

HOMOLOGERINGS DOKUMENT

Homologeringen er gyldig fra 01.01.2025 -

1. Generell info/ General

101. PRODUSENT/MANUFACTURER

KTM / GASGAS / HUSQVARNA

Deksler på motorsider vil være avvikende mellom KTM/GASGAS og HUSQVARNA, disse variantene til GAS GAS og HUSQVARNA kan benyttes,

3. Motor Engine

307. SYLINDER KAPASITET/ MAXIMUM CYLINDER CAPACITY

a) Unitaire Unitary	249,91	cm3
b) Total	249,91	cm3

309. MINIMUM VEKT PÅ MOTOR/ MINIMUM WEIGHT

a) Vekt som beskrevet i homologeringsdokumentet som på bildene	24.14	kg
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314. BORRING/BORE

78	+0 - 0.1 mm
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316. SLAGLENGDE/STROKE

52.3	+0 - 0.1 mm
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C1-1) Demontert motor -sett fra siden  
*Dismounted engine – seen from the side*



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



C1-3) Toppdeksel - demontert  
*Cylinderhead cover - dismounted*



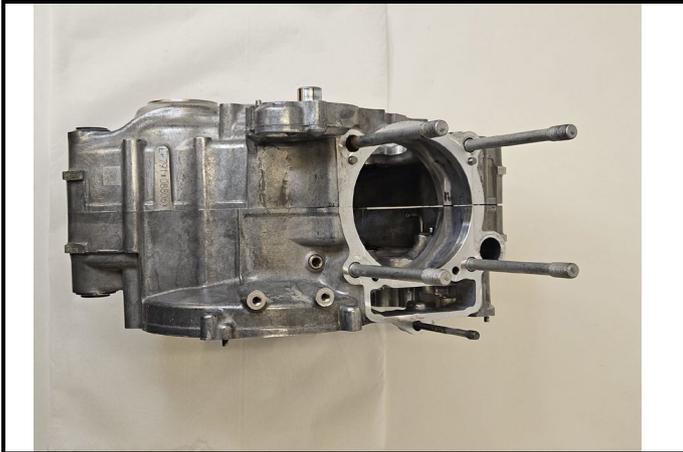
C1-4) Toppdeksel- demontert  
*Cylinderhead cover - dismounted*



**311. SYLINDERBLOKK**

a) Materiale Aluminium

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



C3-2) Sylindereblokk sett unnenfra  
*Bare cylinder block seen from underneath*



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



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



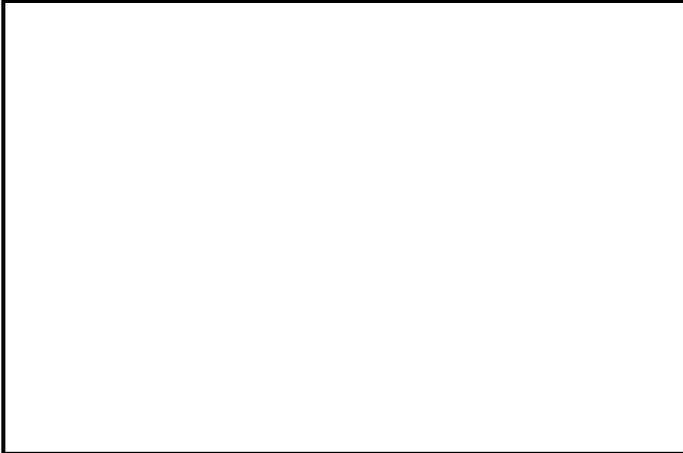
C3-5) Sylindereblokk sett fra eksosiden  
*Bare cylinder block seen from exhaust side*



C3-6) Sylindereblokk sett fra innsugsiden  
*Bare cylinder block seen from intake side*



C3-7) Veivaksellager holder  
*Crankshaft bearing caps*



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



**307. BALLANSEAKSEL SYSTEM**

a) Balanseakselens materiale  
*Balancing shafts material*

**Stål**  
**Steel**

b) Balanseakselens vekt  
*Balancing shafts weight*

**238**

+/- 5 g

C3-9) Balanseaksel demontert  
*Balancing shafts - dismantled*



C3-10) Balanseaksel demontert  
*Balancing shafts - dismantled*

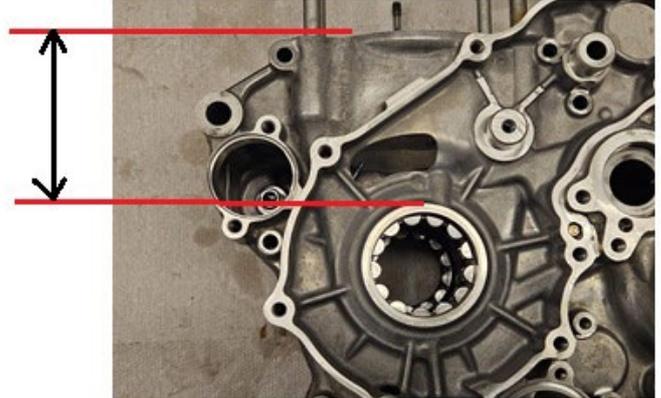


**312. MINIMUM HØYDE PÅ SYLINDERBLOKK / MIN. HEIGHT OF THE CYLINDER BLOCK**

**III-C1) Høyde / Height measurement**

a) Mellom bunnpakningsflate og lager toppunkt  
*Between botum gasket plane and main bearing top point*

82,23mm  
± 0.2 mm



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

N/A

**313. CHEMISES / SLEEVES**

a) *Sylinder  
Sleeved cylinder block*

**Ja / Yes**

**Nei / No**

C3-8) *Sylinder demontert (Original)  
Sleeve dismantled (Original)*

b) *Material  
Material*

c) *Type  
Type*

**Bløtt  
Wet**

**Tørt  
Dry**

C3-9) *Sylinder demontert (Réparation)  
Sleeve dismantled (Repair)*

C3-13 Sylindrblokk sett fra siden  
Bare cylindre seen from side view



C3-14 Sylindrblokk sett fra siden  
Bare cylindre seen from side view



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



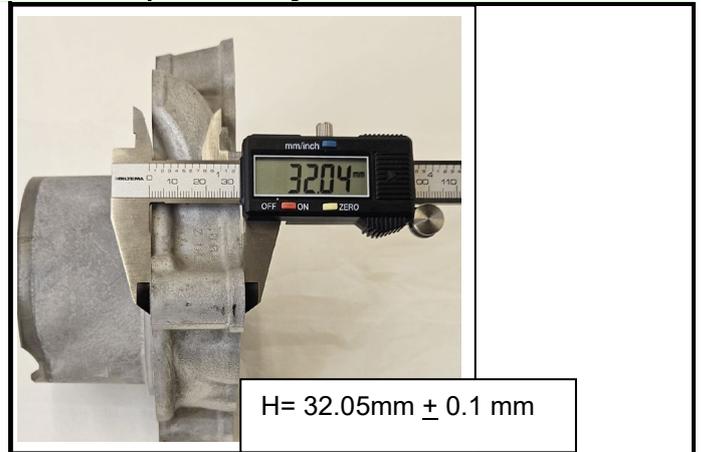
C3-16 Sylindrblokk sett fra innsugsiden  
Bare cylinder block seen from intake side



C3-15 Sylindrblokk sett fra bunn  
Bare cylinder block seen from bottom



C3-16 Sylindrblokk høyde  
Bare cylinder block hight



**311 SYLINDER BUNNPAKNING**

a) Bunnpakning sylinder materiale  
*Crankcase cylinder gasket material*

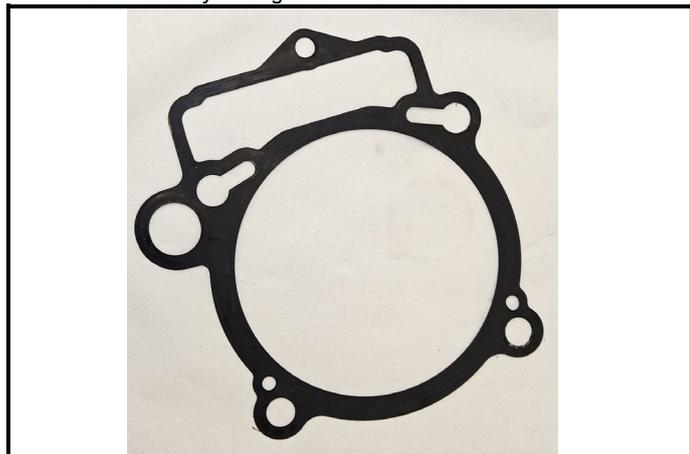
b) Bunnpakning tykkelse  
Balancing shafts weight

**0,40**

±0.05 mm

C3-17 Bunnpakning sylinder- demontert  
*Crankcase cylinder gasket - dismantled*

C3-18 N/A



**317. STEMPEL / PISTON**

- |  |                    |   |  |
|--|--------------------|---|--|
| a) Materiale<br>Material                                       | <b>Aluminium</b>   |   |  |
| b) Antall stempelringer<br>Number of rings                     | <b>2</b>           | b1) Tykkelse på stempelringer<br>Thickness of rings | <b>0.8 – 1.5</b> + 0.1<br>-0.05 mm   |
| c) Minimum vekt<br>Minimum weight                              | <b>192</b>         | g   | <u>Med stempelbolt, lager, klips og stempelringer</u><br><u>With pin, bearing, clips and rings</u> |
| d1) Maximum høyde stempel<br><b>Maximum compression height</b> | <b>19.75-24.30</b> | mm  |  |

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



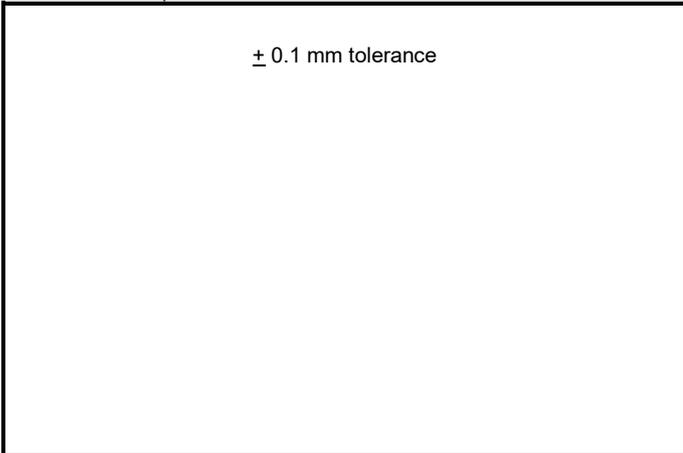
C4-2) Stempel fra ¾ av bunn  
Piston from ¾ bottom



C4-3) Sempel ringer  
Piston rings



III-D1) Stempelbolt  
Piston pin



III-D2) Minimum høyde kompresjon  
**Minimum compression height**



**318. RÅDE / CONNECTING ROD**

- |  |                             |                                   |                   |
|--|-----------------------------|-----------------------------------|-------------------|
| a) Materiale<br>Material   | <b>Stål</b><br><b>Steel</b> | b) Type arm<br>Big end type       | <b>Sammensatt</b> |
| c) Innerdiameter store enden (uten lagerskåler)<br>Interior diameter of the big end (without shell bearings) |                             | N/A                               | +0.1<br>- 0 mm    |
| d) Lengde mellom aksene<br>Length between axes   | <b>N/A</b>                  | e) Minimum vekt<br>Minimum weight | <b>N/A</b>        |
- ± 0.1 mm 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



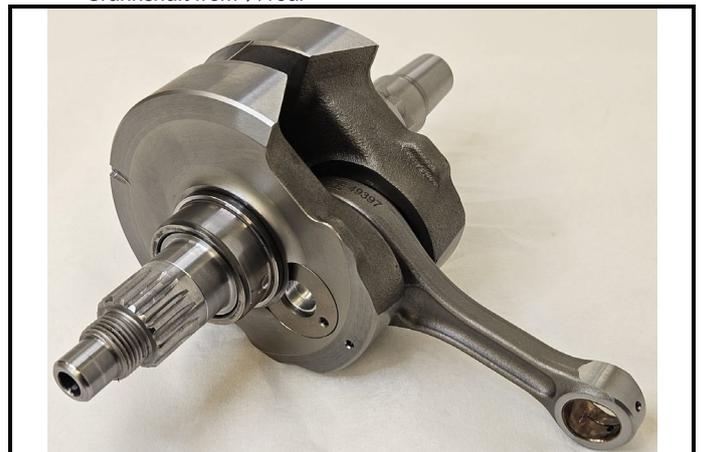
**319. VEIVAKSEL / CRANKSHAFT**

- |   |                             |                          |   |
|---|-----------------------------|--------------------------|---|
| a) Type veivaksel/produksjonstype<br>Type of manufacture          |                             | b) Material<br>Material  |   |
| c) Type veivaksel produksjon<br>Manufacturing process             | <b>Støpt</b><br><b>Cast</b> | <input type="checkbox"/> | <b>Smid</b><br><b>Forged</b>                            |
| f) Diameter på hovedakselstapp<br>Diameter of main journals       |                             | N/A +0<br>- 0.1 mm       | <input checked="" type="checkbox"/>                     |
| g) Lager bukk materiale<br>Bearing caps material                  |                             |                          | <b>Maskinert fra heldel</b><br><b>Machined from raw</b> |
| h) Minimumsvekt på veivaksel<br>Minimum weight of bare crankshaft |                             | 3120 g ± 3%              | <input type="checkbox"/>                                |
| i) Diameter på veivtapp<br>Diameter of crank pins                 |                             | N/A +0<br>- 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<br><i>Material</i>   | <b>Aluminium</b> |                 |   |
| c) Minimum høyde<br><i>Minimum height</i>   | <b>119.15</b>    | mm              |   |
| d) Målt fra hvor<br><i>Where measured</i>   |                  |                 |   |
| g) Minimum volum på forbrenningskammer<br><i>Minimum volume of a combustion chamber</i> | <b>19.0</b>      | cm <sup>3</sup> | (Ifra. Stempel og toppakning)<br><i>Incl. Piston and Cyl. Head Gasket</i> |

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



C8-2) Topplukk sett underfra (forbrenningskammer side)  
*Bare cylinderhead seen from underneath (chamber side)*



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



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



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



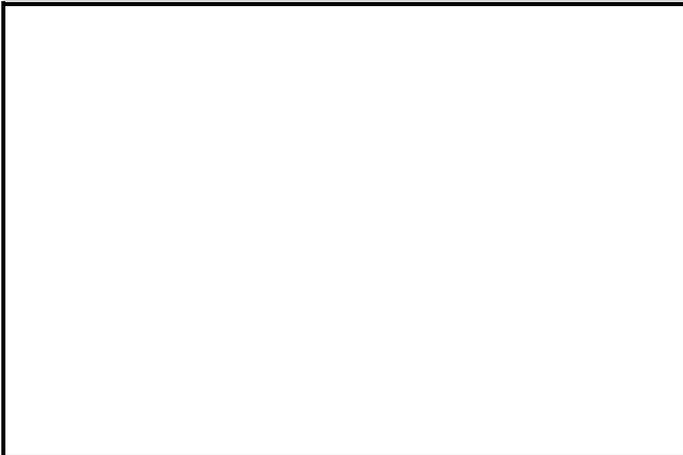
C8-6) Topplukk sett fra høyre  
*Bare cylinderhead seen from right hand side*



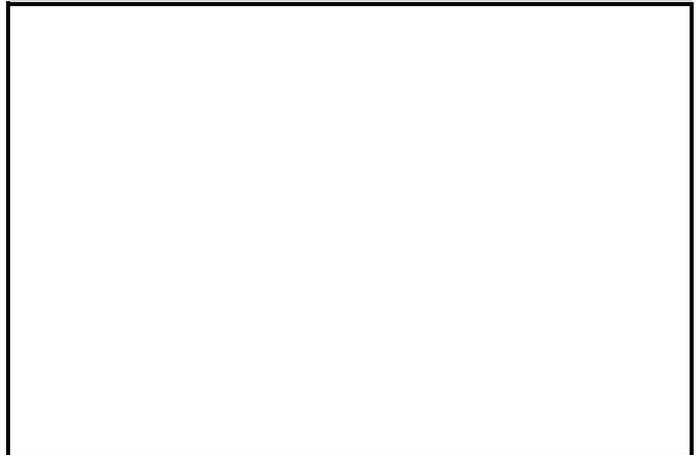
C8-7) Kompresjonskammer  
*Combustion chamber*



III-E1) Maksimum diameter på insugsventilens sete  
*Maximum intake seat diameter*



III-E2) Maksimum diameter på eksosventilens sete  
*Maximum exhaust seat diameter*



### **INNSUG / INTAKE**

**Tegninger av topplokets innsugsporter – toleranser på dimensjoner : -2/+4 %**  
***Drawings of cylinder head ports - tolerances on dimensions : -2/+4 %***

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

N/A

### **EKSOS / EXHAUST**

**Tegning av topplokets eksosporter – toleranse på dimensjoner : -2/+4 %**  
***Drawings of cylinder head ports - tolerances on dimensions : -2/+4 %***

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

N/A

**322. TOPPAKNING / CYLINDERHEAD GASKET**

- a) Tykkelse på en tiltrukket toppakning  
*Thickness of tightened cylinderhead gasket* **0.9** ± 0.1 mm
- b) Målested  
*Location of measurement* **På siden av motor uten demontering**

C8-14) Toppakning – demontert  
*Cylinderhead gasket – dismounted*



**324. DRIVSTOFFTILFØRSEL / FUEL FEED BY INJECTION – ELECTRONICS**

- a) Lavfart injektor referanse  
*Low Injectors référence* **KTM NR**
- b) Høy fart injektor referanse  
*High Injectors référence* **N/A**

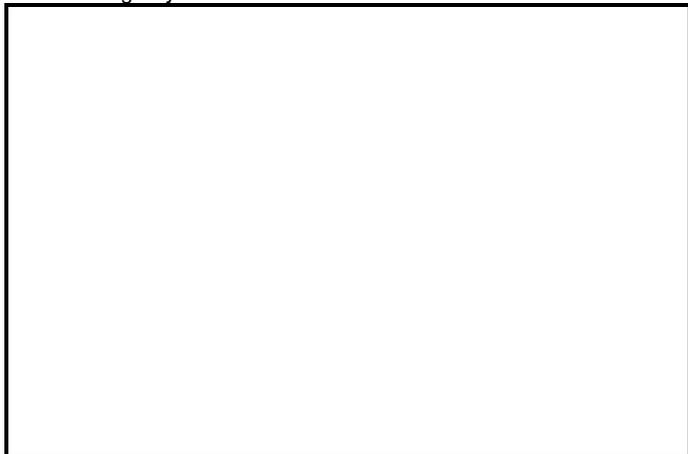
C9-1) Lavfart dyser  
*Low Injectors low*



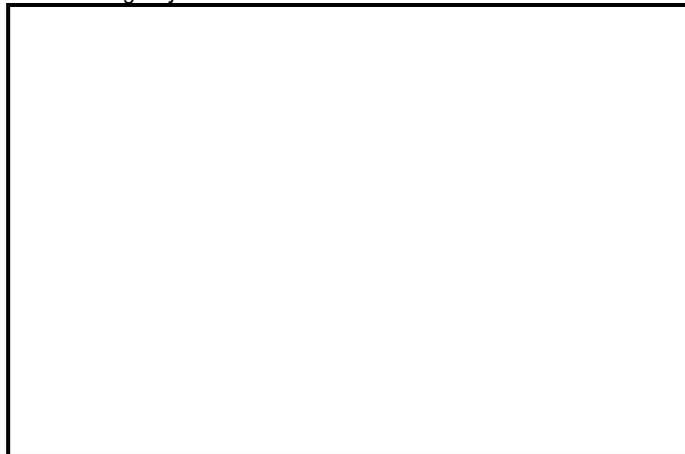
C9-2) Høyfart dyser  
*Low Injectors Nozzle*



C9-1) Insugsdyse  
High *Injectors*



C9-2) Insugsdyse  
High *Injectors Nozzle*



**324. MOTORSTYRING SYSTEM / ENGINE CONTROL SYSTEM**

- |   |                                 |                                     |                                     |
|---|---------------------------------|-------------------------------------|-------------------------------------|
| a) Merke og type<br><i>Make and type</i>  | <b>Keihin 44</b>                | <b>Direkte - Direct</b>             | <b>Indirekte - Indirect</b>         |
|   |                                 | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| c) Bensinsystem<br><i>Fuel measurement</i>  | <b>Mekanisk / Mechanical</b>    | <b>Elektronikk / Electronic</b>     | <b>Hydraulisk / Hydraulic</b>       |
|   | <input type="checkbox"/>        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| e) Antall drivstoffuttak i bruk<br><i>Number of effective fuel outlets</i>              |                                 | <b>1</b>                            |                                     |
| f) Dyser<br><i>Injectors</i>  | f1) Posisjon<br><i>Position</i> | <b>Manifoild / Manifold</b>         | <b>Topplukk / Cylinder head</b>     |
|   |                                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|   |                                 |                                     | <b>Kamber Chamber</b>               |
|   |                                 |                                     | <b>Forkamber Pre Chamber</b>        |
|   |                                 |                                     | <input type="checkbox"/>            |
|   |                                 |                                     | <input type="checkbox"/>            |
| g) Liste av sensorer for motorstyringen<br><i>List of engine control system sensors</i> |                                 |                                     |                                     |

N°	Number	Function	Merke og referanse- Make & Reference
C1		<b>GIRPOSISJON/ GEARBOX POSITION</b>	<b>Fee</b>
C2	<b>1</b>	<b>GASSPJELDPOSISJON/ THROTTLE POSITION</b>	<b>KTM 79041077044</b>
C3	<b>1</b>	<b>MAPFØLER/ BAROMETRIC PRESSURE</b>	<b>KTM 77741085044</b>
C4	<b>1</b>	<b>TURTALL/ENGINE SPEED</b>	<b>KTM 79230040000</b>
C5		<b>VANNTAMP/ WATER TEMP</b>	<b>KTM 79435047000</b>
C6		<b>LUFTTEMP/ AIR TEMP</b>	<b>KTM 61041080000</b>

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

N°	Number	Function	Merke og referanse- Make & Reference
A1		<b>ECU</b>	<b>KTM 79641031000</b>
A2		<b>COILS</b>	<b>KTM type IG 5128</b>
A3		<b>FUEL INJECTORS LOW</b>	<b>KTM 79041023044</b>
A4		<b>MAPPING SWITCH</b>	<b>KTM 79039074000</b>



**III-11) POSISJON PÅ SENSORER OG AKTUATORER / LOCATION OF SENSORS AND ACTUATORS**



**Sensors not located on Engine**

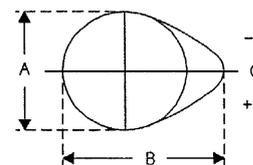
C6	Luft temp føler i luftfilterslange

**325. KAMAKSEL / CAMSHAFT**

- c) Drivsystem **Kjede**  
 Drive system **Chain**
- e) dimatere av akseltappen **20/22** ± 0.1 mm  
 Diameter of journals

- g) Kamdimensjon  
 Cam dimensions

	Admission Intake	Echappement Exhaust
<b>A =</b>	<b>28</b> ± 0.1 mm	<b>28.0</b> ± 0.1 mm
<b>B =</b>	<b>36.25</b> ± 0.1 mm	<b>35.55</b> ± 0.1 mm



Les tolérances s'appliquent avec le même signe pour A et B  
 The tolerances must be used with the same sign for A and B

- h) Minimumsvekt **0.226** kg  
 Minimum weight **0.219** kg

**326. DISTRIBUTION / TIMING**

- a) Teroretisk klaring **Innsug Intake 0.12** mm **Eksos Exhaust 0.15** mm  
 Theoretical clearance
- b) Kamaksel timing mot TDC **Innsug Intake 113.5** ± 2° **Eksos Exhaust 103.5** ± 2°
- c) Kamakseløft (demontert aksel) **Målt med 3mm ball diameter**  
 Cam lift in mm (dismounted camshaft) **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	8.31			0	7.59		
- 5	8.23	+ 5	8.25	- 5	7.50	+ 5	7.55
- 10	7.99	+ 10	8.07	- 10	7.24	+ 10	7.37
- 15	7.53	+ 15	7.79	- 15	6.75	+ 15	7.10
- 20	6.76	+ 20	7.39	- 20	5.93	+ 20	6.70
- 25	5.55	+ 25	6.89	- 25	4.70	+ 25	6.20
- 30	3.98	+ 30	6.32	- 30	3.22	+ 30	5.59
- 35	2.65	+ 35	5.61	- 35	2.10	+ 35	4.90
- 40	1.70	+ 40	4.80	- 40	1.35	+ 40	4.12
- 45	1.05	+ 45	3.91	- 45	0.83	+ 45	3.20
- 50	0.64	+ 50	2.99	- 50	0.50	+ 50	2.37
- 55	0.40	+ 55	2.11	- 55	0.34	+ 55	1.66
- 60	0.30	+ 60	1.41	- 60	0.26	+ 60	1.05
- 65	0.24	+ 65	0.91	- 65	0.20	+ 65	0.63
- 70	0.17	+ 70	0.56	- 70	0.15	+ 70	0.39
- 75	0.10	+ 75	0.36	- 75	0.08	+ 75	0.26
- 80	0.04	+ 80	0.27	- 80	0.03	+ 80	0.20
- 85	0.01	+ 85	0.20	- 85	0.02	+ 85	0.12
- 90	0.00	+ 90	0.13	- 90	0.00	+ 90	0.05

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
10.6	9.6

Målt med klaring iht produsenten

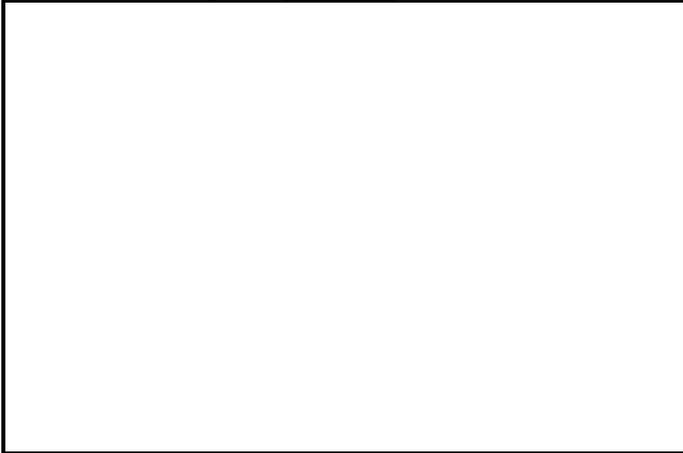
C10-1) Kamaksel- demontert  
*Camshaft - dismounted*



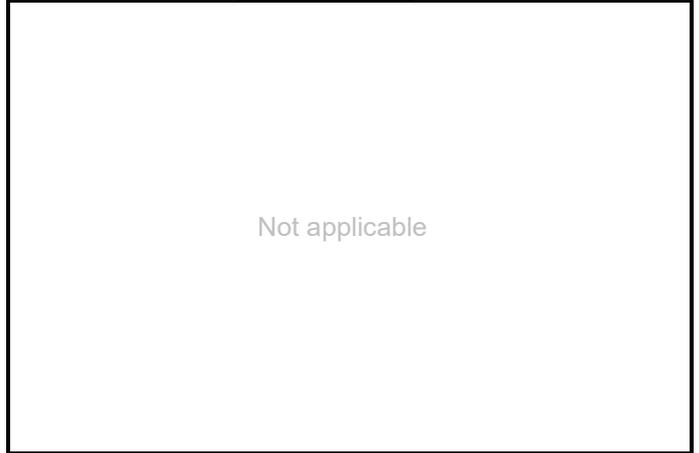
C10-2) Kamaksel- demontert  
*Camshaft - dismounted*



C10-5) Kammakselhjul - demontert  
*Camshafts gears - dismounted*



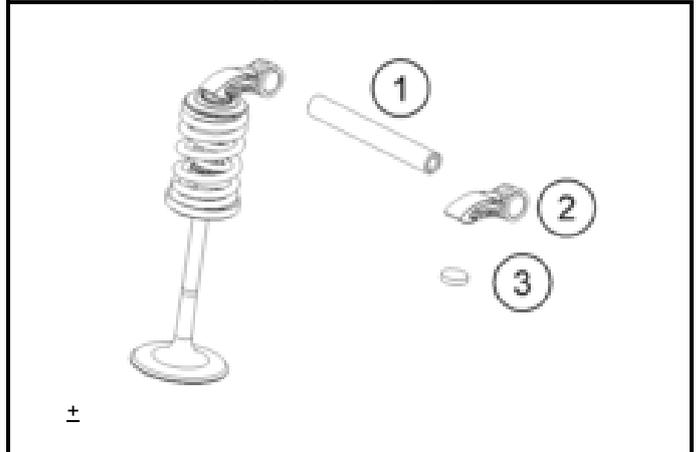
III-J2) Vippearms - dimensjoner  
*Rocker arm - typical dimensions*



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



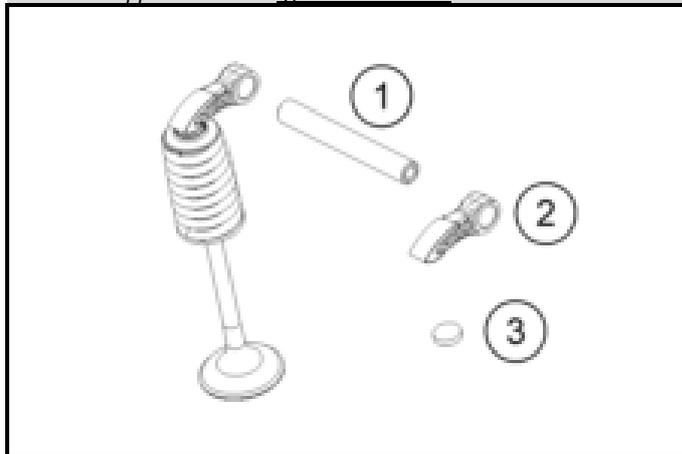
III-J3) Ventilløfter eller trykker innsug - dimensjoner  
*Tappet Intake - typical dimensions*



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



III-J4) Ventiløfter eller trykker eksos – dimensjon  
Tappet Exhaust – typical dimensions



C10-8) Ventilfjær innsug  
Intake valve spring



C10-9) Ventilfjær eksos  
Exhaust valve spring



- d) Ventilfjær innsug lengde ubelastet  
Intake valve spring free length **42.4/  
39.4** ± 1 mm
- e) Ventilfjær innsug lengde belastet 200 Nm  
Intake valve spring length under 200 Nm **27.50/  
32.15** ± 1 mm
- g) Ventilfjær innsug diameter.  
Intake valve spring wire diameter **2.85-  
2.25** ± 0.1 mm

- d) Ventilfjær eksos lengde ubelastet  
Exhaust valve spring free length **41.2** ± 1 mm
- f) Ventilfjær eksos lengde belastet 200 Nm  
Exhaust valve spring length under 200 Nm **34.0** ± 1 mm
- h) Ventilfjær eksos diameter.  
Exhaust valve spring wire diameter **3.35-  
2.65** ± 0.1 mm

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



Type / Type : **Lavstøys kjede**

Pitch / Pitch : **6.35** ±0.1 mm

Ant. Tenner / Nb of teeth : **55**

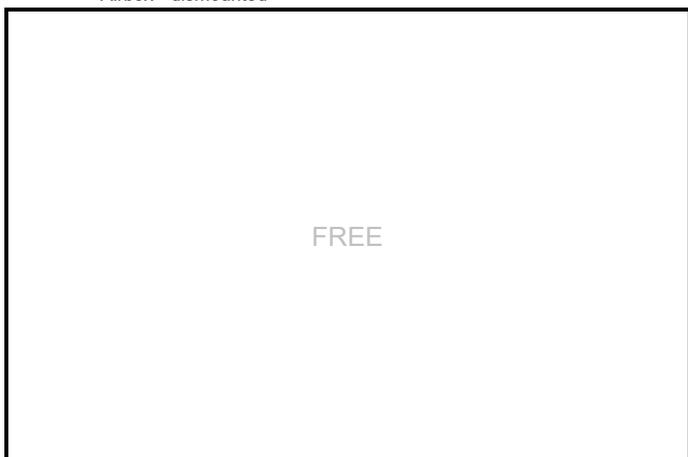
Lengde / Length : **697** ±2 mm (exterieur/outside)

Bredde / Width : **9.34** ±0.1 mm

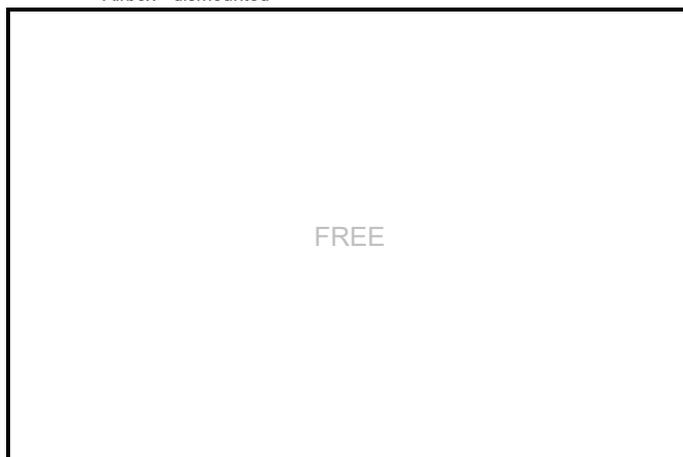
**327. INNSUG / INTAKE**

a) Materialet av traktene <i>Material of trumpets</i>	<b>N/A</b>				
b) Dimensjon av innsugsrøret ved gassspjeldet <i>Dimensions of the intake pipe at the throttle valve</i>		<b>42</b>		+0.1 / -0.2 mm	
c) Avstand mellom gassspjeld og topplokk <i>Distance between throttle valve and head</i>		<b>40</b>		± 2 mm	
d) Maximum diameter på ventiltoppen <i>Maximum diameter of the valve head</i>	<b>32.5</b>	± 0.1 mm	d1) Vinkel på ventiltoppen <i>Angle of valve head</i>	<b>45</b>	deg ± 30 min
e) Diameter på ventilstammen <i>Diameter of valve stem</i>	<b>5</b>	+0 -0.2 mm	f) Lengde på ventilen <i>Valve length</i>	<b>95.9</b>	± 1.5 mm
g) Materialet på ventilen <i>Valve material</i>	<b>Titan</b>		h) Min vekt ventil <i>Min valve weight</i>	<b>18.4</b>	g
i) Fjærplate materiale <i>Spring plate material</i>	<b>Alu</b>		j) Minimum vekt på fjærplate <i>Min spring plate weight</i>	<b>5.8</b>	g

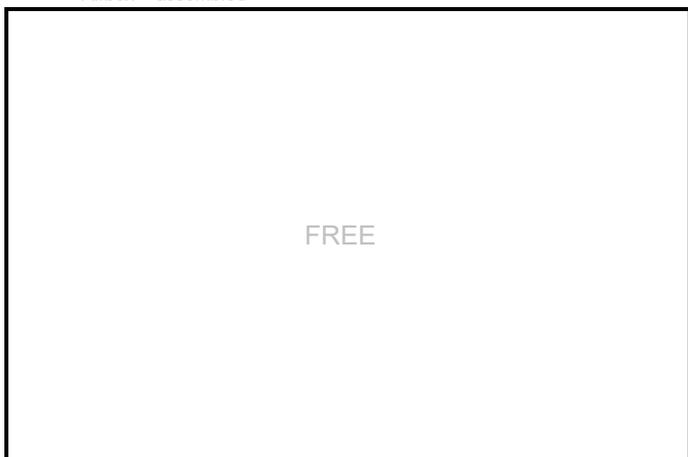
C11-1) Luftfilterboks- demontert  
Airbox - dismounted



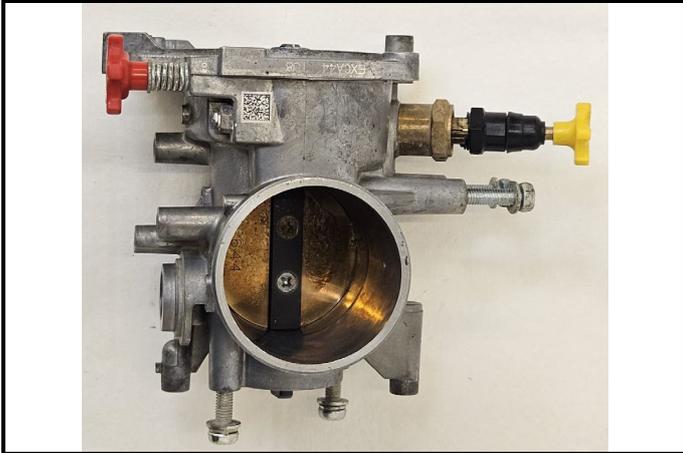
C11-2) Luftfilterboks- demontert  
Airbox - dismounted



C11-3) Luftfilterboks- montert  
Airbox – assembled



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



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



C11-5) Innsugs ventil  
*Intake valve - dismounted*



C11-6) Innsug ventilfjærplate  
*Intake spring plate - dismounted*



Tykkelse 1,5mm ± 0.1 mm

**328. ECHAPPEMENT / EXHAUST**

a) Materiale eksos <i>Material of exhaust</i>	<b>N/A</b>				
c) Minimum tykkelse på rør <i>Minimum thickness of tubes</i>	<b>N/A</b>	mm			
d) Maximum ventildiameter <i>Maximum diameter of the valve</i>	<b>26.5</b>	± 0.1 mm	d1) Ventil hode vinkel <i>Angle of valve head</i>	<b>45</b>	deg ± 30 min
e) Ventilstamme diameter <i>Diameter of valve stem</i>	<b>5</b>	+0 -0.2 mm	f) Ventil lengde <i>Valve length</i>	<b>98.3</b>	± 1.5 mm
g) Ventil materiale <i>Valve material</i>	<b>Titan</b>		h) Masse soupape mini <i>Min valve weight</i>	<b>17.5</b>	g
i) Ventil fjærplate materiale <i>Spring plate material</i>	<b>Alu</b>		j) Vintelfjærplate vekt <i>Min spring plate weight</i>	<b>4.85</b>	g

C12-1) Eksosventil  
*Exhaust valve - dismounted*



C12-2) Eksos ventilfjærplate  
*Exhaust spring plate - dismounted*



Tykkelse 1,5mm ± 0.1 mm

C12-3) Fjærplate oversikt



## **EKSOS / EXHAUST**

**Tegning av komplett eksosanlegg**  
***Drawing of the complete exhaust***

**III-L1) Eksos / Exhaust**

All dimensions in mm  
diameters

FREE

All diameters are internal

**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. SYSTEME DE REFROIDISSEMENT / COOLING SYSTEM**

c) Tupe vannpumpe  
*Origin of the water pump*

**Mekanisk**

C13-3) Vannpumpe -demontert  
*Water pump - dismantled*



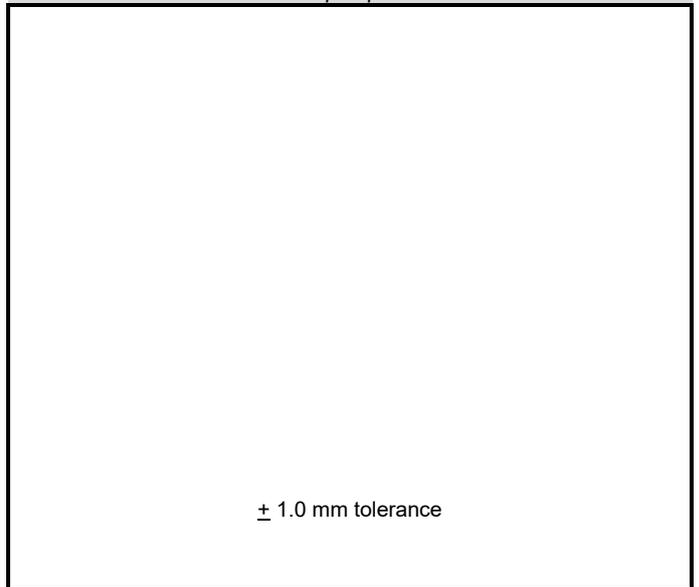
C13-4) Vannpumpe monterert på motor  
*Water pump mounted on engine*



C13-5) Turbin hjul vannpumpe  
*Turbine wheel of water pump*



III-M2) Roue de turbine de pompe à eau  
*Turbine wheel of water pump*

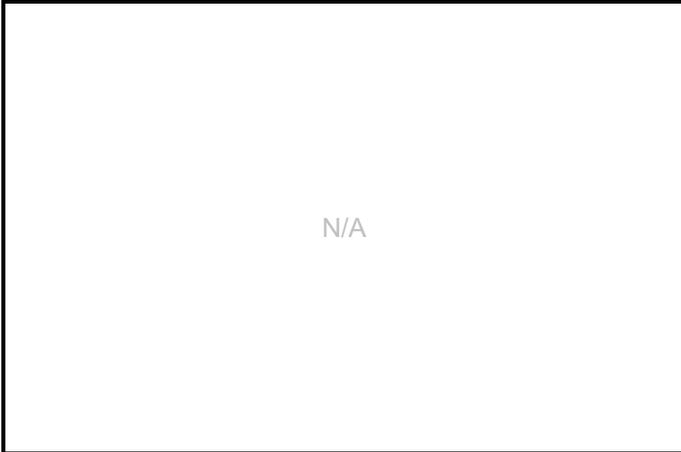


$\pm 1.0$  mm tolerance

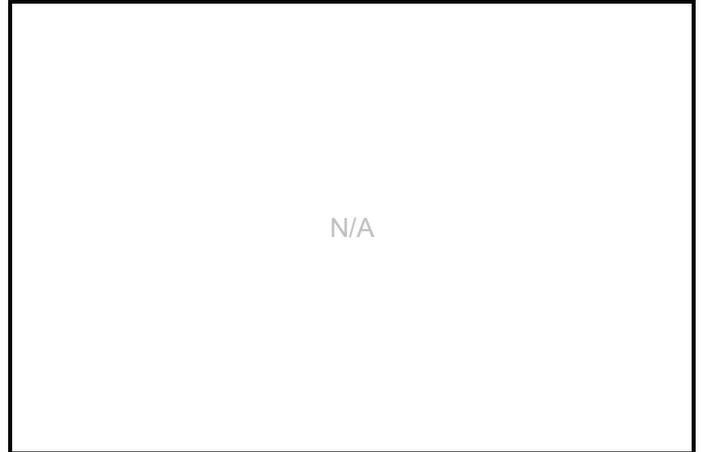
**333. SYSTEME DE LUBRIFICATION / LUBRICATION SYSTEM**

- a) Materiele for oljesump  
*Material of oil sump*

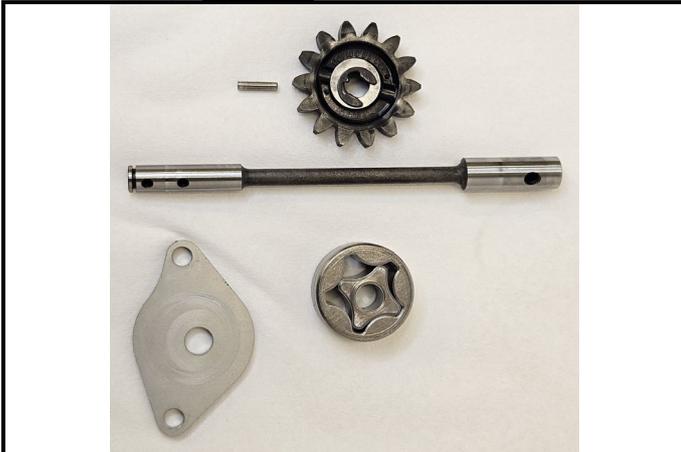
C14-1) Oljesump demontert  
*Oil sump - dismounted*



C14-2) Oljesump demontert  
*Oil sump - dismounted*



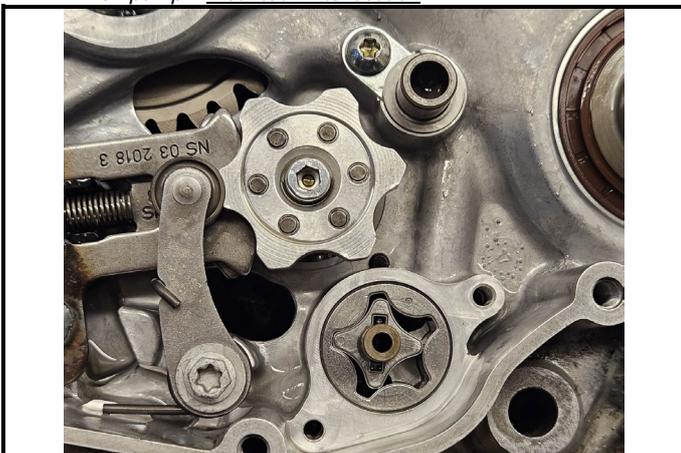
C14-3) Oljepumpe - demontert  
*Oil pump - dismounted*



C14-3) Oljepumpe - demontert  
*Oil pump - dismounted*



C14-4) Oljepumpe – monteret i sin riktige posisjon  
*Oil pump – mounted in its location*



**4. / FUEL**

**402. BENSIN PUMPE / FUEL PUMP**

a) Maximum trykk Maximum pressure	<b>4,0</b>	barA
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**5. EQUIPEMENT ELECTRIQUE / ELECTRICAL EQUIPMENT**

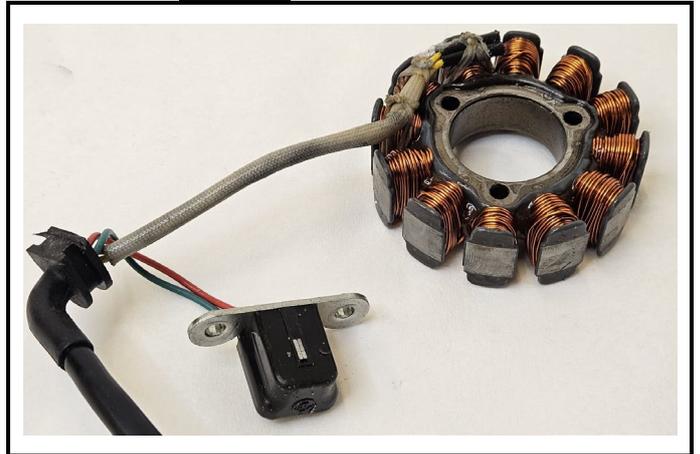
**502. ALTERNATEUR / GENERATEUR / DEMARREUR / ALTERNATOR / GENERATOR / STARTER**

a) Svinghjul ytre diameter <i>Rotor External diameter</i>	<b>88</b>	+/- 0.5 mm
b) Svinghjul indre diameter <i>Rotor Internal diameter</i>	<b>77.8</b>	+/- 0.5 mm
c) Antall statorpoler <i>Number of Stator pôles</i>	<b>12</b>	
d) Brekke statorpoler <i>Width of Stator pôles</i>	<b>14.3</b>	+/- 0.5 mm
e) Ytre diameter stator <i>Stator external diameter</i>	<b>76.3</b>	+/- 0.5 mm
f) Indre diameter stator <i>Stator internal diameter</i>	<b>32</b>	+/- 0.5 mm

C15-1) Svinghjul - demontert  
*Rotor - dismounted*



C15-2) Stator - demontert  
*Stator - dismounted*



**504. DÉMARREUR / STARTER**

a) Referanse starter <i>Starter reference:</i>	<b>KTM</b>	
b) Frihjul antall tenner <i>Free wheel : Teeth nb :</i>	<b>55</b>	
c) Frihjul bredde : <i>Free wheel width :</i>	<b>5.4</b>	+/- 0.5 mm

C16-1) Starter- demontert  
*Starter - dismounted*



C16-2) Frihjul - demontert  
*Free Wheel - dismounted*



## 6. TRANSMISSION / POWER TRAIN

### 602. CLUTCH / CLUTCH

a) Clutch vekt Assembly weight	<b>2199</b>		g	+/- 50 g	Avec écrou de fixation With fixing nut
b) Friksjonsplate disker Driving disks	b1) <i>Nombre</i> Number	<b>7</b>	17-8) <i>Tykkelse</i> Thickness	<b>1.9</b>	+/- 0.5mm
c) Trykkplate disker Driven disks	c1) <i>Nombre</i> Number	<b>7</b>	17-7) <i>Tykkelse</i> Thickness	<b>6x1.4/ 1x1</b>	+/- 0.5mm

C17-1) Embrayage complet - monté  
Complete Clutch - mounted



C17-2) Ressort  
Spring



C17-7) Came d'embrayage – vue de face  
Clutch cam – face view



C17-8) Came d'embrayage - vue de dos  
Clutch cam – rear view



**603. BOITE DE VITESSES / GEARBOX**

- a) Plassering  
Location: **Motorblokk**
- b) Tannhjul veivaksel  
Primary ratio on crankshaft **24**
- c) Tannhjul clutch  
Primary ratio on clutch **73**

- d) Rapports  
Gear ratios

	Primaire: Layshaft:	Secondaire: Pinionshaft:	d) Materiau: Material:	f) Epaisseurs (mm): Thicknesses (mm): ± 0.5mm	g) Masse (g): Weight (g): ± 15 g
<b>1</b>	<b>13</b>	<b>32</b>	<b>Stål / Steel</b>	<b>11.3/ 11.0</b>	<b>432/ 192</b>
<b>2</b>	<b>16</b>	<b>32</b>	<b>Stål / Steel</b>	<b>13/ 11</b>	<b>88/ 209</b>
<b>3</b>	<b>17</b>	<b>28</b>	<b>Stål / Steel</b>	<b>12.7/ 12.6</b>	<b>12.5/ 183</b>
<b>4</b>	<b>19</b>	<b>25</b>	<b>Stål / Steel</b>	<b>12.8/ 9.9</b>	<b>140/ 232</b>
<b>5</b>	<b>21</b>	<b>26</b>	<b>Stål / Steel</b>	<b>12.35/ 11.9</b>	<b>121/ 263</b>
<b>6</b>					

F12-1) Tannhjul Veivaksel  
Gear Crankshaft



F12-2) Tannhjul clutch  
Gear Clutch



F12-3) Tannjul #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) Tannhjul #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. GIRAKSEL / LAYSHAFT ASSEMBLY**

a) Lager referanse <i>Reference of bearing</i>	<b>KTM</b>	
b) Vekt lager <i>Weight of bearing</i>	<b>N/A</b>	$\pm 10$ g
c) Bredde, ytre og indre diameter av lager <i>Width / External and internal diameters of bearing</i>	<b>N/A</b>	$\pm 0.1$ mm
d) Vekt på giraksel <i>Weight of layshaft</i>	<b>432</b>	$\pm 10$ g
e) Materiale på giraksel <i>Material of layshaft</i>	<b>Stål</b> <b>Steel</b>	

F7-1) Lager  
*Bearing*



F7-2) Giraksel  
*Layshaft*



**605. GIRAKSEL OG LAGRING HOVEDAKSEL / PINIONSHAFT / MAINSHAFT ASSEMBLY**

a) Materiale giraksel/ hovedaksel <i>Material of pinionshaft/mainshaft</i>	<b>Stål / Steel</b>	
b) Vekt giraksel/ hovedaksel <i>Weight of pinionshaft/mainshaft</i>	<b>393</b>	$\pm 10$ g
c) Hovedlager referanse <i>Reference of left mainshaft bearing</i>	<b>KTM</b>	
d) Bredde/ ytre og indre diameter lager <i>Width / External and internal diameters of mainshaft bearing</i>	<b>N/A</b>	$\pm 0.1$ mm
e) Vekt på venstre hovedaksel <i>Weight of left mainshaft bearing</i>	<b>N/A</b>	$\pm 10$ g
f) Referanse høyre hovedlager <i>Reference of right mainshaft bearing</i>	<b>KTM</b>	
g) Bredde/ ytre og indre diameter hovedaksel lager <i>Width / External and internal diameters of right mainshaft bearing</i>	<b>N/A</b>	$\pm 0.1$ mm
h) Vekt på høyre hovedaksel lager (med holder og klips) <i>Weight of right mainshaft bearing (With support and clips)</i>	<b>N/A</b>	$\pm 10$ g
i) Bredde/ ytre og indre diameter nålelager <i>Width / External and internal diameters of ratio needle bearings</i>		$\pm 0.1$ mm
j) Vekt nålelager <i>Weight of ratio needle bearings</i>	<b>N/A</b>	$\pm 5$ g
k) Materiale på holder <i>Material of the hub</i>		
l) Antall dog klør på hvert tannhjul <i>Number of dog on each gear</i>	<b>1 : 5 / 2 : 5 / 3 : 5 / 4 : 5 / 5 : 5</b>	
m) Materiale på ingrepsring <i>Material of clutch rings</i>	<b>Stål integrert i tannhjul</b>	
n) Vekt på ingrepsring <i>Weight of clutch rings</i>	<b>Integrert i tannhjul</b>	

F8-1) Giraksel / hovedaksel  
*Pinionshaft / Mainshaft*



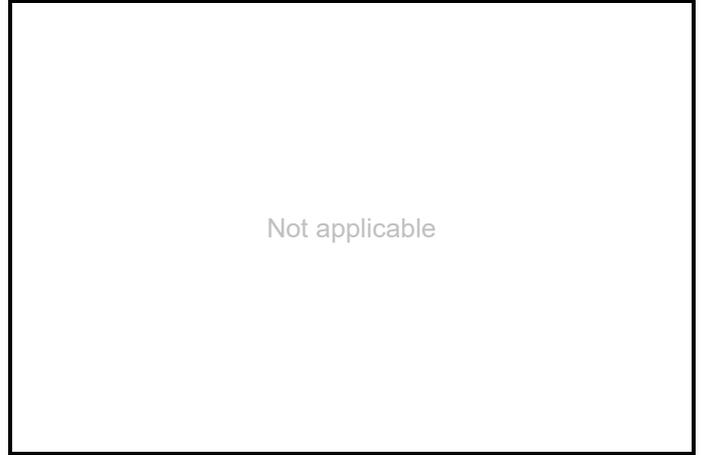
F8-2) Venstre hovedlager  
*Left mainshaft bearing*



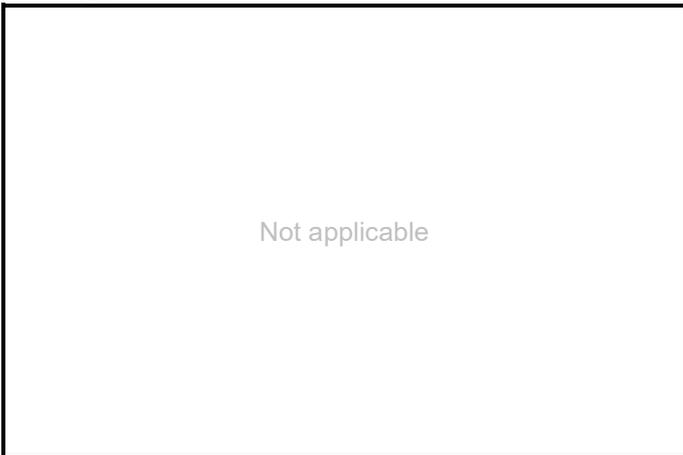
F8-3) Høyre hovedlager  
*Right mainshaft bearing*



F8-4) Nålelager  
*Ratio needle bearings*



F8-5) Holder  
*Hub*



**606. GIR SKIFTER MEKANISME / GEAR SELECTION MECHANISM**

a) Materiale på skiftegafler og aksel  
Material of selector forks incl. axle

**Stål, med kompositt belegg**

	#1-4	#2-4	#3	
b) Vekt skiftegafler Weight of forks	<b>61</b>	<b>61</b>	<b>61</b>	± 5 g
c) Vekt aksel for skiftegafler Weight of shaft gear shift fork	<b>46</b>		<b>31</b>	± 5 g

d) Diameter aksel skiftegafler  
Forks axle diameter

**11.75** ± 0.1 mm

e1) Tykkelse skiftegafler  
Forks finger thickness

**4.9** ± 0.1 mm

e2) Gaffel aksel diameter  
Forks locating pin diameter

**5.96** ± 0.1 mm

f1) Materiale på skifterulle  
Material of selector barrel assembly

**Alu**

f2) Vekt skifterulle  
Weight of selector barrel assembly

**140** ± 5 g

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



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



F9-3) Skiftegafler #3  
Selector forks #3



F9-4) Skiftegaffel aksel #1-4 / # 2-5  
Fork's axle #1-4 / # 2-5



F9-5) Skiftegaffel aksel #3-4  
Fork's axle #3-4



F9-10) Skifterulle  
Selector barrel assembly



F9-11) Skifterulle  
Selector barrel assembly

