**SPESIFIKASI**



*Peraturan Dasar Olahraga Sepeda Motor* **118** *Peraturan Tentang Teknik Balap Sepeda Motor*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Machine ( Year production)** | **MP1 (150)** | **MP2 (130)** | **MP3 (UB 130)** | **MP4 (110)** | **MP5 (130)** | **MP6 (110)** |
| **1.1 Cylinder Head** | Standart \* | Standart \* | Standart \* | Standart \* | Standart \*\* | Standart \*\* |
| **1.1 a. Valve** |  |  |  |  |  |  |
| a.1 Size | 4 Valve 26mm / 2 Valve 35mm | 31mm | 29mm | 26mm | std | std |
| a.2 Material | **free** | **free** | **free** | **std** | std | std |
| a.3 Quantity | std | std | std | **std** | std | std |
| a.4 Valve seat | free | free | free | free | free | free |
| a.5 Valve Spring | free | free | free | free | free | free |
| a.6 Valve Spring Retainer | free | free | free | free | free | free |
| a.7 Valve Shim | free | free | free | free | free | free |
|  | | | | | | |
| **1.1.b Camshaft** | free | free | free | free | free | free |
| b.1.Type | std | std | std | std | std | std |
| b.2. Material | free | free | free | free | free | free |
| b.3. cam lobe profile | free | free | free | free | free | free |
| b.3. cam sprocket | Standart # | Standart # | Standart # | Standart # | Standart # | Standart # |
| b.3. cam chain | free | free | free | free | free | free |
| b.3. cam chain tensioner | free | free | free | free | free | free |
|  | | | | | | |
| **1.1.c Rocker Arm** | free | free | **free** | **free** | std | std |
| c.1 Material | std | std | std | std | std | std |
| c.2 Type | free | free | **free** | **free** | std | std |
| c.3 Valve Shim | free | free | free | free | free | free |
| c.4 Retainer | free | free | free | free | free | free |
| c.5 Cam Chain | free | free | free | free | free | free |
|  | | | | | | |
| **1.1. d Cylinder Head cover** | Standart | Free | Free | Free | Standart | Standart |
|  |  |  |  |  |  |  |

*eraturan Dasar Olahraga Sepeda Motor* **119** *Peraturan Tentang Teknik Balap Sepeda Motor*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Machine ( Year production)** | **MP1** | **MP2** | **MP3** | **MP4** | **MP5** | **MP6** |
| **1.2 Cylinder Block** | std | std | std | std | std | std |
| 1.2.1. Material | std | std | std | std | std | std |
| 1.2.2 Liner | free + | free | free | free | std | free |
| 1.2.3 Gasket | free | free | free | free | free | free |
|  | | | | | | |
| **1.3 Piston** | free | free | free | free | std | free |
| 1.3.1. Material | free | free | **free** | **free** | **std** | **free** |
| 1.3.2. Ring type | std | std | std | std | std | std |
| 1.3.2. Ring quantity | std | free | free | free | std | free |
| 1.3.2. Ring thickness | free | free | free | free | std | free |
| 1.3.2. Ring groove quantity | std | std | std | std | Std | std |
|  | | | | | | |
| **1.4. Crankshaft** | Standart \*\*\* | Standart \*\*\* | Standart \*\*\* | Standart \*\*\* | Standart \*\*\* | Standart \*\*\* |
| 1.4.1 Material | std | std | std | std | std | std |
| 1.4.2. Size | std | std | std | std | std | std |
| 1.4.3. Conecting rod | std | std | std | std | std | std |
| 1.4.4. Length Conecting rod | std | std | std | std | std | std |
| 1.4.5. Pin | std | std | std | std | std | std |
|  | | | | | | |
| **1.5. Cranckcase** |  |  |  |  |  |  |
| 1.5.1. Material | std | std | std | std | std | std |
| 1.5.2. Oil pump | std | free | free | free | Std | free |
|  | | | | | | |
| **1.6. Magnet** |  |  |  |  |  |  |
| 1.6.1 Type | free | free | Standart## | Standart## | Standart### | Standart### |
| 1.6.2. Cover | free | free | standart | Standart | standart | standart |

*Peraturan Dasar Olahraga Sepeda Motor* **120** *Peraturan Tentang Teknik Balap Sepeda Motor*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Machine ( Year production)** | **MP1** | **MP2** | **MP3** | **MP4** | **MP5** | **MP6** |
| **1.7. Transmision** |  |  |  |  |  |  |
| 1.7.1 Primary Gear | std | free | Std | std | std | std |
| 1.7.2 Gear Box | free | free | Free | free | free | free |
| 1.7.3. Quantity | std | std | Std | std | std | std |
| 1.7.4. Final Gear | free | free | Free | free | free | free |
|  | | | | | | |
| **1.8. Clutch** | std | free | Free | free | std | free |
| 1.8..1 Type | wet | wet | Wet | wet | wet | wet |
| 1.8.2. Material | free | free | Free | free | free | free |
| 1.8.3. Cover | std | free | Free | free | Std | free |
|  | | | | | | |
| **1.9 Carburator- Injection** |  |  |  |  |  |  |
| 1.9.1. Carburator | No | No | 24mm | 24mm | No | standart \*\*\*\* |
| 1.9.2. Intake manifold | free | Free | free | free | standart \*\*\*\*\* | standart \*\*\*\*\* |
| 1.9.3. Intake manifold position | free | Free | free | free | std | std |
| 1.9.4. Throtle Body | Butterfly 33mm / Barrel 30mm | Butterfly 30mm / Barrel 28mm | Butterfly 26mm / Barrel 24mm | Butterfly 26mm / Barrel 24mm | Std max 32mm | standart \*\*\*\*\* |
| **Note: Carburation system can be converted to injection system, Injection system cannot be converted to carburation system** | | | | | | |
| **1.10 Ignition** |  |  |  |  |  |  |
| 1.10.1. Wiring-Harnes | free | Free | free | free | Std | free |
| 1.10.2. Coil | free | Free | free | free | Free | free |
| 1.10.3 Spark plug | free | Free | free | free | Free | free |
| 1.10.4 Quick Shifter | no | No | no | no | No | no |
|  | | | | | | |
| **1.11 ECU** | free | free | free | free | free | free |
|  | | | | | | |
| **1.12 Exhaust** | free | free | free | free | free | free |

*Peraturan Dasar Olahraga Sepeda Motor* **121** *Peraturan Tentang Teknik Balap Sepeda Motor*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Machine ( Year production)** | **MP1** | **MP2** | **MP3** | **MP4** | **MP5** | **MP6** |
| **1.13 Oil Cooler** | std | free | free | free | **std** | **free** |
|  | | | | | | |
| **1.14. Radiator** | free | std | std | std | std | std |
|  | | | | | | |
| **1.15 Dinamo stater** | free | free | free | free | Std | free |
|  | | | | | | |
| **1.16. Battery** | free | free | free | free | free | free |
|  | | | | | | |
| **2. B O D Y - CHASSIS** |  |  |  |  |  |  |
| **2.1. Frame** | Std Modif | Std Modif | Std Modif | Std Modif | Std Modif | Std Modif |
| 2.1.1 Frame Material | Standart#### | Standart#### | Standart#### | Standart#### | std | std |
| 2.1.2 Sub Frame | free | free | free | free | free | free |
| 2.1.3 Sub Frame Material | free | free | free | free | free | free |
| 2.1.4 VIN / Frame Number | required | required | required | required | required | required |
|  | | | | | | |
| **2.2. Front suspension** | stock production | stock production | stock production | stock production | stock production | stock production |
| 2.2.1 Fork | std | std | std | std | std | std |
| 2.2.2 spring Fork | free | free | free | free | free | free |
| 2.2.3. Oil Fork | free | free | free | free | free | free |
| 2.2.4. valve | free | free | free | free | free | free |
|  | | | | | | |
| **2.3. rear suspension** |  |  |  |  |  |  |
| 2.3.1 Swing Arm | stock production | stock production | stock production | stock production | stock production | stock production |
| 2.3.2. Shock absorber | free | free | free | free | free | free |
| 2.3.3. type | std | std | std | std | std | std |
| 2.3.4. Chain Guard | must | must | must | must | must | must |

*Peraturan Dasar Olahraga Sepeda Motor* **122** *Peraturan Tentang Teknik Balap Sepeda Motor*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Machine ( Year production)** | **MP1** | **MP2** | **MP3** | **MP4** | **MP5** | **MP6** |
| **2.4. Under Bracket** | std |  |  |  | Std |  |
| 2.4.1 Upper | free | free | Free | free | Free | free |
| 2.4.2. Bottom | stock produktion | stock produktion | stock produktion | stock produktion | stock produktion | stock produktion |
| 2.4.3. Material | std | std | Std | std | Std | std |
|  | | | | | | |
| **2.5. handle Bar** |  |  |  |  |  |  |
| 2.5.1. Hand Guard | must | must | must | must | must | must |
|  | | | | | | |
| **2.6. Brakes** |  |  |  |  |  |  |
| 2.6.1. Brake lines | steel | steel | steel | steel | steel | steel |
| 2.6.2. Caliper | free | free | Free | free | free | free |
| 2.6.3. Master | free | free | Free | free | free | free |
| 2.6.4 Disc Brakes | free | free | Free | free | free | free |
| 2.6.5 Brake pads | free | free | Free | free | free | free |
|  | | | | | | |
| **2.7. Fuel tank** |  |  |  |  |  |  |
| 2.7.1. Position | std | free | Free | free | std | free |
| 2.7.2. Capacity | std | std | Std | std | std | std |
| 2.7.3 Fuel pump | std | free | Free | free | Std | free |
|  | | | | | | |
| **2.8. Wheels** |  |  |  |  |  |  |
| 2.8.1 Material | alumunium/besi | alumunium/besi | alumunium/besi | alumunium/besi | alumunium/besi | alumunium/besi |
| 2.8.2 Width | free | max 2.15 inch I | max 2.15 | max 1.85 | free | max 160 inch I |
| 2.8.3 Diameter | std | std | Std | std | std | std |

*Peraturan Dasar Olahraga Sepeda Motor* **123** *Peraturan Tentang Teknik Balap Sepeda Motor*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Machine ( Year production)** | **MP1** | **MP2** | **MP3** | **MP4** | **MP5** | **MP6** |
| **2.9. Fairing** |  |  |  |  |  |  |
| 2.9.1. seat | free | free | free | free | free | free |
| 2.9.2. steering damper | free | free | free | free | free | free |
|  | | | | | | |
| **2.10 Weight** |  |  |  |  |  |  |
| 2.10.1 Injection Motorcycles | 150kg | 145kg | 140kg | 140kg | 140kg | 130 kg |
| 2.10.2 Carburator Motorcycles |  |  | 142kg | 142kg |  | 132 kg |
| Note :  + besi ke besi |  |  |  |  |  |  |
| \* Porting polish,welding,altered valve angle | | | | |  |  |
| \*\* Porting polish,welding,altered down valve seat,dudukan lubang baut leher angsa tidak boleh dirubah dan dibubut | | | | | | |
| # Lubang baut timing gear boleh dirubah | | | | |  |  |
| \*\*\* Crankshaft boleh diperkeras ( pen nya boleh di las ) | | | | | |  |
| \*\*\*\* Carbulator standart bentuk luar akan tetapi tidak boleh dipotong, tidak boleh ada lem bagian luar, | | | | | | |
| Cuk boleh dicabut dan bisa diganti dengan varian motor yang sejenis dan cc yang sama,bagian dalam bebas | | | | | | |
| \*\*\*\*\* Leher angsa standart tidak boleh dipotong bagian dalam bebas | | | | | | |
| ## Standart boleh dibubut akan tetapi magnet berfungsi dan clutch starter boleh dibubut/ dibuang | | | | | | |
| ### Standart magnet hanya boleh dirubah bargain pulsed/ pick oil Dan Tanya boleh dibubut dibagian clutch starter | | | | | | |
| #### Rangka boleh dipotong dan dudukan atas shockbeker belakang boleh dirubah | | | | | | |
| No rangka dan No mesin harus ada | | | | |  |  |
| Pengukuran cc dibawah 0,49 dianggap 0 cc dan 0,50 dianggap 1 cc | | | | | | |
| Apa yang tidak tercantum tidak boleh dirubah | | | | | |  |

Tahun 2017 MP 3,4,6 harus menerapkan system injeksi

*Peraturan Dasar Olahraga Sepeda Motor* **124** *Peraturan Tentang Teknik Balap Sepeda Motor*

**SPESIFIKASI**

**MATIC**



*Peraturan Dasar Olahraga Sepeda Motor* **125** *Peraturan Tentang Teknik Balap Sepeda Motor*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **MATIC** | **MATIC 130cc Standart** | **MATIC 130cc Tune up** | **MATIC 150cc Standart** | **MATIC 150cc Tune up** | **MATIC 250cc Tune up** |
| **1.1 CYLINDER HEAD** | Standart \* | Standart \* | Standart \* | Standart \* | Standart \* |
| **1.1 a. Valve** |  |  |  |  |  |
| a.1 Size | Standart | Standart | MAX 28 | MAX 28 | MAX 34 |
| a.2 Material | Standart | **FREE** | Standart | **FREE** | FREE |
| a.3 Quantity | Standart | Standart | Standart | Standart | Standart |
| a.4 Valve seat | FREE | FREE | FREE | FREE | FREE |
| a.5 Valve Spring | FREE | FREE | FREE | FREE | FREE |
| **a.6 Lubang Intake** | **Standart** | **FREE** | **FREE** | **FREE** | **FREE** |
|  |  |  |  |  |  |
| **1.1.b CAMSHAFT** | FREE | FREE | FREE | FREE | FREE |
| b.1 Type | Standart | Standart | Standart | Standart | Standart |
| b.2 Material | FREE | FREE | FREE | FREE | FREE |
| b.3 Cam sprocket | Standart \*\* | Standart \*\* | Standart \*\* | Standart \*\* | **FREE** |
| b.4 Tensioner | Standart | **FREE** | Standart | **FREE** | **FREE** |
|  |  |  |  |  |  |
| **1.1.c ROCKER ARM** | Standart | Standart | Standart | Standart | FREE |
| c.1 Material | Standart | Standart | Standart | Standart | Standart |
| c.2 Type | Standart | Standart | Standart | Standart | Standart |
| c.3 Valve Shim | FREE | FREE | FREE | FREE | FREE |
| c.4 Retainer | Standart | Standart | Standart | Standart | FREE |
| c.5 Cam Chain | FREE | FREE | FREE | FREE | FREE |
|  |  |  |  |  |  |
| **1.1.d CYLINDER HEAD COVER** | Standart | Standart | Standart | Standart | FREE |

*Peraturan Dasar Olahraga Sepeda Motor* **126** *Peraturan Tentang Teknik Balap Sepeda Motor*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **MATIC** | **MATIC 130cc Standart** | **MATIC 130cc Tune up** | **MATIC 150cc Standart** | **MATIC 150cc Tune up** | **MATIC 250cc Tune up** |
| **1.2 CYLINDER BLOCK** | Standart | Standart | FREE | FREE | FREE |
| 1.2.1 Material | Standart | Standart | Standart | Standart | FREE |
| 1.2.2 Liner | FREE | FREE | FREE | FREE | FREE |
| 1.2.3 Gasket | FREE | FREE | FREE | FREE | FREE |
|  |  |  |  |  |  |
| **1.3 PISTON** | FREE | FREE | FREE | FREE | FREE |
| 1.3.1 Material | **FREE** | **FREE** | **FREE** | **FREE** | **FREE** |
| 1.3.2 Ring type | Standart | Standart | Standart | Standart | Standart |
| 1.3.3 Stroke | Standart | Standart | Standart | Standart | FREE |
|  |  |  |  |  |  |
| **1.4 CRANKSHAFT** | Standart ##### | Standart ##### | Standart ##### | Standart ##### | FREE |
| 1.4.1 Material | Standart | Standart | Standart | Standart | FREE |
| 1.4.2 Size | Standart | Standart | Standart | Standart | FREE |
| 1.4.3 Conecting rod | Standart | Standart | Standart | Standart | FREE |
| 1.4.4 Length Conecting rod | Standart | Standart | Standart | Standart | FREE |
| 1.4.5 Pin | Standart | **FREE** | Standart | **FREE** | FREE |
|  |  |  |  |  |  |
| **1.5 CRANCKCASE** | Standart | Standart | Standart boleh dibesarkan | Standart boleh dibesarkan | FREE |
| 1.5.1 Material | Standart | Standart | Standart | Standart | FREE |
| 1.5.2 Oil pump | FREE | FREE | FREE | FREE | FREE |
|  |  |  |  |  |  |
| **1.6 Magnet** | Standart #### | Standart \*\*\* | Standart #### | Standart \*\*\* | FREE |
| 1.6.1 Type | Standart | **FREE** | Standart | **FREE** | FREE |
| 1.6.2 Cover | Standart | Standart | Standart | Standart | FREE |

*Peraturan Dasar Olahraga Sepeda Motor* **127** *Peraturan Tentang Teknik Balap Sepeda Motor*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **MATIC** | **MATIC 130cc Standart** | **MATIC 130cc Tune up** | **MATIC 150cc Standart** | **MATIC 150cc Tune up** | **MATIC 250cc Tune up** |
| 1.6.3 Kipas | Standart | **FREE** | Standart | **FREE** | **FREE** |
|  |  |  |  |  |  |
| **1.7 Transmision** | Standart | Standart | Standart | Standart | Standart |
| 1.7.1 Gear Box | FREE | FREE | FREE | FREE | FREE |
| 1.7.2 Quantity | Standart | Standart | Standart | Standart | Standart |
|  |  |  |  |  |  |
| **1.8 Clutch** | Standart | FREE | Standart | FREE | FREE |
| 1.8.1 Type | Standart | Standart | Standart | Standart | FREE |
| 1.8.2 Material | Standart | FREE | Standart | FREE | FREE |
| 1.8.3 Cover | Standart | Standart | Standart | Standart | FREE |
| 1.8.4 Per clutch | FREE | FREE | FREE | FREE | FREE |
| 1.8.5 Bal CVT | Standart | Standart ### | Standart ### | Standart ### | Standart ### |
|  |  |  |  |  |  |
| **1.9 Carburator- Injection** | Standart \*\*\*\* | FREE | Standart \*\*\*\* | FREE | FREE |
| 1.9.1 Size |  | MAX 28 UNTUK CARBU & INJECTION |  | MAX30 UNTUK CARBU & INJECTION | MAX 34 UNTUK CARBU & INJECTION |
| 1.9.2 Intake manifold | Standart ### | FREE | Standart ### | FREE | FREE |
| 1.9.3 Throtle Body | Standart | FREE | STD | FREE | FREE |
|  |  |  |  |  |  |
| **1.10 Ignition** | FREE | FREE | FREE | FREE | FREE |
| 1.10.1 Wiring-Harnes | FREE | FREE | FREE | FREE | FREE |
| 1.10.2 Coil | FREE | FREE | FREE | FREE | FREE |
| 1.10.3 Quick Shifter | NO | NO | NO | NO | NO |
|  |  |  |  |  |  |
| **1.11 ECU** | FREE | FREE | FREE | FREE | FREE |
|  |  |  |  |  |  |
| **1.12 Exhaust** | Standart # | FREE | Standart ## | FREE | FREE |

*Peraturan Dasar Olahraga Sepeda Motor* **128** *Peraturan Tentang Teknik Balap Sepeda Motor*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **MATIC** | **MATIC 130cc Standart** | **MATIC 130cc Tune up** | **MATIC 150cc Standart** | **MATIC 150cc Tune up** | **MATIC 250cc Tune up** |
| **1.13 Oil Cooler** | Standart | FREE | Standart | FREE | FREE |
|  |  |  |  |  |  |
| **1.14 Radiator** | Standart | **FREE** | Standart | **FREE** | **FREE** |
| 1.14.1 Air Radiator | AIR MINERAL | AIR MINERAL | AIR MINERAL | AIR MINERAL | AIR MINERAL |
|  |  |  |  |  |  |
| **1.15 Dinamo stater** | `HARUS BERFUNGSI | `HARUS BERFUNGSI | `HARUS BERFUNGSI | `HARUS BERFUNGSI | FREE |
|  |  |  |  |  |  |
| **1.16 Battery** | FREE | FREE | FREE | FREE | FREE |
| **1.17 Vantbelt** | FREE | FREE | FREE | FREE | FREE |
| **1.18 Roller CVT** | FREE | FREE | FREE | FREE | FREE |
| **1.19 Rumah CVT** | Standart dan boleh dibubut | FREE | Standart dan boleh dibubut | FREE | FREE |
|  |  |  |  |  |  |
| **2. B O D Y - CHASSIS** |  |  |  |  |  |
|  |  |  |  |  |  |
| **2.1 Frame** | Standart | Standart dan boleh diperkuat | Standart | Standart dan boleh diperkuat | Standart dan boleh diperkuat |
| 2.1.1 Material | Standart | Standart | Standart | Standart | Standart |
|  |  |  |  |  |  |
| **2.2 Front suspension** | STOCK PRODUCTION | STOCK PRODUCTION | STOCK PRODUCTION | STOCK PRODUCTION | FREE |
| 2.2.1 Fork | Standart | Standart | Standart | Standart | Standart |
| 2.2.2 Spring Fork | FREE | FREE | FREE | FREE | FREE |
| 2.2.3 Oil Fork | FREE | FREE | FREE | FREE | FREE |
| 2.2.4 Valve | FREE | FREE | FREE | FREE | FREE |

*Peraturan Dasar Olahraga Sepeda Motor* **129** *Peraturan Tentang Teknik Balap Sepeda Motor*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **MATIC** | **MATIC 130cc Standart** | **MATIC 130cc Tune up** | **MATIC 150cc Standart** | **MATIC 150cc Tune up** | **MATIC 250cc Tune up** |
| **2.3 Rear suspension** | Standart | Standart | Standart | Standart | Standart |
| 2.3.1 Swing Arm | Standart | Standart | Standart | Standart | Standart |
| 2.3.2 Shock absorber | FREE | FREE | FREE | FREE | FREE |
| 2.3.3 Type | FREE | FREE | FREE | FREE | FREE |
|  |  |  |  |  |  |
| **2.4 Under Bracket** |  |  |  |  |  |
| 2.4.1 Upper | FREE | FREE | FREE | FREE | FREE |
| 2.4.2 Bottom | Standart | Standart | Standart | Standart | Standart |
| 2.4.3 Material | Standart | Standart | Standart | Standart | Standart |
|  |  |  |  |  |  |
| **2.5 handle Bar** |  |  |  |  |  |
| 2.5.1 Hand Guard | MUST | MUST | MUST | MUST | MUST |
|  |  |  |  |  |  |
| **2.6 Brakes** |  |  |  |  |  |
| 2.6.1 Brake lines | FREE | FREE | FREE | FREE | FREE |
| 2.6.2 Caliper | FREE | FREE | FREE | FREE | FREE |
| 2.6.3 Master | FREE | FREE | FREE | FREE | FREE |
| 2.6.4 Disc Brakes | FREE | FREE | FREE | FREE | FREE |
| 2.6.5 Brake pads | FREE | FREE | FREE | FREE | FREE |
|  |  |  |  |  |  |
| **2.7 Fuel tank** | Standart | Standart | Standart | Standart | Standart |
| 2.7.1. Position | FREE | FREE | FREE | FREE | FREE |
| 2.7.2. Capacity | Standart | Standart | Standart | Standart | Standart |
| 2.7.3 Fuel pump | FREE | FREE | FREE | FREE | FREE |

*Peraturan Dasar Olahraga Sepeda Motor* **130** *Peraturan Tentang Teknik Balap Sepeda Motor*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **2.8 Wheels** | STD BAWAAN MOTOR | STD BAWAAN MOTOR | STD BAWAAN MOTOR | FREE | FREE |
| 2.8.1 Material | ALMUNIUM ATAU BESI | ALMUNIUM ATAU BESI | ALMUNIUM ATAU BESI | ALMUNIUM ATAU BESI | ALMUNIUM ATAU BESI |
| 2.8.2 Size | MAX 1.60" | MAX 1.60" | MAX 1.85" | MAX 1.85" | MAX 2.15" |
| **2.9 Fairing** | STD MODIFIKASI | STD MODIFIKASI | STD MODIFIKASI | STD MODIFIKASI | STD MODIFIKASI |
| 2.9.1. Number Plate back 2 side | MUST | MUST | MUST | MUST | MUST |
| 2.9.2. Seat | STD MODIFIKASI | STD MODIFIKASI | STD MODIFIKASI | STD MODIFIKASI | STD MODIFIKASI |
| 2.9.3 Steering damper | FREE | FREE | FREE | FREE | FREE |
| **2.10 Weight** |  |  |  |  |  |
|  |  |  |  |  |  |
| **Berat motor dan pembalap** | 130KG | 130KG | 135KG | 135KG | 140KG |
| KETERANGAN : | | |  |  |  |
| \* Porting polish,welding,altered valve angle | | | | | |
| \*\* Lubang baut timing gear boleh dirubah | | | | | |
| \*\*\* Bagian dalam magnet boleh dicabut,bagian luar boleh dibubut,pulser boleh dirubah | | | | | |
| \*\*\*\* Standart atau boleh di ganti dengan varian sejenis,karbulator boleh dirember,karbulator boleh diganti injeksi juga sebaliknya | | | | | |
| # Bentuk luar seperti standart ,bagian dalam bebas,lubang buang knalpot standart | | | | | |
| ## Bentuk luar seperti standart ,Bagian dalam bebas,Lubang buang Knalpot Max 24 | | | | | |
| ### Bagian dalam boleh dirubah | | | | | |
| #### Hanya bagian pulser boleh dirubah,bagian luar boleh dibubut akan tetapi bagian dalam magnet masih berfungsi | | | | | |
| ##### CRANKSHAFT boleh diperkuat ( big end boleh dilas ) | | | | | |
| No rangka dan No mesin harus ada | | | | | |
| Pengukuran cc dibawah 0,49 dianggap 0 cc dan 0,50 dianggap 1 cc | | | | | |
| Apa yang tidak tercantum tidak boleh dirubah    Mesin dengan system injeksi tidak boleh dirubah menjadi system karburator, namun mesin dengan system karburator dapat dirubah menjadi system injeksi | | | | | |

*Peraturan Dasar Olahraga Sepeda Motor* **131** *Peraturan Tentang Teknik Balap Sepeda Motor*

**SPESIFIKASI**

**INDOPRIX**

**SPORT**

*Peraturan Dasar Olahraga Sepeda Motor* **132** *Peraturan Tentang Teknik Balap Sepeda Motor*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CLASS** |  |  |  |  | |
| **Machine** | **IP 115** | **IP130** | **IP150** | **Sport 150** | **250cc** |
|  |  |  |  |  |  |
| **1. ENGINE SPECIFICATIONS** |  |  |  |  |  |
| **1.1. Engine Type** | **4 stroke single cyl** | **4 stroke single cyl** | **4 stroke single cyl** | 4 stroke single cyl | **4 stroke 1 & 2 cyl** |
| **1.1.1. Displacement** | **Up to 115 cc** | **Up to 130 cc** | **Up to 150cc** | Up to 150cc | **1 cyl up to 300cc / 2 cyl up to 250cc** |
| **1.1.2. Engine layout** | **Horizontal** | **Horizontal** | **Vertical** | **Vertical** | **Vertical** |
| **1.1.3. Engine Id. Number** | **Required** | **Required** | **Required** | Required | **Required** |
|  |  |  |  |  |  |
| **1.2. Cylinder Head** | **Std-porting-welding** | **Std-Porting-welding** | **Std-Porting-welding** | Std-port-weld | **std-port-weld** |
| **1. 2.1. Valve and supporting parts** |  |  |  |  |  |
| 1.a. Maximum diameter | **29mm** | **31 mm** | **4 V 26mm/2 V 35 mm** | **4 V 26mm/2 V 35 mm** | **std** |
| 1.b. Material | **free** | **free** | free | Free | **free** |
| 1.c. Quantity | **std** | **std** | std | Std | **std** |
| 1.d.Valve seat | **free** | **free** | free | Free | **free** |
| 1.e.Valve Guide | **free** | **free** | free | Free | **free** |
| 1.f.Valve Spring | **free** | **free** | free | Free | **free** |
| 1.g.Valve Spring Retainer | **free** | **free** | free | Free | **free** |
| 1.h.Valve Shim | **free** | **free** | free | Free | **free** |

*Peraturan Dasar Olahraga Sepeda Motor* **133** *Peraturan Tentang Teknik Balap Sepeda Motor*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CLASS** | **IP 115** | **IP130** | **IP 150** | **Sport 150** | **250cc** |
| **1. 2.2. Camshaft** | **free** | **free** | free | Free | **free** |
| 2.a. Type | **std** | **std** | std | Std | **std** |
| 2.b. Material | **free** | **free** | free | Free | **free** |
| 2.c. Camshaft lobe profiles | **free** | **free** | free | Free | **free** |
| 2.d. Cam sprocket | **std modif** | **std modif** | **std modif** | **std modif** | **std modif** |
| 2.e. Cam chain | **free** | **free** | free | Free | **free** |
| 2.f. Cam chain tensioner | **free** | **free** | free | Free | **free** |
|  | | | | | |
| **1. 2.3. Rocker Arm** | **free** | **free** | free | **Free** | **STD** |
| 3.a. Material | **free** | **free** | free | Free | **free** |
| 3.b. Type | **free** | **free** | free | Free | **free** |
|  | | | | | |
| **1.2.4. Cylinder Head cover** | **FREE** | **FREE** | std | Std | **std** |
|  | | | | | |
| **1.3. Cylinder Block** | **std** | **std** | std | Std | **std** |
| 1.3.1. Material | **free** | **free** | free | Free | **free** |
| 1.3.2. Liner | **free** | **free** | free | Free | **free** |
| 1.3.3. Gasket | **free** | **free** | free | Free | **free** |

*Peraturan Dasar Olahraga Sepeda Motor* **134** *Peraturan Tentang Teknik Balap Sepeda Motor*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **CLASS** | **IP 115** | | **IP130** | **IP 150** | | **Sport 150** | **250cc** |
| **1.4. Piston And Piston Ring** |  | |  |  | |  |  |
| 1.4.1. Material | **free** | | **free** | free | | free | **free** |
| 1.4.2. Ring type | **std** | | **std** | std | | Std | **std** |
| 1.4.3. Ring quantity | **free** | | **free** | std | | Std | **free** |
| 1.4.3. Ring thickness | **free** | | **free** | free | | Free | **free** |
| **1.5. Crankshaft** | **std modif** | | **std-modif** | Std harderner | | Std harderner | **std modif** |
| 1.5.1 Material | **std** | | **std** | std | | Std | **std** |
| 1.5.2. Size (Stroke) | **std** | | **std** | std | | Std | **std** |
| 1.5.3. Connecting rod | **std** | | **std** | std | | Std | **std** |
| 1.5.4. Connecting rod Length | **std** | | **std** | std | | Std | **std** |
| 1.5.5. Crank Pin | std modif | | std modif | std | | std | std modif |
| **1.6. Cranckcase** |  | |  |  | |  |  |
| 1.6.1. Material | **std** | | **std** | std | | Std | **Std** |
| 1.6.2. Oil pump | **free** | | **free** | std | | Std | **Free** |
|  | | | | | | | |
| **1.7. Magnetto** |  |  | | |  |  |  |
| 1.7.1. Type | **free** | **free** | | | free | Free | **Free** |
| 1.7.2. Cover | **FREE** | **FREE** | | | Free | Free | std modif |

*Peraturan Dasar Olahraga Sepeda Motor* **135** *Peraturan Tentang Teknik Balap Sepeda Motor*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CLASS** | **IP 115** | **IP130** | **IP 150** | **Sport 150** | **250cc** |
| **1.8. Transmision** |  |  |  |  |  |
| 1.8.1. Primary Gear | **free** | **free** | std | Std | **free** |
| 1.8.2. Gear Box | **free** | **free** | free | free | **free** |
| 1.8.3. Quantity | **std** | **std** | std | std | **std** |
| 1.8.4. Final Gear | **free** | **free** | free | free | **free** |
|  | | | | | |
| **1.9. Clutch** |  |  |  |  |  |
| 1.9.1. Type | **STD** | **STD** | std | std | **std** |
| 1.9.2. Material | **free** | **free** | free | Free | **std** |
| 1.9.3. Clutch Housing | **free** | **free** | std | Std | **std** |
| 1.9.4. Clutch Cover | **free** | **free** | std | Std | **std** |
|  | | | | | |
| **1.10. Carburettor and Throttle Body** |  |  |  |  |  |
| 1.10.1. Carburettor | **no** | **no** | no | no |  |
| 1.10.2. Throtle Body | **26 mm Butterfly Valve** | **30 mm Butterfly Valve** | **max 33mm buterfly** | **max 33mm buterfly** | **46 mm 1cyl - 34 mm 2cyl butterfly** |
|  | **24 mm barrel** | **28 mm barrel** | ***max 30mm barrel*** | ***max 30mm barrel*** | **46 mm 1cyl - 34 mm 2cyl barrel** |
| 1.10.3. Intake Manifold | **free** | **free** | **free** | **free** | **free** |

*Peraturan Dasar Olahraga Sepeda Motor* **136** *Peraturan Tentang Teknik Balap Sepeda Motor*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CLASS** | **IP 115** | **IP130** | **IP 150** | **Sport 150** | **250cc** |
| **1.11. Ignition** |  |  |  |  |  |
| 1.11.1. Wiring-Harnes | **Free** | **Free** | free | free | **Free** |
| 1.11.2. CDI | **Free** | **Free** | free | free | **Free** |
| 1.11.3. Ignition Coil | **Free** | **Free** | free | free | **Free** |
| 1.11.4.Spark Plug | **Free** | **Free** | free | free | **Free** |
| 1.11.5.Quick Shifter | **no** | **no** | **no** | **no** | **No** |
|  | | | | | |
| **1.12. ECU** | **free** | **Free** | Free | Free | **Free** |
|  | | | | | |
| **1.13. Exhaust** | **free** | **free** | Free | free | **free** |
|  | | | | | |
| **1.14. Oil Cooler** | **free** | **free** | std | std | **free** |
|  | | | | | |
| **1.15. Radiator** | **prohibited** | **prohibited** | Free | Free | **Std** |
| **1.16. Dinamo starter** | **free** | **free** | free | Free | **free** |
|  | | | | | |
| **1.17. Battery** | **free** | **free** | free | Free | **free** |

*Peraturan Dasar Olahraga Sepeda Motor* **137** *Peraturan Tentang Teknik Balap Sepeda Motor*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CLASS** | **IP 115** | **IP130** | **IP 150** | **Sport 150** | **250cc** |
| **2. B O D Y - CHASSIS** | **Underbone** | **Underbone** | **Underbone** | **SPORT** | **SPORT** |
|  | | | | | |
| **2.1. Frame** |  |  |  |  |  |
| 2.1.1. Material | **std modif** | **std modif** | **std modif** | **std modif** | **std modif** |
| 2.1.2. Sub Frame Material | **free** | **free** | **free** | **Free** | **std** |
| 2.1.3. VIN/ Frame Number | **Required** | **Required** | required | required | **Required** |
|  | | | | | |
| **2.2. Front suspension** |  |  |  |  |  |
| 2.2.1. Type | **stock production** | **stock production** | **stock production** | **stock production** | **stock production** |
| 2.2.2. Inner Tube | **stock production** | **stock production** | **stock production** | **stock production** | **stock production** |
| 2.2.3. Outer Tube | **stock production** | **stock production** | **stock production** | **stock production** | **stock production** |
| 2.2.4. Spring | **free** | **free** | **free** | **Free** | **free** |
| 2.2.5. Fork Oil | **free** | **free** | **free** | **Free** | **free** |
| 2.2.6. Valves | **free** | **free** | **free** | **Free** | **free** |
| 2.2.7. Upper fork holder | **stock production** | **stock production** | **free** | **Free** | **free** |
| 2.2.8. Bottom fork holder | **stock production** | **stock production** | **stock production** | **stock production** | **stock production** |
|  | | | | | |

*Peraturan Dasar Olahraga Sepeda Motor* **138** *Peraturan Tentang Teknik Balap Sepeda Motor*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CLASS** | **IP 115** | **IP130** | **IP 150** | **Sport 150** | **250cc** |
| **2.3. Rear Suspension** |  |  |  |  |  |
| 2.3.1. Swing Arm | **stock production** | **stock production** | **stock production** | **stock production** | **stock production** |
| 2.3.2. Shock absorber | **free** | **free** | **free** | free | **free** |
| 2.3.3. Type | **std** | **std** | **std** | std | **std** |
| 2.3.4. Chain Guard | **must** | **must** | **must** | must | **must** |
| **2.4. Under Bracket** |  |  |  |  |  |
| 2.4.1. Upper | **Free** | **Free** | **Free** | free | **Free** |
| 2.4.2. Bottom | **free** | **free** | **free** | free | **free** |
| 2.4.3. Material | **std** | **std** | **std** | std | **std** |
| **2.5. Handle Bar** | **Free** | **Free** | **Free** | free | **Free** |
| 2.5.1. Hand Guard | **No need** | **No need** | **No need** | No need | **No need** |
| **2.6. Brakes** |  |  |  |  |  |
| 2.6.1. Brake lines | **steel** | **steel** | **steel** | steel | **Steel** |
| 2.6.2. Caliper | **free** | **free** | **free** | free | **Free** |
| 2.6.3. Master | **free** | **free** | **free** | free | **Free** |
| 2.6.4. Disc Brakes | **free** | **free** | **free** | free | **Free** |
| 2.6.5. Brake pads | **free** | **free** | **free** | free | **Free** |

*Peraturan Dasar Olahraga Sepeda Motor* **139** *Peraturan Tentang Teknik Balap Sepeda Motor*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CLASS** | **IP 115** | **IP130** | **IP 150** | **Sport 150** | **250cc** |
| **2.7. Fuel tank** |  |  |  | **std** |  |
| 2.7.1. Position | **free** | **free** | **std** | std | **std** |
| 2.7.2. Capacity | **std** | **std** | **std** | std | **std** |
| 2.7.3 Fuel pump | **free** | **free** | **std** | std | **Std** |
| **2.8. Wheels** |  |  |  |  |  |
| 2.8.1 Material | **aluminium** | **aluminium** | **aluminium** | free for sport ,std UB | **aluminium** |
| 2.8.2 Size | **std** | **std** | **std** | std | **std** |
| 2.8.3 Rims Width | **3,00 inch** | **3,00 inch** | **free** | **Free** | **4,50 inch** |
| 2.8.3 Rims Diameter | **std** | **std** | **std** | **Std** | **std** |
| **2.9. Fairing** |  |  |  | **SPORT DESIGN** | **SPORT DESIGN** |
| 2.9.1. Materials and Shapes | **Modification allowed** | **Modification allowed** | **Modification allowed** | **Modification allowed** | **Modification allowed** |
| 2.9.2. Number Plate back 2 side | **Must-Black on white** | **Must-Black on white** | **Must-Black on white** | **Must-Black on white** | **Must-Black on white** |
| **2.10. Seat** | **Free** | **Free** | **Free** | Free | **Free** |
| **2.11. Steering damper** | **Free** | **Free** | **Free** | Free | **Free** |
| **2.12. Minimum Weight** | **140kg** | **145kg** | **150 kg** | **160 kg** | **1 cyl up to 250cc : 192 kg** |
| **1 cyl up to 300cc : 195 kg** |
| **2cyl up to 250cc : 200 kg** |
| **Incl rider** | **Incl rider** | **Incl rider** | **Incl rider** | **Incl rider** |

*Peraturan Dasar Olahraga Sepeda Motor* **140** *Peraturan Tentang Teknik Balap Sepeda Motor*