

**Noise, Vibration, & Harshness (NVH) Lubrication Kit**

**Vehicles Affected**

Models	Model Year	Model Type	VIN Range	Vehicle-Specific Equipment
All	All	All	N/A	N/A

**Revision History**

Revision	Release Date	Changes
0	October 28, 2020	Original document

**Condition**

For customer complaints of noise, a new kit has been created to address these issues. It is the NVH Lubricant Kit, Part Number- PNA 721 NVH KIT



### Technical Background

The lubricants in the kit have been specially selected for noise issues encountered by customers.

- These lubricants are what manufacturers have used at the production level (in large volumes).
- The lubricants in the kit have never been available in small quantities, or at the retail level.
- They have performance characteristics surpassing the normal lubricants available to workshops.
- Items 1-11 are oils and items 12-20 are greases.

### Video 1 - NVH Kit Overview

There is an application overview provided in the kit. It provides the following information-

- Application guide
- Compatibility charts
- Lubricant specification sheets

Item	Product	Article No.	Lubricant Description	Application	Specific Applications
1	KLUBER RMX 300	90600175	High-performance motor oil	Internal combustion engines	Internal combustion engines, e.g. in power tools
2	KLUBER RMX 300	90600176	High-performance motor oil	Internal combustion engines	Internal combustion engines, e.g. in power tools
3	KLUBER RMX 300	90600177	High-performance motor oil	Internal combustion engines	Internal combustion engines, e.g. in power tools
4	KLUBER RMX 300	90600178	High-performance motor oil	Internal combustion engines	Internal combustion engines, e.g. in power tools
5	KLUBER RMX 300	90600179	High-performance motor oil	Internal combustion engines	Internal combustion engines, e.g. in power tools
6	KLUBER RMX 300	90600180	High-performance motor oil	Internal combustion engines	Internal combustion engines, e.g. in power tools
7	KLUBER RMX 300	90600181	High-performance motor oil	Internal combustion engines	Internal combustion engines, e.g. in power tools
8	KLUBER RMX 300	90600182	High-performance motor oil	Internal combustion engines	Internal combustion engines, e.g. in power tools
9	KLUBER RMX 300	90600183	High-performance motor oil	Internal combustion engines	Internal combustion engines, e.g. in power tools
10	KLUBER RMX 300	90600184	High-performance motor oil	Internal combustion engines	Internal combustion engines, e.g. in power tools
11	KLUBER RMX 300	90600185	High-performance motor oil	Internal combustion engines	Internal combustion engines, e.g. in power tools
12	KLUBER RMX 300	90600186	High-performance motor oil	Internal combustion engines	Internal combustion engines, e.g. in power tools
13	KLUBER RMX 300	90600187	High-performance motor oil	Internal combustion engines	Internal combustion engines, e.g. in power tools
14	KLUBER RMX 300	90600188	High-performance motor oil	Internal combustion engines	Internal combustion engines, e.g. in power tools
15	KLUBER RMX 300	90600189	High-performance motor oil	Internal combustion engines	Internal combustion engines, e.g. in power tools
16	KLUBER RMX 300	90600190	High-performance motor oil	Internal combustion engines	Internal combustion engines, e.g. in power tools
17	KLUBER RMX 300	90600191	High-performance motor oil	Internal combustion engines	Internal combustion engines, e.g. in power tools
18	KLUBER RMX 300	90600192	High-performance motor oil	Internal combustion engines	Internal combustion engines, e.g. in power tools
19	KLUBER RMX 300	90600193	High-performance motor oil	Internal combustion engines	Internal combustion engines, e.g. in power tools
20	KLUBER RMX 300	90600194	High-performance motor oil	Internal combustion engines	Internal combustion engines, e.g. in power tools

Lubricant	Material	Compatibility	Notes
KLUBER RMX 300	ABS	Compatible	
	PC	Compatible	
KLUBER RMX 300	PE	Compatible	
	PP	Compatible	
KLUBER RMX 300	POM	Compatible	
	PA6	Compatible	
KLUBER RMX 300	PBT	Compatible	
	PBT/PA	Compatible	
KLUBER RMX 300	PS	Compatible	
	PSU	Compatible	
KLUBER RMX 300	PMMA	Compatible	
	PMMA/PS	Compatible	

Lubricant	Elastomer	Compatibility	Notes
KLUBER RMX 300	NBR	Compatible	
	FKM	Compatible	
KLUBER RMX 300	EPDM	Compatible	
	AC	Compatible	
KLUBER RMX 300	SI	Compatible	
	SI/PU	Compatible	
KLUBER RMX 300	PU	Compatible	
	PU/PA	Compatible	

Lubricant	Viscosity (mm²/s @ 100°C)	Viscosity Index
KLUBER RMX 300	150	150
KLUBER RMX 300	230	150
KLUBER RMX 300	350	150

### Service Information

A brief explanation with a supporting video is provided below for the items in the kit.

**NOTE: Surfaces must be clean before applying lubricants**

#### Klüberalfa Pens, Positions 1-3

- This is a great choice for vehicle interior plastic & metal where light contact is creating the noise.
  - Low, medium, & high viscosities provide fine tuning capability.
  - Plastic to plastic
  - Metal to plastic

[Video 2 - Klüberalfa Pens 1 - 3](#)



1 - 3

4 - 6

#### Klüberplus Assembly Aids, Positions 4-6

- Reduces force required for assembling stubborn connections
  - Low, Medium & high viscosities for varying demands.
  - Rubber hoses
  - Door bumpers
  - Exhaust hangars
  - Sealing elements

[Video 3 - Klüberplus Assembly Aids](#)

### **Klübertop Pens, Positions 7-8**

- Good light contact lubricant for Elastomers (rubber type material)
  - Dry film lubricant
  - Friction reduction for O-ring assembly
  - Door seals
  - Folding top seals
  - Trunk seals



7 - 8

9 - 11

[Video 4 - Klübertop Pens 7-8](#)

### **Klüberalfa MR-3, Positions 9-11**

- A very effective lubricant for noise and friction reduction in combination with most interior materials.
  - Low, medium, & high viscosities for varying demands.
    - The medium and high viscosities will leave a gloss or sheen on the surface
    - Start with the low viscosity and then work up from there
    - Test the lubricant in a small spot on the test pieces provided in the kit.
  - Leather
  - Textile
  - Plastic

[Video 5 - Klübertop MR-3 Lubricants](#)

### **Klüüberbeta RM47, Position 12**

- Long term grease for rubbers and plastics
  - Wide temperature range (extreme climates)
  - -40° C to 180°C (-40°F to 356°F)

[Video 6 - Klüüberbeta RM47](#)



12 13 14 15 16 17 18 19 20

### **Klübertemp GR M30 N, Position 13**

- Long term grease for particularly demanding conditions
  - Very wide temperature range (extreme climates)
  - -60°C to 200°C (-76°F to 392°F)
  - Compatible with
    - Metals
    - Sensitive plastics
    - Elastomers
  - Sway bar bushings
  - Control arm bushing to body interface

[Video 7 - Klübertemp GR M30 N](#)

### Isoflex Topas L 32 N, Position 14

- Excellent general purpose grease designed for plastic mechanisms.
  - Hinges
  - Guides
  - Window lifters
  - Sun roofs
  - Headlamps
  - AC Flaps
  - Plastic gears



12 13 14 15 16 17 18 19 20

[Video 8 - Isoflex Topas L 32 N](#)

### Klübersynth LI 44-22, Position 15

- Low viscosity & temperature grease
  - Excellent damping and adhesion properties
  - Can withstand very cold temperatures
    - -60°C to 130°C (-76°F to 266°F)
  - Window regulators
  - Sun roofs
  - Seats
  - Headlamps
  - AC Flaps
  - Can also work in steel to plastic interfaces

[Video 9 - Klübersynth LI 44-22](#)

### Klüberpaste HM 96-402, Position 16

- High temperature brake paste
  - Up to 1,200°C (2,192°F)
  - Good adhesion
  - Resists washout
  - Compatible with EPDM dust seals

[Video 10 - Klüberpaste HM 96-402](#)



12 13 14 15 16 17 18 19 20

### Klübersynth RA44-702, Position 17

- Medium viscosity synthetic grease
  - Produces a "soft feel" effect in the component motion
    - The result of mechanical damping
  - Ventilation flaps
  - Sun Visors
  - Ashtrays
  - Cup holders
  - Window regulator guides
  - Seat adjustment mechanisms
  - Sunroof guides

[Video 11 - Klübersynth RA44-702](#)

### **Klüberplex RA44 -2601, Position 18**

- High viscosity synthetic grease
  - Produces a “softer feel” effect in the component motion
    - The result of mechanical damping
  - Ventilation flaps
  - Sun Visors
  - Ashtrays
  - Cup holders
  - Window regulator guides
  - Seat adjustment mechanisms
  - Sunroof guides



12 13 14 15 16 17 18 19 20

[Video 12 - Klüberplex RA44 -2601](#)

### **Syntheso GLEP 1, Position 19**

- Typically used as an assembly grease
  - Clutch master and slave cylinders
  - Brake boosters
  - Steering columns

[Video 13 - Syntheso GLEP 1](#)



### Klübersynth JIP, Position 20

- Specialty grease for heavily loaded plastic to steel ball joints
  - Hood struts
  - Rear Lid struts

[Video 14 - Klübersynth JIP](#)



12 13 14 15 16 17 18 19 20

### Artificial leather strip, Position 21

The artificial leather strips are for testing a lubricant's effect on the appearance of an upholstered surface.

- Only use a small amount of lubricant
- Start at a corner, or edge
- The effects can be learned pretty quickly



**Tensile bar, Position 22**

Can be used to aid the application of lubricant in difficult locations (particularly greases).

- Use in conjunction with interior trim tools
  - The trim tools would hold open access to a location that needs lubrication
  - The tensile bar can be used to apply the grease
- Can save the time of removing an entire component just to lubricate a small point

NOTE: Other items may also be useful in difficult to access areas.

- long cotton swabs
- popsicle sticks
- long thin paint brushes



**Flash drive, Position 23**

The flash drive contains the following:

- PDF copy of the Application Overview (Item 24 below)
- Video
  - Explaining the stick-slip condition that creates many of the noises we deal with.
  - The video also shows how the lubricants alleviate the stick-slip condition



**Application Overview, Position 24**

Provides the following information-

- Application guide
- Compatibility charts
- Lubricant specification sheets



Spare felts for pens, Position 25

Fine Mist Sprayer (100 ml Bottle) Position 26

Small and large orifice plastic cap nozzles (squeeze tubes) Position 27



### Warranty

- For warranty claim processing, use the designated part number listed in the grid below with the quantity necessary for the repair entered accordingly.
  - A single container can be used to repair multiple vehicles.
  - A "typical" application quantity for each lubricant has been established.
  - Along with this quantity is a corresponding amount that may be billed to warranty.
1. The labor operation used in conjunction with warranty claiming will be those published in the labor time guide for the repair.
  2. Per policy guidelines, if a labor operation does not exist in the labor time guide, then a technician may use actual time provided there is a separate identifiable punch and story to support the time claimed.

Position	Lubricant	Reimbursement		Container	
		Part Number	\$ per use	# uses per	\$ per
1	Klüberalfa YM 3-30 N	WTY0902052272	\$ 3.68	10	\$ 36.83
2	Klüberalfa DH 3-150 N	WTY0902172272	\$ 3.96	10	\$ 39.60
3	Klüberalfa DH 3-350 N	WTY0902182272	\$ 4.33	10	\$ 43.26
4	Klüberplus S 06-100	WTY0121022279	\$ 2.07	10	\$ 20.71
5	Klüberplus S 06-100 M2	WTY0123422279	\$ 2.07	10	\$ 20.71
6	Klüberplus S 06-100 M4	WTY0123432279	\$ 2.07	10	\$ 20.71
7	Klüberstop TP 36-1300 N A/B Komp A	WTY0992372267	\$ 3.50	10	\$ 34.97
8	Klüberstop TP 29-1310 N A-B Komp A	WTY0992242267	\$ 3.50	10	\$ 34.97
9	Klüberalfa MR 3	WTY0901180387	\$ 2.88	20	\$ 57.51
10	Klüberalfa MR 3-500 UV	WTY0902310387	\$ 3.49	20	\$ 69.84
11	Klüberalfa MR 3-800	WTY0901940387	\$ 3.65	20	\$ 72.94
12	Klüberbeta RM 47-102	WTY022232286	\$ 6.27	5	\$ 31.37
13	Klübertemp GR M 30 N	WTY0902132285	\$ 9.94	5	\$ 49.69
14	Isoflex Topas L32 N	WTY0042272277	\$ 4.44	5	\$ 22.21
15	Klübersynth LI 44-22 UV	WTY0042902284	\$ 6.27	5	\$ 31.36
16	Klüberpaste HM 96-402	WTY0051332283	\$ 6.09	5	\$ 30.46
17	Klübersynth RA 44-702	WTY0122640216	\$ 6.64	5	\$ 33.19
18	Klüberplex RA 44-2601	WTY0203752282	\$ 7.19	5	\$ 35.94
19	Syntheso GLEP 1	WTY0121420361	\$ 8.29	5	\$ 41.43
20	Klübersynth JIP 84-402	WTY0941082281	\$ 7.37	5	\$ 36.86

### Search Items

NVH, Kit, Lubricant, oil, grease, noise, squeak, rattle

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