Claims

1. A structure of a frame and a body of a motorcycle that allows removal or switching the body from the frame characterized in that the frame comprises three groups of mounting points between the motorcycle's frame and body: one group of mounting points being located substantially along a sagittal plane (110), which passes the axial length (passing the centers of the two wheels) of the motorcycle; one group of mounting points comprising a single pair of mounting points, each member of the pair being spaced apart from each other and located either side of the sagittal plane and substantially along a vertical plane perpendicular (111) to the axial length of, and at a front portion of the motorcycle and preferably above the center of the front wheel; one group of mounting points (112) being located substantially on a vertical plane perpendicular to the axial length of the motorcycle and above or in front and above the center of the rear wheel ,
wherein the total number of mounting points located on the frame is 11.

2. The structure according to claim 1, wherein the group of mounting points located substantially on the sagittal plane (110), comprises mounting point one (200), mounting point two (201), mounting point three (202), mounting point four (203), and mounting point eleven (210).

3. The structure according to claim 1, wherein the group of mounting points located substantially on the vertical plane perpendicular to the axial length of the motorcycle and preferably above the center of the front wheel comprises mounting point five (204) and mounting point six (205).

4. The structure according to claim 1, wherein the group of mounting points located substantially on the vertical plane perpendicular to the axial length of the motorcycle and preferably above or in front and above the center of the rear wheel, comprises mounting point seven (206), mounting point eight (207), mounting point nine (208), and mounting point ten (209).

5. The structure according to any one of claims 2 - 4, inclusive, wherein there must be at least one mounting point between the motorcycle's frame and the motorcycle's body in each of the three groups of mounting points.

6. The structure according to any one of claims 2 - 4, inclusive, wherein each mounting point is bolted to fasten the motorcycle body to the frame structure.

7. The structure according to claim 6, wherein the bolt size must be between 5 mm to 12 mm or 1/2 to 1 inch, which is equivalent to 1.27 cm to 2.54 cm.

8. The structure according to any one of claims 6 - 7, inclusive, wherein the 5 mm, the smallest size, mounting bolt must have a minimum proof load of less than or equal to 225x106 Pascal and must withstand a minimum tensile strength of at least 400x106 Pascal.

9. The structure according to claim 8, wherein the bolt size can be larger than 5 mm, with corresponding changes in the minimum proof load and the minimum tensile strength.

10. The structure according to claim 1, wherein the motorcycle comprises ordinary motorcycles (with internal combustion engines), electric motorcycles and hybrid motorcycles.