZETA MPI/SPI
(BOSCH / WEBER / SIEMENS / DENSO)
(Tests 4 injectors)

ASNU81
CUSTOM NYLON COVER
FOR ASNU MACHINE

ASNU84
PINTLE CAP & FILTER
ASSEMBLY TOOL
## ACCESSORIES & SPARES

<table>
<thead>
<tr>
<th>ASNU85</th>
<th>ASNU86</th>
<th>ASNU87</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOSCH EV1 PINTLE CAP REMOVAL TOOL GUN TYPE</td>
<td>FILTER BASKET REMOVAL TOOL</td>
<td>CUSTOM FIT RUBBER BENCH MAT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ASNU89</th>
<th>ASNU92</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEBER / SIEMENS TOP FEED MULTIPOINT “MINI PECO INJECTOR” ADAPTER PLATE twin pack</td>
<td>INJECTOR SERVICE REPORT PAD 50 SELF CARBON (ENGLISH ONLY)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ASNU97</th>
<th>ASNU99</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIDE FEED INJECTOR CLEANING TRAY (SHALLOW)</td>
<td>Mini Peco S/S Injector Cleaning Tray</td>
</tr>
</tbody>
</table>
| ASNU101 | ADAPTER BLOCK  
|GM TBI MAXI| (Tests 2 injectors, includes custom harness) |
| ASNU103 | ADAPTER BLOCK  
|NISSAN JECS| (Tests 6 injectors) |
| ASNU104 | ADAPTER BLOCK  
|TOYOTA JECS MPI| PREVIA / TARAGO (Tests 6 injectors) |
| ASNU105 | ADAPTER BLOCK  
|NISSAN PATHFINDER / NAVARA| (Tests 4 injectors) |
| ASNU106 | ADAPTER BLOCK  
|NISSAN / SUBARU SPI| (Tests 6 injectors) |
| ASNU107 | ADAPTER BLOCK  
|MAZDA DENSO| (Tests 6 injectors) |
| ASNU108 | ADAPTER KIT  
|GM VORTEC 4.3L EARLY VERSION| (Tests complete assembly) |
| ASNU109 | ADAPTER KIT  
|GM VORTEC 4.3L & 5.7L LATE VERSION| (Includes ASNU109H Harness & Cleaning Tray) |
ASNU110
ADAPTER BLOCK
FORD ZETA / SIEMENS
CHRYSLER 3.5L
(Tests 6 injectors)

ASNU112
ADAPTER BLOCK
NISSAN MICRA JECS
(Tests 4 injectors)

ASNU114
CUSTOM HARNESS
ROUND PIN TYPE
CONNECTORS
(Tests up to 8 injectors)

NEW ITEM!

ASNU115
ADAPTER BLOCK GM TBI MULTEC 700
(Tests 4 injectors, includes custom harness)

ASNU116
CUSTOM HARNESS FOR 8 DELPHI
INJECTORS & 8 ROCHESTER TBI 700
MULTEC INJECTORS
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASNU150</td>
<td>FLOW DISPLAY WINDOW</td>
</tr>
<tr>
<td>ASNU151</td>
<td>CALIBRATION FLUID TANK COVER</td>
</tr>
<tr>
<td>ASNU152</td>
<td>GLASS MEASURING CYLINDER - MM</td>
</tr>
<tr>
<td>ASNU153</td>
<td>ULTRASONIC BATH INJECTOR CRADLE</td>
</tr>
<tr>
<td>ASNU154</td>
<td>CALIBRATION FLUID IN-LINE FILTER</td>
</tr>
<tr>
<td>ASNU155</td>
<td>FUEL PUMP FILTER</td>
</tr>
<tr>
<td>ASNU156</td>
<td>BRASS FUEL TEST RAIL ASSEMBLY MULTIPORT INJECTORS (includes 8 capping off nuts, replacement model includes extension bolts for long GDI injectors)</td>
</tr>
<tr>
<td>ASNU266X</td>
<td>Seal Fitting Cone</td>
</tr>
<tr>
<td>ASNU266</td>
<td>Seal Compression Tool For use with ASNU 265/265A as shown</td>
</tr>
<tr>
<td>ASNU258</td>
<td>GM/Hyundai/Kia Adapter</td>
</tr>
</tbody>
</table>
ASNU708
BACKLIGHT KIT
(Add light to view Spray Patterns on older style ASNU machines)

MISC. O-RINGS

ASNU52
Lower for ASNU51 Coupling

ASNU53
Upper for ASNU51, fits ASNU156 Test Rail & ASNU54 K-Jet Coupling

ASNU71A
Fits Adapter Blocks ASNU71 & ASNU101

ASNU157
Fits Capping off nut ASNU58

ASNU404
O-Ring Measuring Cylinder Couplings - Upper

ASNU405
O-Ring Measuring Cylinder Couplings - Lower
ASNU GDI ADAPTER BOX
UPGRADE EXISTING ASNU CLASSIC MACHINES TO GDI TESTING & CLEANING CAPABILITY

GDI Adapter Box Features:

- Suitable For All Types GDI Injectors
- USB Computer interface for user setting of pulse widths and currents
- Peak & Hold Current Control with ECU matched current settings
- Tests Up To 8 GDI/FSI Injectors at one time
  - Static and Dynamic operation
  - Sequential Injector Firing Operation for GDI injectors
- Fast injector turn on and turn off circuits giving more repeatable results
  - Single Injector Selection During Multi Injector Operation
- Suitable for Standard Manifold Injectors with Sequential or Simultaneous firing option
  - 18 Various M/S & RPM Test Settings
  - Simulates on-car Spray Patterns & Flow Rates
- Injector Inductance Test - Checking Injector Electro Magnetic Circuit
  - Injector Leak Down Test
  - Ultrasonic Injector Cleaning Cycle
  - 12 Language Selection Screen
- Lbs per hour to Milliliters calculator
  - Easy to Read LCD Screen
  - Membrane Key Pad
- Updates early model ASNU Machine To Latest Specification
  - Use with Any ASNU System
- Could be used with Non ASNU systems
PIEZO PETROL/GASOLINE

PIEZO GDI ADAPTER BOX

84
Piezo injectors are the current system of choice of major executive vehicle manufacturers. Piezo injectors can respond quickly so 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 injection systems 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.

Equipment Included in Piezo Adapter Box

- Bosch Fuel Rail
- Siemens Fuel Rail
- Injector Harness
- Bosch Coupling (QTY 6)
- Siemens Coupling (QTY 6)
- Connection Harness

ASNU Corporation Europe LTD,
65-67 Glencoe Road, Bushey,
Herts, WD23 3DP England.
Tel. (44) 208 420 4494
Fax. (44) 208 420 4495
www.asnu.com
email: asnusales@asnu.com

DISTRIBUTOR
GDI ACCESSORIES, TOOLS & SPARES
ASNU GDI INJECTOR EXTRACTION KIT
ASNU 266K

An essential welcome addition to the tool range of any technician involved with the removal and re-installing of tight fitting or inaccessible GDI/FSI injectors. The kit contains a 2 part extraction/installation tool, an adjustable puller & slide hammer, fuel rail injector refitting tool, head cleaning brush and an injector lower seal compression fitting set.
## APPLICATIONS

<table>
<thead>
<tr>
<th>Applications</th>
<th>Gasoline</th>
<th>Gasoline</th>
<th>Gasoline Designed for GDI</th>
<th>Gasoline &amp; Methanol</th>
<th>Gasoline</th>
</tr>
</thead>
</table>

## Material & Filter Length Including Brass Ring

<table>
<thead>
<tr>
<th>Material &amp; Filter Length</th>
<th>Plastic 6mm</th>
<th>Plastic 8mm</th>
<th>Plastic 10mm</th>
<th>Wire 10mm</th>
<th>Plastic 13mm</th>
</tr>
</thead>
</table>

## Brass Ring Size

<table>
<thead>
<tr>
<th>Brass Ring Size</th>
<th>6mm</th>
<th>5.5mm</th>
<th>6mm</th>
<th>6mm</th>
<th>6.5mm</th>
</tr>
</thead>
</table>

## ASNU PART NUMBER

<table>
<thead>
<tr>
<th>ASNU PART NUMBER</th>
<th>ASNU 02</th>
<th>ASNU 02A</th>
<th>ASNU 03</th>
<th>ASNU 03W</th>
<th>ASNU 04</th>
</tr>
</thead>
</table>
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 catalog.

Please e-mail: asnu.sales@asnu.com
Please visit our web site: www.asnu.com