EC Declaration of Conformity

We,

Bileko Car Parts AB
P.O. Box 542,
S-645 25 Strängnäs,
Sweden

Herewith declare that the following machine complies with the appropriate basic safety and health requirements of the EC Directive based on its design and type, as brought into circulation by us.

In case of alteration of the machine, not agreed upon by us, this declaration will lose it validity:

Description:	*1/4" Dr. Impact Glow Plug Removal Kit*
Type:	*Art nr: PT5343*
Applicable EC Directives:	*EC Machinery Safety Directives (2006/42/EC)*
Applicable Harmonized Standards:	*ISO 12100:2010 (Risk Assessment & Risk Reduction)* *ISO 11148-6:2010 (Safety Requirements)* *ISO 15744:2002 (Noise Level)* *ISO 28927-2:2009 (Vibration Level)*
Date / Authorized Signature:	*2018-08-21* .....
Title of Signatory:	*Albin Karlsson* *Purchasing & Category Manager* *Business area: Workshop equipment, Consumables & Tools*

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ProMeister

User Guide

1/4" DR. IMPACT GLOW PLUG REMOVAL KIT

Glühkerzen-Druckluftwerkzeug, 9-teilig| Glödstiftsverktyg, pneumatiskt, 9 delar
Glødepluggverktøy, pneumatisk, 9 deler| Gløderørsværktøj, pneumatisk, 9 dele
Hehkutulppatyökalu, paineilmatoiminen, 9 osaa| Narzędzie do świec żarowych, pneumatyczne, 9 części
Outil extracteur de bougie de préchauffage, pneumatique, 9 pièces

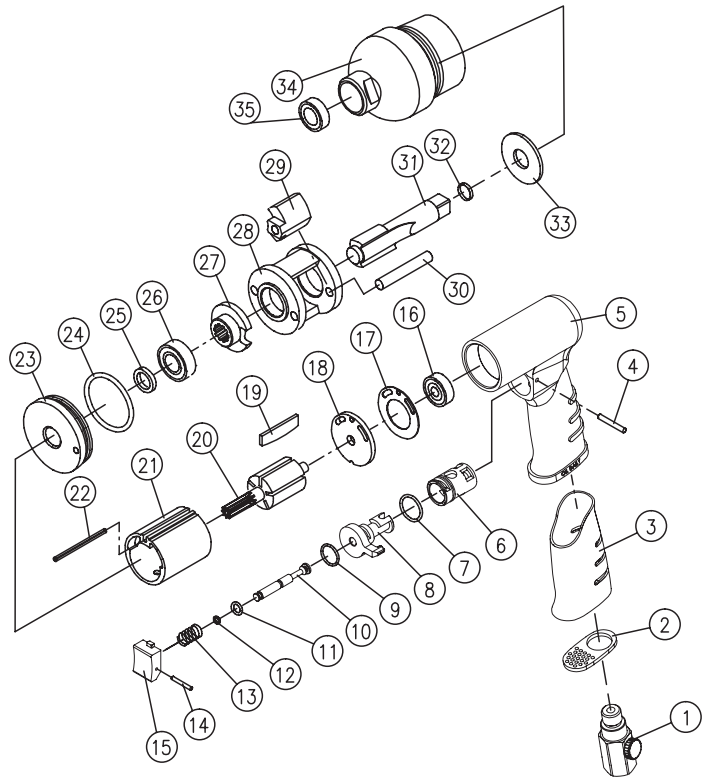
Art. Nr: PT5343

RVNR-03

Product Specifications

Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.

1/4" Dr. Impact Glow Plug Removal Kit



INDEX. NO.	PARTS. NO.	DESCRIPTION	QTY. PER TOOL
1	108N01	Air Inlet	1
2	108N02	Exhaust Deflector	1
3	108N03	Cover	1
4	108N04	Pin	1
5	108N05	Motor Housing	1
6	108N06	Reverse Bushing	1
7	108N07	"O" Ring	1
8	108N08	Reverse Valve	1
9	108N09	"O" Ring	1
10	108N10	Throttle Valve	1
11	108N11	"O" Ring	1
12	108N12	"O" Ring	1
13	108N13	Spring	1
14	108N14	Pin	1
15	108N15	Trigger	1
16	108N16	Ball Bearing	1
17	108N17	Gasket	1
18	108N18	Rear End Plate	1
19	108N19	Rotor Blade	5

INDEX. NO.	PARTS. NO.	DESCRIPTION	QTY. PER TOOL
20	108N20	Rotor	1
21	108N21	Cylinder	1
22	108N22	Spring Pin	1
23	108N23	Front Plate	1
24	108N24	"O" Ring	1
25	108N25	Oil Seal	1
26	108N26	Ball Bearing	1
27	108N27	Cam	1
28	108N28	Hammer Cage	1
29	108N29	Hammer Dog	2
30	108N30	Hammer Pin	2
31	108N31	Anvil	1
32	108N32	Anvil Collar	1
33	108N33	Washer	1
34	108N34	Hammer Case	1
35	108N35	Cover	1

Maintenance

1. Lubrication
   Before connecting the air hose, it should apply 4 to 5 drops of #60 spindle oil at air inlet. The repeat oiling after 3 to 4 hours operation will be necessary. Do not lubricate tools with flammable or volatile liquids such as kerosene, diesel or jet fuel.
2. Fastening of parts
   Do the regular check if all the connecting parts are fastened securely properly. It is necessary to go through this check daily before starting your work.
3. Cleanness
   Dusty and oiling surface on the handle will infected the grip which caused to the reaction torque. Clean the handle with dry clothing is strongly recommended before operation this tool.
4. Storage
   Put the tool in dry and clean environment. If the tool shall not to be used for a period of time, the residual moisture inside of the instrument could cause the rust. Before storing, oil the instrument at air inlet with spindle oil and operate it for a short period is strongly recommended.

Repairs

Do make use of the spare parts for all the maintenance and repairing job.

Do not invent or make any unnecessary temporary repairs. Major service of maintenance and repairs should be only carried out by well-trained persons or ProMeister of its own authorized service representatives.

Make sure the free speed after each service.

Disposal

Follow the national legislation for waste disposal. Never dispose of the air tool into fire. Separate collection!! This product must not be disposed together with normal household waste.

Warranty

All of ProMeister serial pneumatic tools are provided with complete after service and product warranty to the product that Bileko Car Parts AB which were produced in Taiwan.

ProMeister professional air tools, unless otherwise specified are unconditionally guaranteed against defects in materials and workmanship for the life of tool, excluding any other inappropriate operation, modification or repair.

ProMeister will repair or replace the tool that fails to give satisfaction service on the condition that tool has not been abused or modified and that it is returned to authorized warranty ProMeister dealer.

If there is a defective product claim of ProMeister, please contact the ProMeister's authorized sales/service representatives.

⚠ Warning

Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.

41. Dust and fumes generated when using air power tools can cause ill health (for example, cancer, birth defects, asthma and/or dermatitis); risk assessment and implementation of appropriate controls for these hazards are essential.
42. Risk assessment should include dust created by the use of the tool and the potential for disturbing existing dust.
43. Direct the exhaust so as to minimize disturbance of dust in a dust-filled environment.
44. Where dust or fumes are created, the priority shall be to control them at the point of emission.
45. All integral features or accessories for the collection, extraction or suppression of airborne dust or fumes should be correctly used and maintained in accordance with the manufacturer's instructions.
46. Use respiratory protection in accordance with employer's instructions and as required by occupational health and safety regulations.
47. Unprotected exposure to high noise levels can cause permanent, disabling, hearing loss and other problems, such as tinnitus (ringing, buzzing, whistling or humming in the ears).
48. Risk assessment and implementation of appropriate controls for these hazards are essential.
49. Appropriate controls to reduce the risk may include actions such as damping materials to prevent workpieces from "ringing".
50. Use hearing protection in accordance with employer's instructions and as required by occupational health and safety regulations.
51. Operate and maintain the air power tool as recommended in the instruction handbook, to prevent an unnecessary increase in noise levels.
52. If the assembly power tool for threaded fasteners has a silencer, always ensure it is in place and in good working order when the assembly power tool for threaded fasteners is operating.
53. Select, maintain and replace the consumable/inserted tool as recommended in the instruction handbook, to prevent an unnecessary increase in noise.
54. For recommended interface dimensions for spindles and drive adapters to help reduce vibrations, please contact the ProMeister's authorized sales or service representatives.
55. Exposure to vibration can cause disabling damage to the nerves and blood supply of the hands and arms.
56. Keep the hands away from the sockets.
57. Wear warm clothing when working in cold conditions and keep your hands warm and dry.
58. If you experience numbness, tingling, pain or whitening of the skin in your fingers or hands, stop using the assembly power tool for threaded fasteners, tell your employer and consult a physician.
59. Operate and maintain the assembly power tool for threaded fasteners as recommended in the instruction handbook, to prevent an unnecessary increase in vibration levels.
60. Do not use worn or ill-fitting sockets or extensions, as this is likely to cause a substantial increase in vibration.
61. Select, maintain and replace the consumable/inserted tool as recommended in the instruction handbook, to prevent an unnecessary increase in vibration levels.
62. Sleeve fittings should be used where practicable.
63. Support the weight of the tool in a stand, tensioner or balancer, if possible.
64. Hold the tool with a light but safe grip, taking account of the required hand reaction forces, because the risk from vibration is generally greater when the grip force is higher.
65. Air under pressure can cause severe injury.
66. Always shut off air supply, drain hose of air pressure and disconnect tool from air supply when not in use, before changing accessories or when making repairs.
67. Never direct air at yourself or anyone else.
68. Whipping hoses can cause severe injury.
69. Always check for damaged or loose hoses and fittings.
70. Cold air shall be directed away from the hands.
71. Do not use quick-disconnect couplings at tool inlet for impact wrenches. Use hardened steel (or material with comparable shock resistance) threaded hose fittings.
72. Whenever universal twist couplings (claw couplings) are used, lock pins shall be installed and whipcheck safety cables shall be used to safeguard against possible hose-to-tool and hose-and-hose connection failure.
73. Do not exceed the maximum air pressure stated on the tool.
74. Never carry an air tool by the hose.
75. Setting up or fixing the air power tool in a stable position, appropriate for air power tools that can be mounted in a support.
76. Keep the air power tools safe by regular preventative maintenance.
77. Check the speed and make a simple check of the vibration level after each service.
78. Check the speed regularly.
79. Any other use is prohibited.
80. The working places shell keep ventilated, clean and illuminated.

Low-Torque Air Impact Vibration Tool Set

Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.

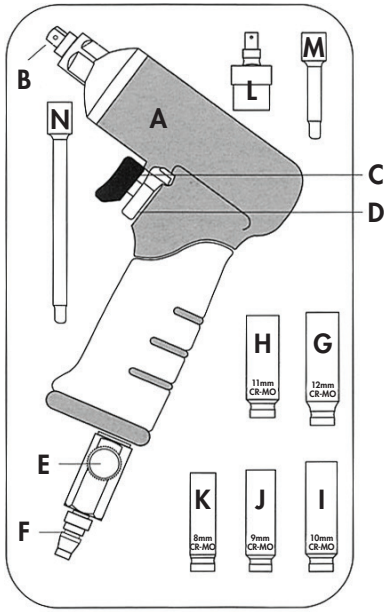
A low-torque air-powered impact vibration wrench set is specifically designed for removing stuck seized diesel engine glow plugs. The wrench has four pre-set toque settings and is reversible. Set includes five CR MO steel impact sockets (12mm, 11mm, 10mm, 9mm, 8mm), a 1/4"D universal joint for use in restricted access, a 100mm and 50mm extension.

Can be used with other impact sockets to loosen and undo low-torque fixings where conditions (corrosion or carbon build-up) have led to tightness and seizure.

All the components listed below are packed in foam and encased in a steel box for protection:

- Low-torque air impact wrench (1/4"D)
- 1/4"D universal joint
- 50mm extension
- 100mm extension
- Impact glow plug socket (12mm)
- Impact glow plug socket (11mm)
- Impact glow plug socket (10mm)
- Impact glow plug socket (9mm)
- Impact glow plug socket (8mm)
- Air-line connector

Set Components



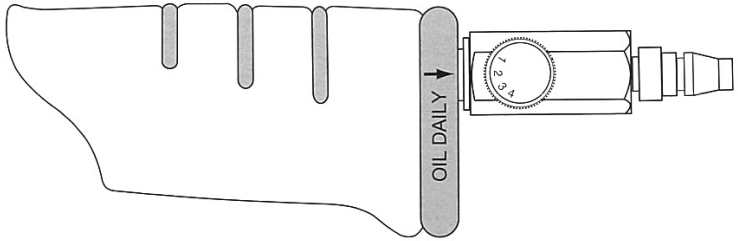
Ref	Description
A	Impact Wrench
B	1/4"D
C	Trigger
D	Forward/Release
E	Torque/Speed Adjuster
F	Air Line Adjusted
G	Impact Socket 12mm
H	Impact Socket 11mm
I	Impact Socket 10mm
J	Impact Socket 9mm
K	Impact Socket 8mm
L	Universal Joint
M	50mm Extension
N	100mm Extension

- Free Speed: 10000rpm
- Torque: 1=10Nm, 2=20Nm, 3=30Nm, 4=40Nm
- Net. Weight: 0.8kg
- Air Inlet: 1/4"
- Avg. Air Consumption: 150L/min.
- Exhaust System: Rear
- Sug. Air Pressure: 90 psi (6.2 bar)

Operation

Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.

1. Always refer to the manufacturer's instructions/documentation before attempting to remove or refit glow plug.
2. The universal joint is supplied to aid fitment of the impact wrench to the socket when access is restricted. Try and keep the wrench as straight as possible to the socket as the torque and vibration are reduced as the angle increases.
3. Before using it for the first time, lubricate the air tool by applying a few drops of a recommended air tool oil through the air line connector and spin up the tool a few times.
4. Always use the clean and dry air to operate the tool at 90 psi (6.2 bar) & do not operate exceed maximum working air pressure at 90 psi (6.2 bar) as recommended.
5. Choose and fit the correct impact socket for the glow plug to be removed.
6. Refer to Torque / Speed adjust diagram. The loosening of the glow plug is a function of the vibration as well as the torque applied, thus there is a time factor involved.
7. Line up the position indicator (1, 2, 3 or 4) with the arrow on the lower handle (refer to diagram) and the speed adjuster will click into place.
   The torque available for each adjuster position is as follows:
   1: 10Nm
   2: 20Nm
   3: 30Nm
   4: 40Nm



8. Start off on speed position 1 and let the wrench apply the vibration to the glow plug for at least 30 seconds. Steadily increase the torque by clicking the speed adjuster clockwise to the next setting, then continue to apply the vibration/torque for at least 30 seconds at each setting, until you feel that the glow plug is starting to unscrew. If the glow plug is stubborn, it is beneficial to keep applying vibration.

⚠ Warning

Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.

1. For multiple hazards, read and understand the safety instructions before installing, operating, repairing, maintaining, changing accessories on, or working near the air power tool. Failure to do so can result in serious bodily injury.
2. Only qualified and trained operators should install, adjust or use the air power tool.
3. Do not modify this air power tool. Modifications can reduce the effectiveness of safety measures and increase the risks to the operator.
4. Do not discard the safety instructions; give them to the operator.
5. Do not use the air power tool if it has been damaged.
6. The employer/user shall contact the manufacturer to obtain replacement marking labels when necessary.
7. Failure of the workpiece, of accessories or even of the inserted tool itself can generate high-velocity projectiles.
8. Always wear impact-resistant eye protection during the operation of the air power tool. The grade of protection required should be assessed for each use.
9. Ensure that the workpiece is securely fixed.
10. Entanglement hazards can result in choking, scalping and/or lacerations if loose clothing, personal jewellery, neckware, hair or gloves are not kept away from the tool and accessories.
11. Gloves can become entangled with the rotating drive, causing severed or broken fingers.
12. Rotating drive sockets and drive extensions can easily entangle rubber-coated or metal-reinforced gloves.
13. Do not wear loose-fitting gloves or gloves with cut or frayed fingers.
14. Never hold the drive, socket or drive extension.
15. Keep hands away from rotating drives.
16. The use of the tool can expose the operator's hands to hazards including crushing, impacts, cuts and abrasions and heat. Wear suitable gloves to protect hands.
17. Operators and maintenance personnel shall be physically able to handle the bulk, weight and power of the tool.
18. Hold the tool correctly; be ready to counteract normal or sudden movements and have both hands available.
19. Maintain a balanced body position and secure footing.
20. It is recommended to use a suspension arm whenever possible.
21. Reaction bars are recommended for angle nutrunners.
22. It is recommended to use a means to absorb the reaction torque above 4 N·m for straight tools, above 10 N·m for pistol-grip tools.
23. Release the start-and-stop device in the case of an interruption of the energy supply.
24. Use only lubricants recommended by ProMeister's authorized sales or service representatives.
25. Do not use in confined spaces and beware of crushing hands between tool and workpiece, especially when unscrewing.
26. Tool and/or accessories may briefly continue their motion after trigger is released.
27. Keep others a safe distance from your work area, or ensure they use appropriate personal protective equipment.
28. When using a power tool for the operator can experience discomfort in the hands, arms, shoulders, neck, or other parts of the body.
29. While using an air power tool, the operator should adopt a comfortable posture whilst maintaining secure footing and avoiding awkward or off-balanced postures.
30. While using an air power tool, the operator should change posture during extended tasks, which can help avoid discomfort and fatigue.
31. If the operator experiences symptoms such as persistent or recurring discomfort, pain, throbbing, aching, tingling, numbness, burning sensations or stiffness, these warning signs should not be ignored. The operator should tell the employer and consult a qualified health professional.
32. Disconnect the air power tool from the energy supply before changing the inserted tool or accessory.
33. Do not touch sockets or accessories during impacting, as this increases the risk of cuts, burns or vibration injuries.
34. Use only sizes and types of accessories and consumables that are recommended by ProMeister's authorized sales or service representatives.
35. Use only impact wrench rated sockets in good condition, as poor condition or hand sockets and accessories used with impact wrenches can shatter and become a projectile.
36. Slips, trips and falls are major causes of workplace injury.
37. Be aware of slippery surfaces caused by the use of the tool and also of trip hazards caused by the air line or hydraulic hose.
38. Proceed with care in unfamiliar surroundings. Hidden hazards, such as electricity or other utility lines, can exist.
39. The air power tool is not intended for use in potentially explosive atmospheres and is not insulated against coming into contact with electric power.
40. Make sure there are no electrical cables, gas pipes, etc., that can cause a hazard if damaged by use of the tool.