Norges Bilsportforbund

Crosskart motor
Honda CF150 2010-2024

Homologering N°

NBF XC-01HON VO1

HOMOLOGERINGS DOKUMENT

Homologeringen er gyldig fra 01.01.2025 -

1. Generell info/ General

101. PRODUSENT/MANUFACTURER

HONDA CF150

3. Motor Engine

307. SYLINDER KAPASITET/ MAXIMUM *CYLINDER CAPACITY*

a) Unitaire
Unitary 149.68 cm3

b) Total 149.68 cm3

309 MINIMUM VEKT PÅ MOTOR/ *MINIMUM WEIGHT*

a) Vekt som beskrevet i homologeringsdokumentet som på bildene 20.2 kg

314. BORRING/BORE

66.04 +0 - 0.1 mm

316. SLAGLENGDE/STROKE

43.7 +0 - 0.1 mm

C1-1) Demontert motor -sett forfra
Dismounted engine – seen from the front

C1-2) Demontert motor – sett fra siden
Dismounted engine – seen from the side

C1-3) Toppdeksel - demontert
Cylinderhead cover - dismounted

C1-4) Toppdeksel- demontert
Cylinderhead cover - dismounted

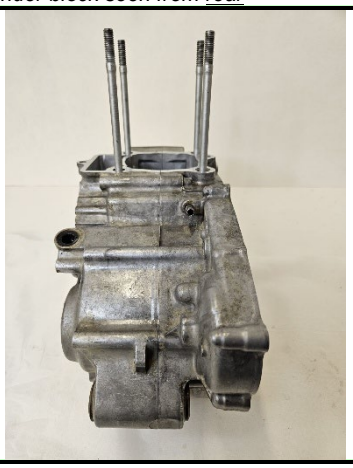
311. SYLINDERBLOKK MED GIRKASSE

a) Materiale Stål

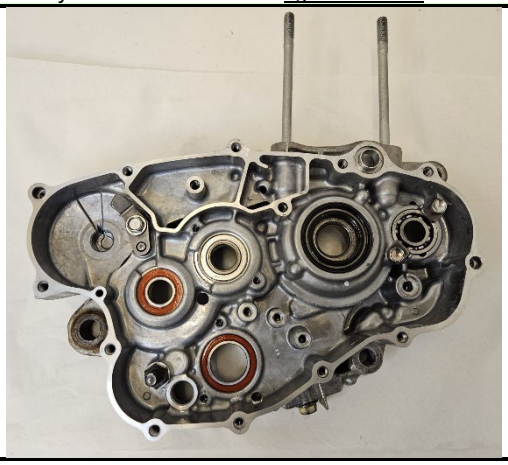
Stål/ Steel

C3-1) Sylinderblokk sett ovenfra
Bare cylinder block seen from above

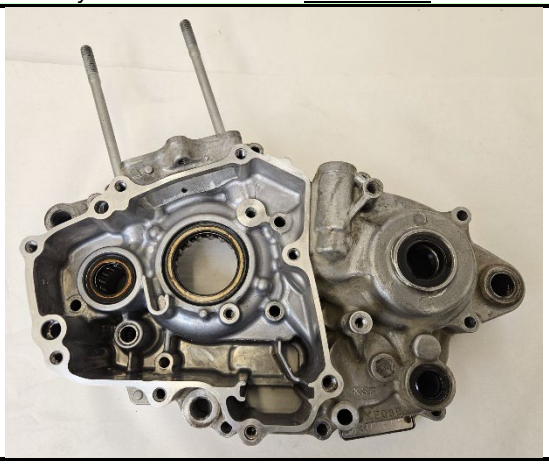
C3-2) Sylinderblokk sett bakfra
Bare cylinder block seen from rear



C3-3) Sylinderblokk sett fra høyre side
Bare cylinder block seen from right hand side

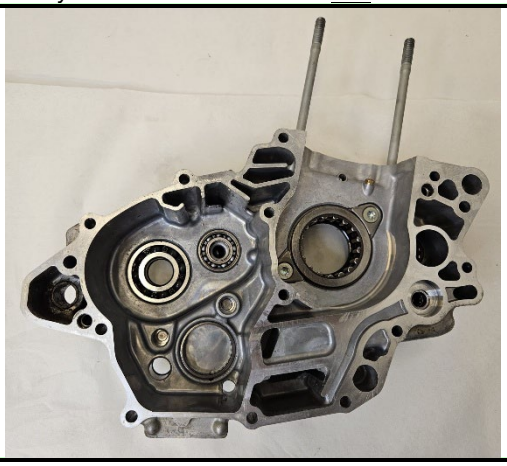


C3-4) Sylinderblokk sett fra venstre side
Bare cylinder block seen from left hand side

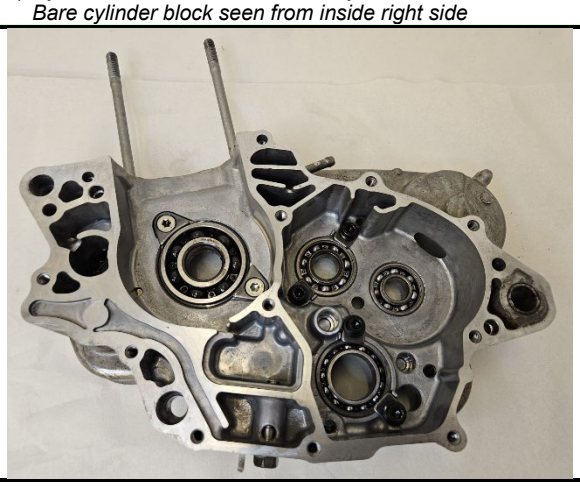


C3-5) Sylinderblokk sett fra eksossiden
Bare cylinder block seen from exhaust side

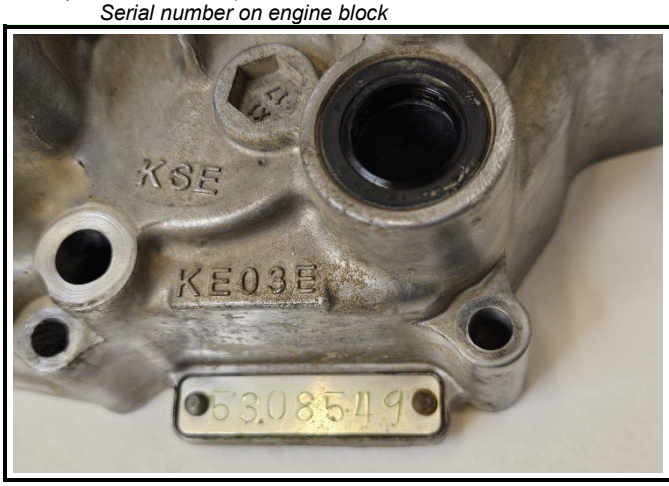
C3-6) Sylinderblokk sett fra innsiden venstre side
Bare cylinder block seen inside left side



C3-7) Sylinderblokk sett fra innsiden høyre side
Bare cylinder block seen from inside right side



C3-8) Serienummer på motorblokk
Serial number on engine block



307. BALANSEAKSEL SYSTEM

a) Balanseakselens materiale
Balancing shafts material ***Steel***

b) Balanseakselens vekt
Balancing shafts weight **183** +/- 5 g

C3-9) Balanseaksel demontert
Balancing shafts - dismounted

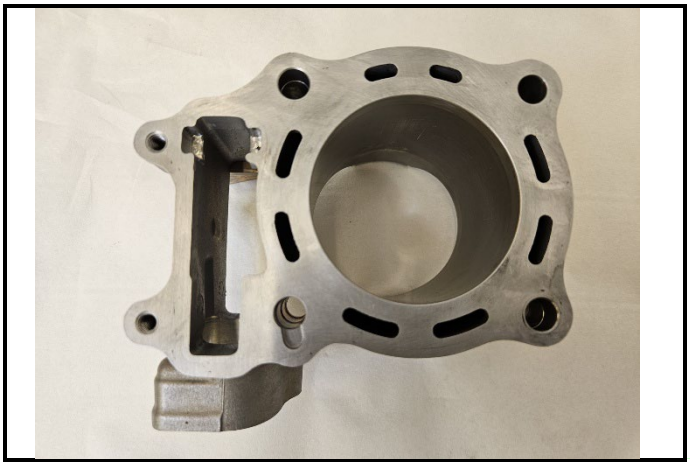
C3-10) Balanseaksel demontert
Balancing shafts - dismounted

311 B. SYLINDER UTSKIFTBAR

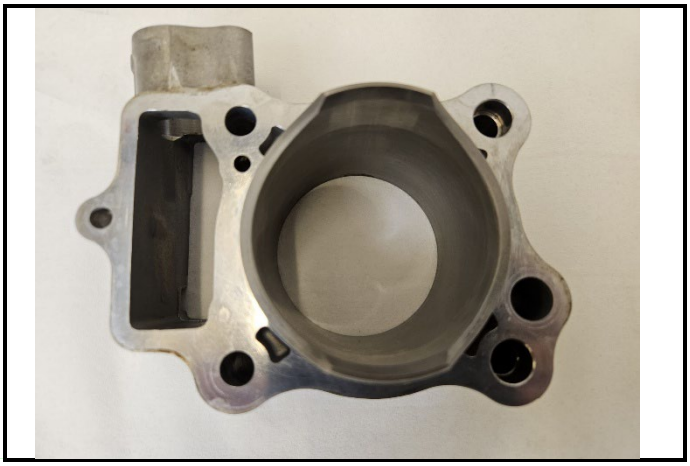
a) Materiale Nikasil

C3-11 Sylinderblokk sett ovenfra
Bare cylinder block seen from above

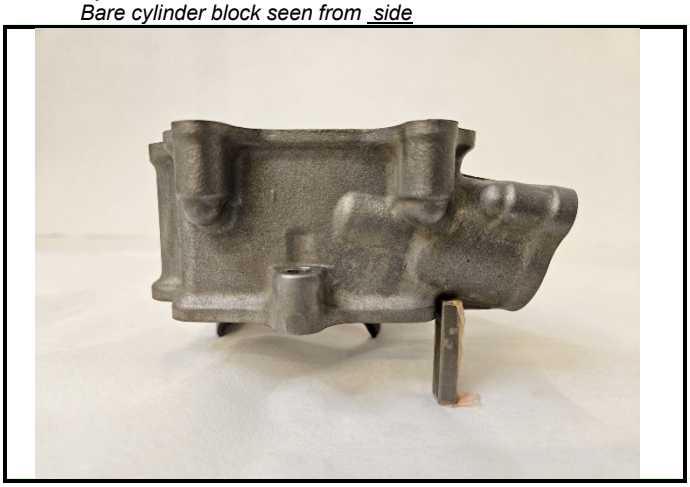
C3-12 Sylinderblokk sett unnenfra
Bare cylinder block seen from underneath



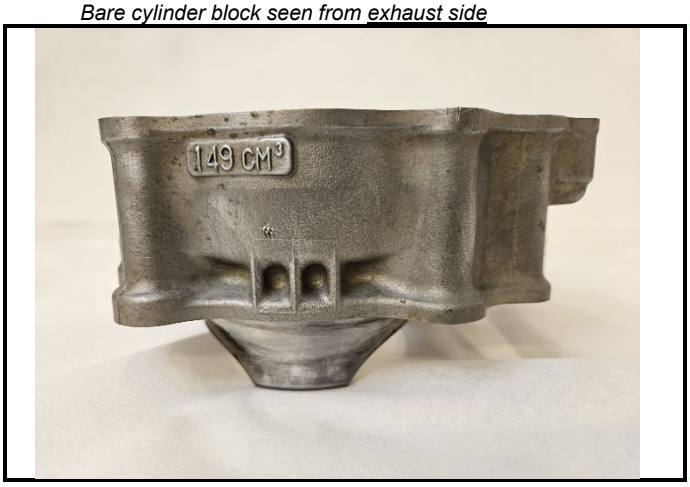
C3-13 Sylinderblokk sett fra siden
Bare cylinder block seen from side



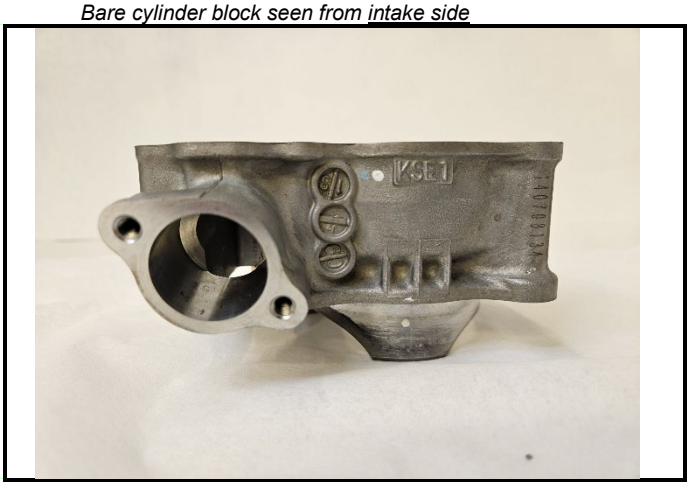
C3-14 Sylinderblokk sett fra siden
Bare cylinder block seen from side



C3-15 Sylinderblokk sett fra eksossiden
Bare cylinder block seen from exhaust side



C3-16 Sylinderblokk sett fra innsugsiden
Bare cylinder block seen from intake side



C311b Sylinder høyde
B

C3- N/A

Sylinder høyde målt fra toppakningens flate til bunnpakningens flate:

Minimum høyde 51.00mm

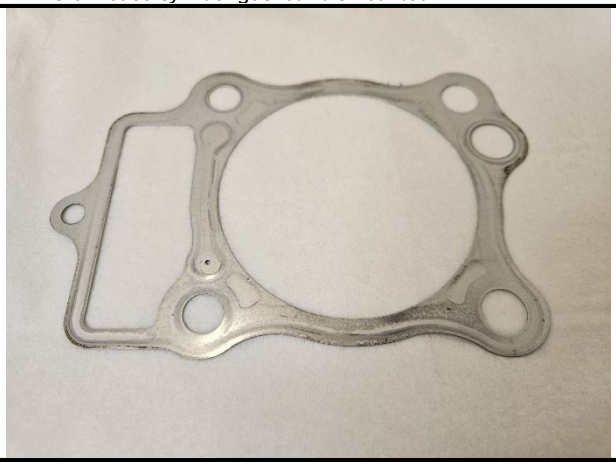
N/A

311c SYLINDER BUNNPAKNING

a) Bunnpakning sylinder materiale
Cranckcase sylinder gasket material

b) Bunnpakning tykkelse
Balancing shafts weight **0.35** ±0.05 mm

C3-17 Bunnpakning sylinder- demontert
Crankcase sylinder gasket - dismounted



C3-18 N/A

N/A

312. MINIMUM HØYDE PÅ SYLINDERBLOKK / *MIN. HEIGHT OF THE CYLINDER BLOCK*

a) Mellom bunn-og toppakningsflate *Between sump and head gasket planes* — mm

b) Mellom veivakselens seterlinje og toppakningsflate *Between crankshaft centreline and head gasket plane* — mm

III-C1) Høyde / *Height measurement*

N/A

313. CHEMISES / *SLEEVES*

	Ja / *Yes*	**Nei / *No***
a) Sylinder *Sleeved cylinder block*	☐	☒
b) Materiale *Material*		
c) Type *Type*	**Bløtt *Wet*** ☐	**Tørt *Dry*** ☐

C3-8) Sylinder demontert (Original)
Sleeve dismounted (Original)

N/A

C3-9) Sylinder demontert (Réparation)
Sleeve dismounted (Repair)

N/A

317. STEMPEL / *PISTON*

a) Materiale / *Material* — **Aluminium**

b) Antall stempelringer / *Number of rings* — **2**

b1) Tykkelse på stempelringer / *Thickness of rings* — **0,8-1,5** + 0.1 -0.05 mm

c) Minimum vekt / *Minimum weight* — **129.69** g

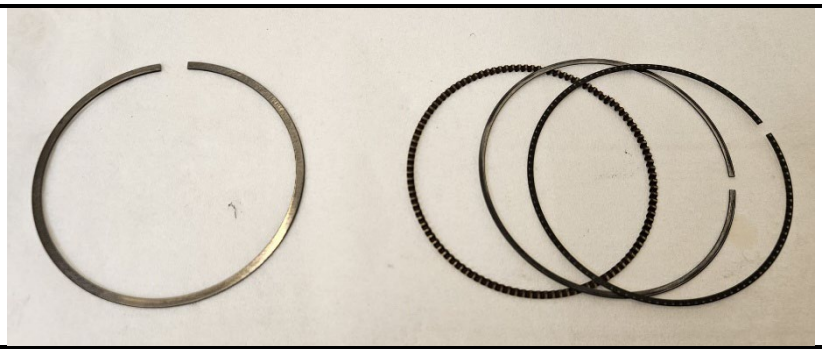
Med stempelbolt, lager, klips og stempelringer
With pin, bearing, clips and rings

d1) Maksimal høyde stempel / *Maximum compression height* — **20.50 / 23.7** mm

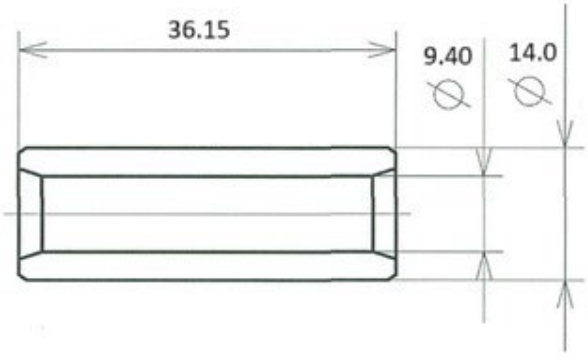
C4-1) Stempel fra ¾ av toppen
Piston from ¾ top

C4-2) Stempel fra ¾ av bunn
Piston from ¾ bottom

C4-3) Stempel ringer
Piston rings

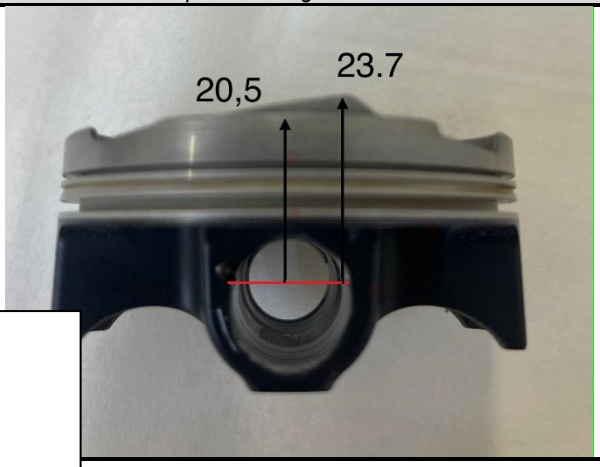


III-D1) Stempelbolt
Piston pin



± 0.1 mm tolerance

III-D2) Minimum høyde kompresjon
Minimum compression height



318. RÅDE / *CONNECTING ROD*

a) Materiale / *Material*: **Steel**

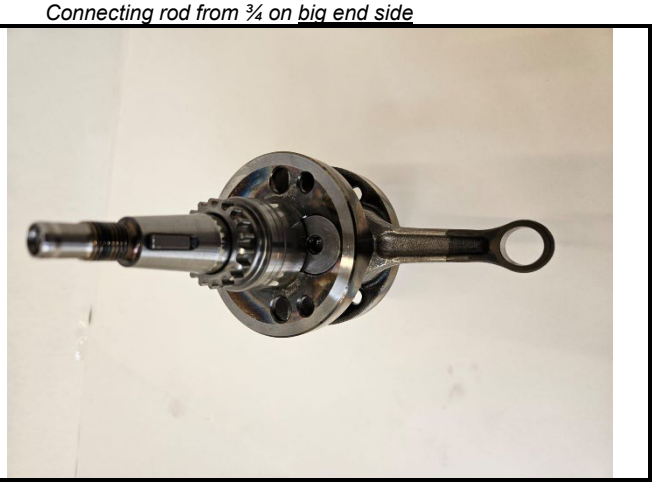
b) Type arm / *Big end type*: ***Ikke delt rådearm***

c) Innerdiameter store enden (uten lagerskåler) / *Interior diameter of the big end (without shell bearings)*: **N/A** +0.1 - 0 mm

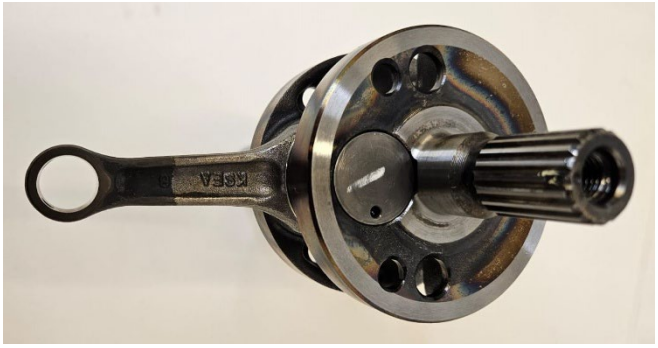
d) Lengde mellom aksene / *Length between axes*: **N/A** ± 0.1 mm

e) Minimum vekt / *Minimum weight*: **1903** g

C5-1) Råde sett ¾ fra store enden
Connecting rod from ¾ on big end side



C5-2) Råde sett ¾ fra den lille enden
Connecting rod from ¾ rear on small end side



319. VEIVAKSEL / *CRANKSHAFT*

a) Type veivaksel/produksjonstype / *Type of manufacture*: **9 deler sammensatt**

b) Materiale / *Material*: **Steel**

c) Type veivaksel produksjon / *Manufacturing process*: **Støpt** ☐ **Smid** / ***Forged*** ☒ **Maskinert fra heldel** / ***Machined from raw*** ☐

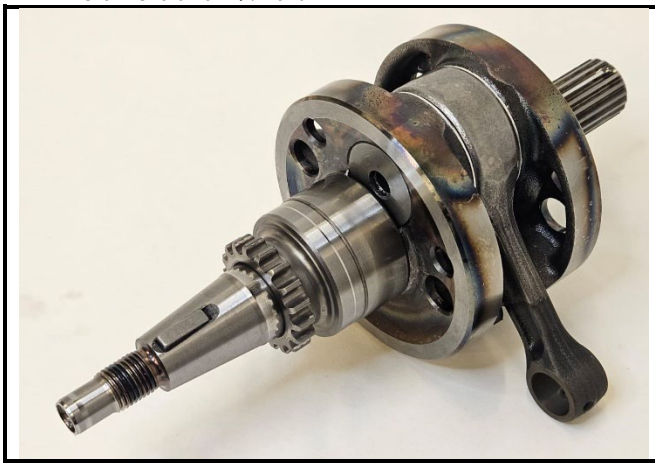
f) Diameter på hovedakseltapp / *Diameter of main journals*: **21.95** +0.05 mm - 0.05 mm

g) Lagerbukk materiale / *Bearing caps material*: **N/A**

h) Minimumsvekt på veivaksel / *Minimum weight of bare crankshaft*: **1903 g** g

i) Diameter på veivtapp / *Diameter of crank pins*: **N/A** +0 - 0.1 mm

C6-1) Veivaksel sett ¾ forfra
Crankshaft from ¾ front

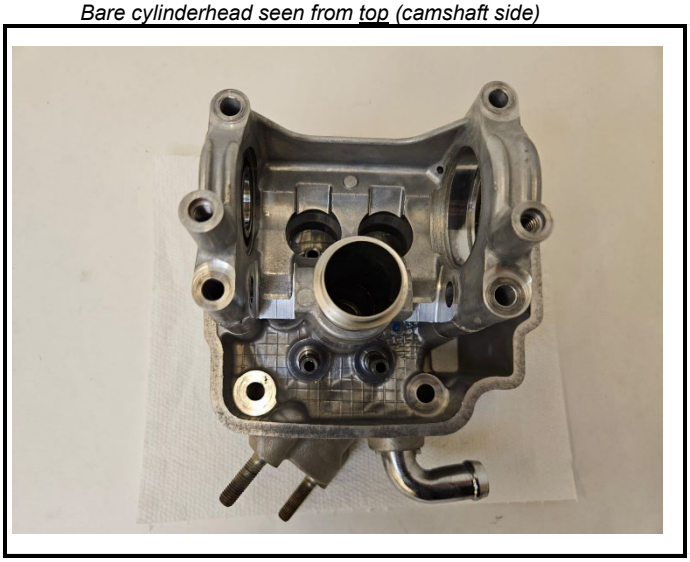


C6-2) Veivaksel sett ¾ bakfra
Crankshaft from ¾ rear

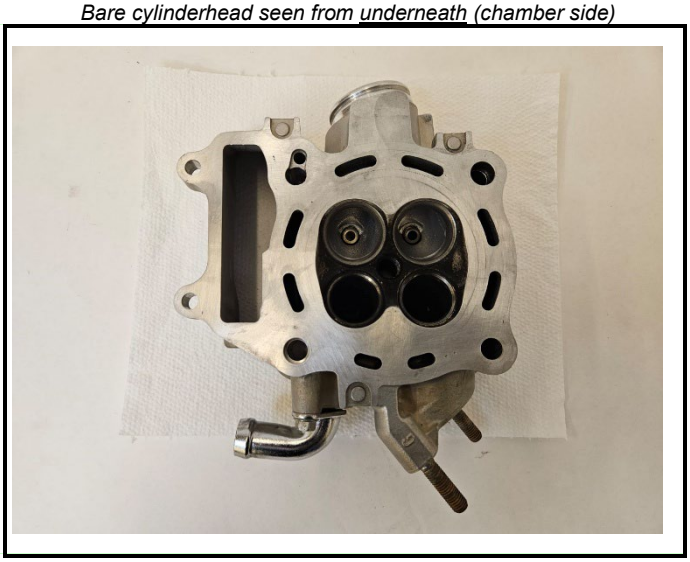
321. TOPPLOKK / *CYLINDERHEAD*

b)	Materiale *Material*		**Aluminium**		
c)	Minimum høyde *Minimum height*		**60.86**	mm	
d)	Målt fra hvor *Where measured*		**Toppdekselets annlegsflate til topplokkets flate mot sylinder**		
g)	Minimum volum på forbrenningskammer *Minimum volume of a combustion chamber*	*and exhaust valve*	**14,00**	cm3	(Ifra. Stempel og toppakning) *Incl. Piston and Cyl. Head Gasket)*

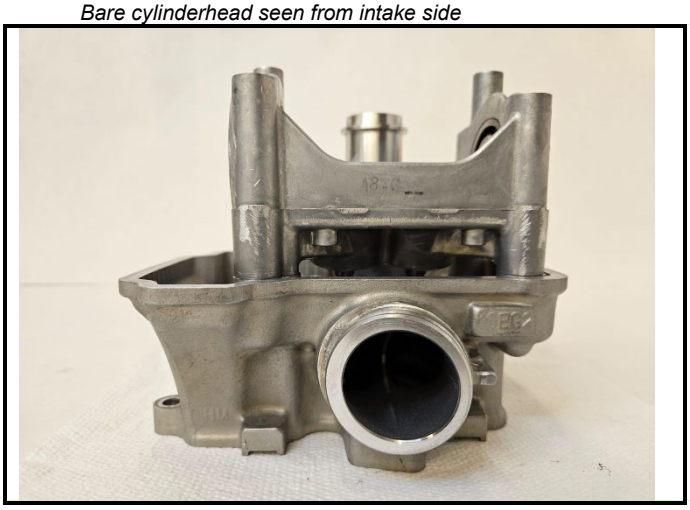
C8-1) Topplokk sett ovenfra (kamakselside)
Bare cylinderhead seen from top (camshaft side)



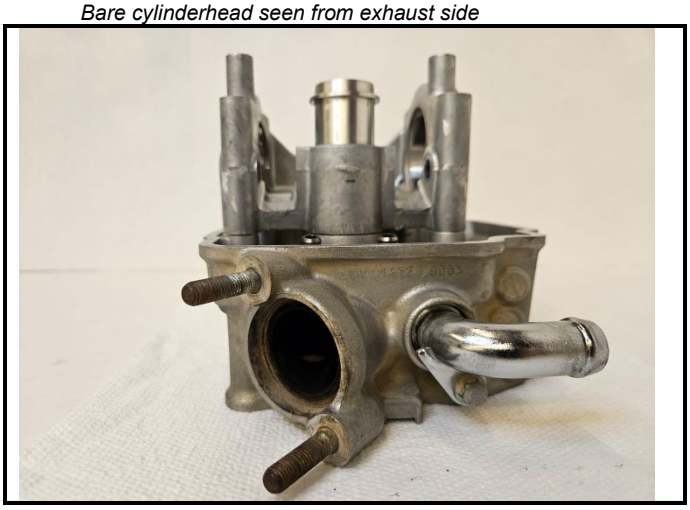
C8-2) Topplokk sett undenfra (forbrenningskammer side)
Bare cylinderhead seen from underneath (chamber side)



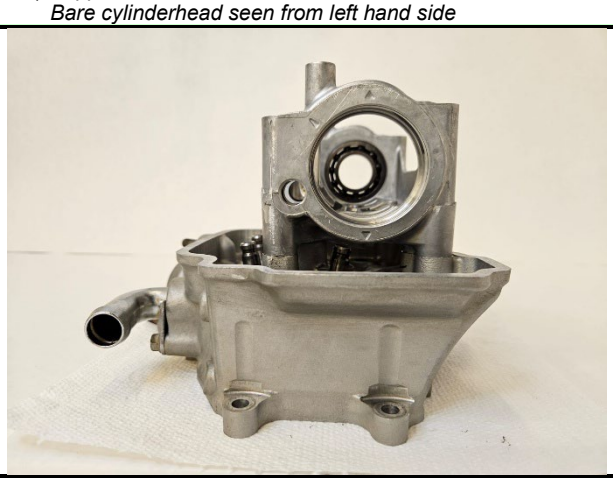
C8-3) Topplokk sett fra insuggssiden
Bare cylinderhead seen from intake side



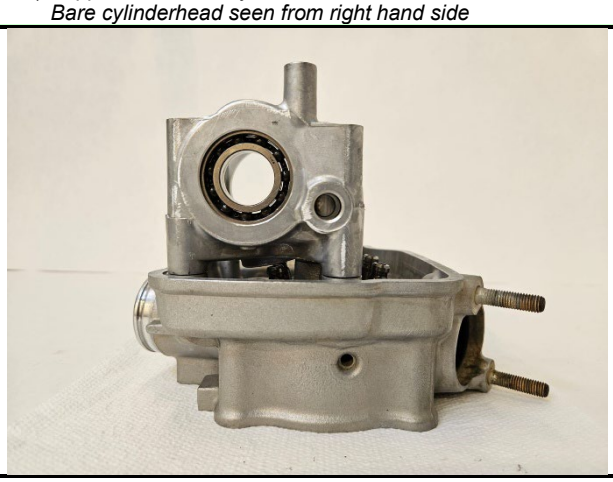
C8-4) Topplokk sett fra eksossiden
Bare cylinderhead seen from exhaust side



C8-5) Topplokk sett fra venstre side
Bare cylinderhead seen from left hand side



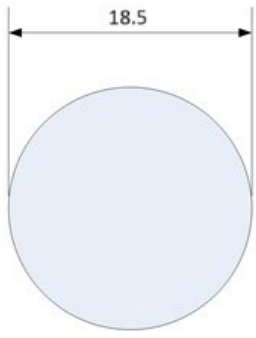
C8-6) Topplokk sett fra høyre
Bare cylinderhead seen from right hand side



C8-7) Kompresjonskammer
Combustion chamber

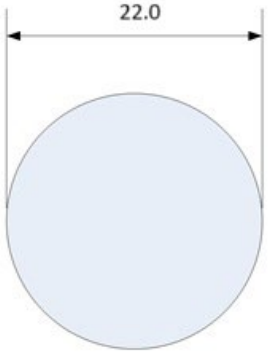
Min. Volum kompresjonsrom 9.42

III-E1) Maksimum diameter på insugsventilens sete innvendig
Maximum intake seat diameter innere side



18.5mm

III-E2) Maksimum diameter på eksosventilens sete innvendig
Maximum exhaust seat diameter inner side

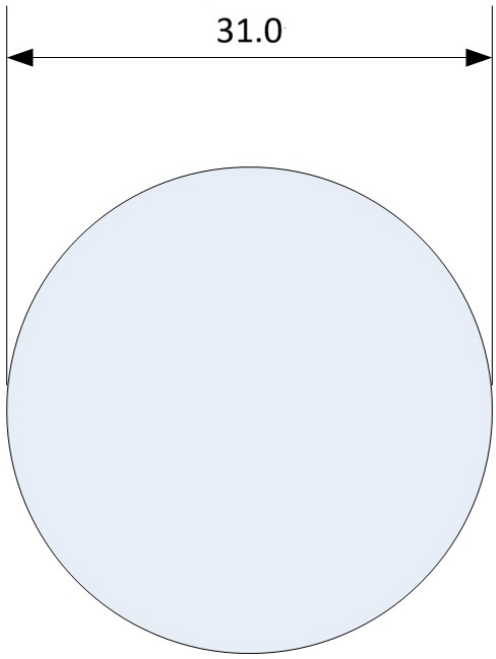


22.0mm

INNSUG / *INTAKE*

Tegninger av topplokkets innsugsporter – tolleranser på dimmensjoner : -2/+4 %
Drawings of cylinder head ports - tolerances on dimensions : -2/+4 %

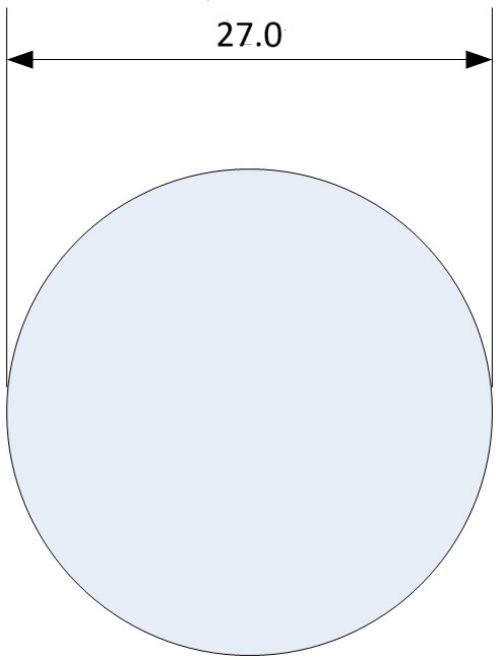
III-K1) Topplokk manifoild side / *Cylinderhead, manifold side*



EKSOS / *EXHAUST*

Tegning av topplokkets eksosporter – tolleranse på dimmensjoner : -2/+4 %
Drawings of cylinder head ports - tolerances on dimensions : -2/+4 %

III-L1) Topplokk eksos side / *Cylinderhead, manifold side*

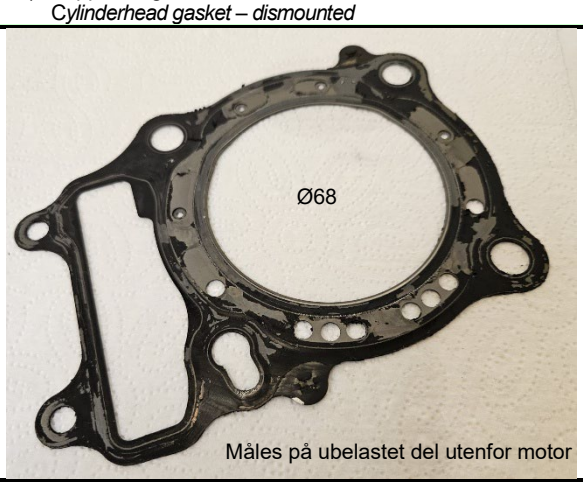


322. TOPPAKNING / *CYLINDERHEAD GASKET*

a) Tykkelse på en tiltrukket toppakning
Thickness of tightened cylinderhead gasket **0.50mm** ± 0.1 mm

b) Pakningens volum ved beregning
Gasket volum on calculation **1,815 ccm**

C8-14) Toppakning – demontert
Cylinderhead gasket – dismounted



323. DRIVSTOFFTILFØRSEL FORGASSER / *FUEL FEED CARBURETTOR*

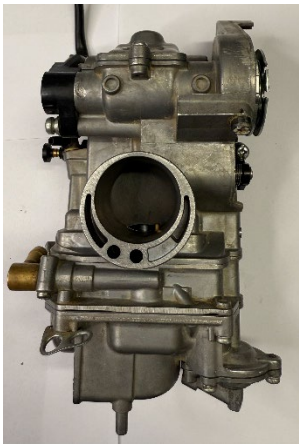
a) Forgasse type størrelse
Carburettor type and size **Stempelforgasser 32 mm**

b) Forgasse betegnelser
Carburettor markings **FCR08 (A,B,D)**

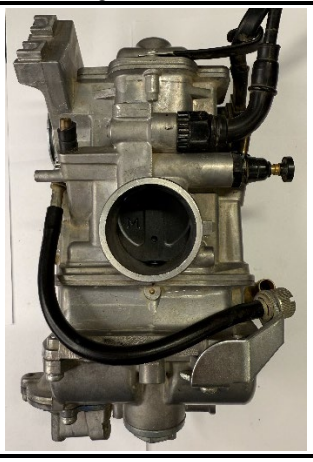
C9-1) Forgasser sett fra høyre side
Carburettor right side

C9-2) Forgasser sett fra venstre side
Carburettor left side

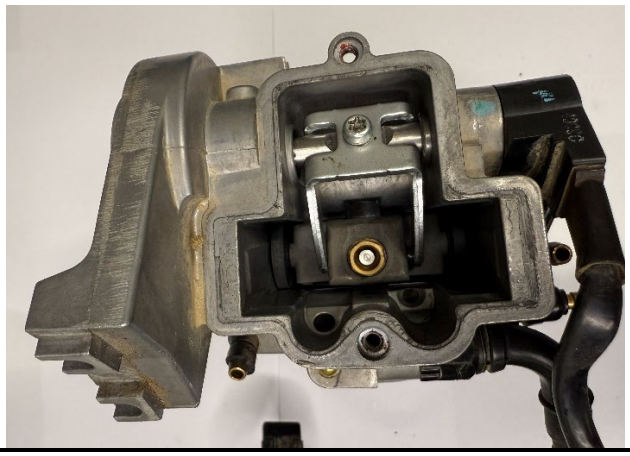
C9-1) Forgasser sett fra motorsiden
Carburettor from airbox



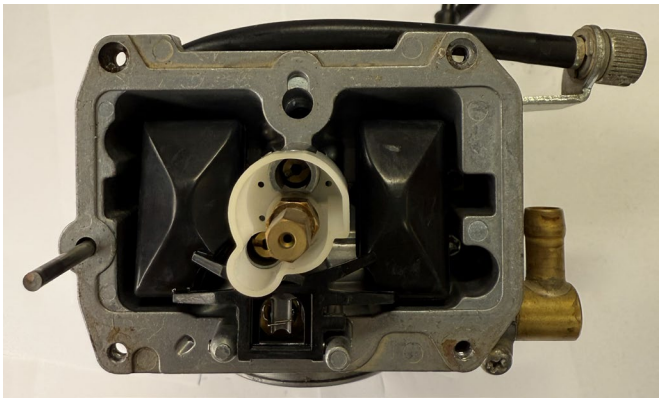
C9-2) Forgasser sett fra luftfiltersiden
Carburettor from engine side



C9-1) Forgasser sett fra toppen uten deksel
Carburettor seen from top opened



C9-2) Forgasser sett fra bunn uten flotørhus
Carburetor seen from the bottom without float housing



323 DRIVSTOFFTILFØRSEL FORGASSER / *FUEL FEED CARBURETTOR*

d) Forgasser diameter Carburettor diameter	**Målt 16,5mm fra luftfilterside Ø33,7** ± 0.1 mm **Målt 0,0mm fra luftfilterside Ø35** ± 0.1 mm
e) Forgasser diameter Carburettor diameter	**Målt 0 mm fra motorside Ø 32,8** ± 0.1 mm
f) Forgasser stempeldiameter Carburettor butterfly walve size	**Ø32.0** ± 0.1 mm

324. MOTORSTYRING SYSTEM / *ENGINE CONTROL SYSTEM*

a) Merke og type
Make and type
Denso

Direkte - Direct ☐ **Indirekte - Indirect** ☒

c) Bensinsystem
Fuel measurement

Mekanisk / *Mechanical* ☒ **Elektronikk / *Electronic*** ☐ **Hydraulisk / *Hydraulic*** ☐

e) Antall drivstoffuttak i bruk
Number of effective fuel outlets
N/A

f) Dyser
Injectors

f1) Posisjon
Position

Manifoild / *Manifold* ☐ **Topplokk / *Cylinder head*** ☐

Kamber *Chamber* ☐ ***Forkamber*** *Pre Chamber* ☐

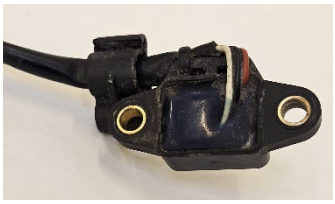
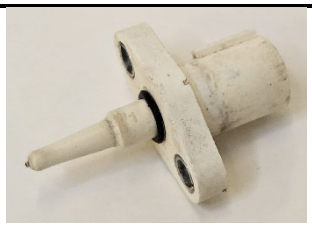
g) Liste av sensorer for motorstyringen
List of engine control system sensors

N°	Number	Function	Merke og referanse- Make & Reference
C1		NEUTRAL POSITION	FREE
C2		GASSPJELDPOSISJON	Honda 16060-KSE-671 (resistanse ved 20 C – 4-6kOhm)
C3		LUFTTEMP/ AIR TEMP	OEM
C4		TURTALL/ENGINE SPEED	Diameter krage 6.9mm
C4 alt		TURTALL/ENGINE SPEED	Parts nr 16060-KSE-671
C6			
C7			
C8			
C9			

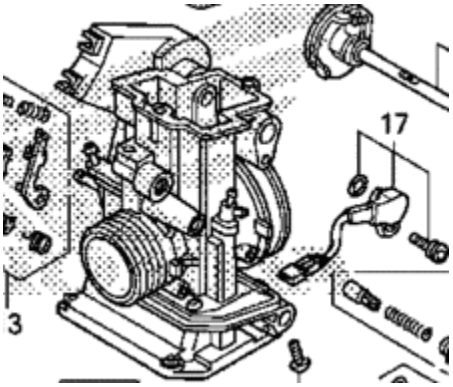
h) Liste av aktuatorer for motorstyringen
List of engine control system actuators

N°	Number	Function	Merke og referanse- Make & Reference
A1		MOTORSTYRINGSENHET	REF.071000-4060
A2		COIL	Parts nr 30700-KSE-003

C9-1) Motorstyringssystem
Engine control system

 C1	 C2	 C3	 C4
 C4 ALT	C6	C7	Diameter på krage C4 6.9mm.
C9	C10	C11	C12
C13	C14	C15	C16
 A1	 A2	A3	A4
A5	A6	A7	A8

III-I1) POSISJON PÅ SENSORER OG AKTUATORER / *LOCATION OF SENSORS AND ACTUATORS*



C2

Sensors not located on Engine	
C3	Airfilter housing

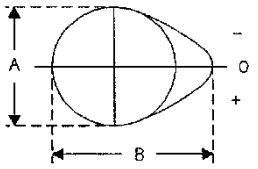
325. KAMAKSEL / *CAMSHAFT*

c) Drivsystem / *Drive system*: **Metall kjede**

e) Diameter på akseltappen / *Diameter of journals*: **47.0 / 20.0** ± 0.1 mm

g) Kamdimmensjon / *Cam dimensions*

	Admission / *Intake*		Echappement / *Exhaust*	
A =	**26.00**	± 0.1 mm	**25.30**	± 0.1 mm
B =	**34.13**	± 0.1 mm	**29.80**	± 0.1 mm



Toleransene må brukes med samme fortegn for A og B
The tolerances must be used with the same sign for A and B

h) Minimumsvekt / *Minimum weight*: **0.415** kg — **Kun 1 kamaksel**

326. DISTRIBUTION / *TIMING*

a) Teoretisk klaring / *Theoretical clearance*	**Innsug** / ***Intake***	**0.16**	mm	**Eksos** / ***Exhaust***	**0.26**	mm
b) Kamaksel timing mot TDC	**Innsug** / ***Intake***	**110**	± 2°	**Eksos** / ***Exhaust***	**98**	± 2°

c) Kamakselløft (demontert aksel) / *Cam lift in mm (dismounted camshaft)*

Målt med 3mm endeball
Measured with a 3mm diameter ball

INNSUG / *INTAKE*				**EKSOS / *EXHAUST***			
Rotasjons vinkel *Rotation angle in degrees*	Løft i mm *Lift in mm* (± 0.05 mm)	Rotasjons vinkel *Rotation angle in degrees*	Løft i mm *Lift in mm* (± 0.05 mm)	Rotasjons vinkel *Rotation angle in degrees*	Løft i mm *Lift in mm* (± 0.05 mm)	Rotasjons vinkel *Rotation angle in degrees*	Løft i mm *Lift in mm* (± 0.05 mm)
0	**8.18**			0	**4.85**		
- 5	**8.00**	+ 5	**8.00**	- 5	**4.80**	+ 5	**4.83**
- 10	**7.49**	+ 10	**7.51**	-10	**4.70**	+ 10	**4.75**
- 15	**6.62**	+ 15	**7.68**	- 15	**4.53**	+ 15	**4.59**
- 20	**5.56**	+ 20	**7.74**	- 20	**4.30**	+ 20	**4.37**
- 25	**4.57**	+ 25	**4.79**	- 25	**3.98**	+ 25	**4.10**
- 30	**3.60**	+ 30	**3.97**	- 30	**3.62**	+ 30	**3.76**
- 35	**2.80**	+ 35	**3.09**	- 35	**3.20**	+ 35	**3.36**
- 40	**2.13**	+ 40	**2.41**	- 40	**2.74**	+ 40	**2.91**
- 45	**1.55**	+ 45	**1.84**	- 45	**2.26**	+ 45	**2.45**
- 50	**1.09**	+ 50	**1.34**	- 50	**1.77**	+ 50	**1.95**
- 55	**0.72**	+ 55	**0.97**	- 55	**1.32**	+ 55	**1.50**
- 60	**0.48**	+ 60	**0.68**	- 60	**0.92**	+ 60	**1.08**
- 65	**0.30**	+ 65	**0.47**	- 65	**0.60**	+ 65	**0.74**
- 70	**0.23**	+ 70	**0.34**	- 70	**0.38**	+ 70	**0.49**
- 75	**0.17**	+ 75	**0.27**	- 75	**0.25**	+ 75	**0.36**
- 80	**0.12**	+ 80	**0.20**	- 80	**0.20**	+ 80	**0.31**
- 85	**0.07**	+ 85	**0.14**	- 85	**0.16**	+ 85	**0.27**
- 90	**0.02**	+ 90	**0.08**	- 90	**0.12**	+ 90	**0.24**

En differanse på +/- 2 grader på alle målinger er akseptert / + = Samme rotasjonsretning som motoren
*A shift of +/- 2 degrees of **the whole measurement** is accepted / + = Same rotation direction as engine*

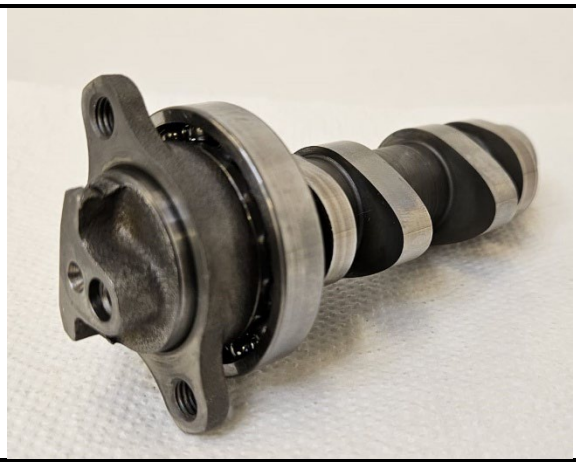
c) Maksimum ventilløft / *Maximum valve lift*

Innsug / ***Intake***	**Eksos** / ***Exhaust***
8.34	**7.16**

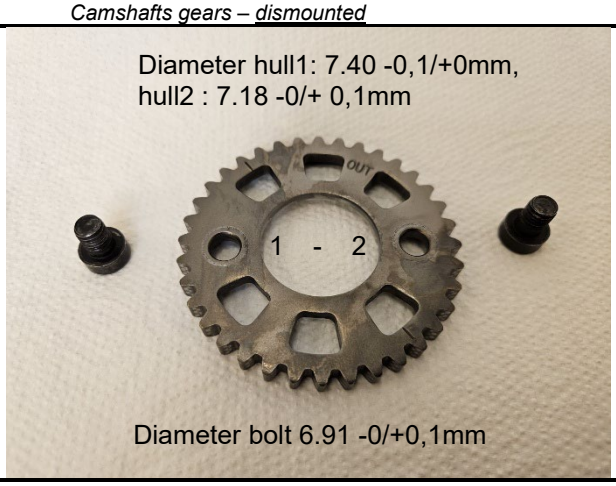
Med klaring iht produsent
with clearance according to producer

C10-1) Kamaksel- demontert / *Camshaft - dismounted*

C10-2) Kamaksel- demontert / *Camshaft - dismounted*



C10-5) Kammakselhjul - demontert
Camshafts gears – dismounted



C10-6) Ventilløfter eller trykker innsug – demontert
Tappet Intake – dismounted

III-J2) Vippearm - dimmensjoner
Rocker arm – typical dimensions

Not applicable

III-J3) Ventilløfter eller trykker innsug - dimensjoner
Tappet Intake – typical dimensions

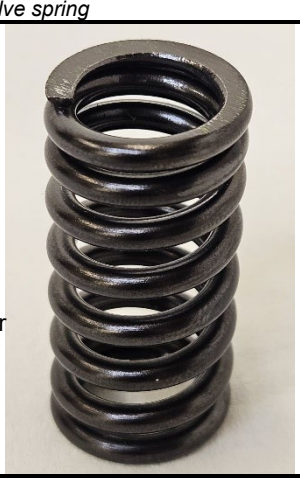
C10-7) Ventilløfter eller trykker eksos – demontert
Tappet Exhaust – dismounted

III-J4) Ventilløfter eller trykker eksos – dimmensjon
Tappet Exhaust – typical dimensions

Aksel diameter : 9.95 +0,05mm
Aksel vekt minimum 21 gram
Vippe arm vekt minimum 56 gram
Ruller diameter 16.96 mm ± 0,02

C10-8) Ventilfjær innsug
Intake valve spring

8 hele vindinger
+ ender

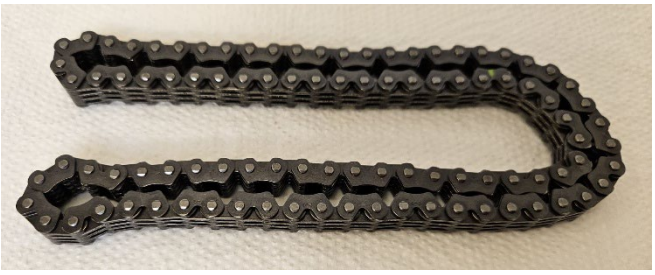


C10-9) Ventilfjær eksos
Exhaust valve spring

9 hele vindinger
+ ender

d) Ventilfjær innsug lengde ubelastet *Intake valve spring free length*	**37.9**	± 1 mm	d) Ventilfjær eksos lengde ubelastet *Exhaust valve spring free length*	**44.5**	± 1 mm
e) Ventilfjær insug lengde belastet 200 Nm *Intake valve spring length under 200 Nm*	**32.30**	± 1 mm	f) Ventilfjær eksos lengde belastet 200 Nm *Exhaust valve spring length under 200 Nm*	**39.70**	± 1 mm
g) Ventilfjær innsug diameter. Intake valve spring wire diameter	**2.95**	± 0.1 mm	h) Ventilfjær eksos diameter. Exhaust valve spring wire diameter	**3.25**	± 0.1 mm

C10-10) Register reim, kjede eller tannhjul- demontert
Timing belt. chain or gears – dismounted



Type / *Type* : **Silent Chain**
Pitch / *Pitch* :**6.35** ±0.1 mm
Ant. Tenner / *Nb of teeth* : **48**
Lengde / *Length* : **608** ±2 mm (exterieur/*outside*)
Bredde / *Width* : **8.84** ±0.1 mm

327. INNSUG / *INTAKE*

a) Materialet av traktene *Material of trumpets*	N/A				
b) Dimmensjon av innsugsrøret ved gasspjeldet Dimensions of the intake pipe at the throttle valve			33.30mm	+0.1 / -0.2 mm	
c) Avstand mellom gasspjeld og topplokk Distance between throttle valve and head			32 mm	± 2 mm	
d) Maximum diameter på ventil *Maximum diameter of the valve head*	26 mm	± 0.1 mm	d1) Vinkel på ventiltoppen *Angle of valve head*	45	deg ± 30 min
e) Diameter på ventilstammen *Diameter of valve stem*	4.4mm	+0 -0.2 mm	f) Lengde på ventilen *Valve length*	78	± 1.5 mm
g) Materialet på ventilen Valve material	Stål		h) Min vekt ventil Min *valve weight*	19.4	g
i) Fjærplate materiale *Spring plate material*	Stål		j) Minimum vekt på fjærplate *Min spring plate weight*	4.85	g

C11-1) Luftfilterboks- demontert
Airbox - dismounted

N/A

C11-2) Luftfilterboks- demontert
Airbox - dismounted

N/A

C11-3) Luftfilterboks- montert
Airbox – assembled

N/A

C11-3) Gasspjeld enhet- demontert
Throttle unit - dismounted

C11-4) Gasspjeld enhet- demontert
Throttle unit - dismounted

C11-5) Innsugsventil - demontert
Intake valve - dismounted

C11-6) Fjærplate innsugsventil bunn- demontert
Intake spring plate - dismounted

328. EKSOS / *EXHAUST*

a) Materiale for eksos *Material of exhaust*	N/A				
c) ;Minimum rør tykkelse *Minimum thickness of tubes*	N/A	mm			
d) Max Diameter på eksosventil *Maximum diameter of the valve*	22.5	± 0.1 mm	d1)Vinkel på ventilen i topplokket *Angle of valve head*	45	deg ± 30 min
e) Duameter på ventilstamme *Diameter of valve stem*	4.4	+0 -0.2 mm	f) Ventil lengde *Valve length*	80	± 1.5 mm
g) Ventil materiale *Valve material*	Inox/ Steel		h) Min vekt ventil Min *valve weight*	17.4	g
i) Fjærplate materiale Spring plate material	Steel		j) Min vekt fjærplate *Min spring plate weight*	4.85	g

C12-1) Eksos ventil - demontert
Exhaust valve - dismounted

C12-2) Fjærplate eksosventil - demontert
Exhaust spring plate - dismounted

EKSOS / *EXHAUST*

Tegning av komplett eksosanlegg
Drawing of the complete exhaust

III-L1) Eksosanlegg / Exhaust

All dimensions in mm

All diameters are internal diameters

LYDDEMPER / *SILENCER*

Tegning av komplett lyddemper
Drawing of the complete silencer

III-L3) Lyddemper / Silencer

All dimensions in mm

All diameters are internal diameters

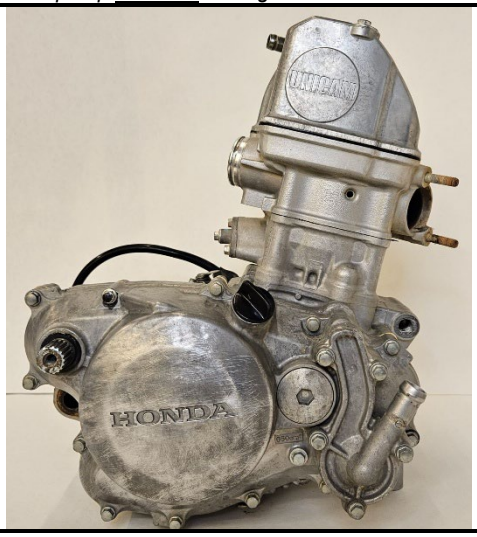
SECTION OF SILENCER

331. KJØLESYSTEM / *COOLING SYSTEM*

c) Vannpumpe type
Origin of the water pump **Mekanisk**

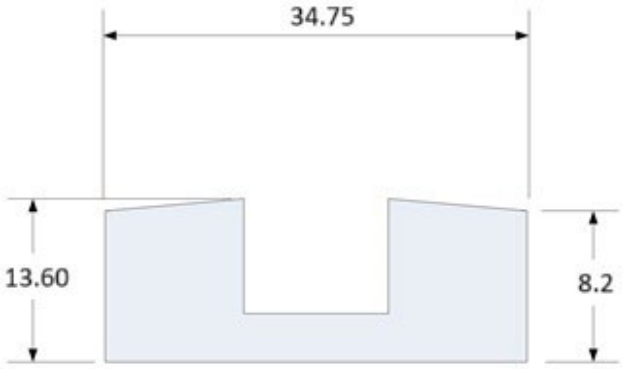
C13-3) Vannpumpe - demontert
Water pump - dismounted

C13-4) Vannpumpe montert på motoren
Water pump mounted on engine



C13-5) Turbinhjulet på vannpumpe
Turbine wheel of water pump

III-M2) Turbinhjulet på vannpumpe
Turbine wheel of water pump



± 1.0 mm tolerance

333. SMØRESYSTEM / *LUBRICATION SYSTEM*

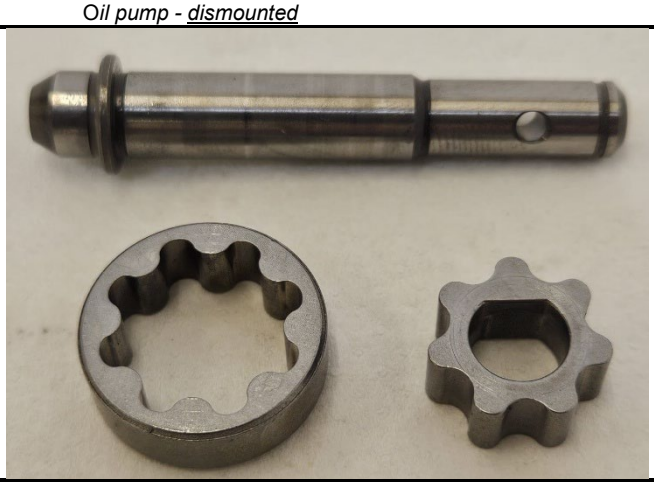
a) Materialet på bunnpanne
Material of oil sump

N/A - Olje i blokk

C14-1) Bunnpanne - demontert
Oil sump - dismounted

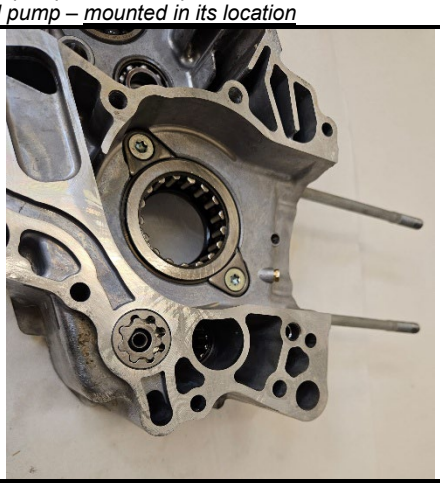
C14-2) Bunnpanne- demontert
Oil sump - dismounted

C14-3) Olje pumpe - demontert
Oil pump - dismounted



C14-3) Oljepumpe - demontert
Oil pump - dismounted

C14-4) Oljepumpe – montert på motoren
Oil pump – mounted in its location



4.DRIVSTOFFSYSTEM / *FUEL*

402. BENSINPUMPE / *FUEL PUMP*

a) Maximum Benisntrykk Maximum pressure	0,3 barA

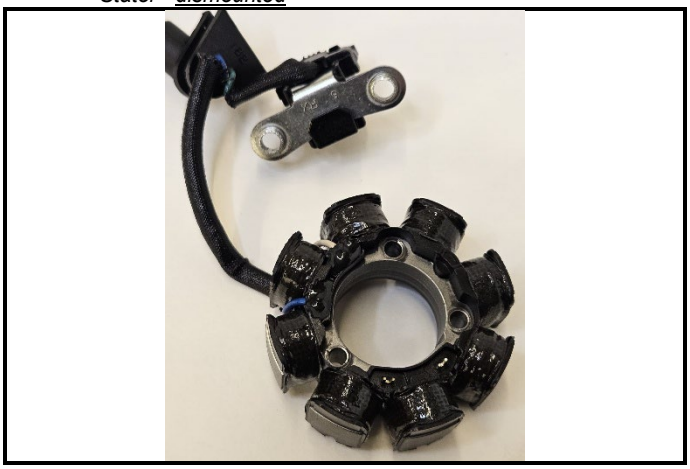
5. ELEKTRISK UTSTYR / *ELECTRICAL EQUIPMENT*

502. DYNAMO/ GENERATOR/ STARTER - *ALTERNATOR / GENERATOR / STARTER*

a)	Diameter på rotor utside *Rotor External diameter*	**74.8**	+/- 0.5 mm
b)	Diameter på rotor innerside *Rotor Internal diameter*	**62.7**	+/- 0.5 mm **2 Forhøyninger 37.90 /5.0**
c)	Antall stator poler. *Number of Stator pôles*	**8**	
d)	Bredden på stortor tilkoblingene *Width of Stator pôles*	**16.5**	+/- 0.5 mm
e)	Stator extern diameter *Stator external diameter*	**61.0**	+/- 0.5 mm
f)	Stator inner diameter *Stator internal diameter*	**27.6**	+/- 0.5 mm

C15-1) Rotor - demontert
Rotor - dismounted

C15-2) Stator - demontert
Stator - dismounted

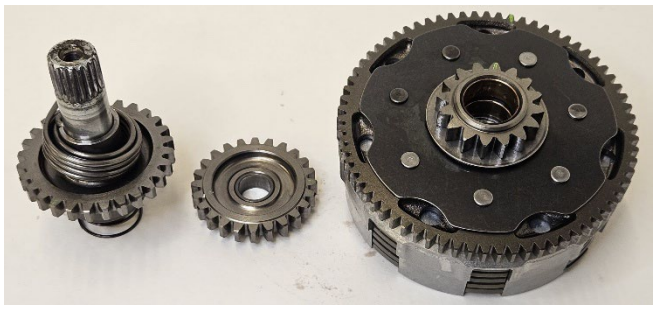


504. STARTER / *STARTER*

a)	Starer referanse *Starter reference:*	**Manuel**	
b)	Tannhjul til starter *Starter wheel : Teeth nb :*	**28-24-16**	
c)	Bredde frihjul : *Free wheel width :*	**N/A**	+/- 0.5 mm

C16-1) Starter - demontert
Starter – dismou nted

C16-2) Frihjul - demontert
Free Wheel - dismounted

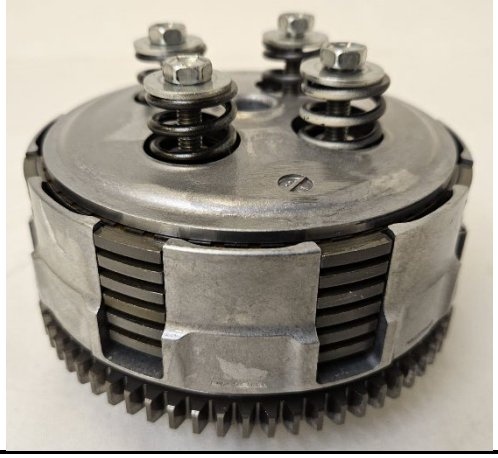


6.GIRKASSE, CLUTCH / *POWER TRAIN*

602. EMBRAYAGE / *CLUTCH*

a) Clutchenhet vekt *Assembly weight*			1650	g	+/- 50 g	Festet med mutter *With fixing nut*
b) Friksjonsdisk *Driving disks*	b1) *Antall* *Number*	6		b2) *Tykkelse* Thickness	3.0	+/- 0.5mm
c) Trykkplate disk *Driven disks*	c1) *Antall* *Number*	5		c2) *Tykkelse* *Thickness*	1.95	+/- 0.5mm

C17-1) Komplett Clutch - montert
Complete *Clutch - mounted*



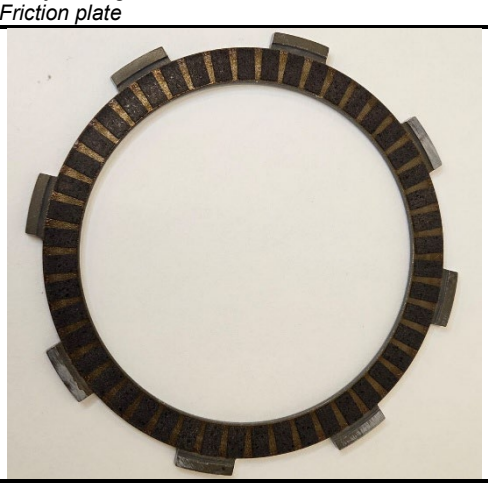
C17-2) Fjærer
Spring

602 CLUTCH / *CLUTCH*

a) Fjærskiver
Spring washer

a1) *Antall*
Number 4

C17-5) Friksjons ring
Friction plate



C17-6) Trykkplatering
Pressure plate

C17-7) Clutch kam – sett forfra
Clutch cam – face view

N/A

C17-8) Clutch kam - sett bakfra
Clutch cam – rear view

N/A

GIRKASSE / GEARBOX

a) Emplacement :
Location: **Motorblokk**

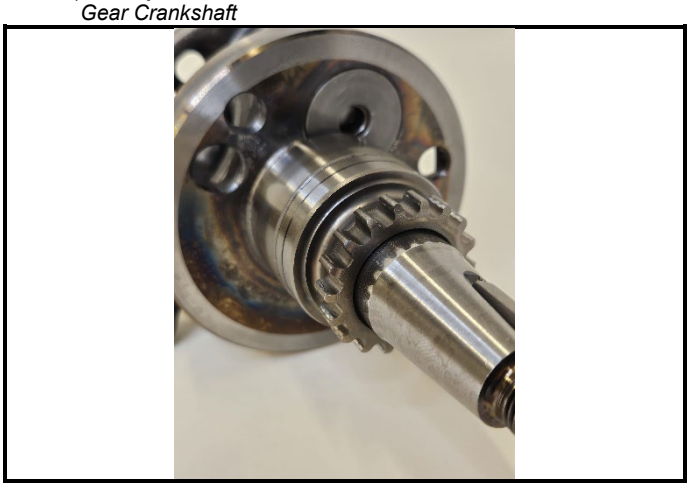
b) Tannhjul veivaksel:
Primary ratio on crankshaft **20**

c) Tannhjul på Clutch
Primary ratio on clutch **15**

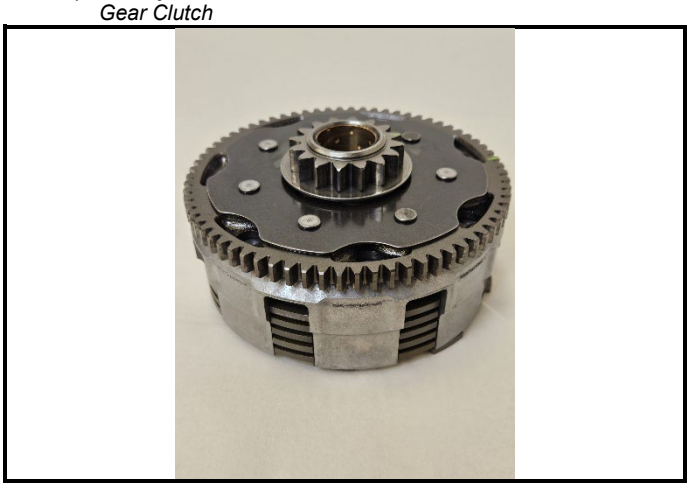
d) Gir utveksling
Gear ratios

	Giraksel *Layshaft:*	Giraksel Pinionshaft:	d) Materiau: *Material*:	f) Tykkelse (mm): *Thicknesses (mm):* ± 0.5mm	g) Vekt (g): *Weight (g):* ± 15 g
1	**14**	**31**	*Stål/ Steel*	**11.5 /10.5**	**284/ 134**
2	**17**	**28**	Stål / Steel	12.0/ 11.4	**74/ 144**
3	**22**	**29**	Stål / Steel	11.5/ 11.8	143/ 128
4	**19**	**21**	Stål / Steel	9.8/ 9.6	103/ 141
5	**23**	**22**	Stål / Steel	9.51/ 9.64	84/ 152
6					

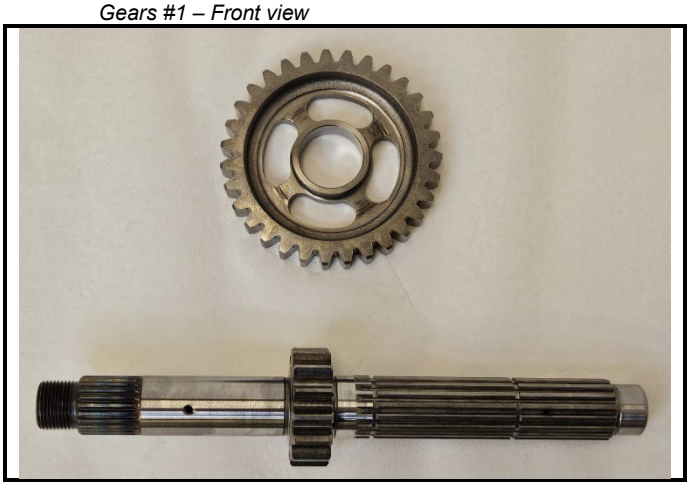
F12-1) Tannhjul veivaksel
Gear Crankshaft



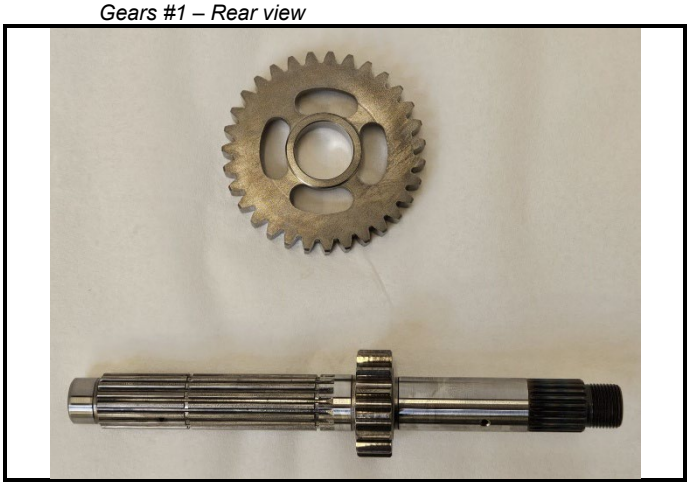
F12-2) Tannhjul clutch
Gear Clutch



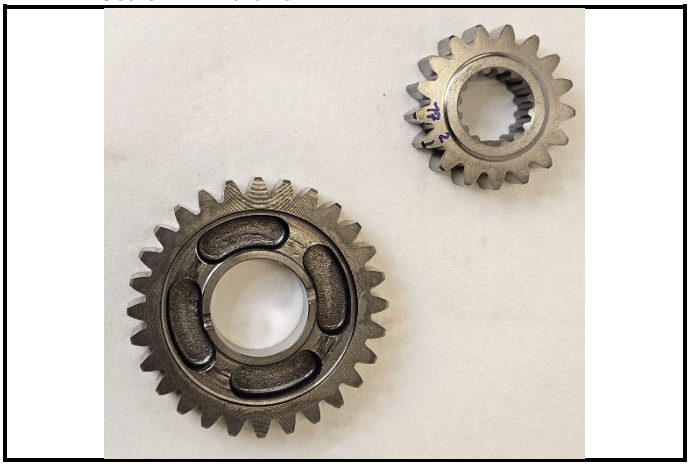
F12-3) Tannhjul #1 – Sett forfra
Gears #1 – Front view



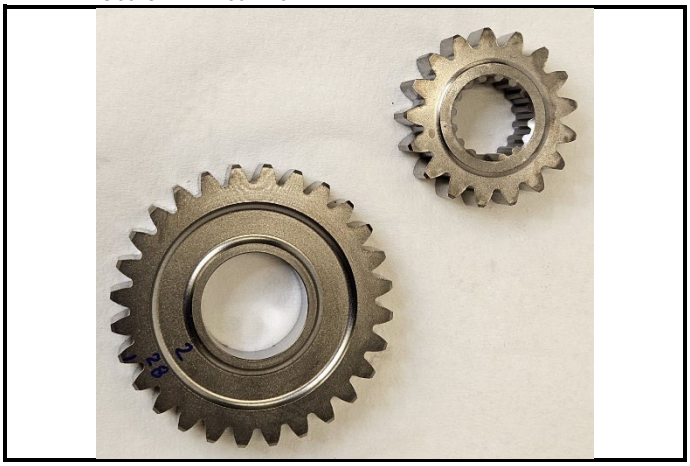
F12-4) Tannhjul #1 – Sett bakfra
Gears #1 – Rear view



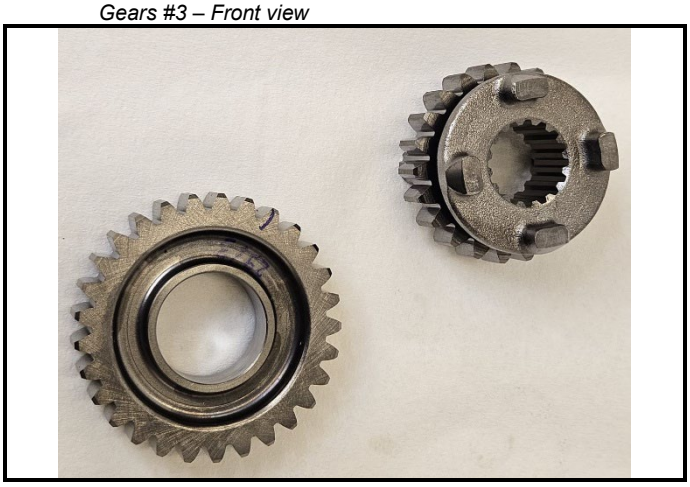
F12-5) Tannhjul #2 – Sett forfra
Gears #2 – Front view



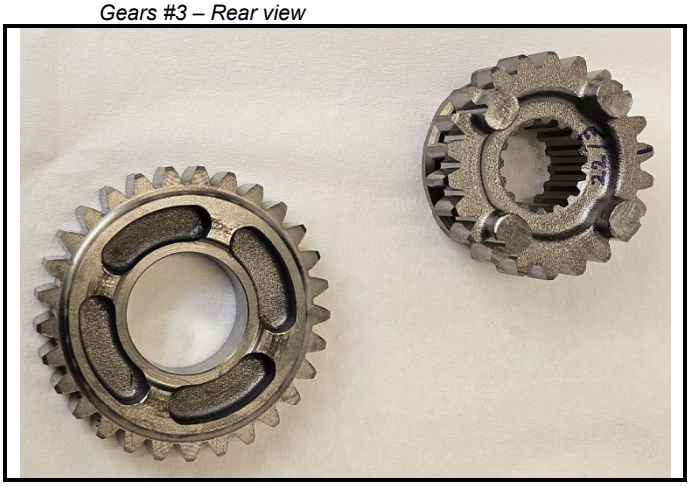
F12-6) Tannhjul #2 – Sett bakfra
Gears #2 – Rear view



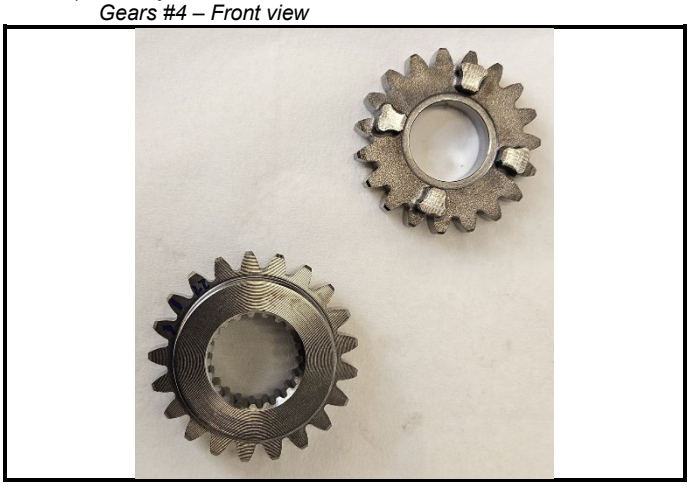
F12-7) Tannhjul #3– Sett forfra
Gears #3 – Front view



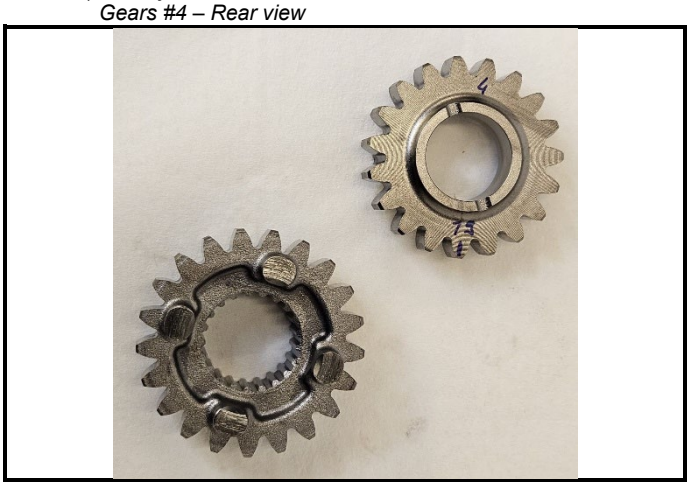
F12-8) Tannhjul #3 – Sett bakfra
Gears #3 – Rear view



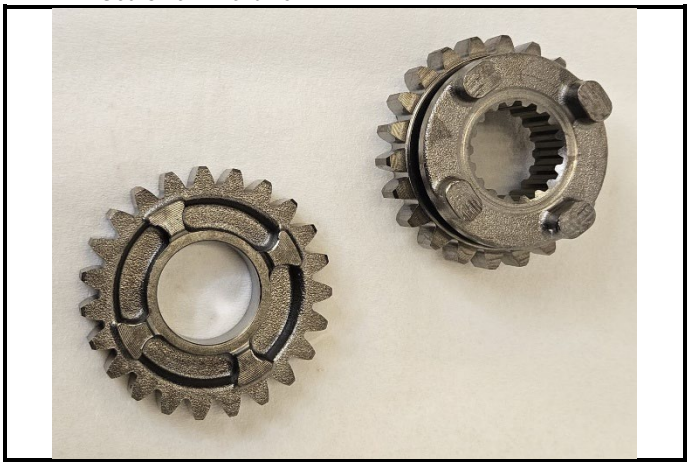
F12-9) Tannhjul #4 – Sett forfra
Gears #4 – Front view



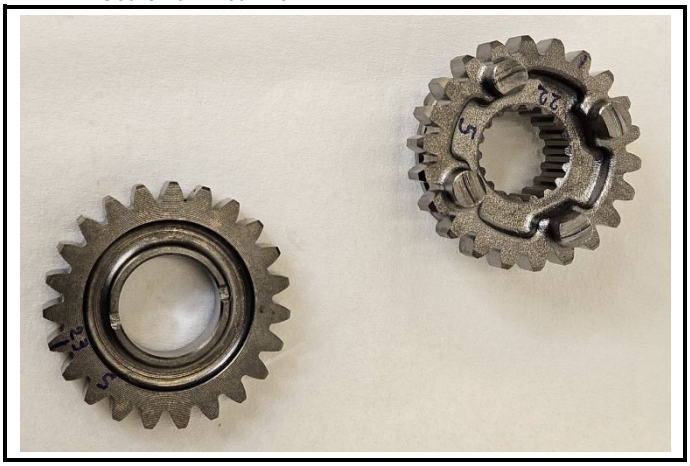
F12-10) Tannhjul #4 – Sett bakfra
Gears #4 – Rear view



F12-11) Tanhjul #5 – Sett forfra
Gears #5 – Front view



F12-12) Tannhjul #5 – Sett bakfra
Gears #5 – Rear view



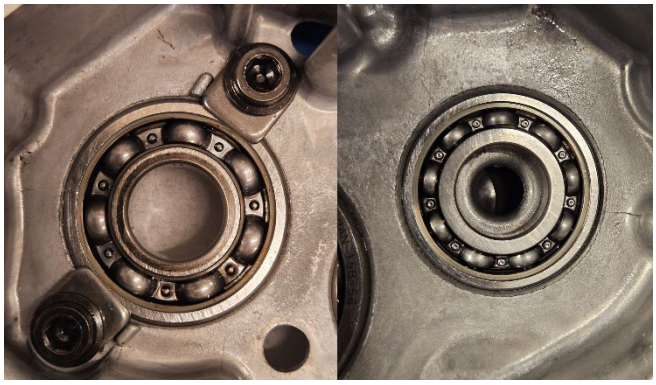
F12-13) Tannhjul #6 – Sett forfra
Gears #6 – Front view

F12-14) Tannhjul #6 – Sett bakfra
Gears #6 – Rear view

604. HOVEDAKSEL LAGRING / *LAYSHAFT ASSEMBLY*

a)	Referanse for lager *Reference of bearing*	**Kulelager stål**	
b)	Vekt på lager *Weight of bearing*	**N/A**	± 10 g
c)	Bredde/ yter og indre diameter lager *Width / External and internal diameters of bearing*	**N/A**	±0.1 mm
d)	Vekt på giraksel *Weight of layshaft*	**283**	± 10 g
e)	Materiale hovedaksel *Material of layshaft*	**Stål/Steel**	

F7-1) Lagring
Bearing



F7-2) Hovedaksel
Layshaft

605. ASSEMBLAGE ARBRE SECONDAIRE / *PINIONSHAFT / MAINSHAFT ASSEMBLY*

a) Materiale på giraksel /hovedaksel *Material of pinionshaft/mainshaft*	**Stål/ Steel**	
b) Vekt giraksel /hovedaksel *Weight of pinionshaft/mainshaft*	**285**	± 10 g
c) Referanse venstre hovedlager *Reference of left mainshaft bearing*	**Honda 63/22**	
d) Bredde/ytter og indre diameter på hovedlager *Width / External and internal diameters of mainshaft bearing*	**N/A**	± 0.1 mm
e) Vekt på venstre hovedlager *Weight of left mainshaft bearing*	**N/A**	± 10 g
f) Referanse høyre hovedlager *Reference of right mainshaft bearing*	**Honda 18x29x14**	
g) Bredde / ytter og indre diameter venstre hovedlager *Width / External and internal diameters of right mainshaft bearing*	**N/A**	± 0.1 mm
h) Vekt på høyre hovedlager (med clips og support) *Weight of right mainshaft bearing (With support and clips)*	**N/A**	± 10 g
i) Bredde/ ytter og indre diameter av utvekslings nålelager *Width / External and internal diameters of ratio needle bearings*	**N/A**	± 0.1 mm
j) Wekt på utveklings nålelager *Weight of ratio needle bearings*		± 5 g
k) Materiale på holder *Material of the hub*	**Metall**	
l) Antall dogger/klør på hvert girdrev *Number of dog on each gear*	**1:4/ 2:4/ 3:4/ 4:4/ 5:4**	
m) Materiale på dogringer *Material of dog rings*	**Stål integrert i girdrev**	
n) Masse des anneaux de crabotage *Weight of clutch rings*	**Integrert i girdrev**	

F8-1) Giraksel hovedaksel
Pinionshaft / Mainshaft

F8-2) Venstre hovedlager
Left mainshaft bearing

F8-3) Høyre hovedlager
Right mainshaft bearing

F8-4) Nålelager
Ratio needle bearings

Not applicable

F8-5) Holder
Hub

Not applicable

606. MECANISME DE SELECTION DES RAPPORTS / *GEAR SELECTION MECHANISM*

a) Matériau des fourchettes incluant l'axe
Material of selector forks incl. axle — **Stål /Steel**

	#1-4	#2-5	#3	
b) Vekt på skiftegaffler *Weight of forks*	**63**	**65**	***55***	± 5 g
c) Vekt på aksel for skiftegaffler *Weight of shaft gear shift fork*	**54**		**33**	± 5 g

d) Skifteaksel diameter
Forks axle diameter — **11** ± 0.1 mm

e1) Gaffel finger tykkelse
Forks finger thickness — **5** ± 0.1 mm

e2) Skifteaksel diameter
Forks locating pin diameter — **6** ± 0.1 mm

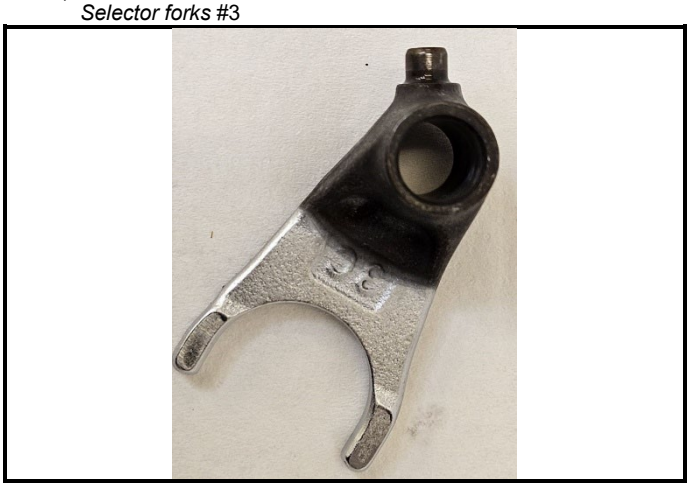
f1) Material på girvelger rulle
Material of selector barrel assembly — **Stål / Steel**

f2) Vekt på girvelger rulle
Weight of selector barrel assembly — **361** ± 5 g

F9-1) Skiftegaffel #1-4
Selector forks gear #1-4

F9-2) Skiftegaffel #2-5
Selector forks #2-5

F9-3) Fourchette #3
Selector forks #3



F9-4) Axe de fouchette #1-4 / # 2-5
Fork's axle #1-4 / # 2-5

F9-5) Axe de fouchette #3
Fork's axle #3

F9-10) Assemblage du barillet
Selector barrel assembly

F9-11) Assemblage du barillet
Selector barrel assembly