



Civil versions: B, B1

ALERT SERVICE BULLETIN

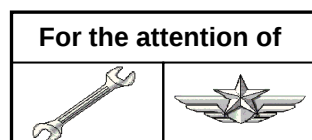
PROTECTIVE MEASURE

MAIN ROTOR DRIVE - Main Gear Box (MGB)

Periodic check of MGB magnetic plugs, of the oil filter, check that there are no particles in the bottom housing,

And, replacement of MGB planet gears

ATA: 63



Revision No.	Date of issue
Revision 0	2017-06-13
Revision 1	2017-06-30
Revision 2	2017-11-14
Revision 3	2018-03-02

Summary:

The purpose of this ALERT SERVICE BULLETIN is to:

- 1) To carry out a periodic inspection:
 - of the MGB magnetic plugs (MP),
 - of the MGB oil filter,
- 2) Make sure there are no particles in the bottom housing.
- 3) Identify the type of planet gears fitted on the MGB.
 - For planet gear assemblies of Type Y: replace the planet gears within 50 flying hours, without exceeding June 30, 2019.
 - For planet gear assemblies of Type Z which have logged more than 1,800 flight hours since new: replace the planet gears within 600 flight hours.

Reason for last Revision:

The purpose of Revision 3 of this ALERT SERVICE BULLETIN is:

- To modify the time limit for the periodic check of the magnetic plugs from "after each last flight of the day without exceeding 10 flight hours" to "at intervals not exceeding 10 flight hours".
- To introduce the periodic inspection of the oil filter and add one inspection of the bottom housing (oil sump).
- To modify the length (L) and surface (S) criteria of the particles collected.
- To replace the Type Z planet gears which have logged more than 1,800 flight hours since new, within 600 flight hours.

Compliance:

Airbus Helicopters renders compliance with this ALERT SERVICE BULLETIN mandatory.

1. PLANNING INFORMATION

1.A. EFFECTIVITY

1.A.1. Helicopters/installed equipment or parts

On all MGB part numbers.

1.A.2. Non-installed equipment or parts

On all MGB part numbers.

1.B. ASSOCIATED REQUIREMENTS

Not applicable.

1.C. REASON

Revision 0:

Following the EC225 accident off Norway in April 2016, and Airbus Helicopters subsequently working closely with the Norwegian Accident Investigation Board and other authorities, a cracked outer race in a second stage planet gear was identified as the cause of the helicopter's mechanical failure.

During the investigation into the 2016 EC225 accident, one of two types of planet gear was identified as being susceptible to developing cracking because of higher roller contact pressures generated in the Main Gearbox. As part of the protective measures developed and approved with EASA to ensure safe operation of the EC225/AS332 L2 fleet, this type of planet gear has been permanently removed from service.

In pursuit of its commitment to ensuring total safety across all its products, Airbus Helicopters has reviewed its entire range of helicopters in regard to this particular issue.

As a result, Airbus Helicopters has decided to implement precautionary measures on the Dauphin family (AS365/AS565/EC155/SA366) to improve the reliability of the Dauphin Main Gearbox.

This additional safety measure is made as a precaution notwithstanding that as of today, the Dauphin fleet has logged around 6.5 million flight hours, with no accident or serious incident related to the Main Gearbox planet gears.

Three types of planet gears from three different suppliers, each with different characteristics, are currently in service across the Dauphin fleet. Among those, two types have been identified as having characteristics comparable to the planet gear removed from service on the EC225/AS332 L2 fleet.

After verification, it appears that a large proportion of the in-service fleet is not equipped with the types which are to be removed from service.

Airbus Helicopters stresses that this retrofit is a precautionary measure, which is entirely unrelated to any accident involving a Dauphin helicopter, and is intended to enhance the safety of the helicopters concerned.

Revision 1:

Following the detection of an inconsistency which led to incorrect planet gear identification, Airbus Helicopters has decided to revise this ALERT SERVICE BULLETIN, in order to update the Appendices (paragraph 4.) and paragraph 1.E.2. to enable the identification of the planet gear type.

In addition, detailed information is provided on the check which can be carried out by the pilot (paragraph 1.G.).

Airbus Helicopters makes compliance with Revision 1 of this ALERT SERVICE BULLETIN mandatory. Revision 1 affects compliance with Revision 0 of this ALERT SERVICE BULLETIN.

Revision 2:

The purpose of Revision 2 is:

- to provide an alternative to the removal of the MGB for the replacement of planet gears. The epicyclic reduction gear can be changed via compliance with the Service Bulletin No EC155-63-016 revision 2. This solution can be offered on the initiative of Airbus Helicopters, and requires action by specially trained Airbus Helicopters specialists.
- to drain the MGB for helicopters for which planet gears were replaced through compliance with an Airbus Helicopters Technical Agreement or Service Bulletin No EC155-63-016 Revision 0 or 1 or No EC155-63C015 Revision 0.

Airbus Helicopters makes compliance with Revision 2 of this ALERT SERVICE BULLETIN mandatory.

Revision 2 affects compliance with Revision 1 of this ALERT SERVICE BULLETIN only for helicopters for which planet gears were replaced through compliance with an Airbus Helicopters Technical Agreement or Service Bulletin N° EC155-63-016 Revision 0 or 1 or No EC155-63C015 Revision 0.

Revision 3:

Recent particle detection tests have been performed on rig with different MGB configurations. Improvements for particle detection have been identified for MGBs equipped with double oil pumps and electrical magnetic chip detectors.

Consequently, the reason for Revision 3 is:

- To modify the time limit for the periodic check of the magnetic plugs from "after each last flight of the day without exceeding 10 flight hours", to "at intervals not exceeding 10 flight hours".
- To introduce a reduced periodic inspection of the oil filter (currently scheduled in the MSM at 100 flight hours) every 25 flight hours.
- To set up one inspection of the MGB bottom housing within 50 flight hours following receipt of Revision 3 of this ALERT SERVICE BULLETIN.
- To modify the length (L) and surface (S) criteria of the particles collected in order to harmonize these criteria with other helicopters from the Airbus Helicopters range.
- To replace the equipped planet gears of Type Z which have logged more than 1,800 flight hours since new, within 600 flight hours.

Airbus Helicopters renders compliance with Revision 3 of this ALERT SERVICE BULLETIN mandatory.

1.D. DESCRIPTION

Compliance with this ALERT SERVICE BULLETIN consists in:

- Periodically checking the MGB magnetic plugs at intervals not exceeding 10 flight hours,
- identifying MGB planet gear assemblies of Type Y or Z (See the list in APPENDIX 4.A. to 4.B.),
- Replacing the MGBs equipped with at least one planet gear of Type Y within 50 flying hours, without exceeding June 30, 2019,
- Replacing the MGBs equipped with five planet gears of Type Z and which has at least one equipped planet gear which has logged more than 1,800 flight hours since new, within 600 flight hours.
- Periodically checking the absence of particles in the oil filter,
- Making sure there are no particles in the bottom housing,
- Draining the MGB for helicopters for which planet gears were replaced through compliance with an Airbus Helicopters Technical Agreement or Service Bulletin No EC155-63-016 Revision 0 or later or No EC155-63C015 Revision 0.

1.E. COMPLIANCE

1.E.1. Compliance at H/C manufacturer level

Comply with paragraph 1.E.2.

1.E.2. Compliance in service

The operator is responsible for checking the MGB magnetic plugs, oil filter, and MGB bottom housing. Planet gears must be replaced by a maintenance repair center approved by Airbus Helicopters (See [paragraph 2.D.](#)).

1.E.2.a. Helicopters/installed equipment or parts:

1) Upon receipt of Revision 3 of this ALERT SERVICE BULLETIN:

- . Check the Log Card (FM) of the MGB to identify the type of the five installed planet gear assemblies unless already identified during compliance with previous revisions,
- .. If the Log Card indicates five planet gears of **Type Z**: Comply with Table 1.
- .. If the Log Card (FM) of the MGB does not mention **Type Z** for the five planet gears,
 - . Check the Log Card (FM) of the MGB to identify the Serial Numbers (S/N) of the five installed planet gear assemblies.
 - . Look up these Serial Numbers (S/N) in [Appendix 4.A.](#) to 4.B. to identify the planet gear type.
 - .. If the type of at least one planet gear assembly cannot be identified from [Appendix 4.A.](#) to 4.B., contact Airbus Helicopters at TechnicalSupport.Helicopters@airbus.com, or the approved repair center which delivered the MGB, to obtain information on the installed planet gear assemblies.
 - .. If the type of the five planet gears has been identified using [Appendix 4.A.](#) to 4.B., continue as described below,
- . For helicopters equipped with an MGB which includes at least one planet gear assembly of **Type Y**:
 - .. Comply with Table 2.
 - .. It is prohibited to install MGBs equipped with at least one planet gear assembly of **Type Y**.
- . For helicopters equipped with an MGB which includes five planet gear assemblies of **Type Z**:
 - .. Comply with Table 1.

Table No. 1

Table No. 1					
MGB equipped with 5 type Z planet gears assemblies	Within 25 flight hours following receipt of Revision 3 of this ALERT SERVICE BULLETIN, issued on the date indicated in the footer	Within 50 flight hours following receipt of Revision 3 of this ALERT SERVICE BULLETIN, issued on the date indicated in the footer	Within 600 flight hours following receipt of Revision 3 of this ALERT SERVICE BULLETIN, issued on the date indicated in the footer	Every 10 flight hours	Every 25 flight hours
Planet gear < 400 flight hours since new	No new action		No new action	Check the magnetic plugs as per paragraph 3.B.2.a.	No new action
From 400 ≤ Planet gear ≤ 1,800 flight hours since new	Inspect the oil filter as per paragraph 3.B.2.c.	Inspect the bottom housing as per paragraph 3.B.2.b.			Inspect the oil filter as per paragraph 3.B.2.c.
Planet gear > 1,800 flight hours since new					
			Remove the MGB to replace the equipped planet gears as per paragraphs 3.B.1.a. and 3.B.1.b.		

Table No. 2

MGB equipped with at least one type Y planet gear assembly	Within 50 flight hours following receipt of Revision 0 of this ALERT SERVICE BULLETIN, issued on the date indicated in the footer without exceeding June 30, 2019	Within 25 flight hours following receipt of Revision 3 of this ALERT SERVICE BULLETIN, issued on the date indicated in the footer	Every 10 flight hours
Planet gear ≤ 25 flight hours following receipt of Revision 0 of this ALERT SERVICE BULLETIN	Remove the MGB to replace the equipped planet gears as per paragraphs 3.B.1.a. and 3.B.1.b.	Inspect the oil filter as per paragraph 3.B.2.c.	Check the magnetic plugs as per paragraph 3.B.2.a.
Planet gear > 25 flight hours following receipt of Revision 0 of this ALERT SERVICE BULLETIN		No new action	

- 2) Upon receipt of Revision 3, complete the Information Sheet in Appendix 4.D. and send it to Airbus Helicopters at the following address: TechnicalSupport.Helicopters@airbus.com, unless it has already been sent during compliance with previous revisions.
- 3) Helicopters equipped with an MGB which includes at least one planet gear assembly of Type Y will be unfit for flight from July 01, 2019.
- 4) Upon receipt of Revision 2 of this ALERT SERVICE BULLETIN:
 - . For helicopters for which planet gears were replaced through compliance with an Airbus Helicopters Technical Agreement or Service Bulletin No EC155-63-016 Revision 0 or later or No EC155-63C015 Revision 0:
 - .. if the MGB was drained following complete compliance with the Airbus Helicopters Technical Agreement or Service Bulletin No EC155-63-016 Revision 0 or later or No EC155-63C015 Revision 0, Leave as is.
 - .. if the MGB was not drained following complete compliance with the Airbus Helicopters Technical Agreement or Service Bulletin No EC155-63-016 Revision 0 or later or No EC155-63C015 Revision 0, comply with [paragraph 3.B.3.](#) within 50 flying hours following the issue of Revision 2 of this ALERT SERVICE BULLETIN.
 - . For helicopters for which planet gears were replaced through removal and replacement of the MGB, through this ALERT SERVICE BULLETIN:
 - .. Leave as is.

1.E.2.b. Non-installed equipment or parts:

Before installation,

- . Check the Log Card (FM) of the MGB to identify the type of the five installed planet gear assemblies.
 - .. If the Log Card indicates five planet gears of Type Z:
 - . MGB equipped with planet gears of **Type Z** with less than 1,800 flight hours:
 - .. MGB installation is authorized.
 - . MGB equipped with at least one planet gear of **Type Z** with more than 1,800 flight hours:
 - .. Do not install the MGB.
 - .. Refer to [paragraph 2.D.](#) for the equipment or parts return conditions.

- .. If the Log Card (FM) of the MGB does not mention Type Z for the five planet gears,
 - . Check the Log Card (FM) of the MGB to identify the Serial Numbers (S/N) of the five installed planet gear assemblies.
 - . Look up these Serial Numbers (S/N) in [Appendix 4.A.](#) to 4.B. to identify the planet gear type.
 - .. If the type of at least one planet gear assembly cannot be identified from [Appendix 4.A.](#) to 4.B., contact Airbus Helicopters at TechnicalSupport.Helicopters@airbus.com, or the approved repair center which delivered the MGB, to obtain information on the installed planet gear assemblies.
 - ... Pending information, do not install the MGB.
 - .. If the type of the five planet gears has been identified using [Appendix 4.A.](#) to 4.B., continue as described below,
- . MGB equipped with at least one planet gear assembly of **Type Y**:
 - .. Do not install the MGB.
 - .. Refer to [paragraph 2.D.](#) for the material return conditions.
- . MGB equipped with five planet gear assemblies of **Type Z** which have logged less than 1,800 flight hours:
 - .. MGB installation is authorized.
- . MGB equipped with at least one planet gear of **Type Z** which have logged more than 1,800 flight hours:
 - .. Do not install the MGB.
 - .. Refer to [paragraph 2.D.](#) for the equipment or parts return conditions.
- . Complete the Information Sheet in Appendix 4.D. and send it to Airbus Helicopters at the following address: TechnicalSupport.Helicopters@airbus.com unless it has already been sent during compliance with the previous revisions.

1.F. APPROVAL

Approval of modifications:

Not applicable.



Approval of this document:

The technical information contained in this ALERT SERVICE BULLETIN Revision 0 was approved on June 13, 2017 under the authority of EASA Design Organization Approval No. 21J.700 for civil version helicopters subject to an Airworthiness Certificate.

The technical information contained in this ALERT SERVICE BULLETIN Revision 1 was approved on June 30, 2017 under the authority of EASA Design Organization Approval No. 21J.700 for civil version helicopters subject to an Airworthiness Certificate.

The technical information contained in this ALERT SERVICE BULLETIN Revision 2 was approved on November 14, 2017 under the authority of EASA Design Organization Approval No. 21J.700 for civil version helicopters subject to an Airworthiness Certificate.

The technical information contained in this ALERT SERVICE BULLETIN Revision 3 was approved on March 02, 2018 under the authority of EASA Design Organization Approval No. 21J.700 for civil version helicopters subject to an Airworthiness Certificate.

1.G. MANPOWER



For compliance with this ALERT SERVICE BULLETIN, Airbus Helicopters recommends the following personnel qualifications:

To check the magnetic plugs (paragraph 3.B.2.a.):

Qualification: - 1 Mechanical Engineering Technician or 1 Pilot with the appropriate training and certification for compliance with [paragraph 3.B.2.a.](#) only.

For the MGB bottom housing (paragraph 3.B.2.b):

Qualification: 1 Mechanical Engineering Technician

For the inspection of the oil filter (paragraph 3.B.2.c):

Qualification: 1 Mechanical Engineering Technician

To replace the MGB (paragraph 3.B.1.):

Qualification: 2 Mechanical Engineering Technicians.

For drainage of the MGB (paragraph 3.B.3.):

Qualification: 1 Mechanical Engineering Technician.



The time for the operations is given for information purposes, for a standard configuration.

Time for the operations:

- approximately 40 hours to replace the MGB,
- approximately 1/2 hour to check the magnetic plugs,
- approximately 2 hours to drain the MGB.
- approximately 8 hours for inspection of the MGB bottom housing with pump removal.
- approximately 6 hours for inspection of the MGB bottom housing without pump removal
- approximately 2 hours for inspection of the oil filter.



The estimated helicopter downtime is approximately two days (excluding the time to analyze the particles found at the magnetic plugs) for MGB replacement.

1.H. WEIGHT AND BALANCE

Not applicable.

1.I. POWER CONSUMPTION

Not applicable.

1.J. SOFTWARE UPGRADES/UPDATES

Not applicable.

1.K. REFERENCES

The documents required for compliance with this ALERT SERVICE BULLETIN are as follows:

Aircraft Maintenance Manual (AMM):

- Task: 05-50-01-211: Transmission Gearboxes - Steps to do when you Find Particles on the Magnetic Plugs and/or on the Oil Filter of the Gear Box.
- Task: 53-53-00-061: Fuselage - Removal / Installation - MGB cowlings.
- Task: 60-00-00-911: Standard Practices - Rotor - General Safety Instructions - Power Transmission Systems
- Task: 63-00-00-061: Main Gearbox (MGB) - Removal / Installation - MGB / MRH assembly.
- Task: 63-10-01-061: Main Gearbox (MGB) - Removal / Installation - Coupling shaft.
- Task: 63-20-00-061: Main Gearbox (MGB) - General - Removal / Installation - Main Gearbox.
- Task: 63-20-00-611: Main Gearbox (MGB) - Draining and Filling the MGB.
- Task: 63-21-01-061: Main Gearbox (MGB) - Removal / Installation - MGB oil pump.
- Task: 63-21-02-141: Oil filter – Cleaning – Oil filter.
- Task: 63-21-02-221: Main Gearbox (MGB) - Inspection - Oil filter.
- Task: 63-40-02-211: Metal chip Detectors - Inspection - MGB Electrical Magnetic Plug.

Standard Practices Manual (MTC):

- Work Card: 20-04-02-401: Chemical stripping of organic surface finishes.
- Work Card: 20-05-01-101: General sealing methods.
- Work Card: 20-08-01-601: Periodical monitoring of lubricating oil checking elements - Monitoring of lubricating oil contamination on mechanical assemblies equipped with magnetic plugs

SIN No. 3095-S-63 revision 2 or later.

Service Bulletin No. EC155-63-016 revision 2 or later: Replacement of epicyclic reduction gear on MGB

1.L. OTHER AFFECTED PUBLICATIONS

Not applicable.

1.M. PART INTERCHANGEABILITY OR MIXABILITY

Not applicable.

2. EQUIPMENT OR PARTS INFORMATION

2.A. EQUIPMENT OR PARTS: PRICE - AVAILABILITY - PROCUREMENT

Airbus Helicopters has introduced a specific commercial policy.

All direct consequences of the limitations introduced through this ALERT SERVICE BULLETIN are at Airbus Helicopters' expense:

- Supply of planet gears
- Transportation of parts
- Manpower cost related to the exchange

You can obtain the detailed conditions by contacting your usual commercial contact at Airbus Helicopters.

Order as required from:

Airbus Helicopters
Etablissement de Marignane
Direction Ventes et Relations Client
13725 MARIGNANE CEDEX
FRANCE

NOTE 1

On the purchase order, please specify the mode of transport, the destination and the serial numbers of the helicopters to be modified.

NOTE 2

*For ALERT SERVICE BULLETINS, order by:
Telex: HELICOP 410 969F
Fax: +33 (0)4 42 85 99 96.*

2.B. LOGISTIC INFORMATION

Not applicable.

2.C. EQUIPMENT OR PARTS REQUIRED PER HELICOPTER/COMPONENT

Kits to be ordered for one helicopter or one assembly:

For MGB identification and replacement, refer to the Illustrated Parts Catalog (IPC).

Equipment or parts to be ordered separately:

Designation	Qty	New P/N	Item	Former P/N	Instruction
O-ring	3	PS701-6006-202	5		(Pump + pump seat cover)
O-ring	3	PS701-6006-077	6		(Pump + pump seat cover)
Plain washer	6	23111AG060LE	7		(Pump + pump seat cover)
Nut	6	ASN52320BH060N	8		(Pump + pump seat cover)
O-ring	1	PS701-6006-127	9		(Pump)
Shim	1	365A32-1133-20	10		(Pump)
Seal	1	6792200434	11		(Filter)
Seal	3	6792200500	12		(Filter)
O-ring	1	6792200452	13		(Filter)
Seal	1	6792200454	14		(Filter)
O-ring	1	6792200441	15		(Filter)

Consumables to be ordered separately:

As per the Work Cards specified in this ALERT SERVICE BULLETIN and the list below:

Designation	Qty	PRODUCT P/N	CM	Item
Cleaning agent	AR	Diestone S	CM236	1
Primer	AR	DHS186-111-20	CM487	2
Primer	AR	DHS186-111-40	CM488	3
Paint	AR	ECS 2405.10.1625	CM4178	4
White spirit	AR	Off the shelf	CM208	16

The consumables can be ordered separately from KLX AEROSPACE SOLUTIONS company.

Website: <https://www.klxaerospace.com/klxaero/>

Telephone: +1.305.925.2600

AOG: +1.305.471.8888

Special tools:

Designation	Qty	Tool P/N or equivalent	Item
Crowbar	1	Local manufacture in AU4G as per Figure 3.	zz
Protective rag	1	Off the shelf	yy
Crow foot	1	R.7CF (FACOM)	xx
		Or	
Plexiglass scraper	1	TMCOM7 (SNAP-ON)	ww
Round magnet	1	6912D11-0100-00	vv
Glove	1	INED0012	uu
Magnetized stem	1	TOUCHNTUFF 92-600	tt
		Off the shelf	

2.D. EQUIPMENT OR PARTS TO BE RETURNED

For any information, please contact your usual Key Logistics Manager from the Airbus Helicopters network.

For availability requests, please specify the maximum deadline for your need (Aircraft On Ground).

3. ACCOMPLISHMENT INSTRUCTIONS

3.A. GENERAL

Read and comply with the general mechanical instructions as per AMM Task 60-00-00-911.

3.B. WORK STEPS

3.B.1. Replacement of MGB planet gears

- a) Remove the MGB as per AMM Task 63-20-00-061.

NOTE 1

REMINDER: When the main rotor mast is removed, blanks must be installed immediately to prevent foreign matter ingress.

Furthermore, when an MGB is shipped or stored, blanks must be installed immediately to prevent the foreign matter ingress.

- Refer to the procedure described in paragraph 2.D. for the material return conditions.
- If the MGB is not blanked after the rotor mast is removed:
 - . Before installing the rotor mast, visually check that there is no foreign object in the MGB.
- Install an airworthy MGB as per AMM Task 63-20-00-061.

NOTE 2

An airworthy MGB is an MGB complying with paragraph 1.E.2.b.

Or,

- b) Comply with Service Bulletin No EC155-63-016 revision 2 or later.

NOTE 3

Compliance with Service Bulletin No EC155-63-016 is on the initiative of Airbus Helicopters, and requires action by Airbus Helicopters specialists on site.

3.B.2. Check of MGB magnetic plugs (MP), oil filter and the MGB bottom housing

NOTE 4

Any particle collection must be capitalized through the follow-up sheet defined in the Appendix of SIN 3095-S-63.

a) Check of MGB magnetic plugs

Check that there are no particles on the two magnetic plugs at the lower part of the MGB, as per AMM Task 63-40-02-211,

Then,

. Interpret the results as per paragraph 3.B.2.d.

b) Check the MGB bottom housing

Ensure there are no particles in the MGB bottom housing as per the procedure described in paragraph 3.B.4.

Then,

. Interpret the results as per paragraph 3.B.2.d.

c) Inspection of oil filter

- Ensure there are no particles in the oil filter as per the procedure described in paragraph 3.B.5.

Then,

. Interpret the results as per paragraph 3.B.2.d.

d) Interpretation of the results

1) If there are no particles:

. Resume flights.

2) If there are particles:

. Refer to the flowchart below

3) During first compliance with Revision 3 of this ALERT SERVICE BULLETIN, complete the follow-up sheet defined in the Appendix of SIN 3095-S-63 and return it to Airbus Helicopters, regardless of the interpretation of the results.

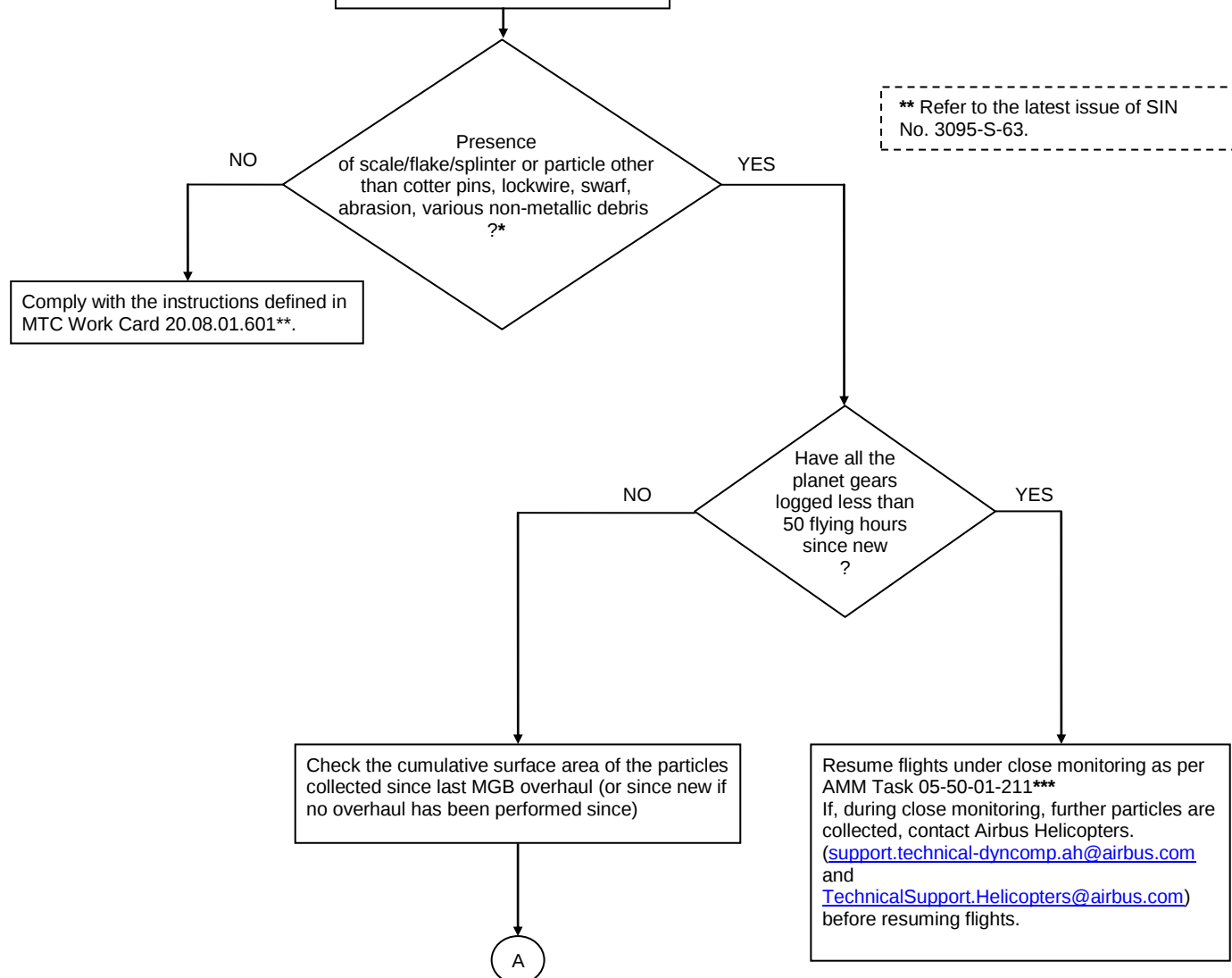
**** Use the MGB bottom housing particle collection procedure described in paragraph 3.B.4. of revision 3 of this ALERT SERVICE BULLETIN.
 Do not filter oil/drained liquids, collect all the drained liquids (service oil or degreasing liquid used during cleaning phases) in clean light-colored containers of suitable capacity.

Comply with AMM Task
 05-50-01-211****

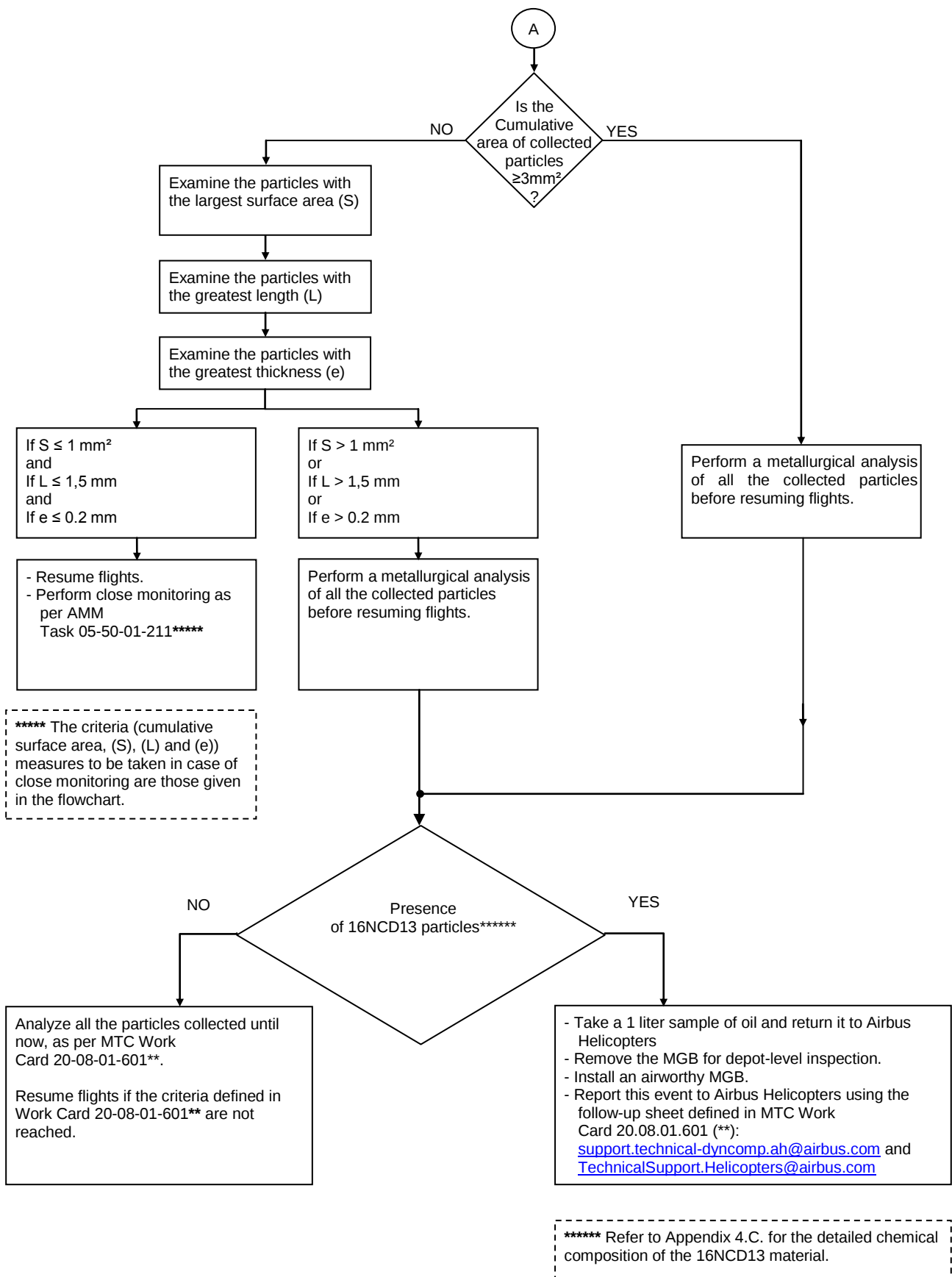
Characterize the type of the particle(s) as per MTC Work Card 20.08.01.601 provided in SIN No. 3095-S-63**

* If the collected particles are not clearly characterized, perform a metallurgical analysis and contact Airbus Helicopters (support.technical-dyncomp.ah@airbus.com) and TechnicalSupport.Helicopters@airbus.com before resuming flights.

** Refer to the latest issue of SIN No. 3095-S-63.



*** The criteria (cumulative surface area, (S), (L) and (e)) to be taken in case of close monitoring are those given in the flowchart.



3.B.3. Drainage of the MGB

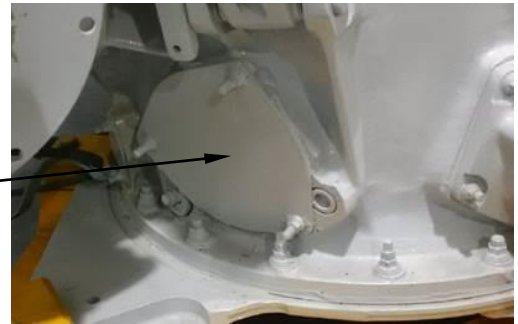
Drain the MGB as per Task 63-20-00-611 of the AMM.

3.B.4. Inspection of MGB bottom housing (Figures 1 and 2)



MGB without pump seat cover, comply with § 3.B.4.a.

MGB with pump seat cover, comply with § 3.B.4.b.



3.B.4.a. MGB without pump seat cover (Figure 1 and 2)

- Remove the MGB cowlings as per sub-task 53-53-00-021-001 of AMM Task 53-53-00-061.
- Drain the MGB as per sub-task 63-20-00-681-001 of AMM Task 63-20-00-611.
- During compliance with the sub-task 63-20-00-681-001 of AMM Task 63-20-00-611:
 - . Collect the draining fluid in a clean Light-colored drain pan.
 - . Rinse the oil drain hose using white spirit (16) to allow the collection of any particles adhering to the sides.
 - . Collect the rinsing fluid in a clean Light-colored drain pan.
 - . Make sure that there are no particles with the clean magnetized stem (tt):
 - .. in the draining fluid,
 - .. in the rinsing fluid.
- Interpret the results as per paragraph 3.B.2.d.then, if flight resumption is authorized after compliance with the flowchart:
- Remove the right MGB/Engine coupling shaft as per sub-task 63-10-01-021-001 of AMM Task 63-10-01-061.
- Strip the paint from the rim of the pump support face (a) and the nuts (b) using the cleaning agent (1) and as per Work Card 20.04.02.401 (MTC). (For the first compliance).
- Remove the sealing compound from the rim of the pump support face (a), the nuts (b) and the rim of the duct fitting (c) using the scraper (ww) as per task 20.05.01.101 (MTC).
- Disconnect the oil piping (d) as per sub-task 63-00-00-021-001 of Task 63-00-00-061.
- Remove the nuts (b) using the crow's foot (xx).
- Remove the washers (e).
- Discard the nuts (b) and washers (e).



CAUTION

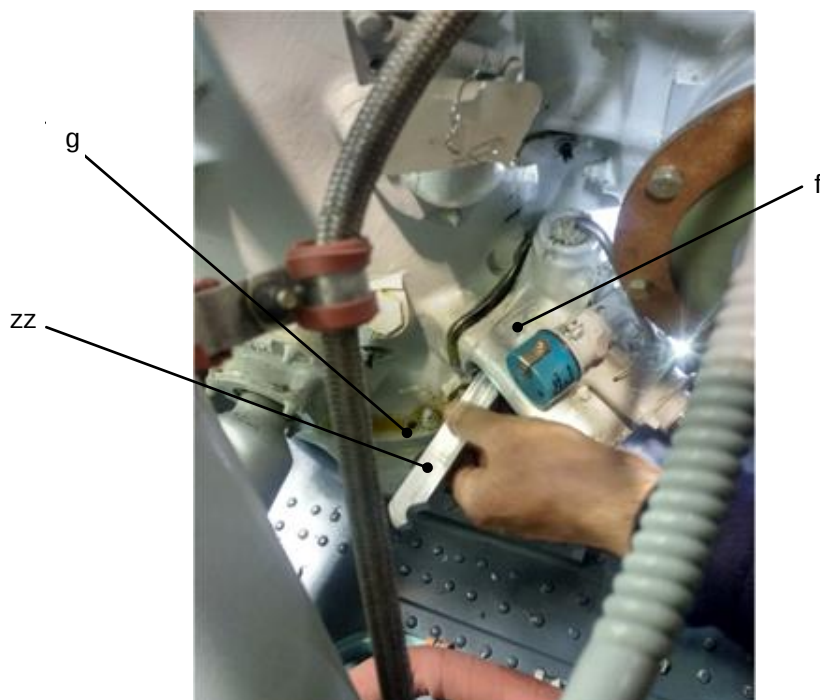
DO NOT DAMAGE THE DUCT (c) WHEN REMOVING THE PUMP (f).



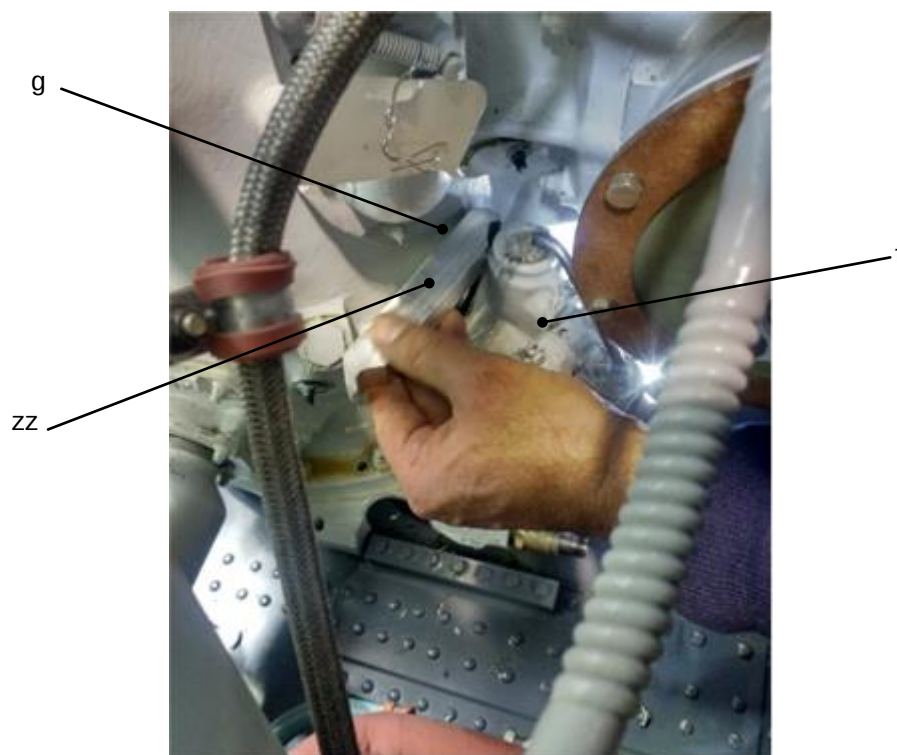
CAUTION

PROTECT THE CROWBAR SUPPORT AREAS (zz) WITH THE CLOTH (yy).

- Remove the pump (f) using the crowbar (zz):
 - . Between the pump mounting stud (f) and the MGB housing (g).



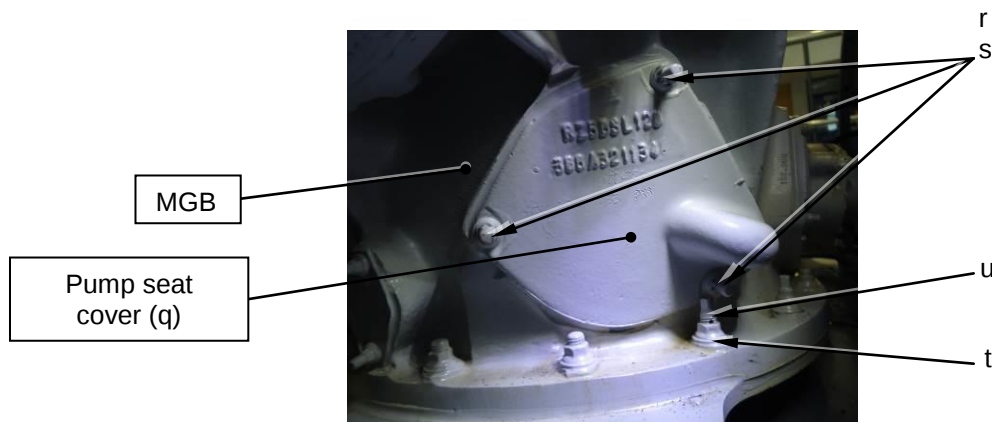
- . Between the MGB housing (g) and the upper part of the pump (f) left side



- Carefully remove the pump (f) from the MGB housing (g).
- Slightly rotate the pump (f) to the left to avoid interference with the gimbal joint.
- Place the pump (f) in a recovery bin.
- Ensure the pump (f) and housing (g) are not damaged at the crowbar support points (zz).

- In the event of paint degradation, perform touch ups:
 - . Using primer (2) and (3).
 - . Paint (4).
- Remove the adjustment shim (h) from the MGB housing (g).
- Make sure there is no degradation of the adjustment shim (h) of the MGB housing (g).
- If the adjustment shim (h) is degraded:
 - . Measure the thickness of the adjustment shim (h) on a healthy part and keep this measurement for installation.
 - . Discard the adjustment shim (h).
- Remove the O-rings (k), (m) and (n) and take care not to deteriorate them.
- Ensure that the seals are in correct condition: if they show no signs of deterioration (no deformations, tears, compression, distortions), the seals can be reinstalled,
- Put the magnet (vv) inside the glove (uu).
- Put the glove (uu) on your hand.
- Pass your hand through the hole (p) Figure 1.
- Make sure there is no particle on the entire surface of the MGB housing bottom (o):
 - . In zone A, in the hollow of the housing bottom (o) Figure 2.
 - . In zone B, in the center of the housing bottom (o) Figure 2.
 - . In zone C, in the flat part of the housing bottom (o) Figure 2.
- . Interpret the results as per paragraph 3.B.2.d. then, if flight resumption is authorized after compliance with the flowchart:
- Install the pump (g) as per sub-task 63-21-01-421-001 of AMM Task 63-21-01-061.
- Install the right MGB/engine coupling shaft as per sub-task 63-10-01-421-001 of AMM Task 63-10-01-061.
- Install the MGB cowlings as per sub-task 53-53-00-421-001 of AMM Task 53-53-00-061.

3.B.4.b. MGB with pump seat cover (Figure 2)



- Remove the MGB cowlings as per sub-task 53-53-00-021-001 of AMM Task 53-53-00-061.
- Drain the MGB as per sub-task 63-20-00-681-001 of AMM Task 63-20-00-611.
- During compliance with the sub-task 63-20-00-681-001 of AMM Task 63-20-00-611:
 - . Collect the draining fluid in a clean Light-colored drain pan.
 - . Rinse the oil drain hose using white spirit (16) to allow the collection of any particles adhering to the sides.
 - . Collect the rinsing fluid in a clean Light-colored drain pan.
 - . Make sure that there are no particles with the clean magnetized stem (tt):
 - .. in the draining fluid,
 - .. in the rinsing fluid.
- Interpret the results as per paragraph 3.B.2.d. then, if flight resumption is authorized after compliance with the flowchart:



CAUTION

**DO NOT DAMAGE THE FLIGHT CONTROL ROD (y)
WHEN THE SEAT COVER IS REMOVED (q).**

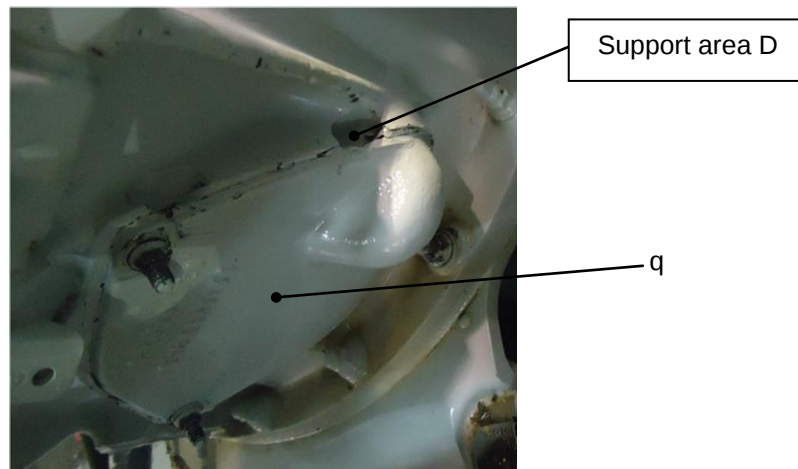


- Loosen the nut (u) without removing it.
- Lower the screw (u).
- Remove and discard the nuts (r) and the washers (s).

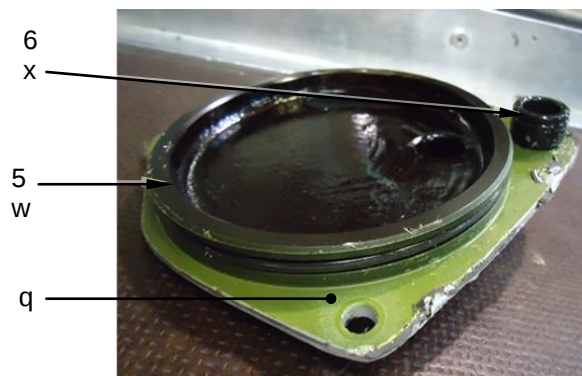
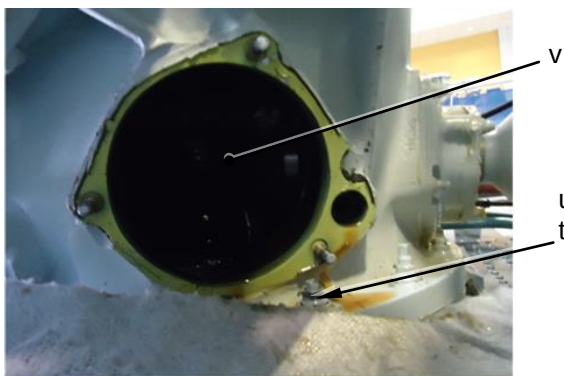


CAUTION

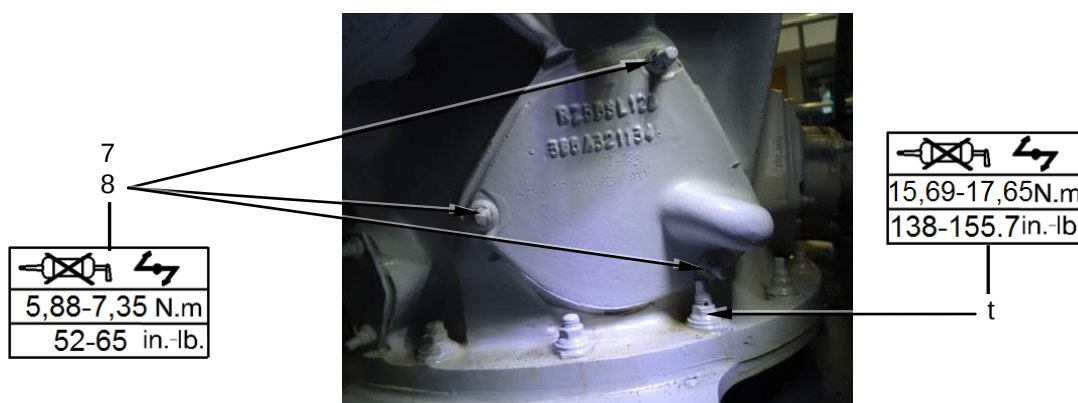
**PROTECT THE CROWBAR SUPPORT AREA (zz)
WITH THE CLOTH (yy).**



- Remove the seat cover (q) using the crowbar (zz).



- Remove the O-rings (w) and (x) and take care not to deteriorate them.
- Ensure that the seals are in correct condition: if they show no signs of deterioration (no deformations, tears, compression, distortions), the seals can be reinstalled.
- Put the magnet (vv) inside the glove (uu).
- Put the glove (uu) on your hand.
- Pass your hand through the hole (v).
- Make sure there is no particle on the entire surface of the MGB housing bottom (o):
 - . In zone A, in the hollow of the housing bottom (o) Figure 2.
 - . In zone B, in the center of the housing bottom (o) Figure 2.
 - . In flat zone C of the housing bottom (o) Figure 2.
- Interpret the results as per paragraph 3.B.2.d. then: if flight resumption is authorized after compliance with the flowchart:
- Lubricate the O-rings (w or 5) and (x or 6) using the MGB oil.
- Install the pump seat cover (q) using the O-rings (w or 5) and (x or 6), new washers (7) and new nuts (8).
- Tighten nuts (8) to the torque indicated below.
- Tighten nut (t) to the torque indicated below.



- Install the MGB cowlings as per sub-task 53-53-00-421-001 of AMM Task 53-53-00-061.

3.B.5. Inspection of oil filter

**CAUTION**

**DO NOT INSPECT ON THE MECHANICAL FLOOR
BUT IN A CLEAN AND WELL-LIT SURROUNDING.**

**CAUTION**

**REPLACE THE FILTER BLOCK COVER DURING
THE FILTER CHECK PROCEDURE TO PREVENT
ANY RISK OF POLLUTION.**

- Inspect the oil filter as per AMM Task 63-21-02-221.
 - . During compliance with AMM Task 63-21-02-221:
 - . Place a clean, light-colored recovery bin under the filter area.
 - . Collect all the oil flowing from the filter in the bin,
 - . Collect all the rinsing liquid (during compliance with AMM Task 63-21-02-141) in a clean, light-colored recovery bin.
 - . Make sure that there are no particles with the clean magnetized stem (tt):
 - .. in the draining fluid,
 - .. in the rinsing fluid.
- Make sure that there are no particles on the oil filter.
- Interpret the results as per paragraph 3.B.2.d.

3.C. COMPLIANCE CONFIRMATION

Compliance with this document:

Record compliance with this ALERT SERVICE BULLETIN, with its revision number, on the Log Card (FM) of the MGB.

3.D. OPERATING AND MAINTENANCE INSTRUCTIONS

Not applicable.

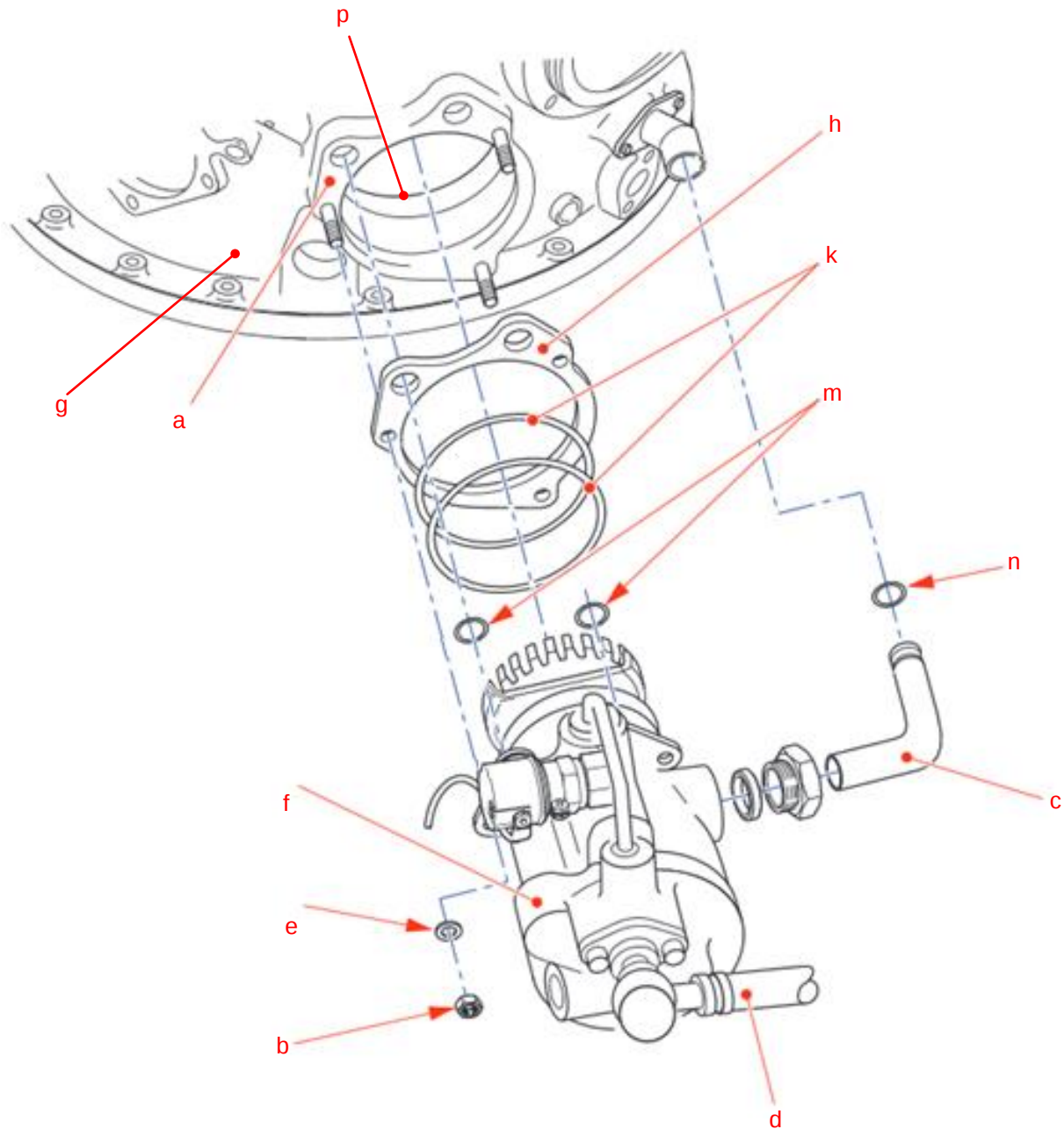


Figure 1

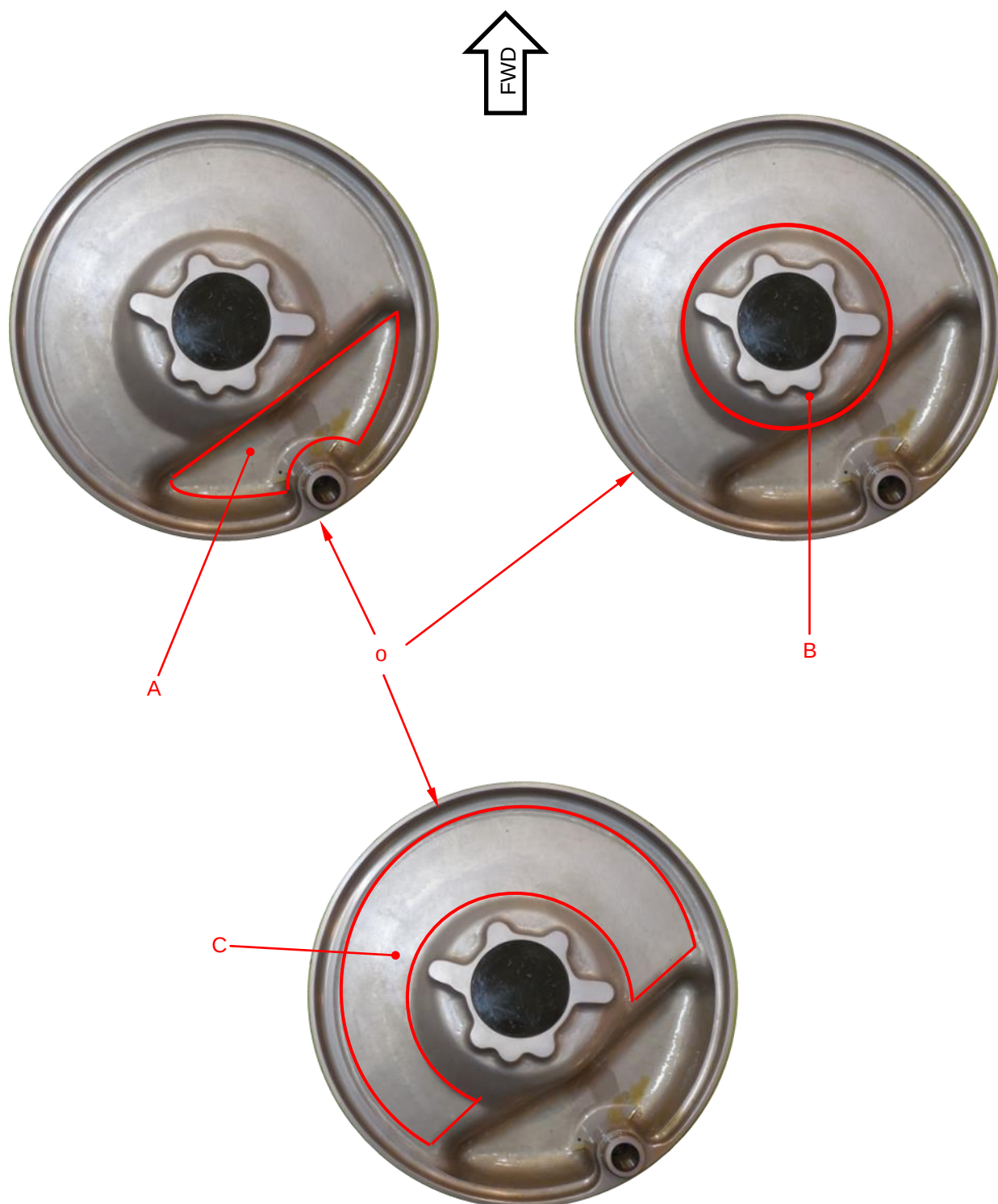


Figure 2

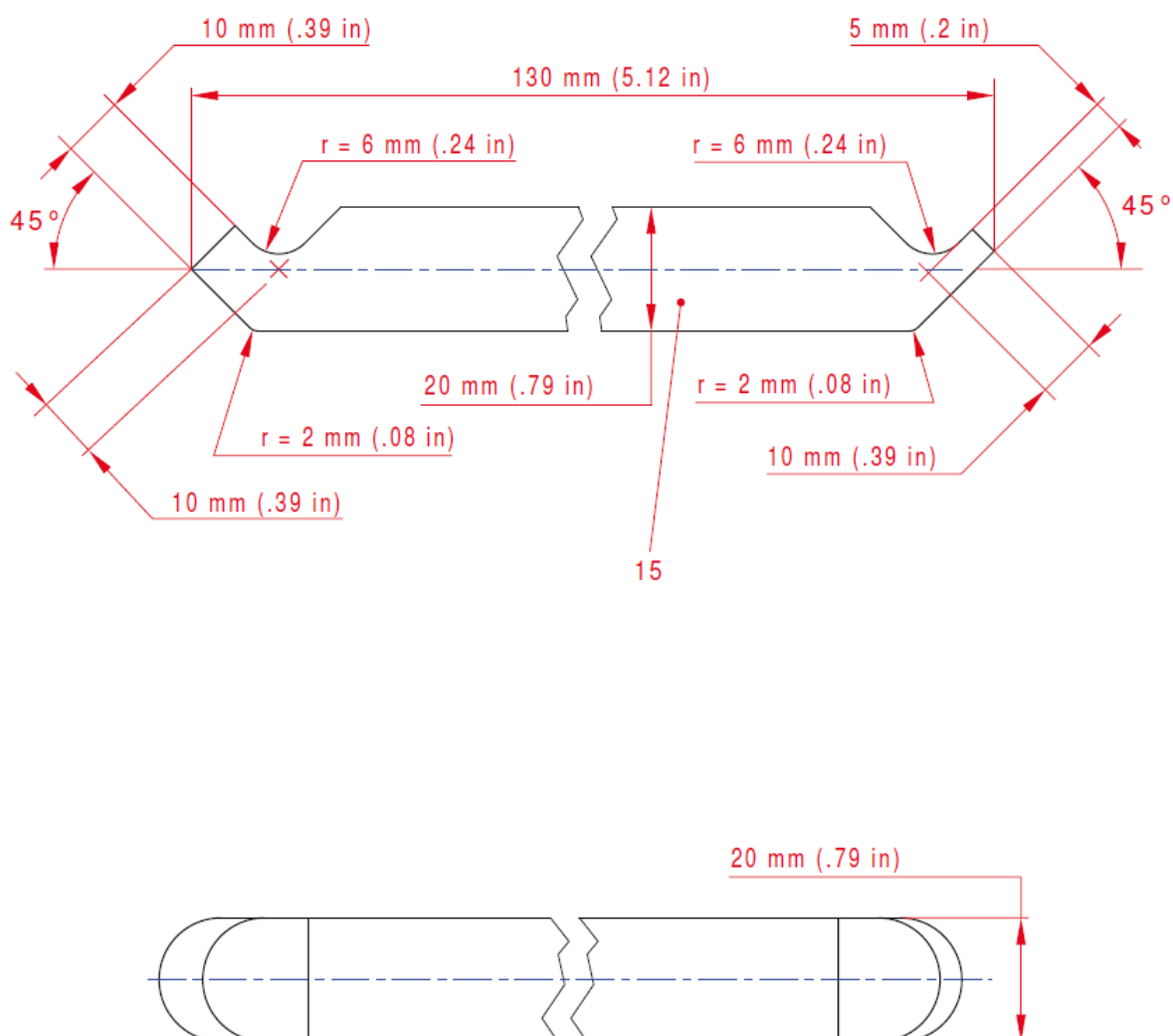


Figure 3

4. APPENDIX

4.A. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Y (1 /3)

FAC65763	FAC66748	FAET4283	FAF15543	FAFA2906	FAFC7855	FAFG9900	FAFN6817
FAC65765	FAC66749	FAET4284	FAF15546	FAFA2907	FAFC7860	FAFG9903	FAFN6818
FAC65766	FAC68793	FAET4285	FAF15547	FAFA2908	FAFC7865	FAFG9906	FAFN6819
FAC65768		FAET4286	FAF15548	FAFA2909		FAFG9907	FAFN6820
FAC65769	FACY8165	FAET4287	FAF15549	FAFA2910	FAFG1822	FAFG9909	FAFN6821
FAC65770	FACY8235	FAET4289	FAF15699	FAFA2911	FAFG8092	FAFG9912	FAFN6823
FAC65771	FACY8246	FAET4290	FAF15700	FAFA2925	FAFG8093	FAFG9913	FAFN6824
FAC65773	FACY8247	FAET4291	FAF15704	FAFA2926	FAFG8094	FAFG9914	FAFN6825
FAC65774	FACY8250	FAET4292	FAF15705	FAFA2927	FAFG8095	FAFG9916	FAFN6826
FAC65775	FACY8253	FAET4293	FAF15706	FAFA2928	FAFG8097	FAFG9918	FAFN6828
FAC65776	FACY8254	FAET4294	FAF15709	FAFA2929	FAFG8099	FAFG9919	FAFN6830
FAC65777	FACY8262	FAET4295	FAF15710	FAFA2931	FAFG8100	FAFG9922	FAFN6831
FAC65778		FAET4297	FAF15711	FAFA2934	FAFG8101	FAFG9924	FAFN6832
FAC65779	FAEK6733	FAET4298	FAF15712	FAFA2935	FAFG8102	FAFG9925	FAFN6833
FAC65780		FAET4299	FAF15713	FAFA2937	FAFG8103	FAFG9926	FAFN6834
FAC65781	FAET4257	FAET4300	FAF15714	FAFA2938	FAFG8104	FAFG9927	FAFN6835
FAC65782	FAET4258		FAF15715	FAFA2940	FAFG8105	FAFG9928	FAFN6836
FAC65784	FAET4259	FAEV6154	FAF2938A	FAFA2941	FAFG8106	FAFG9930	FAFN6837
FAC65785	FAET4260		FAF88676	FAFA2942	FAFG8107	FAFG9931	FAFN6838
FAC65786	FAET4261	FAF14553	FAF88678	FAFA2944	FAFG8108	FAFG9932	FAFN6839
FAC65788	FAET4262	FAF14996	FAF88681	FAFA2945	FAFG8109	FAFG9933	FAFN6841
FAC65789	FAET4263	FAF14998	FAF88686	FAFA2946	FAFG8110		FAFN6842
FAC65790	FAET4264	FAF15000	FAF88687	FAFA6592	FAFG8111	FAFN4171	FAFN6843
FAC65791	FAET4265	FAF15002		FAFA6593	FAFG8113	FAFN4187	FAFN6844
FAC65792	FAET4266	FAF15003	FAFA2891	FAFA6594	FAFG8114	FAFN4197	FAFN7922
FAC65793	FAET4267	FAF15004	FAFA2892	FAFA6595	FAFG8115	FAFN4199	FAFN7923
FAC65794	FAET4268	FAF15006	FAFA2893	FAFA6596	FAFG8119	FAFN4205	FAFN7924
FAC65795	FAET4269	FAF15007	FAFA2894	FAFA6597	FAFG8120	FAFN5192	FAFN7926
FAC66681	FAET4270	FAF15008	FAFA2895	FAFA6598	FAFG8121	FAFN6806	FAFN7929
FAC66682	FAET4271	FAF15012	FAFA2896	FAFA6599	FAFG8122	FAFN6807	FAFN7930
FAC66683	FAET4272	FAF15014	FAFA2897	FAFA6600	FAFG8123	FAFN6808	FAFN7931
FAC66684	FAET4273	FAF15019	FAFA2898	FAFA6601	FAFG8124	FAFN6809	FAFN7933
FAC66685	FAET4274	FAF15021	FAFA2899		FAFG8126	FAFN6810	FAFN7934
FAC66686	FAET4275	FAF15023	FAFA2900	FAFC7842	FAFG8128	FAFN6811	FAFN7935
FAC66687	FAET4277	FAF15025	FAFA2901	FAFC7844	FAFG8129	FAFN6812	FAFN7936
FAC66688	FAET4278	FAF15030	FAFA2902	FAFC7846	FAFG8130	FAFN6813	FAFN7937
FAC66732	FAET4280	FAF15515	FAFA2903		FAFG8896	FAFN6814	FAFN7938
FAC66738	FAET4281	FAF15516	FAFA2904	FAFC7849	FAFG8909	FAFN6815	FAFN7940
FAC66740	FAET4282	FAF15542	FAFA2905	FAFC7853	FAFG9898	FAFN6816	FAFN7941

4.A. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Y (2/3)

FAFN7942	FAGA0754	FAGE7508	FAGL0118	FAGM4801	FAGM5519	FAGP3593	FAGP7047
	FAGA0755	FAGE7509	FAGL0119	FAGM4802	FAGM5520	FAGP3594	
FAFN7944	FAGA0757	FAGE7510	FAGL0120	FAGM4804	FAGM5521	FAGP3595	FAGR0169
FAFN7945	FAGA0758	FAGE7741	FAGL0121	FAGM4805	FAGM5522	FAGP3596	FAGR0171
FAFN7946	FAGA0759	FAGE7742	FAGL0122	FAGM4807	FAGM5523	FAGP3597	FAGR0173
FAFN7947	FAGA0760	FAGE7743	FAGL0435	FAGM4809	FAGM6928	FAGP3598	FAGR0174
FAFN7949	FAGA0761	FAGE7744	FAGL0436	FAGM4810	FAGM6933	FAGP3599	FAGR0175
FAFN7950	FAGA0762		FAGL0438	FAGM4811	FAGM6934	FAGP3600	FAGR0176
FAFN7951	FAGA0763	FAGK3562	FAGL0439	FAGM4814	FAGM6935	FAGP3601	FAGR0178
FAFN7952	FAGA0764	FAGK3566	FAGL0440	FAGM4815	FAGM6939	FAGP3602	FAGR0181
FAFN7953	FAGA0765	FAGK3567	FAGL0442	FAGM4820	FAGM6940	FAGP3603	FAGR0182
FAFN7954	FAGA0766	FAGK3569	FAGL0444	FAGM4822	FAGM6944	FAGP3604	FAGR0183
FAFN7955	FAGA0767	FAGK3571	FAGL0446	FAGM4823	FAGM6990	FAGP3605	FAGR0184
FAFN7956	FAGA0768	FAGK3572	FAGL0447	FAGM4824	FAGM6992	FAGP7008	FAGR0185
FAFN7957	FAGA0769	FAGK3573	FAGL0451	FAGM4825	FAGM6995	FAGP7009	FAGR9940
FAFN7958	FAGA0770	FAGK3575	FAGL0452	FAGM4827	FAGM9998	FAGP7011	FAGR9943
FAFN7959	FAGA0771	FAGK3577	FAGL3645	FAGM4830		FAGP7014	FAGR9944
FAFN7960	FAGA0772	FAGK6341	FAGL3646	FAGM4832	FAGP0002	FAGP7018	FAGR9948
	FAGA3510	FAGK6345	FAGL3648	FAGM4833	FAGP0004	FAGP7020	FAGR9950
FAG99713	FAGA3511	FAGK6346	FAGL3650	FAGM4834	FAGP0005	FAGP7021	FAGR9953
FAG99714	FAGA3512	FAGK6349	FAGL9355	FAGM5468	FAGP0007	FAGP7023	FAGR9955
FAG99715	FAGA3513	FAGK6350	FAGL9357	FAGM5469	FAGP0011	FAGP7024	FAGR9957
FAG99716	FAGA3515	FAGK6353	FAGL9358	FAGM5471	FAGP0012	FAGP7025	FAGR9960
FAG99717	FAGA3516	FAGK6356	FAGL9359	FAGM5472	FAGP0015	FAGP7026	FAGR9962
FAG99718	FAGA3517	FAGK6358	FAGL9360	FAGM5476	FAGP0778	FAGP7029	
FAG99719	FAGA3518		FAGL9361	FAGM5479	FAGP0779	FAGP7030	FAGT1159
FAG99720	FAGA3519	FAGL0104	FAGL9362	FAGM5480	FAGP0781	FAGP7032	FAGT1161
FAG99721	FAGA3520	FAGL0106	FAGL9363	FAGM5481	FAGP0782	FAGP7033	FAGT1163
FAG99722	FAGA3521	FAGL0107	FAGL9364	FAGM5482	FAGP0784	FAGP7034	FAGT1179
FAG99723	FAGA3522	FAGL0108	FAGL9368	FAGM5484	FAGP0785	FAGP7035	FAGT3062
FAG99724	FAGA3523	FAGL0109	FAGL9369	FAGM5485	FAGP0786	FAGP7037	FAGT3064
FAG99725	FAGA3524	FAGL0110	FAGL9372	FAGM5486	FAGP0789	FAGP7038	FAGT4642
FAG99726	FAGA3525	FAGL0111	FAGL9373	FAGM5487	FAGP0791	FAGP7040	FAGT4646
FAG99727	FAGA3526	FAGL0112	FAGL9374	FAGM5508	FAGP0792	FAGP7041	FAGT4649
FAG99728	FAGA3527	FAGL0113	FAGL9376	FAGM5509	FAGP0795	FAGP7042	FAGT4651
FAG99729		FAGL0114	FAGL9378	FAGM5511	FAGP3588	FAGP7043	FAGT4666
FAG99730	FAGE7503	FAGL0115		FAGM5512	FAGP3590	FAGP7044	FAGT4671
FAG99731	FAGE7505	FAGL0116	FAGM4797	FAGM5513	FAGP3591	FAGP7045	
FAG99732	FAGE7507	FAGL0117	FAGM4798	FAGM5516	FAGP3592	FAGP7046	

4.A. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Y (3/3)

FAGW9193	FAH34342	FAH37171	FAH43940	FAH46330	FAH46352		
FAGW9199	FAH34343	FAH37172	FAH43942	FAH46331	FAH46353		
FAGW9200	FAH34344	FAH37173	FAH43943	FAH46335	FAH46354		
FAGW9207	FAH34345	FAH37174	FAH43944	FAH46336	FAH46355		
FAGW9210	FAH34346	FAH37175	FAH43947	FAH46337	FAH46357		
FAGW9211	FAH34347	FAH37176	FAH43948	FAH46348	FAH48929		
FAGW9216	FAH34348	FAH37178	FAH43950	FAH46349	FAH48930		
	FAH34349	FAH37179	FAH43951	FAH46350	FAH48931		
FAH30892	FAH34350	FAH37180	FAH43953	FAH46351	FAH48941		
FAH30893	FAH34351	FAH37181	FAH43954		FAH48942		
FAH30894	FAH34352	FAH39870	FAH43955		FAH53580		
FAH30896	FAH34353	FAH39871	FAH43957		FAH53581		
FAH30897	FAH34355	FAH39872	FAH43958		FAH53582		
FAH30898	FAH34356	FAH39873	FAH43959		FAH53583		
FAH30911	FAH34357	FAH39874	FAH43964		FAH53584		
FAH30913	FAH34358	FAH39875	FAH43965		FAH53585		
FAH30914	FAH34359	FAH39876	FAH44872		FAH53588		
FAH30916	FAH34360	FAH39877	FAH44873		FAH53589		
FAH30918	FAH34361	FAH39878	FAH44874		FAH53591		
FAH30921	FAH34362	FAH39880	FAH44879		FAH53593		
FAH30923	FAH37147	FAH39881	FAH44880		FAH53594		
FAH30924	FAH37149	FAH39882	FAH44881		FAH53595		
FAH30925	FAH37150	FAH39883	FAH44883		FAH53598		
FAH30927	FAH37151	FAH39884	FAH44885		FAH53599		
FAH34323	FAH37152	FAH39885	FAH44888		FAH53600		
FAH34324	FAH37155	FAH39886	FAH44889		FAH53601		
FAH34325	FAH37156	FAH39887	FAH44890		FAH53602		
FAH34326	FAH37157	FAH39888	FAH44892		FAH53605		
FAH34327	FAH37158	FAH39890	FAH44893		FAH53606		
FAH34329	FAH37159	FAH39893	FAH44894		FAH53607		
FAH34330	FAH37160	FAH39894	FAH44895		FAH53608		
FAH34331	FAH37161	FAH39900	FAH44896		FAH53613		
FAH34334	FAH37162	FAH39901	FAH44906				
FAH34336	FAH37164	FAH39902	FAH44907				
FAH34337	FAH37165	FAH39903	FAH44908				
FAH34338	FAH37166	FAH39905	FAH46319				
FAH34339	FAH37167	FAH39906	FAH46325				
FAH34340	FAH37169	FAH39907	FAH46326				
FAH34341	FAH37170	FAH39908	FAH46329				

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (1/21)

FAA48916	FAA65618	FAA74081	FAA84601	FAA84645	FAA88752	FAA88807	FAAX5189
FAA48922	FAA65619	FAA74082	FAA84602	FAA84646	FAA88753	FAA88808	FAAX5190
FAA48924	FAA65741	FAA74084	FAA84603	FAA84647	FAA88754	FAA88809	FAAX5191
FAA48934	FAA65744	FAA74089	FAA84604	FAA84648	FAA88755	FAA88810	FAAX5192
FAA59123	FAA65750	FAA74090	FAA84605	FAA84649	FAA88756	FAA88811	FAAX5193
FAA59124	FAA65752	FAA74091	FAA84606	FAA84650	FAA88757	FAA88812	FAAX5194
FAA59125	FAA65753	FAA74092	FAA84607	FAA84651	FAA88758	FAA88813	FAAX5196
FAA59126	FAA65755	FAA74093	FAA84608	FAA84652	FAA88759	FAA88814	FAAX5197
FAA59127	FAA65764	FAA74095	FAA84609	FAA84653	FAA88760	FAA88815	FAAX5198
FAA59128	FAA71902	FAA74096	FAA84610	FAA84654	FAA88761	FAA88816	FAAX5200
FAA59129	FAA71903	FAA74097	FAA84611	FAA84655	FAA88762	FAA88817	FAAX5218
FAA59130	FAA71904	FAA74099	FAA84612	FAA84656	FAA88763	FAA88818	FAAX5220
FAA59131	FAA71906	FAA74100	FAA84614	FAA84677	FAA88764	FAA88819	FAAX5222
FAA59132	FAA71907	FAA74101	FAA84615	FAA84678	FAA88765	FAA88820	FAAX5223
FAA59133	FAA71909	FAA74105	FAA84616	FAA84679	FAA88766	FAA88821	FAAX5225
FAA59134	FAA71910	FAA74107	FAA84617	FAA84680	FAA88767	FAA88822	
FAA59135	FAA71912	FAA84570	FAA84618	FAA84681	FAA88768	FAA88823	
FAA59136	FAA71913	FAA84575	FAA84619	FAA84682	FAA88769	FAA88824	
FAA59138	FAA71917	FAA84576	FAA84620	FAA84683	FAA88770	FAA88825	
FAA59139	FAA71919	FAA84577	FAA84621	FAA84684	FAA88771	FAA88826	
FAA59140	FAA71922	FAA84579	FAA84622	FAA84685	FAA88772	FAA88827	
FAA59141	FAA71923	FAA84580	FAA84624	FAA84686	FAA88774	FAA88828	
FAA59142	FAA71926	FAA84582	FAA84625	FAA84687	FAA88776	FAA88829	
FAA59143	FAA71930	FAA84584	FAA84626	FAA84688	FAA88780	FAA88831	
FAA59144	FAA71937	FAA84585	FAA84629	FAA84689	FAA88781	FAA88832	
FAA59145	FAA71941	FAA84586	FAA84631	FAA84690	FAA88783		
FAA65591	FAA71944	FAA84587	FAA84632	FAA84691	FAA88784	FAAX5172	
FAA65592	FAA71947	FAA84588	FAA84633	FAA84692	FAA88786	FAAX5174	
FAA65593	FAA71948	FAA84589	FAA84634	FAA84693	FAA88787	FAAX5175	
FAA65594	FAA71950	FAA84590	FAA84635	FAA84694	FAA88789	FAAX5177	
FAA65596	FAA71955	FAA84591	FAA84636	FAA84695	FAA88791	FAAX5178	
FAA65599	FAA71960	FAA84592	FAA84637	FAA88744	FAA88798	FAAX5179	
FAA65601	FAA74069	FAA84593	FAA84638	FAA88745	FAA88799	FAAX5180	
FAA65603	FAA74071	FAA84594	FAA84639	FAA88746	FAA88800	FAAX5182	
FAA65606	FAA74072	FAA84596	FAA84640	FAA88747	FAA88801	FAAX5183	
FAA65610	FAA74074	FAA84597	FAA84641	FAA88748	FAA88802	FAAX5184	
FAA65611	FAA74075	FAA84598	FAA84642	FAA88749	FAA88804	FAAX5185	
FAA65612	FAA74078	FAA84599	FAA84643	FAA88750	FAA88805	FAAX5186	
FAA65613	FAA74080	FAA84600	FAA84644	FAA88751	FAA88806	FAAX5187	

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (2/21)

FAC14545	FAC25894	FAC27905	FAC27975	FAC55859	FAC55905	FAC56047	FAC56414
FAC14548	FAC25895	FAC27906	FAC27976	FAC55860	FAC55906	FAC56048	FAC56415
FAC14557	FAC25896	FAC27908	FAC27977	FAC55861	FAC55907	FAC56049	FAC56416
FAC14561	FAC25897	FAC27939	FAC27978	FAC55862	FAC55908	FAC56050	FAC56418
FAC14562	FAC25898	FAC27940	FAC27979	FAC55864	FAC55909	FAC56051	FAC56419
FAC14564	FAC25899	FAC27941	FAC27980	FAC55865	FAC55910	FAC56053	FAC56420
FAC14569	FAC25900	FAC27942	FAC27981	FAC55866	FAC55911	FAC56054	FAC56422
FAC14574	FAC25901	FAC27943	FAC27982	FAC55867	FAC55913	FAC56055	FAC56423
FAC14575	FAC25902	FAC27944	FAC27983	FAC55868	FAC55914	FAC56056	FAC56425
FAC14576	FAC25903	FAC27945	FAC27984	FAC55869	FAC55915	FAC56057	FAC56426
FAC14577	FAC25904	FAC27946	FAC27985	FAC55870	FAC55916	FAC56058	FAC56427
FAC14578	FAC25905	FAC27947	FAC27986	FAC55871	FAC55917	FAC56059	FAC56428
FAC14579	FAC25906	FAC27948	FAC27987	FAC55872	FAC55918	FAC56060	FAC56429
FAC14580	FAC25907	FAC27949	FAC27988	FAC55873	FAC56020	FAC56061	FAC56430
FAC14581	FAC25908	FAC27950	FAC27989	FAC55874	FAC56021	FAC56062	FAC56431
FAC14582	FAC25909	FAC27951	FAC27990	FAC55875	FAC56022	FAC56063	FAC56432
FAC14583	FAC25910	FAC27952	FAC27991	FAC55876	FAC56023	FAC56064	FAC56433
FAC14584	FAC25911	FAC27953	FAC27992	FAC55877	FAC56024	FAC56065	FAC56434
FAC14585	FAC25912	FAC27954	FAC27993	FAC55880	FAC56025	FAC56066	FAC56435
FAC14586	FAC25913	FAC27955	FAC27994	FAC55881	FAC56026	FAC56068	FAC56436
FAC14587	FAC25914	FAC27956	FAC27995	FAC55884	FAC56027	FAC56069	FAC56437
FAC14588	FAC25915	FAC27957	FAC27997	FAC55885	FAC56028	FAC56070	FAC56439
FAC14589	FAC27879	FAC27958	FAC44773	FAC55887	FAC56029	FAC56071	FAC56440
FAC14590	FAC27881	FAC27959	FAC44776	FAC55888	FAC56030	FAC56072	FAC56441
FAC14591	FAC27882	FAC27960	FAC44777	FAC55889	FAC56031	FAC56073	FAC56442
FAC14592	FAC27884	FAC27961	FAC44778	FAC55890	FAC56032	FAC56074	FAC56443
FAC14690	FAC27885	FAC27962	FAC44779	FAC55891	FAC56033	FAC56075	FAC56444
FAC14693	FAC27887	FAC27963	FAC44781	FAC55892	FAC56034	FAC56076	FAC56445
FAC14699	FAC27892	FAC27964	FAC44782	FAC55893	FAC56035	FAC56077	FAC56448
FAC14700	FAC27893	FAC27965	FAC44784	FAC55894	FAC56036	FAC56078	FAC56449
FAC14705	FAC27894	FAC27966	FAC55848	FAC55895	FAC56037	FAC56079	FAC56451
FAC14707	FAC27895	FAC27967	FAC55850	FAC55896	FAC56038	FAC56080	FAC56452
FAC25887	FAC27896	FAC27968	FAC55851	FAC55897	FAC56039	FAC56081	FAC57789
FAC25888	FAC27897	FAC27969	FAC55852	FAC55898	FAC56041	FAC56082	FAC57790
FAC25889	FAC27899	FAC27970	FAC55853	FAC55899	FAC56042	FAC56083	FAC57791
FAC25890	FAC27900	FAC27971	FAC55854	FAC55900	FAC56043	FAC56084	FAC57792
FAC25891	FAC27901	FAC27972	FAC55856	FAC55901	FAC56044	FAC56087	FAC57793
FAC25892	FAC27902	FAC27973	FAC55857	FAC55902	FAC56045	FAC56088	FAC57794
FAC25893	FAC27904	FAC27974	FAC55858	FAC55903	FAC56046	FAC56089	FAC57795

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (3/21)

FAC57796	FAC57835	FAC58525	FAC58662	FAC58702	FAC58759	FAC58801	FAC58844
FAC57797	FAC57836	FAC58526	FAC58663	FAC58703	FAC58760	FAC58802	FAC58845
FAC57798	FAC57837	FAC58527	FAC58664	FAC58704	FAC58762	FAC58804	FAC58846
FAC57799	FAC57838	FAC58528	FAC58665	FAC58705	FAC58763	FAC58806	FAC58847
FAC57800	FAC57839	FAC58529	FAC58666	FAC58706	FAC58764	FAC58807	FAC58848
FAC57801	FAC57840	FAC58530	FAC58667	FAC58707	FAC58765	FAC58808	FAC58849
FAC57802	FAC57841	FAC58531	FAC58668	FAC58708	FAC58766	FAC58809	FAC58850
FAC57803	FAC57842	FAC58532	FAC58669	FAC58709	FAC58767	FAC58810	FAC58851
FAC57804	FAC57843	FAC58533	FAC58670	FAC58713	FAC58768	FAC58812	FAC58852
FAC57805	FAC57844	FAC58534	FAC58671	FAC58715	FAC58769	FAC58813	FAC58853
FAC57806	FAC57845	FAC58535	FAC58672	FAC58716	FAC58771	FAC58814	FAC58854
FAC57807	FAC57846	FAC58536	FAC58673	FAC58717	FAC58772	FAC58815	FAC58855
FAC57808	FAC57847	FAC58537	FAC58674	FAC58718	FAC58773	FAC58816	FAC58856
FAC57809	FAC57848	FAC58539	FAC58675	FAC58719	FAC58774	FAC58817	FAC58857
FAC57810	FAC57849	FAC58637	FAC58676	FAC58720	FAC58775	FAC58818	FAC58859
FAC57811	FAC57850	FAC58638	FAC58677	FAC58722	FAC58776	FAC58819	FAC58860
FAC57812	FAC57851	FAC58639	FAC58678	FAC58725	FAC58777	FAC58820	FAC58862
FAC57813	FAC57852	FAC58640	FAC58679	FAC58726	FAC58778	FAC58821	FAC58865
FAC57814	FAC57853	FAC58641	FAC58680	FAC58728	FAC58779	FAC58822	FAC58866
FAC57815	FAC57854	FAC58642	FAC58681	FAC58729	FAC58780	FAC58823	FAC58868
FAC57816	FAC57855	FAC58643	FAC58682	FAC58730	FAC58781	FAC58824	FAC58872
FAC57817	FAC58507	FAC58644	FAC58683	FAC58736	FAC58782	FAC58825	FAC58874
FAC57818	FAC58508	FAC58645	FAC58684	FAC58739	FAC58783	FAC58826	FAC58876
FAC57819	FAC58509	FAC58646	FAC58685	FAC58740	FAC58784	FAC58827	FAC58878
FAC57820	FAC58510	FAC58647	FAC58686	FAC58741	FAC58785	FAC58828	FAC58879
FAC57821	FAC58511	FAC58648	FAC58687	FAC58743	FAC58786	FAC58829	FAC58880
FAC57822	FAC58512	FAC58649	FAC58688	FAC58744	FAC58787	FAC58830	FAC58881
FAC57823	FAC58513	FAC58650	FAC58689	FAC58745	FAC58788	FAC58831	FAC58882
FAC57824	FAC58514	FAC58651	FAC58690	FAC58746	FAC58789	FAC58832	FAC58884
FAC57825	FAC58515	FAC58652	FAC58692	FAC58748	FAC58790	FAC58833	FAC58888
FAC57826	FAC58516	FAC58653	FAC58693	FAC58749	FAC58791	FAC58834	FAC58889
FAC57827	FAC58517	FAC58654	FAC58694	FAC58750	FAC58792	FAC58835	FAC58890
FAC57828	FAC58518	FAC58655	FAC58695	FAC58751	FAC58793	FAC58836	FAC58891
FAC57829	FAC58519	FAC58656	FAC58696	FAC58752	FAC58794	FAC58837	FAC58892
FAC57830	FAC58520	FAC58657	FAC58697	FAC58753	FAC58795	FAC58838	FAC58893
FAC57831	FAC58521	FAC58658	FAC58698	FAC58754	FAC58796	FAC58839	FAC58895
FAC57832	FAC58522	FAC58659	FAC58699	FAC58755	FAC58797	FAC58840	FAC58896
FAC57833	FAC58523	FAC58660	FAC58700	FAC58756	FAC58798	FAC58841	FAC58897
FAC57834	FAC58524	FAC58661	FAC58701	FAC58757	FAC58800	FAC58842	FAC58898

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (4/21)

FAC58899	FAC58970	FAC59011	FAC59183	FAC65578	FAC65621	FAC65706	FAC66711
FAC58900	FAC58971	FAC59012	FAC59184	FAC65579	FAC65622	FAC65707	FAC66712
FAC58901	FAC58972	FAC59013	FAC59185	FAC65580	FAC65623	FAC65708	FAC66713
FAC58902	FAC58973	FAC59014	FAC59186	FAC65581	FAC65624	FAC65709	FAC66714
FAC58903	FAC58974	FAC59015	FAC59187	FAC65582	FAC65625	FAC65710	FAC66715
FAC58904	FAC58975	FAC59016	FAC59188	FAC65583	FAC65626	FAC65711	FAC66716
FAC58907	FAC58976	FAC59017	FAC59189	FAC65584	FAC65627	FAC65712	FAC66717
FAC58910	FAC58977	FAC59019	FAC59190	FAC65585	FAC65629	FAC65714	FAC66718
FAC58911	FAC58978	FAC59020	FAC59191	FAC65586	FAC65630	FAC65716	FAC66719
FAC58912	FAC58979	FAC59021	FAC59192	FAC65588	FAC65631	FAC65717	FAC66720
FAC58913	FAC58980	FAC59022	FAC59193	FAC65589	FAC65632	FAC65718	FAC66721
FAC58914	FAC58981	FAC59023	FAC59195	FAC65590	FAC65633	FAC65720	FAC66722
FAC58915	FAC58982	FAC59024	FAC59196	FAC65591	FAC65634	FAC65721	FAC66723
FAC58916	FAC58983	FAC59025	FAC59197	FAC65592	FAC65637	FAC65722	FAC66724
FAC58918	FAC58984	FAC59026	FAC59198	FAC65593	FAC65638	FAC65724	FAC66725
FAC58919	FAC58985	FAC59027	FAC59199	FAC65594	FAC65640	FAC65725	FAC66726
FAC58920	FAC58986	FAC59028	FAC65550	FAC65595	FAC65641	FAC65726	FAC66727
FAC58921	FAC58987	FAC59029	FAC65551	FAC65596	FAC65642	FAC65727	FAC66728
FAC58922	FAC58988	FAC59030	FAC65552	FAC65597	FAC65644	FAC65728	FAC66729
FAC58923	FAC58990	FAC59031	FAC65553	FAC65598	FAC65646	FAC66654	FAC66730
FAC58924	FAC58991	FAC59032	FAC65556	FAC65599	FAC65647	FAC66690	FAC66734
FAC58925	FAC58992	FAC59033	FAC65558	FAC65600	FAC65649	FAC66691	FAC66735
FAC58926	FAC58993	FAC59034	FAC65559	FAC65601	FAC65650	FAC66692	FAC66736
FAC58927	FAC58994	FAC59035	FAC65560	FAC65602	FAC65652	FAC66693	FAC66737
FAC58928	FAC58995	FAC59037	FAC65561	FAC65603	FAC65653	FAC66695	FAC66739
FAC58930	FAC58996	FAC59166	FAC65562	FAC65604	FAC65672	FAC66696	FAC66741
FAC58938	FAC58997	FAC59167	FAC65563	FAC65605	FAC65693	FAC66697	FAC66742
FAC58939	FAC58998	FAC59168	FAC65564	FAC65606	FAC65694	FAC66698	FAC66744
FAC58943	FAC58999	FAC59169	FAC65565	FAC65607	FAC65695	FAC66699	FAC66745
FAC58946	FAC59000	FAC59170	FAC65566	FAC65608	FAC65696	FAC66700	FAC66747
FAC58948	FAC59001	FAC59171	FAC65567	FAC65609	FAC65697	FAC66701	FAC66750
FAC58953	FAC59003	FAC59172	FAC65568	FAC65610	FAC65698	FAC66702	FAC66753
FAC58958	FAC59004	FAC59173	FAC65570	FAC65612	FAC65699	FAC66703	FAC77905
FAC58962	FAC59005	FAC59174	FAC65571	FAC65614	FAC65700	FAC66704	FAC77906
FAC58964	FAC59006	FAC59176	FAC65573	FAC65615	FAC65701	FAC66705	FAC77907
FAC58966	FAC59007	FAC59177	FAC65574	FAC65616	FAC65702	FAC66706	FAC77908
FAC58967	FAC59008	FAC59178	FAC65575	FAC65617	FAC65703	FAC66707	FAC77909
FAC58968	FAC59009	FAC59179	FAC65576	FAC65618	FAC65704	FAC66709	FAC77910
FAC58969	FAC59010	FAC59181	FAC65577	FAC65619	FAC65705	FAC66710	FAC77911

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (5/21)

FAC77912	FAC81824	FAC83867	FAC84389	FAC88335	FAC88377	FAC88419	FAC88462
FAC77913	FAC81825	FAC83868	FAC84390	FAC88336	FAC88378	FAC88420	FAC88463
FAC77915	FAC81826	FAC83869	FAC84391	FAC88337	FAC88379	FAC88421	FAC88464
FAC77916	FAC81827	FAC83870	FAC88298	FAC88339	FAC88380	FAC88422	FAC88465
FAC77917	FAC81828	FAC83871	FAC88299	FAC88340	FAC88381	FAC88423	FAC88466
FAC77918	FAC81829	FAC83872	FAC88300	FAC88341	FAC88382	FAC88424	FAC88467
FAC77920	FAC81830	FAC83873	FAC88301	FAC88342	FAC88383	FAC88425	FAC88468
FAC77921	FAC81831	FAC83874	FAC88302	FAC88343	FAC88384	FAC88426	FAC88469
FAC81038	FAC81832	FAC83875	FAC88303	FAC88344	FAC88385	FAC88427	FAC88470
FAC81039	FAC81833	FAC84359	FAC88304	FAC88345	FAC88386	FAC88428	FAC88471
FAC81040	FAC81834	FAC84360	FAC88305	FAC88346	FAC88387	FAC88429	FAC88472
FAC81041	FAC81835	FAC84361	FAC88306	FAC88347	FAC88388	FAC88430	FAC88473
FAC81042	FAC81836	FAC84362	FAC88307	FAC88348	FAC88389	FAC88431	FAC88474
FAC81043	FAC81837	FAC84363	FAC88308	FAC88349	FAC88390	FAC88432	FAC88475
FAC81044	FAC83842	FAC84364	FAC88309	FAC88350	FAC88391	FAC88433	FAC88476
FAC81045	FAC83843	FAC84365	FAC88310	FAC88351	FAC88392	FAC88434	FAC88478
FAC81046	FAC83844	FAC84366	FAC88311	FAC88352	FAC88394	FAC88435	FAC88479
FAC81047	FAC83845	FAC84367	FAC88313	FAC88353	FAC88395	FAC88436	FAC88480
FAC81048	FAC83846	FAC84368	FAC88314	FAC88355	FAC88396	FAC88437	FAC88481
FAC81049	FAC83847	FAC84369	FAC88315	FAC88356	FAC88397	FAC88438	FAC88482
FAC81050	FAC83848	FAC84370	FAC88316	FAC88357	FAC88398	FAC88439	FAC88483
FAC81051	FAC83849	FAC84371	FAC88317	FAC88358	FAC88399	FAC88440	FAC88484
FAC81052	FAC83850	FAC84372	FAC88318	FAC88359	FAC88400	FAC88442	FAC88485
FAC81053	FAC83851	FAC84373	FAC88319	FAC88360	FAC88401	FAC88443	FAC88486
FAC81054	FAC83852	FAC84374	FAC88320	FAC88361	FAC88402	FAC88444	FAC88487
FAC81055	FAC83853	FAC84375	FAC88321	FAC88362	FAC88403	FAC88445	FAC88489
FAC81056	FAC83854	FAC84376	FAC88322	FAC88363	FAC88404	FAC88446	FAC88490
FAC81057	FAC83855	FAC84377	FAC88323	FAC88364	FAC88406	FAC88449	FAC88491
FAC81058	FAC83856	FAC84378	FAC88324	FAC88365	FAC88407	FAC88450	FAC88493
FAC81059	FAC83857	FAC84379	FAC88325	FAC88366	FAC88408	FAC88451	FAC88495
FAC81060	FAC83858	FAC84380	FAC88326	FAC88367	FAC88409	FAC88452	FAC88497
FAC81061	FAC83859	FAC84381	FAC88327	FAC88368	FAC88410	FAC88453	FAC88498
FAC81815	FAC83860	FAC84382	FAC88328	FAC88370	FAC88411	FAC88454	FAC88500
FAC81816	FAC83861	FAC84383	FAC88329	FAC88371	FAC88412	FAC88455	FAC88501
FAC81817	FAC83862	FAC84384	FAC88330	FAC88372	FAC88413	FAC88457	FAC88502
FAC81818	FAC83863	FAC84385	FAC88331	FAC88373	FAC88414	FAC88458	FAC88503
FAC81819	FAC83864	FAC84386	FAC88332	FAC88374	FAC88416	FAC88459	FAC88504
FAC81820	FAC83865	FAC84387	FAC88333	FAC88375	FAC88417	FAC88460	FAC88505
FAC81823	FAC83866	FAC84388	FAC88334	FAC88376	FAC88418	FAC88461	FAC88506

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (6/21)

FAC88507	FAC94232	FAC94272	FACE4150	FACF6626	FACH5527	FACH6617	FACH7838
FAC88508	FAC94233	FAC94273	FACE4158	FACF6630	FACH5529	FACH6618	FACH7839
FAC88509	FAC94235	FAC94274	FACE9088	FACF6632	FACH5530	FACH6619	FACH7840
FAC88510	FAC94236	FAC94275	FACE9090	FACF6639	FACH5533	FACH6624	FACH7841
FAC88511	FAC94237	FAC94276	FACE9091	FACF6642	FACH5536	FACH6625	FACH7842
FAC88512	FAC94238	FAC94277	FACE9093	FACF6644	FACH5538	FACH6626	FACH7843
FAC88513	FAC94239	FAC94278	FACE9094	FACF6646	FACH5540	FACH6627	
FAC94199	FAC94240	FAC94279	FACE9096		FACH5541	FACH6629	FACJ7824
FAC94200	FAC94241	FAC94280	FACE9099	FACG1496	FACH5542	FACH6630	FACJ7828
FAC94201	FAC94242	FAC94281	FACE9102	FACG1498	FACH5543	FACH6632	FACJ7829
FAC94202	FAC94243	FAC94282	FACE9103	FACG1499	FACH6579	FACH6633	FACJ8605
FAC94203	FAC94244	FAC94283	FACE9104	FACG1502	FACH6580	FACH6634	FACJ8606
FAC94204	FAC94245	FAC94284	FACE9105	FACG1505	FACH6581	FACH6635	FACJ8607
FAC94205	FAC94246	FAC94285	FACE9106	FACG1507	FACH6582	FACH6636	FACJ8608
FAC94206	FAC94247	FAC94286	FACE9107	FACG1515	FACH6583	FACH6638	FACJ8609
FAC94207	FAC94248	FAC94287	FACE9108	FACG1523	FACH6584	FACH6639	FACJ8610
FAC94208	FAC94249	FAC94288	FACE9109	FACG1525	FACH6585	FACH6640	FACJ8611
FAC94209	FAC94250	FAC94289	FACE9111	FACG1526	FACH6586	FACH6641	FACJ8612
FAC94210	FAC94251	FAC94290	FACE9112	FACG1527	FACH6587	FACH7815	FACJ8613
FAC94211	FAC94252	FAC94291	FACE9114	FACG1528	FACH6588	FACH7816	FACJ8614
FAC94212	FAC94253	FAC94292	FACE9116	FACG1529	FACH6589	FACH7817	FACJ8615
FAC94214	FAC94254	FAC94295	FACE9117	FACG1530	FACH6590	FACH7818	FACJ8616
FAC94215	FAC94255	FAC94296		FACG1532	FACH6592	FACH7819	FACJ8617
FAC94216	FAC94256	FAC94297	FACF6113	FACG1533	FACH6595	FACH7820	FACJ8618
FAC94217	FAC94257	FAC94298	FACF6600	FACG1534	FACH6596	FACH7821	
FAC94218	FAC94258	FAC94299	FACF6601	FACG1535	FACH6597	FACH7822	FACK8238
FAC94219	FAC94259	FAC94300	FACF6604	FACG1536	FACH6598	FACH7823	
FAC94220	FAC94260	FAC94301	FACF6606	FACG1537	FACH6599	FACH7824	
FAC94221	FAC94261	FAC94302	FACF6607	FACG1538	FACH6600	FACH7825	
FAC94222	FAC94262	FAC94303	FACF6609		FACH6601	FACH7826	
FAC94223	FAC94263	FAC94304	FACF6610	FACH5516	FACH6602	FACH7828	
FAC94224	FAC94264	FAC94305	FACF6611	FACH5517	FACH6603	FACH7829	
FAC94225	FAC94265	FAC94306	FACF6612	FACH5518	FACH6604	FACH7831	
FAC94226	FAC94266	FAC94307	FACF6614	FACH5519	FACH6605	FACH7832	
FAC94227	FAC94267	FAC94308	FACF6616	FACH5520	FACH6606	FACH7833	
FAC94228	FAC94268	FACC3547	FACF6618	FACH5521	FACH6607	FACH7834	
FAC94229	FAC94269	FACC3551	FACF6622	FACH5523	FACH6608	FACH7835	
FAC94230	FAC94270	FACC3552	FACF6623	FACH5524	FACH6615	FACH7836	
FAC94231	FAC94271		FACF6624	FACH5525	FACH6616	FACH7837	

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (7/21)

FACL1821	FACL1868	FACM3757	FACM3806	FACM3852	FACM3895	FACN4759	FACN4805
FACL1822	FACL1869	FACM3758	FACM3807	FACM3853	FACM3896	FACN4760	FACN4806
FACL1823	FACL1870	FACM3759	FACM3808	FACM3854	FACM3897	FACN4761	FACN4809
FACL1824	FACL1871	FACM3760	FACM3809	FACM3855	FACM3898	FACN4762	FACN4810
FACL1825	FACL1872	FACM3763	FACM3810	FACM3857	FACM3899	FACN4764	FACN4811
FACL1826	FACL1873	FACM3764	FACM3811	FACM3858	FACM3900	FACN4765	FACN4812
FACL1827	FACL1874	FACM3765	FACM3812	FACM3859	FACM3901	FACN4767	FACN4813
FACL1828	FACL1875	FACM3766	FACM3813	FACM3860	FACM3902	FACN4768	FACN4814
FACL1829	FACL1877	FACM3767	FACM3814	FACM3861	FACM3903	FACN4769	FACN4815
FACL1831	FACL1879	FACM3768	FACM3815	FACM3862		FACN4770	FACN4816
FACL1832	FACL2409	FACM3769	FACM3817	FACM3863	FACN4729	FACN4771	FACN4817
FACL1833	FACL2410	FACM3770	FACM3818	FACM3864	FACN4730	FACN4772	FACN4818
FACL1834	FACL2411	FACM3771	FACM3819	FACM3865	FACN4731	FACN4773	FACN4819
FACL1835		FACM3772	FACM3820	FACM3866	FACN4732	FACN4774	FACN4820
FACL1838	FACM3699	FACM3774	FACM3821	FACM3868	FACN4733	FACN4775	FACN4821
FACL1839	FACM3706	FACM3775	FACM3822	FACM3869	FACN4734	FACN4776	FACN4822
FACL1840	FACM3709	FACM3776	FACM3823	FACM3870	FACN4735	FACN4777	FACN4823
FACL1841	FACM3711	FACM3777	FACM3824	FACM3871	FACN4736	FACN4779	FACN4824
FACL1842	FACM3726	FACM3778	FACM3825	FACM3872	FACN4738	FACN4780	FACN4825
FACL1843	FACM3727	FACM3779	FACM3826	FACM3873	FACN4739	FACN4781	FACN4848
FACL1844	FACM3729	FACM3780	FACM3827	FACM3874	FACN4740	FACN4782	FACN4849
FACL1845	FACM3730	FACM3783	FACM3829	FACM3875	FACN4741	FACN4783	FACN4850
FACL1846	FACM3731	FACM3784	FACM3830	FACM3876	FACN4742	FACN4784	FACN4851
FACL1847	FACM3733	FACM3785	FACM3831	FACM3878	FACN4743	FACN4785	FACN4852
FACL1848	FACM3734	FACM3786	FACM3832	FACM3879	FACN4744	FACN4786	FACN4854
FACL1849	FACM3735	FACM3790	FACM3833	FACM3880	FACN4745	FACN4788	FACN4855
FACL1851	FACM3742	FACM3791	FACM3835	FACM3881	FACN4746	FACN4789	FACN4856
FACL1852	FACM3743	FACM3792	FACM3836	FACM3882	FACN4747	FACN4791	FACN4857
FACL1853	FACM3744	FACM3793	FACM3837	FACM3883	FACN4748	FACN4792	FACN4858
FACL1854	FACM3745	FACM3794	FACM3838	FACM3884	FACN4749	FACN4793	FACN4859
FACL1855	FACM3747	FACM3795	FACM3840	FACM3885	FACN4750	FACN4794	FACN4860
FACL1856	FACM3748	FACM3796	FACM3841	FACM3886	FACN4751	FACN4795	FACN4861
FACL1857	FACM3749	FACM3797	FACM3842	FACM3888	FACN4752	FACN4796	FACN4862
FACL1858	FACM3750	FACM3798	FACM3843	FACM3889	FACN4753	FACN4797	FACN4864
FACL1861	FACM3752	FACM3800	FACM3846	FACM3890	FACN4754	FACN4798	FACN4865
FACL1862	FACM3753	FACM3801	FACM3848	FACM3891	FACN4755	FACN4799	FACN4866
FACL1863	FACM3754	FACM3802	FACM3849	FACM3892	FACN4756	FACN4800	FACN4867
FACL1866	FACM3755	FACM3804	FACM3850	FACM3893	FACN4757	FACN4802	FACN4868
FACL1867	FACM3756	FACM3805	FACM3851	FACM3894	FACN4758	FACN4804	FACN4869

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (8/21)

FACN4870	FACN4914	FACR1360	FACV8832	FACW0853	FACW1032	FACW5740	FACW5818
FACN4871	FACN4915	FACR1361	FACV8833	FACW0854	FACW1034	FACW5741	FACW5819
FACN4872	FACN4916	FACR1362	FACV8834	FACW0855	FACW1035	FACW5742	FACW5820
FACN4873	FACN4917	FACR1363	FACV8835	FACW0856	FACW1036	FACW5743	FACW5821
FACN4874	FACN4918	FACR1364	FACV8836	FACW0857	FACW1040	FACW5744	FACW5823
FACN4875	FACN4919	FACR1365	FACV8837	FACW0858	FACW1041	FACW5745	FACW5824
FACN4876	FACN4920	FACR1366	FACV8838	FACW0859	FACW1042	FACW5746	FACW5825
FACN4877	FACN4921	FACR1367	FACV8839	FACW0860	FACW1043	FACW5747	FACW5826
FACN4878	FACN4922	FACR1368	FACV8840	FACW0862	FACW1044	FACW5748	FACW5827
FACN4879	FACN4923	FACR1369	FACV8841	FACW0864	FACW1045	FACW5749	FACW5955
FACN4880	FACN4924	FACR1370	FACV8842	FACW0865	FACW1046	FACW5750	FACW5956
FACN4881	FACN4925	FACR1371	FACV8843	FACW0866	FACW1047	FACW5751	FACW5957
FACN4882	FACN4926	FACR1372	FACV8844	FACW0867	FACW1048	FACW5752	FACW5958
FACN4883	FACN4928	FACR1373	FACV8845	FACW0870	FACW1049	FACW5753	FACW5959
FACN4885	FACN4929	FACR1374	FACV8846	FACW0871	FACW1050	FACW5754	FACW5960
FACN4886	FACN4930	FACR1375	FACV8847	FACW0872	FACW1051	FACW5755	FACW5961
FACN4887	FACN4931	FACR1376	FACV8848	FACW0873	FACW1052	FACW5756	FACW5962
FACN4888	FACN4932	FACR1378	FACV8849	FACW0874	FACW1053	FACW5757	FACW5963
FACN4890	FACN4933	FACR1381	FACV8850	FACW0875	FACW1055	FACW5758	FACW5964
FACN4891	FACN4934	FACR1384	FACV8851	FACW0876	FACW1057	FACW5759	FACW5965
FACN4892	FACN4935	FACR1386	FACV8852	FACW0877	FACW1058	FACW5761	FACW5966
FACN4893		FACR1387	FACV8854	FACW0878	FACW1059	FACW5763	FACW5967
FACN4894	FACR1342	FACR1389	FACV8855	FACW0879	FACW1060	FACW5764	FACW5968
FACN4895	FACR1343	FACR1390	FACV8856	FACW0887	FACW1061	FACW5802	FACW5969
FACN4896	FACR1344	FACR5213	FACV8858	FACW0994	FACW1062	FACW5803	FACW5970
FACN4897	FACR1345	FACR5215	FACV8859	FACW0995	FACW1063	FACW5804	FACW5971
FACN4898	FACR1346	FACR5216	FACV8860	FACW0996	FACW1064	FACW5805	FACW5972
FACN4899	FACR1347	FACR5217	FACV8861	FACW0997	FACW1065	FACW5806	FACW5973
FACN4900	FACR1348	FACR5218	FACV8862	FACW0998	FACW5729	FACW5807	FACW5974
FACN4901	FACR1350	FACR5219	FACV8864	FACW0999	FACW5730	FACW5808	FACW5976
FACN4902	FACR1351	FACR5220	FACV8865	FACW1000	FACW5731	FACW5809	FACW5977
FACN4903	FACR1352	FACR5221	FACV8866	FACW1001	FACW5732	FACW5810	FACW5978
FACN4904	FACR1353	FACR5222		FACW1002	FACW5733	FACW5811	FACW5979
FACN4905	FACR1354	FACR5226		FACW1003	FACW5734	FACW5812	FACW5981
FACN4906	FACR1355	FACR5227		FACW1005	FACW5735	FACW5813	FACW5982
FACN4908	FACR1356			FACW1006	FACW5736	FACW5814	FACW5983
FACN4909	FACR1357			FACW1008	FACW5737	FACW5815	FACW5984
FACN4912	FACR1358			FACW1030	FACW5738	FACW5816	FACW5985
FACN4913	FACR1359			FACW1031	FACW5739	FACW5817	FACW5986

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (9/21)

FACW5987	FACW7840	FACW9577	FACW9660	FACX0655	FACY0309	FACY8162	FACY8204
FACW5988	FACW7841	FACW9578	FACW9661	FACX0657	FACY8123	FACY8163	FACY8205
FACW7676	FACW7842	FACW9579	FACW9662	FACX0660	FACY8124	FACY8164	FACY8206
FACW7678	FACW7843	FACW9580	FACW9663	FACX0662	FACY8125	FACY8166	FACY8207
FACW7680	FACW7844	FACW9586	FACW9664	FACX0663	FACY8126	FACY8167	FACY8208
FACW7681	FACW7845	FACW9588	FACW9665	FACX0664	FACY8127	FACY8168	FACY8209
FACW7682	FACW7846	FACW9589	FACW9666	FACX0666	FACY8128	FACY8169	FACY8210
FACW7683	FACW7848	FACW9590	FACW9667	FACX0671	FACY8129	FACY8170	FACY8211
FACW7684	FACW7849	FACW9591	FACW9668	FACX0672	FACY8130	FACY8171	FACY8212
FACW7685	FACW7850	FACW9593	FACW9670	FACX0674	FACY8131	FACY8172	FACY8213
FACW7686	FACW7851	FACW9594	FACW9671	FACX0675	FACY8132	FACY8173	FACY8214
FACW7687	FACW7852	FACW9595	FACW9672	FACX0676	FACY8133	FACY8175	FACY8215
FACW7688	FACW7853	FACW9596	FACW9673	FACX0677	FACY8134	FACY8176	FACY8216
FACW7689	FACW7854	FACW9597	FACW9675		FACY8135	FACY8177	FACY8217
FACW7690	FACW7855	FACW9601	FACW9676		FACY8136	FACY8178	FACY8218
FACW7691	FACW7856	FACW9602	FACW9677		FACY8137	FACY8179	FACY8219
FACW7692	FACW7857	FACW9605	FACW9678		FACY8138	FACY8180	FACY8220
FACW7694	FACW7858	FACW9608	FACW9679		FACY8139	FACY8181	FACY8221
FACW7695	FACW7859	FACW9609	FACW9680		FACY8140	FACY8182	FACY8222
FACW7696	FACW7860	FACW9610	FACW9681		FACY8141	FACY8183	FACY8223
FACW7697	FACW7861	FACW9612	FACW9683		FACY8142	FACY8184	FACY8224
FACW7698	FACW7862	FACW9613	FACW9686		FACY8143	FACY8185	FACY8225
FACW7699	FACW7863	FACW9615	FACW9688		FACY8144	FACY8186	FACY8226
FACW7700	FACW7864	FACW9618	FACW9696		FACY8145	FACY8187	FACY8227
FACW7701	FACW7866	FACW9619	FACW9698		FACY8146	FACY8188	FACY8228
FACW7702	FACW7868	FACW9620	FACW9700		FACY8147	FACY8189	FACY8229
FACW7703	FACW7869	FACW9621	FACW9702		FACY8148	FACY8190	FACY8236
FACW7704	FACW8175	FACW9646	FACW9705		FACY8149	FACY8191	FACY8237
FACW7705	FACW8863	FACW9647	FACW9706		FACY8150	FACY8192	FACY8240
FACW7706	FACW9547	FACW9650	FACW9710		FACY8151	FACY8193	FACY8241
FACW7707	FACW9552	FACW9651	FACW9714		FACY8153	FACY8194	FACY8242
FACW7708	FACW9554	FACW9652	FACW9716		FACY8154	FACY8196	FACY8243
FACW7709	FACW9557	FACW9653	FACW9717		FACY8155	FACY8197	FACY8244
FACW7710	FACW9563	FACW9654			FACY8156	FACY8198	FACY8248
FACW7711	FACW9565	FACW9655			FACY8157	FACY8199	FACY8249
FACW7836	FACW9567	FACW9656			FACY8158	FACY8200	FACY8251
FACW7837	FACW9571	FACW9657			FACY8159	FACY8201	FACY8255
FACW7838	FACW9573	FACW9658			FACY8160	FACY8202	FACY8256
FACW7839	FACW9574	FACW9659			FACY8161	FACY8203	FACY8257

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (10/21)

FACY8258	FACY8330	FAE62345	FAE68760	FAE93485	FAE98483	FAEA3434	FAEA3473
FACY8259	FACY8331	FAE62346	FAE68762	FAE93486	FAE98484	FAEA3435	FAEA3474
FACY8260	FACY8333	FAE62347	FAE68764	FAE93487	FAE98485	FAEA3436	FAEA3475
FACY8266	FACY8334	FAE62348	FAE68766	FAE93488	FAE98486	FAEA3437	FAEA3476
FACY8267	FACY8335	FAE62349	FAE68771	FAE93490	FAE98487	FAEA3438	FAEA3477
FACY8269	FACY8336	FAE62350	FAE68774	FAE98449	FAEA3398	FAEA3439	FAEA3478
FACY8270	FACY8337	FAE62351	FAE68779	FAE98450	FAEA3399	FAEA3440	FAEA3479
FACY8273	FACY8338	FAE62352	FAE68781	FAE98451	FAEA3400	FAEA3441	FAEA3480
FACY8274	FACY8339	FAE62353	FAE68783	FAE98452	FAEA3401	FAEA3442	FAEA3481
FACY8275	FACY8340	FAE62354	FAE68785	FAE98453	FAEA3402	FAEA3443	FAEA3482
FACY8279		FAE62355	FAE68786	FAE98454	FAEA3403	FAEA3444	FAEA3483
FACY8281		FAE62356	FAE68787	FAE98455	FAEA3404	FAEA3445	FAEA3484
FACY8285		FAE62357	FAE68790	FAE98456	FAEA3405	FAEA3446	FAEA3485
FACY8295		FAE62358	FAE68791	FAE98457	FAEA3406	FAEA3447	FAEA3486
FACY8296		FAE62359	FAE93452	FAE98458	FAEA3407	FAEA3448	FAEA3487
FACY8298		FAE62360	FAE93453	FAE98459	FAEA3408	FAEA3449	FAEA3488
FACY8303		FAE62361	FAE93454	FAE98460	FAEA3409	FAEA3450	FAEA3489
FACY8306		FAE62362	FAE93455	FAE98461	FAEA3410	FAEA3451	FAEA3490
FACY8307		FAE62363	FAE93456	FAE98462	FAEA3411	FAEA3452	FAEA3491
FACY8308		FAE62364	FAE93457	FAE98463	FAEA3412	FAEA3453	FAEA3492
FACY8310		FAE62365	FAE93458	FAE98464	FAEA3413	FAEA3454	FAEA3494
FACY8311		FAE62366	FAE93459	FAE98465	FAEA3414	FAEA3455	FAEA3495
FACY8312		FAE62368	FAE93460	FAE98466	FAEA3415	FAEA3456	FAEA3496
FACY8313		FAE62370	FAE93461	FAE98467	FAEA3416	FAEA3457	FAEA3497
FACY8314		FAE62371	FAE93462	FAE98468	FAEA3417	FAEA3458	FAEA3498
FACY8315		FAE62372	FAE93463	FAE98469	FAEA3419	FAEA3459	FAEA3499
FACY8316		FAE62373	FAE93465	FAE98470	FAEA3420	FAEA3460	FAEA3500
FACY8317		FAE62374	FAE93466	FAE98471	FAEA3421	FAEA3461	FAEA3501
FACY8318		FAE62375	FAE93468	FAE98472	FAEA3422	FAEA3462	FAEA3502
FACY8319		FAE62376	FAE93471	FAE98473	FAEA3423	FAEA3463	FAEA3503
FACY8320		FAE62377	FAE93472	FAE98474	FAEA3424	FAEA3464	FAEA3504
FACY8321		FAE62378	FAE93473	FAE98475	FAEA3425	FAEA3465	FAEA3505
FACY8322		FAE62379	FAE93476	FAE98476	FAEA3426	FAEA3466	FAEA3506
FACY8323		FAE62380	FAE93478	FAE98477	FAEA3427	FAEA3467	FAEA3507
FACY8324		FAE62381	FAE93479	FAE98478	FAEA3428	FAEA3468	FAEA3508
FACY8325		FAE62382	FAE93480	FAE98479	FAEA3429	FAEA3469	FAEA3509
FACY8326		FAE62383	FAE93482	FAE98480	FAEA3430	FAEA3470	FAEA3510
FACY8328		FAE68756	FAE93483	FAE98481	FAEA3431	FAEA3471	FAEA3511
FACY8329		FAE68758	FAE93484	FAE98482	FAEA3432	FAEA3472	FAEA3513

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (11/21)

FAEA3514	FAEA9064	FAEC1468	FAEC3561	FAEC3603	FAEE9157	FAEE9198	FAEF6230
FAEA3515	FAEA9065	FAEC1469	FAEC3562	FAEC3604	FAEE9158	FAEE9199	FAEF6231
FAEA3516	FAEA9066	FAEC1474	FAEC3563	FAEC3605	FAEE9159	FAEE9200	FAEF6232
FAEA3517	FAEA9067	FAEC1475	FAEC3564	FAEC3606	FAEE9160	FAEE9201	FAEF6233
FAEA3518	FAEA9068	FAEC1476	FAEC3565	FAEC3607	FAEE9161	FAEE9202	FAEF6234
FAEA3519	FAEA9069	FAEC1477	FAEC3566	FAEC3608	FAEE9162	FAEE9203	FAEF6235
FAEA3520	FAEA9070	FAEC1479	FAEC3567	FAEC3609	FAEE9163	FAEE9204	FAEF6236
FAEA3521	FAEA9071	FAEC1480	FAEC3568	FAEC3610	FAEE9164	FAEE9205	FAEF6237
FAEA3522	FAEA9072	FAEC1482	FAEC3569	FAEC3611	FAEE9165	FAEE9206	FAEF6238
FAEA3523	FAEA9073	FAEC1488	FAEC3570	FAEC3612	FAEE9166	FAEE9207	FAEF6239
FAEA3524	FAEA9074	FAEC1491	FAEC3572	FAEC3613	FAEE9167	FAEE9208	FAEF6240
FAEA3525	FAEA9075	FAEC1498	FAEC3573	FAEC9298	FAEE9168	FAEE9209	FAEF6241
FAEA3527	FAEA9076	FAEC1499	FAEC3574		FAEE9169	FAEE9210	FAEF6242
FAEA3528	FAEA9077	FAEC3508	FAEC3575		FAEE9170	FAEE9211	FAEF6243
FAEA3529	FAEA9078	FAEC3513	FAEC3578		FAEE9171	FAEE9212	FAEF6244
FAEA3530	FAEA9079	FAEC3524	FAEC3579		FAEE9172	FAEE9213	FAEF6245
FAEA3531	FAEA9080	FAEC3529	FAEC3580		FAEE9173	FAEE9214	FAEF6246
FAEA3532	FAEA9081	FAEC3530	FAEC3581		FAEE9174	FAEE9215	FAEF6247
FAEA3533	FAEA9082	FAEC3531	FAEC3582		FAEE9175	FAEE9216	FAEF6249
FAEA3534	FAEA9083	FAEC3541	FAEC3583		FAEE9176	FAEE9217	FAEF6250
FAEA3535	FAEA9084	FAEC3542	FAEC3584		FAEE9177	FAEE9218	FAEF6251
FAEA3536	FAEA9085	FAEC3543	FAEC3585		FAEE9178	FAEE9219	FAEF6252
FAEA3537	FAEA9086	FAEC3544	FAEC3586		FAEE9179	FAEE9220	FAEF6253
FAEA3538	FAEA9087	FAEC3545	FAEC3587		FAEE9180	FAEE9221	FAEF6254
FAEA3539	FAEA9088	FAEC3546	FAEC3588		FAEE9181	FAEE9222	FAEF6255
FAEA3540	FAEA9089	FAEC3547	FAEC3589		FAEE9182	FAEE9223	FAEF6256
FAEA3541	FAEA9090	FAEC3548	FAEC3590		FAEE9183	FAEE9224	FAEF6257
FAEA3542	FAEA9091	FAEC3549	FAEC3591		FAEE9184	FAEE9225	FAEF6258
FAEA3543		FAEC3550	FAEC3592		FAEE9185	FAEE9226	FAEF6259
FAEA3544		FAEC3551	FAEC3593		FAEE9186	FAEE9227	FAEF6260
FAEA3545		FAEC3552	FAEC3594		FAEE9187	FAEE9228	FAEF6261
FAEA3546		FAEC3553	FAEC3595		FAEE9188	FAEE9229	FAEF6262
FAEA9057		FAEC3554	FAEC3596		FAEE9189		FAEF6263
FAEA9058		FAEC3555	FAEC3597		FAEE9190		FAEF6264
FAEA9059		FAEC3556	FAEC3598		FAEE9191		FAEF6266
FAEA9060		FAEC3557	FAEC3599		FAEE9194		FAEF6267
FAEA9061		FAEC3558	FAEC3600		FAEE9195		FAEF6268
FAEA9062		FAEC3559	FAEC3601		FAEE9196		FAEF6269
FAEA9063		FAEC3560	FAEC3602		FAEE9197		FAEF6271

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (12/21)

FAEF6272	FAEG3222	FAEG7257	FAEG7298	FAEG7339	FAEH8284	FAEH8324	FAEJ7607
FAEF6273	FAEG6248	FAEG7258	FAEG7300	FAEG7340	FAEH8285	FAEH8325	FAEJ7608
FAEF6274	FAEG6270	FAEG7259	FAEG7301		FAEH8286	FAEH8326	FAEJ7609
FAEF6275	FAEG6286	FAEG7260	FAEG7302	FAEH8247	FAEH8287	FAEH8327	FAEJ7610
FAEF6276	FAEG7221	FAEG7261	FAEG7303	FAEH8248	FAEH8288	FAEH8328	FAEJ7611
FAEF6277	FAEG7222	FAEG7262	FAEG7304	FAEH8249	FAEH8289	FAEH8329	FAEJ7612
FAEF6278	FAEG7223	FAEG7264	FAEG7305	FAEH8250	FAEH8290	FAEH8330	FAEJ7613
FAEF6279	FAEG7224	FAEG7266	FAEG7306	FAEH8251	FAEH8292	FAEH8331	FAEJ7614
FAEF6280	FAEG7225	FAEG7267	FAEG7307	FAEH8252	FAEH8293	FAEH8332	FAEJ7615
FAEF6281	FAEG7226	FAEG7268	FAEG7308	FAEH8253	FAEH8294	FAEH8333	FAEJ7616
FAEF6282	FAEG7227	FAEG7269	FAEG7309	FAEH8254	FAEH8295	FAEH8334	FAEJ7617
FAEF6283	FAEG7228	FAEG7270	FAEG7311	FAEH8255	FAEH8296	FAEH8335	FAEJ7618
FAEF6284	FAEG7229	FAEG7271	FAEG7312	FAEH8256	FAEH8297		FAEJ7619
FAEF6285	FAEG7230	FAEG7272	FAEG7313	FAEH8257	FAEH8298	FAEJ7581	FAEJ7620
FAEF6286	FAEG7231	FAEG7273	FAEG7314	FAEH8258	FAEH8299	FAEJ7582	FAEJ7621
FAEF6287	FAEG7232	FAEG7274	FAEG7315	FAEH8259	FAEH8300	FAEJ7583	FAEJ7622
FAEF6288	FAEG7233	FAEG7275	FAEG7316	FAEH8260	FAEH8301	FAEJ7584	FAEJ7623
FAEF6289	FAEG7234	FAEG7276	FAEG7317	FAEH8261	FAEH8302	FAEJ7585	FAEJ7624
FAEF6290	FAEG7235	FAEG7277	FAEG7318	FAEH8262	FAEH8303	FAEJ7586	
FAEF6291	FAEG7236	FAEG7278	FAEG7319	FAEH8263	FAEH8304	FAEJ7587	
FAEF6292	FAEG7237	FAEG7279	FAEG7320	FAEH8264	FAEH8305	FAEJ7588	
FAEF6293	FAEG7238	FAEG7280	FAEG7321	FAEH8265	FAEH8306	FAEJ7589	
FAEF6294	FAEG7240	FAEG7281	FAEG7322	FAEH8266	FAEH8307	FAEJ7590	
FAEF6296	FAEG7241	FAEG7282	FAEG7323	FAEH8267	FAEH8308	FAEJ7591	
FAEF6297	FAEG7242	FAEG7283	FAEG7324	FAEH8268	FAEH8309	FAEJ7592	
FAEF6298	FAEG7243	FAEG7284	FAEG7325	FAEH8269	FAEH8310	FAEJ7593	
FAEF6299	FAEG7244	FAEG7285	FAEG7326	FAEH8270	FAEH8311	FAEJ7594	
FAEF6301	FAEG7245	FAEG7286	FAEG7327	FAEH8271	FAEH8312	FAEJ7595	
FAEF9184	FAEG7246	FAEG7287	FAEG7328	FAEH8272	FAEH8313	FAEJ7596	
	FAEG7247	FAEG7288	FAEG7329	FAEH8273	FAEH8314	FAEJ7597	
	FAEG7248	FAEG7289	FAEG7330	FAEH8274	FAEH8315	FAEJ7598	
	FAEG7249	FAEG7290	FAEG7331	FAEH8275	FAEH8316	FAEJ7599	
	FAEG7250	FAEG7291	FAEG7332	FAEH8277	FAEH8317	FAEJ7600	
	FAEG7251	FAEG7292	FAEG7333	FAEH8278	FAEH8318	FAEJ7601	
	FAEG7252	FAEG7293	FAEG7334	FAEH8279	FAEH8319	FAEJ7602	
	FAEG7253	FAEG7294	FAEG7335	FAEH8280	FAEH8320	FAEJ7603	
	FAEG7254	FAEG7295	FAEG7336	FAEH8281	FAEH8321	FAEJ7604	
	FAEG7255	FAEG7296	FAEG7337	FAEH8282	FAEH8322	FAEJ7605	
	FAEG7256	FAEG7297	FAEG7338	FAEH8283	FAEH8323	FAEJ7606	

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (13/21)

FAEK1515	FAEK1555	FAEK6143	FAEK7949	FAEL1773	FAEN3339	FAEP2258	FAEP4511
FAEK1516	FAEK1556	FAEK6144	FAEK7952	FAEL1774	FAEN3340	FAEP2259	FAEP4512
FAEK1517	FAEK1557	FAEK6145	FAEK7957	FAEL1775	FAEN3344	FAEP2260	FAEP4513
FAEK1518	FAEK1558	FAEK6148	FAEK7959	FAEL1776	FAEN3345	FAEP2261	FAEP4514
FAEK1519	FAEK6107	FAEK6149	FAEK7962	FAEL1777	FAEN3346	FAEP2265	FAEP4515
FAEK1520	FAEK6108	FAEK6150	FAEK7965	FAEL1778	FAEN3347	FAEP2267	FAEP4516
FAEK1521	FAEK6109	FAEK6151		FAEL1779	FAEN3348	FAEP2268	FAEP4517
FAEK1522	FAEK6110	FAEK6691	FAEL1700	FAEL1780	FAEN3349	FAEP2269	FAEP4518
FAEK1523	FAEK6111	FAEK6694	FAEL1701	FAEL1781	FAEN3352	FAEP2273	FAEP4519
FAEK1524	FAEK6112	FAEK6695	FAEL1702	FAEL1782	FAEN3353	FAEP2275	FAEP4520
FAEK1525	FAEK6113	FAEK6696	FAEL1703	FAEL1783	FAEN3354	FAEP2276	FAEP4521
FAEK1526	FAEK6114	FAEK6702	FAEL1704	FAEL6108	FAEN3356	FAEP2277	FAEP4522
FAEK1527	FAEK6115	FAEK6708	FAEL1705	FAEL6126	FAEN3357	FAEP2278	FAEP4523
FAEK1528	FAEK6116	FAEK6710	FAEL1706	FAEL6143	FAEN3358	FAEP2280	FAEP4524
FAEK1529	FAEK6117	FAEK6711	FAEL1707		FAEN3360	FAEP2281	FAEP4525
FAEK1530	FAEK6118	FAEK6713	FAEL1708		FAEN3361	FAEP2282	FAEP4526
FAEK1531	FAEK6119	FAEK6714	FAEL1709		FAEN3362	FAEP2283	FAEP4527
FAEK1532	FAEK6120	FAEK6716	FAEL1710		FAEN3364	FAEP2285	FAEP4528
FAEK1533	FAEK6121	FAEK6719	FAEL1711		FAEN3365	FAEP2287	FAEP4529
FAEK1534	FAEK6122	FAEK6721	FAEL1712		FAEN3366	FAEP2288	FAEP4530
FAEK1535	FAEK6123	FAEK6725	FAEL1713		FAEN3368	FAEP2289	FAEP4531
FAEK1536	FAEK6124	FAEK6726	FAEL1714		FAEN3369	FAEP2290	FAEP4532
FAEK1537	FAEK6125	FAEK6727	FAEL1715		FAEN3370	FAEP2291	FAEP4533
FAEK1538	FAEK6126	FAEK6728	FAEL1716		FAEN3371	FAEP2292	FAEP4534
FAEK1539	FAEK6127	FAEK6730	FAEL1717		FAEN3372	FAEP2293	FAEP4535
FAEK1541	FAEK6128	FAEK6731	FAEL1718		FAEN3373	FAEP2294	FAEP4536
FAEK1542	FAEK6129	FAEK6732	FAEL1719		FAEN3374	FAEP2295	FAEP4537
FAEK1543	FAEK6130	FAEK6734	FAEL1720		FAEN3375	FAEP2296	FAEP4538
FAEK1544	FAEK6131	FAEK7924	FAEL1721		FAEN3376	FAEP2297	FAEP4539
FAEK1545	FAEK6132	FAEK7925	FAEL1722		FAEN3377	FAEP2298	FAEP4540
FAEK1546	FAEK6133	FAEK7928	FAEL1723		FAEN3378	FAEP2299	FAEP4541
FAEK1547	FAEK6134	FAEK7936	FAEL1724		FAEN3379	FAEP2300	FAEP4542
FAEK1548	FAEK6135	FAEK7937	FAEL1766		FAEN3380	FAEP4504	FAEP4543
FAEK1549	FAEK6136	FAEK7939	FAEL1767		FAEN3381	FAEP4505	FAEP4544
FAEK1550	FAEK6138	FAEK7940	FAEL1768		FAEN3382	FAEP4506	FAEP4545
FAEK1551	FAEK6139	FAEK7941	FAEL1769			FAEP4507	FAEP4546
FAEK1552	FAEK6140	FAEK7942	FAEL1770			FAEP4508	FAEP4547
FAEK1553	FAEK6141	FAEK7944	FAEL1771			FAEP4509	FAEP4548
FAEK1554	FAEK6142	FAEK7945	FAEL1772			FAEP4510	FAEP4549

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (14/21)

FAEP5094	FAEP9546	FAER0015	FAER8533	FAEV6110	FAEV6151	FAEW7910	FAEX9757
FAEP5095	FAEP9547	FAER0016	FAER8534	FAEV6111	FAEV6152	FAEW7912	FAEX9758
FAEP5097	FAEP9548	FAER0017	FAER8535	FAEV6112	FAEV6153	FAEW7913	FAEX9760
FAEP5098	FAEP9549	FAER0020	FAER8538	FAEV6113	FAEV6155	FAEW7914	FAEX9762
FAEP5099	FAEP9550	FAER0023	FAER8539	FAEV6114	FAEV6156	FAEW7915	FAEX9763
FAEP5100	FAEP9551	FAER0024	FAER8540	FAEV6115	FAEV6157	FAEW7916	FAEX9765
FAEP5101	FAEP9552	FAER0028	FAER8541	FAEV6116	FAEV6158	FAEW7917	FAEX9770
FAEP5102	FAEP9553	FAER0032	FAER8543	FAEV6117	FAEV6159	FAEW7918	FAEX9773
FAEP5106	FAEP9554	FAER0035	FAER8546	FAEV6118	FAEV6160	FAEW7919	FAEX9776
FAEP5108	FAEP9555	FAER0036	FAER8548	FAEV6119	FAEV6161	FAEW7920	FAEX9777
FAEP5109	FAEP9556	FAER0037	FAER8549	FAEV6120	FAEV6163	FAEW7921	FAEX9779
FAEP5112	FAEP9557	FAER0038	FAER8551	FAEV6121	FAEV6164	FAEW7922	FAEX9782
FAEP5116	FAEP9558	FAER0039	FAER8552	FAEV6122	FAEV6165	FAEW7923	FAEX9783
FAEP5118	FAEP9559	FAER0040	FAER8554	FAEV6123	FAEV6166	FAEW7924	FAEX9788
FAEP5120	FAEP9560	FAER0041	FAER8558	FAEV6124	FAEV6167	FAEW7925	FAEX9789
FAEP5122	FAEP9561	FAER0042		FAEV6125	FAEV6168	FAEW7926	
FAEP5124	FAEP9562	FAER0043	FAET1628	FAEV6126	FAEV6169	FAEW7927	
FAEP5127	FAEP9564	FAER0044	FAET1630	FAEV6127	FAEV6170	FAEW7928	
FAEP5128	FAEP9565	FAER0046	FAET1633	FAEV6128	FAEV6171	FAEW7929	
FAEP5132	FAEP9566	FAER0047	FAET1634	FAEV6129	FAEV6172	FAEW7930	
FAEP5133	FAEP9567	FAER0049	FAET1635	FAEV6130	FAEV6173	FAEW7931	
FAEP5134	FAEP9568	FAER0051	FAET1636	FAEV6131	FAEV6174	FAEW7932	
FAEP5135	FAEP9569	FAER0052	FAET1638	FAEV6132		FAEW7933	
FAEP5136	FAEP9570	FAER0055	FAET1639	FAEV6133		FAEW7934	
FAEP5137	FAEP9571	FAER0056	FAET1641	FAEV6134		FAEW7935	
FAEP5138	FAEP9572	FAER0057	FAET1644	FAEV6135		FAEW7936	
FAEP9532	FAEP9574	FAER0058	FAET1646	FAEV6137		FAEW7937	
FAEP9533	FAEP9575	FAER8403		FAEV6139		FAEW7938	
FAEP9534		FAER8406		FAEV6140		FAEW7939	
FAEP9535		FAER8407		FAEV6141		FAEW7942	
FAEP9536		FAER8409		FAEV6142		FAEW7944	
FAEP9537		FAER8410		FAEV6143		FAEW7945	
FAEP9538		FAER8411		FAEV6144		FAEW7948	
FAEP9540		FAER8412		FAEV6145		FAEW7949	
FAEP9541		FAER8413		FAEV6146		FAEW7950	
FAEP9542		FAER8416		FAEV6147		FAEW7951	
FAEP9543		FAER8417		FAEV6148			
FAEP9544		FAER8419		FAEV6149			
FAEP9545		FAER8421		FAEV6150			

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (15/21)

FAF14025	FAF14536	FAF14581	FAF15018	FAF15066	FAF56889	FAF66975	FAF73092
FAF14027	FAF14537	FAF14582	FAF15020	FAF15067	FAF56890	FAF66976	FAF73093
FAF14028	FAF14538	FAF14583	FAF15022	FAF15068	FAF56891	FAF66977	FAF73094
FAF14029	FAF14539	FAF14585	FAF15024	FAF15070	FAF56892	FAF66978	FAF73095
FAF14030	FAF14540	FAF14586	FAF15026	FAF15513	FAF56893	FAF66979	FAF73096
FAF14031	FAF14542	FAF14587	FAF15027	FAF15514	FAF56894	FAF66980	FAF73097
FAF14032	FAF14543	FAF14588	FAF15028	FAF15517	FAF56895	FAF66981	FAF73098
FAF14033	FAF14544	FAF14589	FAF15031	FAF15518	FAF56896	FAF66982	FAF73099
FAF14034	FAF14545	FAF14590	FAF15033	FAF15519	FAF56897	FAF66983	FAF73100
FAF14035	FAF14546	FAF14591	FAF15034	FAF15520	FAF56898	FAF66984	FAF73101
FAF14036	FAF14547	FAF14593	FAF15035	FAF15521	FAF56899	FAF66985	FAF73102
FAF14037	FAF14548	FAF14594	FAF15036	FAF15522	FAF56900	FAF66986	FAF73103
FAF14038	FAF14549	FAF14595	FAF15037	FAF15523	FAF56901	FAF66987	FAF73104
FAF14039	FAF14550	FAF14596	FAF15038	FAF15524	FAF56902	FAF66988	FAF73105
FAF14040	FAF14551	FAF14597	FAF15039	FAF15525	FAF56903	FAF66989	FAF73106
FAF14041	FAF14552	FAF14598	FAF15041	FAF15526	FAF56905	FAF66990	FAF73107
FAF14042	FAF14554	FAF14599	FAF15042	FAF15527	FAF56906	FAF66991	FAF73108
FAF14043	FAF14555	FAF14600	FAF15043	FAF15529	FAF56907	FAF66992	FAF73109
FAF14044	FAF14556	FAF14601	FAF15044	FAF15530	FAF56908	FAF66993	FAF73110
FAF14045	FAF14557	FAF14602	FAF15045	FAF15531	FAF56909	FAF66994	FAF73111
FAF14046	FAF14558	FAF14603	FAF15046	FAF15532	FAF56910	FAF66995	FAF73112
FAF14047	FAF14559	FAF14604	FAF15047	FAF15533	FAF56911	FAF66996	FAF73113
FAF14050	FAF14560	FAF14605	FAF15048	FAF15534	FAF56913	FAF66997	FAF73114
FAF14051	FAF14561	FAF14606	FAF15049	FAF15535	FAF56914	FAF66998	FAF73115
FAF14052	FAF14562	FAF14991	FAF15050	FAF15536	FAF56915	FAF66999	FAF73116
FAF14053	FAF14563	FAF14992	FAF15052	FAF15537	FAF56916	FAF67000	FAF73117
FAF14054	FAF14564	FAF14993	FAF15053	FAF15538	FAF56917	FAF67001	FAF73118
FAF14055	FAF14565	FAF14994	FAF15054	FAF15539	FAF56919	FAF67002	FAF73119
FAF14056	FAF14568	FAF14995	FAF15055	FAF15540	FAF56920	FAF67003	FAF73120
FAF14057	FAF14569	FAF14997	FAF15056	FAF15541	FAF56921	FAF67004	FAF73121
FAF14058	FAF14570	FAF14999	FAF15057	FAF15544	FAF66966	FAF68785	FAF73122
FAF14059	FAF14571	FAF15001	FAF15058	FAF15545	FAF66967	FAF73084	FAF74658
FAF14060	FAF14572	FAF15005	FAF15059	FAF15701	FAF66968	FAF73085	FAF74659
FAF14061	FAF14573	FAF15009	FAF15060	FAF15707	FAF66969	FAF73086	FAF74660
FAF14062	FAF14574	FAF15010	FAF15061	FAF56884	FAF66970	FAF73087	FAF74661
FAF14528	FAF14576	FAF15011	FAF15062	FAF56885	FAF66971	FAF73088	FAF74662
FAF14529	FAF14577	FAF15013	FAF15063	FAF56886	FAF66972	FAF73089	FAF74663
FAF14532	FAF14578	FAF15015	FAF15064	FAF56887	FAF66973	FAF73090	FAF74664
FAF14533	FAF14580	FAF15017	FAF15065	FAF56888	FAF66974	FAF73091	FAF74665

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (16/21)

FAF74666	FAF76532	FAF88698	FAFA6610	FAFE1569	FAFE3858	FAFF4416	FAFG6430
FAF74667	FAF76533	FAF88699	FAFA6611	FAFE1571	FAFE3859	FAFF4417	FAFG6431
FAF74668	FAF76534	FAF88700	FAFA6612	FAFE1572	FAFE3860	FAFF4418	FAFG6432
FAF74669	FAF76535	FAF88701	FAFA6613	FAFE1573	FAFE3862	FAFF4419	FAFG6433
FAF74670	FAF76536	FAF88702	FAFA6614	FAFE1575	FAFE3863	FAFF4420	FAFG6434
FAF74671	FAF76537	FAF88703	FAFA6615	FAFE1577	FAFE3864	FAFF4421	FAFG6435
FAF74672	FAF76538	FAF88704		FAFE1580	FAFE3865	FAFF4423	FAFG6436
FAF74673	FAF76539	FAF88705	FAFC7840	FAFE1581	FAFE3866	FAFF4424	FAFG6438
FAF74674	FAF76540	FAF88707	FAFC7841	FAFE1584	FAFE3867	FAFF4425	FAFG6439
FAF74675	FAF76541	FAF88709	FAFC7843	FAFE1586	FAFE3868	FAFF4426	FAFG6440
FAF74676	FAF76542	FAF88710	FAFC7845	FAFE1587	FAFE3869	FAFF4427	FAFG6441
FAF74677	FAF76543	FAF88712	FAFC7847	FAFE1588	FAFE3870	FAFF4429	FAFG6442
FAF74678	FAF76544	FAF88714		FAFE1589	FAFE3871	FAFF4432	FAFG6443
FAF74679	FAF76545		FAFC7851	FAFE1591	FAFE3872	FAFF4433	FAFG6444
FAF74680	FAF76546	FAFA2912	FAFC7852	FAFE1593	FAFE3873	FAFF4434	FAFG6446
FAF74681	FAF76547	FAFA2913	FAFC7854	FAFE1599	FAFE3874	FAFF4436	FAFG6447
FAF74682	FAF76548	FAFA2914	FAFC7856	FAFE1600	FAFE3875	FAFF4437	FAFG6448
FAF74683	FAF76549	FAFA2915	FAFC7857	FAFE1601	FAFE3876	FAFF4438	FAFG6449
FAF74684	FAF76550	FAFA2916	FAFC7858	FAFE1604	FAFE3877	FAFF4439	FAFG6450
FAF74685	FAF76551	FAFA2917	FAFC7859	FAFE1605	FAFE3878	FAFF4440	FAFG6451
FAF74686	FAF76552	FAFA2918	FAFC7861	FAFE1607	FAFE3879	FAFF4441	FAFG6453
FAF74687	FAF76553	FAFA2919	FAFC7862	FAFE3838	FAFE3882	FAFF4442	FAFG6454
FAF74688	FAF76554	FAFA2920	FAFC7863	FAFE3839	FAFE3884	FAFF4443	FAFG6455
FAF74689	FAF76555	FAFA2921	FAFC7864	FAFE3840	FAFE3886	FAFF4444	FAFG6456
FAF74690	FAF76556	FAFA2922	FAFC7866	FAFE3841	FAFE3887	FAFF4445	FAFG6457
FAF74691	FAF76557	FAFA2923	FAFC7868	FAFE3842	FAFE3888	FAFF4446	FAFG6459
FAF74692	FAF76559	FAFA2930		FAFE3843		FAFF4447	FAFG6461
FAF74693	FAF76560	FAFA2932		FAFE3844		FAFF4448	FAFG6463
FAF74694	FAF76561	FAFA2936		FAFE3845		FAFF4449	FAFG6465
FAF74695	FAF76562	FAFA2939		FAFE3846		FAFF4450	FAFG6467
FAF74696	FAF88682	FAFA2943		FAFE3847		FAFF9901	FAFG6468
FAF74697	FAF88683	FAFA2947		FAFE3848			FAFG8098
FAF76525	FAF88685	FAFA6602		FAFE3849			FAFG8112
FAF76526	FAF88688	FAFA6603		FAFE3851			FAFG8116
FAF76527	FAF88690	FAFA6604		FAFE3852			FAFG8117
FAF76528	FAF88691	FAFA6606		FAFE3853			FAFG8118
FAF76529	FAF88692	FAFA6607		FAFE3854			FAFG8125
FAF76530	FAF88693	FAFA6608		FAFE3855			FAFG8127
FAF76531	FAF88697	FAFA6609		FAFE3856			FAFG9894

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (17/21)

FAFG9895	FAFG9961	FAFK6843	FAFK6885	FAFM3495	FAFM9991	FAFN4203	FAFP4796
FAFG9896	FAFG9962	FAFK6844	FAFK6886	FAFM3497	FAFM9992	FAFN4204	FAFP4803
FAFG9897	FAFG9963	FAFK6845	FAFK6887	FAFM3500	FAFM9993	FAFN5158	FAFP4810
FAFG9899	FAFG9964	FAFK6846	FAFK6889	FAFM3501	FAFM9994	FAFN5159	FAFP4811
FAFG9902	FAFG9965	FAFK6847	FAFK6890	FAFM3502	FAFM9995	FAFN5160	FAFP4814
FAFG9904	FAFG9966	FAFK6848	FAFK6891	FAFM3503	FAFM9996	FAFN5161	FAFP4830
FAFG9905	FAFG9967	FAFK6849	FAFK6892	FAFM3506	FAFM9997	FAFN5162	
FAFG9908	FAFG9968	FAFK6850		FAFM3509	FAFM9998	FAFN5164	
FAFG9910	FAFG9969	FAFK6851	FAFM1276	FAFM3510	FAFM9999	FAFN5165	
FAFG9911	FAFG9970	FAFK6852	FAFM1277	FAFM3511		FAFN5166	
FAFG9915	FAFG9971	FAFK6853	FAFM1278	FAFM3515	FAFN2501	FAFN5168	
FAFG9917	FAFG9972	FAFK6854	FAFM1279	FAFM3516	FAFN2502	FAFN5169	
FAFG9920	FAFG9973	FAFK6855	FAFM1280	FAFM3522	FAFN2504	FAFN5170	
FAFG9921	FAFG9974	FAFK6856	FAFM1281	FAFM3524	FAFN2507	FAFN5171	
FAFG9923	FAFG9979	FAFK6857	FAFM1283	FAFM3526	FAFN2508	FAFN5172	
FAFG9929	FAFG9980	FAFK6858	FAFM1284	FAFM3529	FAFN2510	FAFN5173	
FAFG9936	FAFG9981	FAFK6859	FAFM1285	FAFM3530	FAFN2511	FAFN5174	
FAFG9937	FAFG9982	FAFK6860	FAFM1286	FAFM7632	FAFN2512	FAFN5175	
FAFG9938	FAFG9983	FAFK6861	FAFM1289	FAFM7634	FAFN2514	FAFN5177	
FAFG9939	FAFG9984	FAFK6862	FAFM1290	FAFM7635	FAFN2515	FAFN5179	
FAFG9940	FAFG9985	FAFK6863	FAFM1293	FAFM7636	FAFN2516	FAFN5180	
FAFG9941	FAFG9987	FAFK6864	FAFM1294	FAFM7637	FAFN2518	FAFN5181	
FAFG9942	FAFG9988	FAFK6865	FAFM1295	FAFM7638	FAFN2520	FAFN5182	
FAFG9943	FAFG9989	FAFK6867	FAFM1296	FAFM7639	FAFN2521	FAFN5183	
FAFG9944	FAFG9990	FAFK6868	FAFM1297	FAFM7642	FAFN2523	FAFN5184	
FAFG9946	FAFG9993	FAFK6869	FAFM1299	FAFM7643	FAFN4170	FAFN5186	
FAFG9947		FAFK6870	FAFM1300	FAFM7644	FAFN4173	FAFN5187	
FAFG9948		FAFK6871	FAFM1301	FAFM7645	FAFN4178	FAFN5188	
FAFG9949		FAFK6872	FAFM1302	FAFM7647	FAFN4179	FAFN5189	
FAFG9950		FAFK6873	FAFM1303	FAFM7648	FAFN4180	FAFN5190	
FAFG9951		FAFK6874	FAFM1304	FAFM7650	FAFN4182	FAFN5193	
FAFG9953		FAFK6875	FAFM1305	FAFM7651	FAFN4183	FAFN5194	
FAFG9954		FAFK6876	FAFM1306	FAFM7652	FAFN4189		
FAFG9955		FAFK6877	FAFM1307	FAFM7653	FAFN4190		
FAFG9956		FAFK6879	FAFM1308	FAFM7655	FAFN4191		
FAFG9957		FAFK6880	FAFM1310	FAFM7656	FAFN4193		
FAFG9958		FAFK6881	FAFM1311	FAFM9987	FAFN4195		
FAFG9959		FAFK6883	FAFM3492	FAFM9988	FAFN4198		
FAFG9960		FAFK6884	FAFM3494	FAFM9989	FAFN4202		

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (18/21)

FAFR0807	FAFW6915	FAG20829	FAG27529	FAG27621	FAG27669	FAG35468	FAG43078
FAFR0808	FAFW6916	FAG20831	FAG27531	FAG27622	FAG27677	FAG35469	FAG43079
FAFR0809	FAFW6917	FAG20834	FAG27532	FAG27623	FAG27679	FAG35471	FAG43080
FAFR0810	FAFW6918	FAG20836	FAG27534	FAG27624	FAG27681	FAG35472	FAG43082
FAFR0811	FAFW6920	FAG20837	FAG27535	FAG27629	FAG27682	FAG35473	FAG43083
FAFR0812	FAFW6921	FAG20838	FAG27536	FAG27630	FAG27683	FAG35474	FAG43084
FAFR0815		FAG20839	FAG27537	FAG27632	FAG27684	FAG35475	FAG43085
FAFR0816	FAFX3404	FAG20840	FAG27582	FAG27633	FAG27685	FAG35476	FAG43086
FAFR0819	FAFX3405	FAG20841	FAG27583	FAG27634	FAG27686	FAG35477	FAG43087
FAFR0820	FAFX3406	FAG20842	FAG27584	FAG27636	FAG27691	FAG35478	FAG43088
FAFR0823	FAFX3407	FAG20843	FAG27586	FAG27638	FAG27692	FAG35479	FAG43089
FAFR0824		FAG20845	FAG27587	FAG27639	FAG27693	FAG35480	FAG43090
FAFR0826	FAG17487	FAG20846	FAG27588	FAG27640	FAG27694	FAG35481	FAG43091
FAFR0828	FAG17490	FAG22820	FAG27589	FAG27641	FAG27695	FAG35482	FAG43092
FAFR0829	FAG17494	FAG22822	FAG27590	FAG27642	FAG27696	FAG35483	FAG43093
FAFR0830	FAG17495	FAG22823	FAG27591	FAG27643	FAG27698	FAG35484	FAG43094
FAFR0831	FAG17497	FAG22824	FAG27592	FAG27644	FAG27699	FAG35485	FAG43095
FAFR0832	FAG17499	FAG22825	FAG27593	FAG27645	FAG27700	FAG35486	FAG43096
FAFR0833	FAG17500	FAG22826	FAG27594	FAG27646	FAG27702	FAG35488	FAG43097
FAFR0834	FAG17501	FAG22828	FAG27595	FAG27647	FAG27703	FAG35489	FAG43098
FAFR0835	FAG17503	FAG22830	FAG27596	FAG27648	FAG27704	FAG35490	FAG43099
FAFR0836	FAG17505	FAG22831	FAG27597	FAG27649	FAG29750	FAG35491	FAG43100
FAFR0837	FAG20807	FAG22832	FAG27598	FAG27650	FAG29751	FAG35493	FAG43101
FAFR0838	FAG20808	FAG22833	FAG27599	FAG27651	FAG29752	FAG35494	FAG43102
FAFR0839	FAG20810	FAG22835	FAG27600	FAG27653	FAG29753	FAG35495	FAG43103
FAFR0840	FAG20813	FAG22837	FAG27601	FAG27654	FAG29754	FAG35496	FAG43104
FAFR0841	FAG20814	FAG22841	FAG27603	FAG27655	FAG29755	FAG35497	FAG43105
FAFR0842	FAG20815	FAG22842	FAG27604	FAG27656	FAG29756	FAG35498	FAG43106
FAFR0845	FAG20816	FAG22844	FAG27606	FAG27657	FAG29757	FAG35499	FAG43107
FAFR7355	FAG20817	FAG27512	FAG27607	FAG27658	FAG29758	FAG35500	FAG43108
FAFR7357	FAG20818	FAG27515	FAG27609	FAG27660	FAG29759	FAG35501	FAG43109
FAFR7359	FAG20819	FAG27518	FAG27610	FAG27661	FAG29760	FAG35502	FAG43110
FAFR7368	FAG20820	FAG27519	FAG27611	FAG27662	FAG29761	FAG35503	FAG43112
FAFR7371	FAG20821	FAG27520	FAG27612	FAG27663	FAG29763	FAG35505	FAG43113
FAFR7372	FAG20822	FAG27522	FAG27613	FAG27664	FAG29764	FAG35506	FAG44804
FAFR7376	FAG20823	FAG27523	FAG27616	FAG27665	FAG29765	FAG35507	FAG44805
FAFR7377	FAG20825	FAG27524	FAG27618	FAG27666	FAG29766	FAG43075	FAG44806
FAFR7388	FAG20827	FAG27525	FAG27619	FAG27667	FAG29767	FAG43076	FAG44807
FAFR7393	FAG20828	FAG27526	FAG27620	FAG27668	FAG29768	FAG43077	FAG44808

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (19/21)

FAG44809	FAG48619	FAG61359	FAG64476	FAG80037	FAG87085	FAG91922	FAG96339
FAG44810	FAG48620	FAG61361	FAG64477	FAG80038	FAG87086	FAG91923	FAG96340
FAG44811	FAG48621	FAG62715	FAG64478	FAG80039	FAG87087	FAG91925	FAG96341
FAG44812	FAG48622	FAG62717	FAG64479	FAG80041	FAG87088	FAG91926	FAG96342
FAG44813	FAG48623	FAG62718	FAG64481	FAG80042	FAG87089	FAG91927	FAG96343
FAG44815	FAG48624	FAG62720	FAG64482	FAG81097	FAG87090	FAG91928	FAG96344
FAG44816	FAG48625	FAG62721	FAG64483	FAG81098	FAG87091	FAG91929	FAG96345
FAG44817	FAG48626	FAG62722	FAG64484	FAG81099	FAG87092	FAG91931	FAG96346
FAG44818	FAG48627	FAG62723	FAG64485	FAG81101	FAG87093	FAG91932	FAG96347
FAG44819	FAG50306	FAG62724	FAG64486	FAG81102	FAG87094	FAG91933	
FAG44820	FAG50307	FAG62725	FAG64487	FAG81104	FAG87095	FAG91934	
FAG44822	FAG50308	FAG62726	FAG69098	FAG81107	FAG87096	FAG91935	
FAG44823	FAG50309	FAG62727	FAG69099	FAG81108	FAG87097	FAG96309	
FAG44824	FAG50310	FAG62728	FAG69100	FAG81109	FAG87098	FAG96310	
FAG44825	FAG50312	FAG62729	FAG69101	FAG81110	FAG87099	FAG96311	
FAG44826	FAG50313	FAG62730	FAG69102	FAG81112	FAG88705	FAG96312	
FAG44827	FAG50314	FAG62731	FAG69104	FAG81113	FAG88706	FAG96313	
FAG44828	FAG50316	FAG62732	FAG69105	FAG81114	FAG88707	FAG96314	
FAG44829	FAG50317	FAG62734	FAG69106	FAG81115	FAG88708	FAG96315	
FAG44830	FAG50318	FAG62735	FAG69107	FAG83853	FAG88709	FAG96316	
FAG44831	FAG50319	FAG62736	FAG69108	FAG83854	FAG88710	FAG96317	
FAG44832	FAG50320	FAG62737	FAG69109	FAG83855	FAG88711	FAG96318	
FAG44833	FAG50321	FAG62739	FAG69110	FAG83856	FAG88712	FAG96319	
FAG44834	FAG50322	FAG62740	FAG69111	FAG83858	FAG88713	FAG96320	
FAG44835	FAG50324	FAG62742	FAG69112	FAG83859	FAG88714	FAG96321	
FAG44836	FAG61343	FAG62743	FAG69113	FAG83860	FAG88715	FAG96322	
FAG44837	FAG61344	FAG62745	FAG69114	FAG83861	FAG88716	FAG96323	
FAG44838	FAG61346	FAG62746	FAG69115	FAG83862	FAG88717	FAG96324	
FAG44839	FAG61347	FAG62747	FAG69116	FAG83863	FAG88718	FAG96325	
FAG44840	FAG61348	FAG62748	FAG80026	FAG83865	FAG88719	FAG96326	
FAG44841	FAG61349	FAG62749	FAG80028	FAG83866	FAG88720	FAG96330	
FAG48609	FAG61350	FAG62750	FAG80029	FAG83867	FAG88721	FAG96331	
FAG48611	FAG61351	FAG62752	FAG80030	FAG83868	FAG88722	FAG96332	
FAG48613	FAG61353	FAG64469	FAG80031	FAG83869	FAG88723	FAG96333	
FAG48614	FAG61354	FAG64470	FAG80032	FAG83870	FAG91917	FAG96334	
FAG48615	FAG61355	FAG64471	FAG80033	FAG83871	FAG91918	FAG96335	
FAG48616	FAG61356	FAG64472	FAG80034	FAG87081	FAG91919	FAG96336	
FAG48617	FAG61357	FAG64473	FAG80035	FAG87082	FAG91920	FAG96337	
FAG48618	FAG61358	FAG64474	FAG80036	FAG87084	FAG91921	FAG96338	

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (20/21)

FAGC2328	FAGC8764	FAGE0515	FAGE2216	FAGE9501	FAGH3565	FAGH9900	FAGL0449
FAGC2329	FAGC8765	FAGE0516	FAGE2217	FAGE9502	FAGH3567	FAGH9901	FAGL3640
FAGC2330	FAGC8766	FAGE0517	FAGE2218	FAGE9503	FAGH3568	FAGH9902	FAGL3641
FAGC2331	FAGC8767	FAGE0518	FAGE2219	FAGE9504	FAGH3569	FAGH9904	FAGL3642
FAGC2332	FAGC8768	FAGE0519	FAGE2220	FAGE9505	FAGH3570	FAGH9906	FAGL3643
FAGC2333	FAGC8769	FAGE0520	FAGE2221	FAGE9506	FAGH3571	FAGH9907	FAGL3644
FAGC2334	FAGC8770	FAGE0521	FAGE2222	FAGE9507	FAGH3573	FAGH9908	FAGL3649
FAGC2335	FAGC8771	FAGE0522	FAGE2223	FAGE9508	FAGH3574	FAGH9910	FAGL3651
FAGC2337	FAGC8772	FAGE0523	FAGE2224	FAGE9509	FAGH3575	FAGH9912	FAGL3652
FAGC2338	FAGC8773	FAGE0524	FAGE2226	FAGE9510	FAGH3577	FAGH9913	FAGL3653
FAGC2339	FAGC8774	FAGE0525	FAGE2228	FAGE9513	FAGH3578	FAGH9914	FAGL3655
FAGC2340	FAGC8775	FAGE0526	FAGE2229	FAGE9514	FAGH3580		FAGL3658
FAGC2341	FAGC8776	FAGE0527	FAGE2230		FAGH3582	FAGK6340	FAGL7776
FAGC2342	FAGC8777	FAGE0528	FAGE2232		FAGH3583	FAGK6342	FAGL7777
FAGC2343	FAGC8778	FAGE0529	FAGE4264		FAGH4244	FAGK6343	FAGL7778
FAGC2344	FAGC8779	FAGE0530	FAGE4265		FAGH4245	FAGK6344	FAGL7779
FAGC2345	FAGC8781	FAGE0531	FAGE4266		FAGH4247	FAGK6347	FAGL7780
FAGC2346		FAGE0532	FAGE4267		FAGH4249	FAGK6348	FAGL7781
FAGC2347		FAGE0533	FAGE4268		FAGH4250	FAGK6351	FAGL7782
FAGC2348		FAGE0943	FAGE4269		FAGH4253	FAGK6352	FAGL7784
FAGC8143		FAGE0944	FAGE4270		FAGH4254	FAGK6357	FAGL7785
FAGC8144		FAGE0945	FAGE4271		FAGH4255	FAGK8215	FAGL7786
FAGC8145		FAGE0946	FAGE4272		FAGH4256	FAGK8216	FAGL7787
FAGC8146		FAGE0947	FAGE4273		FAGH4257	FAGK8218	FAGL7788
FAGC8147		FAGE0948	FAGE4274		FAGH4258	FAGK8219	FAGL7789
FAGC8148		FAGE0950	FAGE4275		FAGH4261	FAGK8220	FAGL7790
FAGC8149		FAGE0951	FAGE4276		FAGH4262	FAGK8221	FAGL7791
FAGC8150		FAGE0952	FAGE4277		FAGH4263	FAGK8222	FAGL7792
FAGC8151		FAGE0953	FAGE4278		FAGH8530	FAGK8235	FAGL7793
FAGC8152		FAGE0954	FAGE4279		FAGH8533	FAGK8239	FAGL7794
FAGC8153		FAGE0955	FAGE4280		FAGH8534	FAGK8240	
FAGC8155		FAGE0956	FAGE4281		FAGH8537	FAGK8241	
FAGC8156		FAGE0957	FAGE4282		FAGH8538	FAGK8242	
FAGC8157		FAGE0958	FAGE7504		FAGH8539	FAGK8243	
FAGC8158		FAGE0959	FAGE9496		FAGH8540	FAGK8244	
FAGC8159		FAGE0960	FAGE9497		FAGH8542		
FAGC8160		FAGE0961	FAGE9498		FAGH9897		
FAGC8161		FAGE2214	FAGE9499		FAGH9898		
FAGC8763		FAGE2215	FAGE9500		FAGH9899		

4.B. APPENDIX: List of 'Serial numbers' (S/N) for planet gears of Type Z (21/21)

FAGM4818	FAGT1165	FAH14213	FAH85052				
FAGM4821	FAGT1174	FAH14214	FAH85053				
FAGM5470	FAGT1182	FAH14215					
FAGM5510	FAGT1189	FAH14216					
FAGM5515	FAGT3047	FAH14217					
FAGM5517	FAGT3052	FAH14222					
FAGM5525	FAGT3053	FAH14227					
FAGM6925	FAGT4641	FAH14231					
FAGM6929	FAGT4645	FAH14236					
FAGM6932	FAGT4653	FAH14237					
FAGM6936	FAGT4658	FAH14239					
FAGM6937	FAGT4663	FAH14243					
FAGM6938	FAGT4668	FAH43925					
FAGM6941	FAGT4669	FAH43927					
FAGM6993	FAGT4670	FAH43928					
FAGM6994		FAH43929					
FAGM6999	FAGW9192	FAH43931					
FAGM7000	FAGW9194	FAH43932					
FAGM7002	FAGW9198	FAH43934					
FAGM7003	FAGW9202	FAH60691					
FAGM7004	FAGW9203	FAH61047					
FAGM7007	FAGW9205	FAH61048					
	FAGW9209	FAH61049					
FAGP0000	FAGW9212	FAH61050					
FAGP0788	FAGW9213	FAH61051					
FAGP7010	FAGW9214	FAH61052					
FAGP7012	FAGW9215	FAH61053					
FAGP7013	FAGW9217	FAH61054					
FAGP7028	FAGW9218	FAH85012					
	FAGW9219	FAH85013					
FAGR9941	FAGW9220	FAH85016					
FAGR9942		FAH85017					
FAGR9954		FAH85018					
FAGR9956		FAH85019					
FAGR9959		FAH85020					
		FAH85021					
		FAH85023					
		FAH85024					
		FAH85025					

4.C. APPENDIX: Chemical composition of planet gears

Only the components identified in the table below must be taken into account during a metallurgical analysis. For example, oxygen and carbon must be excluded from the analysis. The material identification must be based on 5 analyses by (particle) sampling. If doubt remains despite these analyses, please contact Airbus Helicopters.

(*): The iron content is not used as an identification criterion but as the element used to balance the weight percentage values calculated. It must therefore be taken into account.

Other designations	Material	% weight	Si	S	V	Cr	Mn	Ni	Mo	Cu	Fe
SAE 9315MILS	16NCD13										
7393		Min	0.15	0	/	0.8	0.3	3	0.2	/	(*)
MILS 8690		Max	0.4	0.02		1.1	0.6	3.5	0.3		

4.D. APPENDIX: Information sheet
Response Form for ALERT SERVICE BULLETIN
No. 05A034

Complete the form and send it to the indicated fax number or by e-mail or

<https://kneo.airbushelicopters.com/web/guest/asb-dolphin>

Airbus Helicopters - Etablissement de Marignane

Customer Support

 Fax: +33 (0)4 42 85 99 66 or e-mail: TechnicalSupport.Helicopters@airbus.com

Date:

Customer (Name):

Aircraft:

Type:

Version:

Serial Number:

Total Time Since New (TTSN):

Aircraft location:

Country:

Main base:

Mission (type):

Oil used:

Trademark:

Reference (name):

Main gearbox identification:

P/N:

Serial number:

Time Since Overhaul (TSO):

AMS 0763C52 embodied (Yes or No).....

Planet gear identification:

Planet gear	No. 1	No. 2	No. 3	No. 4	No. 5
Part Number					
Serial Number					
Total Time Since New (TTSN)					

Attach a copy of the MGB Log Card (FM)
Remarks:

Date: _____

Signature: _____

Please make a copy of this page. The original form must remain in the ALERT SERVICE BULLETIN.