COMMISSION OF THE EUROPEAN COMMUNITIES



Brussels, 13.6.2008 COM(2008) 351 final

2008/0115 (COD)

Proposal for a

DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

on the approximation of the laws of the Member States relating to the driver's seat on wheeled agricultural or forestry tractors

(Codified version)

(presented by the Commission)

EXPLANATORY MEMORANDUM

1. In the context of a people's Europe, the Commission attaches great importance to simplifying and clarifying Community law so as to make it clearer and more accessible to the ordinary citizen, thus giving him new opportunities and the chance to make use of the specific rights it gives him.

This aim cannot be achieved so long as numerous provisions that have been amended several times, often quite substantially, remain scattered, so that they must be sought partly in the original instrument and partly in later amending ones. Considerable research work, comparing many different instruments, is thus needed to identify the current rules.

For this reason a codification of rules that have frequently been amended is also essential if Community law is to be clear and transparent.

- 2. On 1 April 1987 the Commission therefore decided¹ to instruct its staff that all legislative acts should be <u>codified</u> after <u>no more</u> than ten amendments, stressing that this is a minimum requirement and that departments should endeavour to codify at even shorter intervals the texts for which they are responsible, to ensure that the Community rules are clear and readily understandable.
- 3. The Conclusions of the Presidency of the Edinburgh European Council (December 1992) confirmed this², stressing the importance of <u>codification</u> as it offers certainty as to the law applicable to a given matter at a given time.

Codification must be undertaken in full compliance with the normal Community legislative procedure.

Given that no changes of substance may be made to the instruments affected by <u>codification</u>, the European Parliament, the Council and the Commission have agreed, by an interinstitutional agreement dated 20 December 1994, that an accelerated procedure may be used for the fast-track adoption of codification instruments.

4. The purpose of this proposal is to undertake a codification of Council Directive 78/764/EEC of 25 July 1978 on the approximation of the laws of the Member States relating to the driver's seat on wheeled agricultural or forestry tractors³. The new Directive will supersede the various acts incorporated in it⁴; this proposal fully preserves the content of the acts being codified and hence does no more than bring them together with <u>only such formal amendments</u> as are required by the codification exercise itself.

¹ COM(87) 868 PV.

² See Annex 3 to Part A of the Conclusions.

³ Carried out pursuant to the Communication from the Commission to the European Parliament and the Council – Codification of the Acquis communautaire, COM(2001) 645 final.

⁴ See Annex VI, Part A of this proposal.

5. The <u>codification</u> proposal was drawn up on the basis of a <u>preliminary consolidation</u>, in all official languages, of Directive 78/764/EEC and the instruments amending it, carried out by the Office for Official Publications of the European Communities, by means of <u>a data-processing system</u>. Where the Articles have been given new numbers, the correlation between the old and the new numbers is shown in a table contained in Annex VII to the codified Directive.

2008/0115 (COD)

↓ 78/764/EEC (adapted)

Proposal for a

DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

on the approximation of the laws of the Member States relating to the driver's seat on wheeled agricultural or forestry tractors

(Text with EEA relevance)

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty establishing the European Community, and in particular Article $\frac{100}{100} \times 95 \ll$ thereof,

Having regard to the proposal from the Commission,

the said Directive should be codified.

Having regard to the opinion of the European Economic and Social Committee¹,

Acting in accordance with the procedure laid down in Article 251 of the Treaty²,

Whereas:

(1)

Council Directive 78/764/EEC of 25 July 1978 on the approximation of the laws of the Member States relating to the driver's seat on wheeled agricultural or forestry tractors³ has been substantially amended several times⁴. In the interests of clarity and rationality

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(2) Directive 78/764/EEC is one of the separate Directives of the EC type-approval system provided for in Council Directive 74/150/EEC, as replaced by Directive 2003/37/EC of the European Parliament and of the Council of 26 May 2003 on type-approval of agricultural or forestry tractors, their trailers and interchangeable towed machinery, together with their systems, components and separate technical units and repealing Directive 74/150/EEC⁵ and lays down technical prescriptions

 $[\]begin{array}{c} 1 \\ 2 \\ \end{array} \quad OJ C [...], [...], p. [...]. \\ OI C [...] [...] p. [...].$

² OJ C [...], [...], p. [...].

³ OJ L 255, 18.9.1978, p. 1. Directive as last amended by Directive 2006/96/EC (OJ L 363, 20.12.2006, p. 81).

⁴ See Annex VI, Part A.

⁵ OJ L 171, 9.7.2003, p. 1. Directive as last amended by Directive 2006/96/EC.

concerning the design and construction of agricultural or forestry tractors as regards the driver's seat. Those technical prescriptions concern the approximation of the laws of the Member States to enable the EC type-approval procedure provided for in Directive 2003/37/EC to be applied in respect of each type of tractor. Consequently, the provisions laid down in Directive 2003/37/EC relating to agricultural and forestry tractors, their trailers and interchangeable towed machinery, together with their systems, components and separate technical units apply to this Directive.

(3) This Directive should be without prejudice to the obligations of the Member States relating to the time-limits for transposition into national law and application of the Directives set out in Annex VI, Part B,

↓ 78/764/EEC

HAVE ADOPTED THIS DIRECTIVE:

Article <u>19</u>

1. For the purposes of this Directive, 'agricultural or forestry tractor' means any motor vehicle, fitted with wheels or endless tracks, having at least two axles, the main function of which lies in its tractive power and which is specially designed to tow, push, carry or power certain tools, machinery or trailers intended for agricultural or forestry use. It may be equipped to carry a load and passengers.

✓ 82/890/EEC Art. 1(1) (adapted)
 →1 97/54/EC Art. 1

2. This Directive shall apply only to tractors defined in paragraph 1 which are equipped with pneumatic tyres and have-at least two axles and a maximum design speed of between 6 and $\rightarrow_1 40 \text{ km/h} \leftarrow$.

↓ 78/764/EEC (adapted)

Article <u>+2</u>

1. <u>Each Member States shall grant $\underline{EEC} \underline{EC}$ component type-approval for any type of driver's seat which satisfies the construction and testing requirements laid down in Annexes I and II.</u>

2. The Member State which has granted $\underline{\text{EEC}} \underline{\text{EC}}$ component type-approval shall take the measures required in order to verify, in so far as is necessary and if need be in cooperation with the competent authorities in the other Member States, that production models conform to the approved type. Such verification shall be limited to spot checks.

↓ 78/764/EEC

Member States shall, for each type of driver's seat which they approve pursuant to Article ± 2 , issue to the manufacturer or to his authoriszed representative, an $\pm EC$ component type-approval mark conforming to the model shown in <u>point</u> 3.5 of Annex II.

Member States shall take all appropriate measures to prevent the use of marks liable to create confusion between driver's seats which have been granted <u>EC</u> component type-approval pursuant to Article ± 2 and other devices.

Article <u>34</u>

↓ 78/764/EEC (adapted)

<u>**L**</u> No <u>A</u> Member State \boxtimes shall not \bigotimes may prohibit the placing on the market of driver's seats on grounds relating to their construction if they bear the <u>**EEC**</u> <u>EC</u> component type-approval mark.

↓ 78/764/EEC

 \geq Nevertheless, a Member State may prohibit the placing on the market of driver's seats bearing the $\frac{\text{EEC}}{\text{EC}}$ component type-approval mark which consistently fail to conform to the approved type.

That <u>Member</u> State shall forthwith inform the other Member States and the Commission of the measures taken, specifying the reasons for its decision.

↓ 78/764/EEC (adapted)

Article <u>45</u>

The competent authorities of each Member State shall within one month send to the competent authorities of the other Member States a copy of the <u>EC</u> component type-approval certificates, an example \boxtimes a model \bigotimes of which is \boxtimes shown \bigotimes given in Annex III, completed for each type of driver's seat which they approve or refuse to approve.

↓ 78/764/EEC

Article <u>56</u>

1. If the Member State which has granted \underline{EEC} \underline{EC} component type-approval finds that a number of driver's seats bearing the same \underline{EEC} \underline{EC} component type-approval mark do not conform to the type which it has approved, it shall take the necessary measures to ensure that production models conform to the approved type.

<u>The competent authorities of that Member State shall advise those of the other Member States</u> of the measures taken, which may, if necessary, where there is a serious and repeated failure to conform, extend to withdrawal of the <u>EEC</u> EC component type-approval.

<u>The said</u> Those authorities shall take the same measures if they are informed by the competent authorities of another Member State of such failure to conform.

2. The competent authorities of the Member States shall inform each other within one month of any withdrawal of <u>EEC</u> component type-approval, and of the reasons for such a measure.

Article <u>€7</u>

Any decision taken pursuant to the provisions adopted in implementation of this Directive to refuse or withdraw $\underline{\text{EEC}}$ $\underline{\text{EC}}$ component type-approval for a driver's seat or to prohibit its placing on the market or use, shall set out in detail the reasons on which it is based.

Such decisions shall be notified to the party concerned, who shall at the same time be informed of the remedies available to him under the laws in force in the Member States and of the time-limits allowed for the exercise of such remedies.

Article <u>78</u>

No Member State may refuse to grant $\underline{\underline{EC}} \underline{\underline{EC}}$ type-approval or national type-approval for a tractor on grounds relating to its driver's seat if this bears the $\underline{\underline{EC}} \underline{\underline{EC}}$ component type-approval mark and is fitted in accordance with the requirements laid down in Annex IV.

Article <u>89</u>

No Member State may refuse or prohibit the sale, registration, entry into service or use of any tractor on grounds relating to the driver's seat if this bears the <u>EEC</u> component type-approval mark and is fitted in accordance with the requirements set out in Annex IV.

↓ 78/764/EEC (adapted)

Article 10

The \bigotimes Any amendments necessary to <u>adapt</u> <u>adjust</u> the requirements of <u>the</u> Annexes \bigotimes I to V \bigotimes to <u>this Directive to</u> take account of technical progress shall be adopted in accordance with the procedure \bigotimes referred to \bigotimes <u>laid down</u> in Article \bigotimes 20(2) \bigotimes 13 13 06 Directive \bigotimes 2003/37/EC \bigotimes 74/150/EEC.

Article 11

1. Member States shall bring into force the provisions necessary in order to comply with this Directive within 18 months of its notification and shall forthwith inform the Commission thereof.

2. Member States shall ensure that the texts of the main provisions of national law which they adopt in the field covered by this Directive are communicated to the Commission.

 \boxtimes Member States shall communicate to the Commission the texts of the main provisions of national law which they adopt in the field covered by this Directive. \bigotimes

| $\mathbf{+}$ | | |
|--------------|--|--|

Article 12

Directive 78/764/EEC, as amended by the acts listed in Annex VI, Part A, is repealed, without prejudice to the obligations of the Member States relating to the time-limits for transposition into national law and application of the Directives set out in Annex VI, Part B.

References to the repealed Directive shall be construed as references to this Directive and shall be read in accordance with the correlation table set out in Annex VII.

Article 13

This Directive shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

It shall apply from [...].

↓ 78/764/EEC

Article <u>1412</u>

This Directive is addressed to the Member States.

Done at Brussels, [...]

For the European Parliament The President [...] For the Council The President [...]

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- Annex VII: Correlation table

↓ 78/764/EEC

ANNEX I

DEFINITIONS

1. Driver's seat

'Driver's seat' means that seat capable of accommodating one person only, provided for the use of the driver when driving the tractor.

2. Seat surface

'Seat surface' means the almost horizontal area of the seat which supports the driver when seated.

3. Backrest

'Backrest' means the almost vertical area of the seat supporting the driver's back when seated.

4. Lateral seat supports

'Lateral seat supports' means the devices or forms of the seat surface which prevent the driver from sliding sideways.

4.1. Seat armrests

'Seat armrests' means the devices on either side of the seat which support the driver's arms when he is seated.

5. Seat reference point (S)

'Seat reference point (S)' means the point of intersection in the median longitudinal plane of the seat between the tangential plane at the base of the padded backrest and a horizontal plane. This horizontal plane intersects the lower surface of the seat 150 mm in front of the seat reference point (S) (see Appendix 1 to Annex II).

6. Depth of the seat surface

'Depth of the seat surface' means the horizontal distance between the seat reference point (S) and the front edge of the seat surface.

7. Width of the seat surface

'Width of the seat surface' means the horizontal distance between the outside edges of the seat surface measured in a plane perpendicular to the median plane of the seat.

8. Load adjustment range

'Load adjustment range' means the range between the two loads corresponding to the mean positions in the suspension system curves plotted for the heaviest and lightest driver.

 \clubsuit 83/190/EEC Art. 1 and Annex

9. Suspension travel

'Suspension travel' means the vertical distance between the highest position and the position at a given moment of a point situated on the seat surface 200 mm in front of the seat reference point in the median longitudinal plane.

↓ 78/764/EEC
 →1 83/190/EEC Art. 1 and Annex

10. Vibration

'Vibration' means the vertical movement up and down of the driver's seat.

11. Vibration acceleration (a)

'Vibration acceleration (a)' means the second differential of the vibration displacement with respect to time.

12. Rms value of the acceleration (**a**_{eff})

'Rms value of the acceleration $(a_{\rm eff})$ ' means the square root of the mean square of the accelerations.

→₁ 13. ← Weighted vibration acceleration (a_w)

'Weighted vibration acceleration (a_w) ' means the weighted vibration acceleration determined with the help of a weighting filter in accordance with <u>point</u> 2.5.3.3.5.2 of Annex II.

 \clubsuit 83/190/EEC Art. 1 and Annex

- a_{wS} = rms value of the weighted seat vibration acceleration measured during a bench test or a standard roadway test;
- a_{wB} = rms value of the weighted vibration acceleration measured at the seat attachment during a bench test;
- a_{wB}^* = reference rms value of the weighted vibration acceleration measured at the seat attachment;

- $a_{wS}^* =$ corrected rms value of the weighted seat vibration acceleration measured during a bench test;
- $a_{wF}^* =$ rms value of the weighted vibration acceleration measured at the seat attachment during a standard roadway test.

 \rightarrow_1 14. \leftarrow Vibration ratio

'Vibration ratio' means the ratio of the weighted vibration acceleration measured on the driver's seat to that measured at the seat attachment in accordance with point 2.5.3.3.2 of Annex II.

$\rightarrow_1 15. \leftarrow$ Vibration class

'Vibration class' means the class or group of tractors which show the same vibration characteristics.

 \clubsuit 83/190/EEC Art. 1 and Annex

↓ 78/764/EEC → $_1$ 83/190/EEC Art. 1 and Annex

16. Category A tractor

'Category A tractor' means a tractor which can be assigned to a given vibration class by reason of similar design features.

 \clubsuit 88/465/EEC Art. 1 and Annex

16.1. The characteristics of these tractors are as follows:

Number of axles: two.

Suspension: unsuspended rear axle.

16.2. Category A tractors shall be divided up into three classes:

Class I: tractors having an unladen mass of up to 3 600 kg.

Class II: tractors having an unladen mass of 3 600 — 6 500 kg.

Class III: tractors having an unladen mass of more than 6 500 kg.

\clubsuit 83/190/EEC Art. 1 and Annex

17. Category B tractor

'Category B tractor' means a tractor which cannot be assigned to a vibration class in Category A.

$\rightarrow_1 18. \leftarrow$ Seats of the same type

'Seats of the same type' means seats which do not differ in any essential respects; the only aspects in which the seats may differ being as follows:

- $\rightarrow_1 18.1. \leftarrow$ dimensions;
- $\rightarrow_1 18.2. \leftarrow$ position and inclination of the backrest;
- $\rightarrow_1 18.3. \leftarrow$ inclination of the seat surface;
- \rightarrow_1 18.4. \leftarrow longitudinal and vertical adjustment of the seat.

ANNEX II

CONSTRUCTION AND TESTING REQUIREMENTS — <u>EEC</u> COMPONENT TYPE-APPROVAL AND MARKING REQUIREMENTS

1. GENERAL REQUIREMENTS

- 1.1. The driver's seat must be designed to ensure a comfortable position for the driver when controlling and manoeuvring the tractor, and to afford him the utmost protection as regards health and safety.
- 1.2. The seat must be adjustable in the longitudinal direction and in the height without the use of a tool.
- 1.3. The seat must be designed to reduce shocks and vibration. It must therefore be well sprung, have good vibration absorption and provide adequate support at the rear and sides.

The lateral support is considered adequate if the seat is designed to prevent the driver's body from slipping sideways.

- 1.3.1. The seat must be adjustable for persons of different mass. Any adjustment necessary in order to comply with this requirement must be carried out without the use of tools.
- 1.4. The seat surface, the backrest, the lateral supports and, where fitted, the removable, folding or fixed armrests, must be padded.
- 1.5. The seat reference point (S) must be calculated in the manner specified in Appendix 1 to Annex II.
- 1.6. Save as otherwise provided, the measurements and tolerances must comply with the following requirements:
- 1.6.1. the measurements given must be expressed in whole units, if necessary rounded off to the nearest whole number of units;
- 1.6.2. the instruments used for making measurements must enable the measured value to be rounded off to the nearest whole unit and must be accurate within the following tolerance limits:

for length: $\pm 0.5\%$,

for angle measurements: $\pm 1^{\circ}$,

for determination of the mass of the tractor: ± 20 kg,

for measurement of tyre pressure: $\rightarrow_1 \pm 0, 1$ bar \leftarrow ;

1.6.3. for all data relating to dimensions, a tolerance of \pm 5% is allowed.

- 1.7. The seat must undergo the following tests, carried out on the same seat and in the order indicated below:
- 1.7.1. determination of the suspension characteristics and the range of adjustment to the driver's mass;
- 1.7.2. determination of lateral stability;

▶ 83/190/EEC Art. 1 and Annex

- 1.7.3. $\underline{\underline{Dd}}$ determination of vertical vibration characteristics:
- 1.7.4. $\underline{\mathbf{D}}\mathbf{d}$ etermination of the damping characteristics in the resonance range.

✓ 78/764/EEC
 →1 88/465/EEC Art. 1 and Annex

- 1.8. If the seat is manufactured so that it can revolve about a vertical axis then tests are carried out with the seat facing the forward position, locked in a position parallel with the median longitudinal plane of the tractor.
- 1.9. The seat undergoing the above tests must possess the same characteristics with respect to construction and fittings as the seats in series production.
- 1.10. Before the tests are carried out, the seat must have been run in by the manufacturer.
- 1.11. A test report, which confirms that the seat has completed all the specified tests without damage and which includes details of the seat vibration characteristics, must be prepared by the test laboratory.
- 1.12. Seats tested for Class I tractors are suitable only for tractors of that class, whereas seats tested for Class II tractors are suitable for Class I or Class II tractors \rightarrow_1 and seats tested for Class III tractors are suitable for Class II and III tractors \leftarrow .

2. SPECIAL REQUIREMENTS

2.1. Seat surface dimensions

- 2.1.1. The depth of the seat surface, measured parallel to and at a distance of 150 mm from the median longitudinal plane of the seat, must be 400 ± 50 mm (see figure below).
- 2.1.2. The width of the seat surface, measured perpendicular to the median plane of the seat, 150 mm in front of the seat reference point (S) and at not more than 80 mm above that point, must be at least 450 mm (see figure below).

♦ 83/190/EEC Art. 1 and Annex

2.1.3. The depth and width of the surface of seats intended for tractors in which the minimum rear-wheel track width does not exceed 1 150 mm may be reduced to not less than 300 and 400 mm respectively if the design of the tractor prevents compliance with the requirements of <u>Hems points</u> 2.1.1 and 2.1.2.

↓ 78/764/EEC

2.2. Position and inclination of the backrest

- 2.2.1. The upper edge of the backrest of the seat must be at least 260 mm above the seat reference point (S) (see figure below).
- 2.2.2. The backrest must have an inclination of $10 \pm 5^{\circ}$ (see figure below).

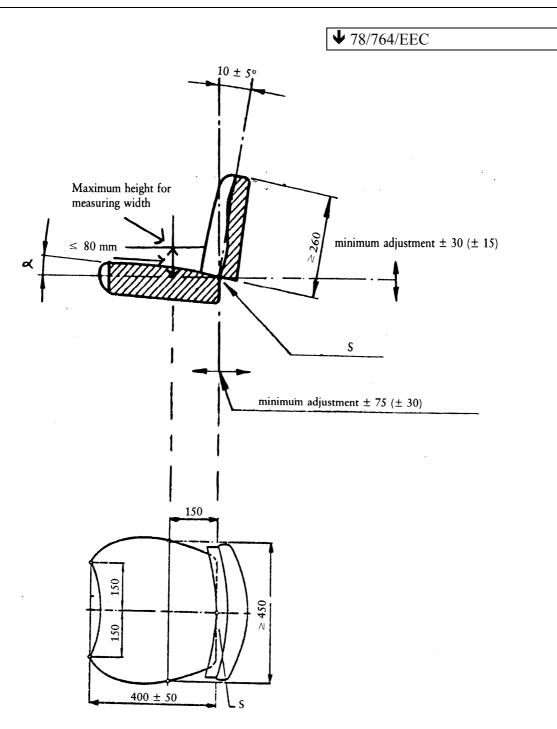
2.3. Inclination of the seat surface

2.3.1. The inclination towards the rear (see angle α in the figure below) of the surface of the loaded cushion must be 3 to 12° in relation to the horizontal, measured with the loading device in accordance with Appendix 1.

2.4. Seat adjustment (see figure below)

▶ 83/190/EEC Art. 1 and Annex

- 2.4.1. The seat must be adjustable in the longitudinal direction over a minimum distance of:
 - 150 mm for tractors with a minimum rear-wheel track width of more than 1 150 mm,
 - 60 mm for tractors with a minimum rear-wheel track width of 1 150 mm or less.
- 2.4.2. The seat must be adjustable in the vertical direction over a minimum distance of:
 - 60 mm for tractors with a minimum rear-wheel track width of more than 1 150 mm,
 - 30 mm for tractors with a minimum rear-wheel track width of 1 150 mm or less.



(Dimensions in millimetres)

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▶ 83/190/EEC Art. 1 and Annex

- 2.5.1. Determination of the suspension characteristics and the range of adjustment to the driver's mass
- 2.5.1.1. The suspension characteristics are determined by a static test. The range of adjustment to the driver's mass is calculated from the suspension characteristics. These calculations are not necessary in the case of seats that cannot be manually adjusted to the driver's mass.

↓ 78/764/EEC →1 83/190/EEC Art. 1 and Annex

2.5.1.2. The seat is mounted on a test stand or on a tractor and a load applied to it, either directly or by means of a special device; this load must not differ by more than 5 N from the nominal load. →1 The measuring error for the suspension travel shall not exceed ± 1 mm.
The load must be applied in accordance with the procedure laid down in section point 3 of Appendix 1.

- 2.5.1.3. A complete characteristic curve representing the deflection of the suspension system must be plotted from zero load to maximum load, and back to zero. The load graduations at which the suspension travel is measured must not exceed 100 N; at least eight measurement points must be plotted at approximately equal intervals in the suspension travel. The point taken as the maximum load should ≥ shall ≥ shall ≥ be either that at which no further suspension travel can be measured, or a load of 1 500 N. After each application or removal of the load, the suspension travel must be measured 200 mm in front of the seat reference point in the median longitudinal plane of the seat surface. After application or removal of the load, the seat must be allowed to return to its at-rest position.
- 2.5.1.4. In the case of seats with a mass adjustment scale, the characteristic curves representing the deflection of the suspension system are plotted at mass adjustments for drivers having a mass of 50 and 120 kg. In the case of seats without a mass adjustment scale and with adjustment stops, measurements are taken at the lowest and the highest mass adjustment. In the case of seats without a mass adjustment scale or adjustment stops, the adjustment must be so selected that:
- 2.5.1.4.1. for the lower mass adjustment limit, the seat just returns to the top of the suspension travel when the load is removed, and
- 2.5.1.4.2. for the upper mass adjustment limit, the load of 1 500 N depresses the seat to the lowest limit of the suspension travel.

✓ 78/764/EEC (adapted)
 → 1 83/190/EEC Art. 1 and Annex

- 2.5.1.5. The mean position of the suspension system is the position which the seat assumes when it is depressed by half the full travel of the suspension system.
- 2.5.1.6. Since the characteristic curves of the suspension system are generally hysteresis loops, the load →1 in the mean position of the suspension system ← must be determined by drawing a centre line through the loop (see section point 8 of Annex I, and sections points A and B of Appendix 2 to Annex II).

◆ 83/190/EEC Art. 1 and Annex (adapted)

- 2.5.1.7. To determine the limits of the adjustment range as a function of the driver's mass, the vertical forces determined in accordance with <u>Item point</u> 2.5.1.6 for points A and B (see Appendix 2 to this Annex) must be multiplied by the scale factor 0,13 kg/N.
- 2.5.2. Determination of lateral stability
- 2.5.2.1. The seat must be set for the upper limit of the weight adjustment and connected to the test stand or to the tractor in such a way that its base plate rests on a rigid plate (test stand) not smaller than the base plate itself.

↓ 78/764/EEC

- 2.5.2.2. A test load of 1 000 N is applied to the surface or cushion of the seat. The point of application must lie 200 mm in front of the seat reference point (S) and alternately on the two sides 150 mm from the plane of symmetry through the seat.
- 2.5.2.3. During application of the load, the variation in the lateral angle of inclination of the seat surface is measured in the end settings for horizontal and vertical seat adjustment. The permanent deformation close to the point of application of the load is not to be taken into consideration.

▶ 83/190/EEC Art. 1 and Annex

2.5.3. Determination of the vertical vibration characteristics

↓ 78/764/EEC

The seat vibration is determined by tests on a test stand and/or a standard roadway depending on whether the seat is intended for a class (or classes) of Category A tractor or for a Category B tractor.

| ♦ 83/190/EEC Art. 1 and Annex |
|---|
| (adapted) |
| $\rightarrow_1 88/465/EEC$ Art. 1 and Annex |

2.5.3.1.1. The test stand must simulate the vertical vibrations at the point of attachment of the driver's seat. The vibrations are generated by means of an electro-hydraulic device. The set values to be used are either those specified in Appendices →1 4, 5a and 5b ≥ 4, 5 and 6 ≤ € to Annex II for the class of tractor in question or the double-integrated acceleration signals recorded at the seat attachment of a Category B tractor moving at a speed of 12 ± 0,5 km/h on a standard roadway as defined in Item point 2.5.3.2.1. To generate the vibrations, an uninterrupted double run of the set values must be used.

The transition from the end of the sequence of acceleration signals recorded on the standard roadway in the first run to the start of the second run must be smooth and jolt-free. The measurements must not be made during the first run of the set values or of the acceleration signals. More values than the 700 laid down in Appendices $\rightarrow_1 \frac{4}{5}$, $\frac{5a \text{ and } 5b}{5a} \otimes 4$, 5 and $6 \otimes 4$, 5 and $6 \otimes 4$ and $\frac{5b}{5a} \otimes 4$, 5 and $6 \otimes 5$ and $\frac{5b}{5a} \otimes 4$, 5 and $6 \otimes 5$ and $\frac{5b}{5a} \otimes 4$, 5 and $6 \otimes 5$ and $\frac{5b}{5a} \otimes 4$, 5 and $6 \otimes 5$ and $\frac{5b}{5a} \otimes 4$, 5 and $6 \otimes 5$ and $\frac{5b}{5a} \otimes 4$, 5 and $6 \otimes 5$ and $\frac{5b}{5a} \otimes 4$, 5 and $6 \otimes 5$ and $\frac{5b}{5a} \otimes 4$, 5 and $6 \otimes 5$ and $\frac{5b}{5a} \otimes 4$, 5 and $6 \otimes 5$ and $\frac{5b}{5a} \otimes 4$, 5 and $\frac{5b}{5a$

↓ 78/764/EEC

2.5.3.1.2. Besides an attachment for the test seat, the platform must contain a steering wheel and footrest. Its configuration must be as shown in Appendix $\underline{\underline{67}}$.

♦ 83/190/EEC Art. 1 and Annex

2.5.3.1.3. The test stand must have a high degree of flexural and torsional rigidity and its bearings and guides must have no more than the technically necessary clearance. If the platform is carried on an oscillating arm, the dimension R must be not less than 2 000 mm (see Appendix <u>67</u>). The magnitude of the vibration ratio at frequencies between 0,5 and 5,0 Hz shall be within the range $1,00 \pm 0,05$, measured at intervals not exceeding 0,5 Hz. The phase shift shall not vary by more than 20° throughout the same frequency range.

↓ 78/764/EEC

2.5.3.2. Testing on a standard roadway

 Ψ 83/190/EEC Art. 1 and Annex (adapted)

2.5.3.2.1. The roadway consists of two parallel strips spaced according to the wheel track of the tractor. Both strips must be made of a rigid material, such as wood or concrete, and be formed either of blocks set in a base structure or of a continuous smooth surface. The longitudinal profile of each track strip is defined by the ordinates of elevation in relation to a base level; these ordinates are shown in the tables in Appendix 3. With regard to the roadway, the elevation is defined at intervals of 16 cm along each strip.

The roadway must be firmly set in the ground and the distance between the strips must deviate only slightly over its entire length; the tractor's wheels must be fully supported at all times.

Where the strips are formed of blocks, these must be 6 to 8 cm thick, with a distance of 16 cm between the centres of the blocks. The length of the standard roadway shall be 100 m.

The measurements must begin as soon as the axis of the rear axle of the tractor is perpendicular to point D = 0 on the roadway, and end as soon as the axis of the front axle of the tractor is perpendicular to point D = 100 of the test roadway (see the table in Appendix 3 to this Annex).

2.5.3.2.2. Measurements shall be taken at a speed of 12 ± 0.5 km/h.

The prescribed speed must be maintained without the use of brakes. The vibrations must be measured on the seat and at the point where the seat is attached to the tractor, with a light and a heavy driver.

The speed of 12 km/h must be reached after a run-up track has been traversed. The surface of this run-up track must be flat and must join the standard roadway without any change in level.

↓ 78/764/EEC

- 2.5.3.2.3. The seat must be set for the driver's mass in accordance with the manufacturer's instructions.
- 2.5.3.2.4. The tractor must be fitted with a protective frame and/or cab unless of a type for which this equipment is not required. It must not carry any ancillary equipment. Moreover, there must be no ballast on the wheels or framework, and no fluid in the tyres.

- 2.5.3.2.5. The tyres used during the test must have the standard dimensions and plyrating, as specified in the manufacturer's instructions. The depth of the tread must not be less than 65 % of the depth of a new tread.
- 2.5.3.2.6. The side-walls of the tyres must not be damaged. The pressure of the tyre must correspond to the arithmetical mean of the reference pressures recommended by the tyre manufacturer. The wheel track must correspond to that used under normal working conditions for the tractor model on which the seat is fitted.
- 2.5.3.2.7. The measurements at the point of seat attachment and on the seat itself must be made during the same run.

For measuring and recording the vibrations, an accelerometer, a measuring amplifier and a magnetic tape recorder or direct-reading vibration meter shall be used. The specifications for these instruments are as laid down in <u>points</u> 2.5.3.3.2 to 2.5.3.3.6.

2.5.3.3. Specifications for tests on roadway and test stand

▶ 83/190/EEC Art. 1 and Annex

2.5.3.3.1. Driver's mass

The tests must be carried out with two drivers: one with a total mass of 59 ± 1 kg, of which not more than 5 kg may be carried in a weighting belt around the body; the other with a mass of 98 ± 5 kg with a maximum mass of 8 kg in the weighting belt.

2.5.3.3.2. Position of the accelerometer

To measure the vibrations transmitted to the driver, an accelerometer is fixed on a flat plate with a diameter of 250 ± 50 mm, the central part of which must be rigid up to a diameter of 75 mm and must include a rigid device to protect the accelerometer. This plate must be placed in the middle of the seat surface between the seat and the driver and have a non-slip surface.

To measure the vibrations at the seat attachment, an accelerometer must be fixed near to this attachment at a point not more than 100 mm from the median longitudinal plane of the tractor and not outside the vertical projection of the seat surface on the tractor.

✓ 78/764/EEC
 → 1 83/190/EEC Art. 1 and Annex

2.5.3.3.3. Measurement of vibration acceleration

The accelerometer and the associated amplifying and transmitting equipment must respond to vibrations with an rms value of 0.05 m/s^2 , and be capable of measuring vibrations with an r.m.s. value of 5 m/s^2 and a crest factor (ratio of peak to r.m.s. value) of 3 without distortion and with a maximum error of ± 2.5 % over the range 1 to $80 \Rightarrow_1 \text{Hz} \Leftarrow$.

2.5.3.3.4. Magnetic tape recorder

If a tape recorder is used, it must have a maximum reproduction error of ± 3.5 % in a frequency range of 1 to 80 Hz, including change of tape speed during replay for analysis.

- 2.5.3.3.5. Vibration meter
- 2.5.3.3.5.1. Vibrations of more than 10 Hz may be disregarded. It is therefore permissible to connect upstream of the measuring instrument a low-pass filter with a cut-out frequency of about 10 Hz and an attenuation of 12 dB per octave.
- 2.5.3.3.5.2. This instrument must incorporate an electronic weighting filter between the sensor and the integrator device. The filter must correspond to the curve shown in Appendix $\underline{\$9}$ and the margin of error must be ± 0.5 dB in the 2 to 4 Hz frequency band and ± 2 dB for the other frequencies.
- 2.5.3.3.5.3. The electronic measuring device must be capable of indicating either:
 - the integral (I) of the square of the weighted vibration acceleration (a_w) for a test time (T)

$$I = (\int_{0}^{T} a_{w})^{2} dt$$

- or the square root of that integral
- or directly the r.m.s. value of the weighted vibration acceleration (a_{weff})

$$a_{weff} = {}^2\sqrt{I/T} = ({}^2\sqrt{I}/{}^2\sqrt{T})$$

 \clubsuit 83/190/EEC Art. 1 and Annex

The inaccuracy of the entire system for measuring the rms value of the acceleration must not exceed \pm 5% of the measured value.

↓ 78/764/EEC

2.5.3.3.6. Calibration

All instruments must be regularly calibrated.

2.5.3.3.7. Evaluation of vibration tests

 \blacktriangleright 83/190/EEC Art. 1 and Annex

2.5.3.3.7.1. During each test, the weighted vibration acceleration for the whole test time must be determined with the vibration meter specified in <u>Item point</u> 2.5.3.3.5.

- 2.5.3.3.7.2. The test report must give the arithmetic mean value of the rms values of the weighted seat vibration acceleration (a_{wS}) for both the light driver and the heavy driver. The test report must also give the ratio of the arithmetic mean of the rms values of the weighted vibration acceleration measured on the seat (a_{wS}) to the arithmetic mean of the rms values of the weighted vibration acceleration acceleration acceleration measured at the seat attachment (a_{wB}) . This ratio shall be given to two decimal places.
- 2.5.3.3.7.3. The ambient temperature during the vibration test must be measured and shown in the report.
- 2.5.4. Vibration test for tractor seats in accordance with their intended use

↓ 78/764/EEC (adapted)

- 2.5.4.1. A seat intended for use on a class (or classes) of Category A tractors must be tested on a vibration stand using the appropriate set value signals.
- 2.5.4.2. A seat intended for use on a type of Category B tractor must be tested on a standard roadway with a tractor of that type. However, a simulation test may also be carried out using a set value signal corresponding to the acceleration curve which was determined during the standard roadway test with the type of tractor for which the seat is intended.
- 2.5.4.3. A seat intended for use only on a particular type of Category A tractor may also be tested in accordance with the requirements of <u>point</u> 2.5.4.2. In this case, <u>EC</u> component type-approval will ⊠ shall ⊠ be granted only for the type of tractor for which the test seat is intended.

▶ 83/190/EEC Art. 1 and Annex

- 2.5.5. Procedure used for determining the weighted vibration acceleration of seats intended for Category A tractors
- 2.5.5.1. The test on the vibration test stand shall be carried out in accordance with $\frac{\text{Item}}{\text{point}}$ 2.5.3.1. the value a_{wB} actually occurring at the seat attachment during measurement must be determined. In the case of deviations from the reference value:

 \clubsuit 88/465/EEC Art. 1 and Annex

- $a_{wB}^* = 2,05 \text{ m/s}^2$ for class I, category A tractors.
- $a_{wB}^* = 1.5 \text{ m/s}^2$ for class II, category A tractors.
- $a_{wB}^* = 1,3 \text{ m/s}^2$ for class III, category A tractors.

♦ 83/190/EEC Art. 1 and Annex (adapted)

The acceleration a_{wS} measured at the driver's seat must be corrected in accordance with the following equation:

 $\frac{(\mathbf{a}_{\mathrm{wS}}^{*}) = (\mathbf{a}_{\mathrm{wS}})(\mathbf{a}_{\mathrm{wB}}^{*})/(\mathbf{a}_{\mathrm{wB}})}{(\mathbf{a}_{\mathrm{wB}})} \boxtimes \mathbf{a}_{\mathrm{wS}}^{*} = (\mathbf{a}_{\mathrm{wS}})((\mathbf{a}_{\mathrm{wB}}^{*})/(\mathbf{a}_{\mathrm{wB}})) \boxtimes$

 Ψ 88/465/EEC Art. 1 and Annex (adapted)

2.5.5.2. For each of the two drivers provided for in point 2.5.3.3.1, the weighted acceleration of the vibratory movement shall be measured at the seat for 28 seconds in the case of classes I and III, and for 31 seconds in the case of class II. The measurement must begin at the set value signal corresponding to t = 0 seconds and end at the set value signal corresponding to t = 28 or 31 seconds (see table in Appendices 4, 5a and 5b \boxtimes 4, 5 and 6 \bigotimes of this Annex).

At least two test runs must be carried out. The measured values must not deviate from the arithmetical mean by more than ± 5 %. Each complete set point sequence must be reproduced in 28 or 31 ± 0.5 s.

♦ 83/190/EEC Art. 1 and Annex

- 2.5.6. Procedure used for determining the weighted vibration acceleration of seats intended for Category B tractors
- 2.5.6.1. In accordance with the requirements of <u>Item point</u> 2.5.4.2, the seat vibration tests are not applicable to a class of tractors, but only to each tractor type for which the seat is intended.
- 2.5.6.2. The standard roadway test must be carried out in accordance with the requirements of $\frac{\text{Items}}{\text{Items}}$ points 2.5.3.2 and 2.5.3.3. The vibration acceleration measured on the driver's seat (a_{ws}) need not be corrected. At least two test runs must be carried out on the standard roadway. The measured values must not deviate from the arithmetic mean by more than $\pm 10\%$.
- 2.5.6.3. If a bench test is conducted, it must be carried out in association with a standard roadway test pursuant to the requirements of <u>Items</u> points 2.5.3.1 and 2.5.3.3.
- 2.5.6.4. The vibration test stand shall be adjusted in such a way that the rms value of the weighted vibration acceleration recorded at the seat attachment (a_{wB}) deviates by less than \pm 5 % from the rms value of the weighted vibration acceleration at the seat attachment recorded on the standard roadway (a_{wF}^*) .

In the event of deviations from the value (a_{wF}^*) measured at the seat attachment during the test run, the weighted vibration acceleration recorded at the driver's seat during the test on the test stand must be corrected as follows:

 $\underline{\underline{f}} a_{wS}^* \underline{\underline{f}} = (a_{wS})((a_{wF}^*)/(a_{wB})).$

Each of the tests on the test stand must be carried out twice. The measured values must not deviate from the arithmetic mean by more than \pm 5%.

- 2.5.7. Test for determining the damping characteristics in the resonance range
- 2.5.7.1. This test is carried out on the test stand as specified in <u>Item point</u> 2.5.3.1. However, account must be taken of the following:

↓ 83/190/EEC Art. 1 and Annex (adapted) →1 88/465/EEC Art. 1 and Annex

2.5.7.2. Instead of the set values specified in the second paragraph of <u>Hem point</u> 2.5.3.1.1 (see Appendices $\rightarrow_1 4$, 5a and 5b \boxtimes 4, 5 and 6 \bigotimes \leftarrow to this Annex), sinusoidal oscillations of ± 15 mm amplitude with a frequency of 0,5 to 2 Hz are generated. The frequency range is to be run through with a constant rate of frequency change in not less than 60 seconds or at intervals no greater than 0,05 Hz with increasing frequency, and in an identical manner with decreasing frequency. During this measurement, it is permissible to filter the signals emitted by the accelerometers through a bandpass filter with cut-off frequencies of 0,5 and 2,0 Hz.

↓ 83/190/EEC Art. 1 and Annex

- 2.5.7.3. The seat is to be loaded with a ballast of 40 kg in the first test and with a mass of 80 kg in the second test; the ballast is to be applied on the device illustrated in Figure 1 of Appendix 1, with the same line of action of the force as when determining the seat reference point.
- 2.5.7.4. The ratio of the rms values of the vibration acceleration on the seat surface a_{wS} to those at the seat attachment a_{wB} :

 $V = (a_{wS})/(a_{wB})$

is to be determined in the frequency range from 0,5 to 2,0 Hz at intervals no greater than 0,05 Hz.

2.5.7.5. The ratio measured must be given in the test report to two decimal places.

3. <u>EEC</u> COMPONENT TYPE-APPROVAL AND MARKING REQUIREMENTS

3.1. Conditions necessary for <u>EEC</u> component type-approval of a seat

To be granted \underline{EEC} \underline{EC} component type-approval, a seat must, in addition to fulfilling the requirements set out above, satisfy the following conditions:

- 3.1.1. the range of adjustment as a function of the driver's mass must extend from at least 50 to 120 kg;
- 3.1.2. the change in the angle of inclination measured during the lateral stability test must not exceed 5°;
- 3.1.3. neither of the two values described in <u>point</u> 2.5.3.3.7.2 must exceed 1.25 m/s^2

 \clubsuit 83/190/EEC Art. 1 and Annex

3.1.4. <u> \pm </u>the ratio referred to in <u>Hems points</u> 2.5.7.4 and 2.5.7.5 shall not exceed the value of 2.

↓ 78/764/EEC

3.2. Application for <u>**EEC</u>** <u>EC</u> component type-approval</u>

- 3.2.1. The application for $\underline{\text{EC}}$ $\underline{\text{EC}}$ component type-approval must be submitted by the owner of the trade name or mark or by his authoriszed representative.
- 3.2.2. For each type of driver's seat, the application must be accompanied by:
- 3.2.2.1. a brief technical description, stating in particular the type of tractor or tractors for which it is intended;
- 3.2.2.2. drawings in triplicate, sufficiently detailed to permit identification of the type of seat and showing in particular its dimensions, its weight, its suspension system and its means of attachment;
- 3.2.2.3. at least one seat;
- 3.2.2.4. one tractor (if necessary) representative of the type of tractor for which the seat is intended.

3.3. Inscriptions

3.3.1. The seat submitted for $\underline{\text{EC}}$ <u>EC</u> component type-approval must bear the applicant's trade name or mark, clearly and indelibly inscribed.

3.3.2. On each seat there must be a space large enough for the $\underline{\text{EC}}$ $\underline{\text{EC}}$ component typeapproval mark; this space must be shown on the drawings referred to in <u>point</u> 3.2.2.2.

3.4. <u>**EEC**</u> <u>EC</u> component type-approval

- 3.4.1. If the seat submitted in accordance with <u>point</u> 3.2 complies with the requirements of <u>points</u> 3.1 and 3.3, <u>EEC</u> <u>EC</u> component type-approval is granted and a component type-approval number allocated.
- 3.4.2. This number must not be allocated to any other type of seat.

3.5. Marking

- 3.5.1. Every seat conforming to a type approved in pursuance of this Directive must bear an $\frac{EEC}{EC}$ component type-approval mark.
- 3.5.2. This mark must consist of:

↓ 78/764/EEC (adapted)

3.5.2.1. a rectangle surrounding the lower-case letter 'e' followed by the distinguishing number or letters of the Member State which has granted the component type-approval:

↓ 1985 Act of Accession, Art. 26 and Annex I, p. 214

- 1 for Germany
- 2 for France
- 3 for Italy
- 4 for the Netherlands

for Sweden

5

◆ 1994 Act of Accession, Art. 29 and Annex I, p. 206

↓ 1985 Act of Accession, Art. 26 and Annex I, p. 214

6 for Belgium

\checkmark 2003 Act of Accession, Art. 20 and Annex II, pt. 1(A)(27), p. 61

- 7 for Hungary
- 8 for the Czech Republic

↓ 1985 Act of Accession, Art. 26 and Annex I, p. 214

- 9 for Spain
- 11 for the United Kingdom

↓ 1994 Act of Accession, Art. 29 and Annex I, p. 206

↓ 1985 Act of Accession, Art. 26 and Annex I, p. 214

13 for Luxembourg

for Finland

for Austria

12

17

◆ 1994 Act of Accession, Art. 29 and Annex I, p. 206

↓ 1985 Act of Accession, Art. 26 and Annex I, p. 214

DK18 for Denmark

◆ 2006/96/EC Art. 1 and Annex, pt. A(26)

19 for Romania

| 20 for Poland | ◆ 2003 Act of Accession, Art. 20 and Annex II, pt. 1(A)(27), p. 61 | | | |
|-------------------------|---|--|--|--|
| <u>₽21</u> for Portugal | ↓ 1985 Act of Accession, Art. 26 and Annex I, p. 214 | | | |
| <u>EL23</u> for Greece | ↓ 87/354/EEC Art. 1 and Annex pt. 9(f) | | | |
| HRL24 for Ireland | ↓ 1985 Act of Accession, Art. 26 and Annex I, p. 214 | | | |
| | | | | |
| 26 for Slovenia | | | | |
| 27 for Slovakia | | | | |
| 29 for Estonia | | | | |
| 32 for Latvia | | | | |
| | ↓ 2006/96/EC Art. 1 and Annex, pt. A(26) | | | |
| 34 for Bulgaria | | | | |
| | ↓ 2003 Act of Accession, Art. 20 and Annex II, pt. 1(A)(27), p. 61 | | | |
| 36 for Lithuania | | | | |
| <u>E¥49</u> for Cyprus | | | | |
| <u>MT50</u> for Malta | | | | |

↓ 78/764/EEC

- 3.5.2.2. the <u>EEC</u> component type-approval number which corresponds to the number of the <u>EEC</u> <u>EC</u> component type-approval certificate issued for the type of seat, below and close to the rectangle; and
- 3.5.2.3. the indication, above and close to the rectangle, of the type of Category A tractor for which the seat is intended. This is to be shown as follows:

for Category A tractors in Class I: I.

for Category A tractors in Classes I and II: I and II.

 \checkmark 88/465/EEC Art. 1 and Annex (adapted)

 \boxtimes for Category A tractors in Classes II and III: II and III.

↓ 78/764/EEC

If no indication is given above the rectangle, the seat is intended for a Category B tractor.

- 3.5.3. The $\underline{\text{EC}}$ component type-approval mark must be affixed to the seat in such a way that it is indelible and clearly legible even when the seat is mounted on the tractor.
- 3.5.4. An example of the <u>EC</u> component type-approval mark is given in Appendix <u> $\pm\pm9$ </u>.
- 3.5.5. The dimensions of the various parts of this mark must not be smaller than the minimum dimensions specified for marking as illustrated in Appendix $\underline{119}$.

Appendix 1

Method of determining the seat reference point (S)

1. DEFINITION OF THE REFERENCE POINT (S)

'Seat reference point' (S) means the point of intersection in the median longitudinal plane of the seat between the tangential plane at the base of the padded backrest and a horizontal plane. This horizontal plane intersects the lower surface of the seat 150 mm in front of the seat reference point (S).

2. DEVICE FOR DETERMINING THE SEAT REFERENCE POINT (S)

The device illustrated in Figure 1 consists of a seat pan board and backrest boards. The lower backrest boards must be hinged in the region of the ischium humps (A) and the loin (B), the hinge (B) being adjustable in height.

3. METHOD OF DETERMINING THE SEAT REFERENCE POINT (S)

The seat reference point (S) must be obtained by using the device illustrated in Figures 1 and 2, which simulates loading by a human occupant. The device must be positioned on the seat. It must then be loaded with a force of 550 N at a point 50 mm in front of hinge (A) and two parts of the backrest lightly pressed tangentially against the padded backrest.

If it is not possible to determine definite tangents to each area of the padded backrest (below and above the lumbar region) the following procedure must be adopted:

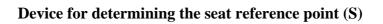
(a) where there is no possibility of defining the tangent to the lowest possible area:

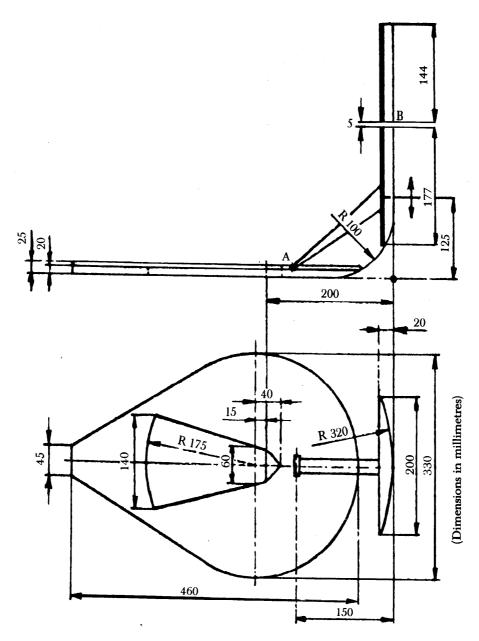
the lower part of the backrest board in a vertical position must be lightly pressed against the padded backrest;

(b) where there is no possibility of defining the tangent to the highest possible area: =

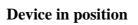
if the lower part of the backrest board is vertical, the hinge must be fixed at a height of 230 mm above the seat reference point (S). The two parts of the backrest board in a vertical position must then be lightly pressed tangentially against the padded backrest.

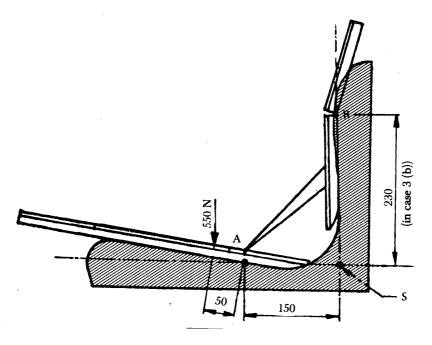






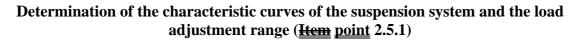


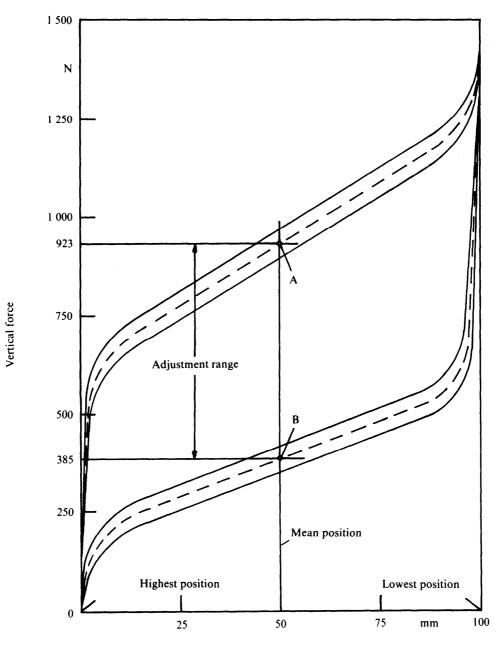




♦ 83/190/EEC Art. 1 and Annex

Appendix 2





Suspension travel

✓ 78/764/EEC
 → 1 83/190/EEC Art. 1 and Annex

Appendix 3

Test on standard roadway

Table of elevation ordinates in relation to \rightarrow_1 a \leftarrow basic level defining the surface of each strip of the roadway (<u>point</u> 2.5.3.2.1)

 \clubsuit 83/190/EEC Art. 1 and Annex

D = distance from the beginning of the standard roadway (in metres)

↓ 78/764/EEC (adapted)

| L | = | ordinate of the left-hand strip (mm) |
|---|---|--|
| _ | | ······································ |

R = ordinate of the right-hand strip (mm)

| L | R |
|-----|---|
| 115 | 140 |
| 110 | 125 |
| 110 | 140 |
| 115 | 135 |
| 120 | 135 |
| 120 | 125 |
| 125 | 135 |
| 120 | 125 |
| 120 | 115 |
| 115 | 110 |
| 110 | 100 |
| 110 | 110 |
| 110 | 110 |
| | 115 110 110 115 120 120 125 120 120 120 115 110 110 |

| 2.08 | 115 | 115 |
|------|-----|-----|
| 2.24 | 110 | 110 |
| 2.40 | 100 | 110 |
| 2.56 | 100 | 100 |
| 2.72 | 95 | 110 |
| 2.88 | 95 | 95 |
| 3.04 | 90 | 95 |
| 3.20 | 90 | 100 |
| 3.36 | 85 | 100 |
| 3.52 | 90 | 100 |
| 3.68 | 90 | 115 |
| 3.84 | 95 | 110 |
| 4.00 | 90 | 110 |
| 4.16 | 90 | 95 |
| 4.32 | 95 | 100 |
| 4.48 | 100 | 100 |
| 4.64 | 100 | 90 |
| 4.90 | 90 | 90 |
| 4.96 | 90 | 90 |
| 5.12 | 95 | 90 |
| 5.28 | 95 | 70 |
| 5.44 | 95 | 65 |
| 5.60 | 90 | 50 |
| 5.76 | 95 | 50 |
| 5.92 | 85 | 50 |
| 6.08 | 85 | 55 |
| 6.24 | 75 | 55 |
| | | |

| 6.40 | 75 | 55 |
|-------|-----|-----|
| 6.56 | 70 | 65 |
| 6.72 | 75 | 75 |
| 6.88 | 65 | 75 |
| 7.04 | 65 | 85 |
| 7.20 | 65 | 90 |
| 7.36 | 75 | 95 |
| 7.52 | 75 | 100 |
| 7.68 | 95 | 95 |
| 7.84 | 115 | 110 |
| 8.00 | 115 | 100 |
| 8.16 | 125 | 110 |
| 8.32 | 110 | 100 |
| 8.48 | 110 | 100 |
| 8.64 | 110 | 95 |
| 8.80 | 110 | 95 |
| 8.96 | 110 | 95 |
| 9.12 | 110 | 100 |
| 9.28 | 125 | 90 |
| 9.44 | 120 | 100 |
| 9.60 | 135 | 95 |
| 9.76 | 120 | 95 |
| 9.92 | 120 | 95 |
| 10.08 | 120 | 95 |
| 10.24 | 115 | 85 |
| 10.40 | 115 | 90 |
| 10.56 | 115 | 85 |
| | | |

| 10.72 | 115 | 90 |
|-------|-----|-----|
| 10.88 | 120 | 90 |
| 11.04 | 110 | 75 |
| 11.20 | 110 | 75 |
| 11.36 | 100 | 85 |
| 11.52 | 110 | 85 |
| 11.68 | 95 | 90 |
| 11.84 | 95 | 90 |
| 12.00 | 95 | 85 |
| 12.16 | 100 | 95 |
| 12.32 | 100 | 90 |
| 12.48 | 95 | 85 |
| 12.64 | 95 | 85 |
| 12.80 | 95 | 90 |
| 12.96 | 85 | 90 |
| 13.12 | 85 | 85 |
| 13.28 | 75 | 90 |
| 13.44 | 75 | 95 |
| 13.60 | 75 | 90 |
| 13.76 | 70 | 75 |
| 13.92 | 70 | 90 |
| 14.08 | 70 | 100 |
| 14.24 | 70 | 110 |
| 14.40 | 65 | 95 |
| 14.56 | 65 | 100 |
| 14.72 | 65 | 90 |
| 14.88 | 65 | 90 |
| | | |

| 15.04 | 65 | 85 |
|-------|----|----|
| 15.20 | 55 | 85 |
| 15.36 | 65 | 85 |
| 15.52 | 65 | 85 |
| 15.68 | 55 | 75 |
| 15.84 | 55 | 85 |
| 16.00 | 65 | 75 |
| 16.16 | 55 | 85 |
| 16.32 | 50 | 75 |
| 16.48 | 55 | 75 |
| 16.64 | 65 | 75 |
| 16.80 | 65 | 75 |
| 16.96 | 65 | 85 |
| 17.12 | 65 | 70 |
| 17·28 | 65 | 65 |
| 17·44 | 65 | 75 |
| 17.60 | 65 | 75 |
| 17.76 | 50 | 75 |
| 17.92 | 55 | 85 |
| 18.08 | 55 | 85 |
| 18.24 | 65 | 85 |
| 18.40 | 70 | 75 |
| 18.56 | 75 | 75 |
| 18.72 | 95 | 75 |
| 18.88 | 90 | 75 |
| 19.04 | 90 | 70 |
| 19.20 | 95 | 70 |
| | | |

| 19·36 | 85 | 70 |
|-------|-----|----|
| 19.52 | 85 | 75 |
| 19.68 | 75 | 85 |
| 19.84 | 85 | 85 |
| 20.00 | 75 | 90 |
| 20.16 | 85 | 85 |
| 20.32 | 75 | 70 |
| 20.48 | 70 | 75 |
| 20.64 | 65 | 75 |
| 20.80 | 70 | 75 |
| 20.96 | 65 | 75 |
| 21.12 | 70 | 75 |
| 21.28 | 70 | 85 |
| 21.44 | 70 | 85 |
| 21.60 | 70 | 90 |
| 21.76 | 75 | 95 |
| 21.92 | 75 | 95 |
| 22.08 | 75 | 90 |
| 22.24 | 85 | 90 |
| 22.40 | 85 | 95 |
| 22.58 | 90 | 85 |
| 22.72 | 90 | 85 |
| 22.88 | 95 | 85 |
| 23.04 | 95 | 85 |
| 23.20 | 100 | 85 |
| 23.36 | 100 | 75 |
| 23.52 | 110 | 85 |
| | | |

| 23.68 | 110 | 85 |
|-------|-----|-----|
| 23.84 | 110 | 85 |
| 24.00 | 100 | 75 |
| 24.16 | 100 | 75 |
| 24.32 | 95 | 70 |
| 24.48 | 100 | 70 |
| 24.64 | 100 | 70 |
| 24.80 | 115 | 75 |
| 24.96 | 110 | 75 |
| 25.12 | 110 | 85 |
| 25.28 | 100 | 75 |
| 25.44 | 110 | 95 |
| 25.60 | 100 | 95 |
| 25.76 | 115 | 100 |
| 25.92 | 115 | 100 |
| 26.08 | 110 | 95 |
| 26.24 | 115 | 95 |
| 26.40 | 110 | 95 |
| 26.56 | 100 | 95 |
| 26.72 | 100 | 95 |
| 26.88 | 100 | 100 |
| 27.04 | 100 | 95 |
| 27.20 | 100 | 95 |
| 27.36 | 110 | 90 |
| 27.52 | 115 | 90 |
| 27.68 | 115 | 85 |
| 27.84 | 110 | 90 |
| | | |

| 28.00 | 110 | 85 |
|-------|-----|----|
| 28.16 | 110 | 85 |
| 28.32 | 100 | 85 |
| 28.48 | 100 | 90 |
| 28.64 | 90 | 85 |
| 28.80 | 90 | 75 |
| 28.96 | 75 | 90 |
| 29.12 | 75 | 75 |
| 29.28 | 75 | 75 |
| 29.44 | 70 | 75 |
| 29.60 | 75 | 75 |
| 29.76 | 75 | 85 |
| 29.92 | 85 | 75 |
| 30.08 | 75 | 75 |
| 30.24 | 85 | 75 |
| 30.40 | 75 | 75 |
| 30.56 | 70 | 75 |
| 30.72 | 75 | 75 |
| 30.88 | 85 | 75 |
| 31.04 | 90 | 75 |
| 31.20 | 90 | 85 |
| 31.36 | 100 | 75 |
| 31.52 | 100 | 75 |
| 31.68 | 120 | 85 |
| 31.84 | 115 | 75 |
| 32.00 | 120 | 85 |
| 32.16 | 120 | 85 |
| | | |

| 32.32 | 135 | 90 |
|-------|-----|-----|
| 32.48 | 145 | 95 |
| 32.64 | 160 | 95 |
| 32.80 | 165 | 90 |
| 32.96 | 155 | 90 |
| 33.12 | 145 | 90 |
| 33.28 | 140 | 95 |
| 33.44 | 140 | 85 |
| 33.60 | 140 | 85 |
| 33.76 | 125 | 75 |
| 33.92 | 125 | 75 |
| 34.08 | 115 | 85 |
| 34.24 | 120 | 75 |
| 34.40 | 125 | 75 |
| 34.56 | 115 | 85 |
| 34.72 | 115 | 75 |
| 34.88 | 115 | 90 |
| 35.04 | 115 | 100 |
| 35.20 | 120 | 100 |
| 35.36 | 120 | 100 |
| 35.52 | 135 | 95 |
| 35.68 | 135 | 95 |
| 35.84 | 135 | 95 |
| 36.00 | 135 | 90 |
| 36.16 | 120 | 75 |
| 36.32 | 115 | 75 |
| 36.48 | 110 | 70 |
| | | |

| 36.64 | 100 | 65 |
|-------|-----|----|
| 36.80 | 110 | 55 |
| 36.96 | 115 | 55 |
| 37.12 | 100 | 50 |
| 37.28 | 115 | 50 |
| 37.44 | 110 | 50 |
| 37.60 | 100 | 65 |
| 37.76 | 90 | 55 |
| 37.92 | 95 | 55 |
| 38.08 | 90 | 35 |
| 38.24 | 90 | 35 |
| 38.40 | 110 | 35 |
| 38.56 | 100 | 35 |
| 38.72 | 115 | 35 |
| 38.88 | 100 | 35 |
| 39.04 | 100 | 35 |
| 39.20 | 110 | 30 |
| 39.36 | 110 | 45 |
| 39.52 | 110 | 50 |
| 39.68 | 100 | 55 |
| 39.84 | 110 | 50 |
| 40.00 | 90 | 55 |
| 40.16 | 85 | 55 |
| 40.32 | 90 | 65 |
| 40.48 | 90 | 65 |
| 40.64 | 90 | 70 |
| 40.80 | 95 | 75 |
| | | |

| 40.96 | 95 | 75 |
|-------|-----|-----|
| 41.12 | 95 | 75 |
| 41.28 | 90 | 90 |
| 41.44 | 90 | 95 |
| 41.60 | 85 | 95 |
| 41.76 | 85 | 100 |
| 41.92 | 90 | 100 |
| 42.08 | 90 | 95 |
| 42.24 | 85 | 100 |
| 42.40 | 85 | 110 |
| 42.56 | 95 | 110 |
| 42.72 | 95 | 115 |
| 42.88 | 95 | 115 |
| 43.04 | 100 | 100 |
| 43.20 | 100 | 95 |
| 43.36 | 100 | 95 |
| 43.52 | 100 | 90 |
| 43.68 | 110 | 95 |
| 43.84 | 100 | 100 |
| 44.00 | 110 | 90 |
| 44·16 | 100 | 85 |
| 44.32 | 110 | 90 |
| 44.48 | 110 | 85 |
| 44.64 | 100 | 85 |
| 44.80 | 100 | 90 |
| 44.96 | 95 | 90 |
| 45.12 | 90 | 95 |
| | | |

| 45.28 | 90 | 100 |
|----------------------------|-----|-----|
| 45.44 | 95 | 100 |
| 45.60 | 90 | 90 |
| 45.76 | 85 | 90 |
| 45.92 | 75 | 90 |
| 46.08 | 85 | 90 |
| 46.24 | 75 | 90 |
| 46.40 | 75 | 90 |
| 46.54 | 75 | 90 |
| 46.72 | 85 | 90 |
| 46.88 | 85 | 85 |
| 47.04 | 90 | 85 |
| 47.20 | 75 | 85 |
| 47.36 | 65 | 75 |
| 47.52 | 70 | 70 |
| 47.68 | 70 | 75 |
| 47.84 | 70 | 75 |
| 48.00 | 75 | 85 |
| 48.16 | 90 | 95 |
| 48.32 | 95 | 95 |
| 48.48 | 100 | 120 |
| 48.64 | 110 | 100 |
| 48·30 ⊠ 48·80 ≪ | 115 | 100 |
| 48.96 | 115 | 115 |
| 49.12 | 120 | 115 |
| 49.28 | 120 | 110 |
| 49.44 | 115 | 95 |
| | · | |

| 49.60 | 115 | 90 |
|-------|-----|-----|
| 49.76 | 115 | 90 |
| 49.92 | 110 | 95 |
| 50.08 | 110 | 100 |
| 50.24 | 100 | 110 |
| 50.40 | 100 | 120 |
| 50.56 | 95 | 120 |
| 50.72 | 95 | 115 |
| 50.88 | 95 | 120 |
| 51.04 | 95 | 120 |
| 51.20 | 90 | 135 |
| 51.36 | 95 | 125 |
| 51.52 | 95 | 120 |
| 51.68 | 100 | 120 |
| 51.84 | 100 | 120 |
| 52.00 | 100 | 120 |
| 52.16 | 100 | 125 |
| 52.32 | 110 | 125 |
| 52.48 | 110 | 125 |
| 52.64 | 100 | 125 |
| 52.80 | 100 | 120 |
| 52.96 | 100 | 120 |
| 53.12 | 110 | 115 |
| 53.28 | 100 | 110 |
| 53.44 | 110 | 110 |
| 53.60 | 95 | 110 |
| 53.76 | 95 | 110 |
| | | |

| 53.92 | 100 | 110 |
|-------|-----|-----|
| 54.08 | 95 | 100 |
| 54.24 | 100 | 100 |
| 54.40 | 100 | 100 |
| 54.56 | 100 | 100 |
| 54.72 | 95 | 100 |
| 54.88 | 100 | 100 |
| 55.04 | 100 | 115 |
| 55.20 | 110 | 115 |
| 55.36 | 100 | 110 |
| 55.52 | 110 | 100 |
| 55.68 | 100 | 110 |
| 55.84 | 100 | 110 |
| 56.00 | 100 | 110 |
| 56.16 | 95 | 115 |
| 56.32 | 90 | 110 |
| 56.48 | 95 | 110 |
| 56.64 | 95 | 110 |
| 56.80 | 90 | 100 |
| 56.96 | 100 | 100 |
| 57.12 | 100 | 95 |
| 57.28 | 95 | 100 |
| 57.44 | 100 | 100 |
| 57.60 | 95 | 115 |
| 57.76 | 85 | 110 |
| 57.92 | 90 | 115 |
| 58.08 | 90 | 110 |
| | | |

| 58.24 | 90 | 100 |
|-------|-----|-----|
| 58.40 | 85 | 95 |
| 58.56 | 90 | 95 |
| 58.72 | 85 | 90 |
| 58.88 | 90 | 90 |
| 59.04 | 90 | 95 |
| 59.20 | 90 | 115 |
| 59.36 | 90 | 115 |
| 59.52 | 90 | 115 |
| 59.68 | 85 | 110 |
| 59.84 | 75 | 110 |
| 60.00 | 90 | 115 |
| 60.16 | 90 | 120 |
| 60.32 | 90 | 120 |
| 60.48 | 90 | 120 |
| 60.64 | 95 | 120 |
| 60.80 | 95 | 120 |
| 60.96 | 90 | 120 |
| 61.12 | 90 | 115 |
| 61.28 | 95 | 110 |
| 61.44 | 95 | 110 |
| 61.60 | 100 | 100 |
| 61.76 | 110 | 100 |
| 61.92 | 100 | 100 |
| 62.08 | 100 | 100 |
| 62.24 | 95 | 100 |
| 62.40 | 95 | 100 |
| | | |

| 62.56 | 95 | 100 |
|-------|----|-----|
| 62.72 | 90 | 100 |
| 62.88 | 90 | 100 |
| 63.04 | 90 | 100 |
| 63·20 | 90 | 90 |
| 63.36 | 90 | 90 |
| 63.52 | 85 | 90 |
| 63.68 | 85 | 90 |
| 63.84 | 75 | 85 |
| 64.00 | 75 | 85 |
| 64.16 | 75 | 75 |
| 64.32 | 75 | 75 |
| 64·48 | 70 | 75 |
| 64.64 | 70 | 70 |
| 64.80 | 70 | 55 |
| 64.96 | 70 | 45 |
| 65.12 | 65 | 55 |
| 65.28 | 65 | 55 |
| 65.44 | 65 | 65 |
| 65.60 | 55 | 70 |
| 65.76 | 55 | 75 |
| 65.92 | 55 | 75 |
| 66.08 | 55 | 75 |
| 66·24 | 55 | 85 |
| 66.46 | 55 | 85 |
| 66.56 | 65 | 90 |
| 66.72 | 70 | 90 |
| | | |

| 66.88 | 70 | 110 |
|----------------------------|----|-----|
| 67.04 | 65 | 100 |
| 67.20 | 55 | 100 |
| 67.36 | 65 | 100 |
| 67.52 | 50 | 100 |
| 67.68 | 50 | 85 |
| 67.84 | 50 | 90 |
| 68.00 | 50 | 100 |
| 68.16 | 55 | 100 |
| 68.32 | 55 | 95 |
| 68.48 | 65 | 90 |
| 68.64 | 50 | 85 |
| 68.80 | 50 | 70 |
| 68.96 | 50 | 70 |
| 69.12 | 50 | 65 |
| 69.28 | 50 | 55 |
| 69.44 | 45 | 50 |
| 69.60 | 35 | 50 |
| 69.76 | 35 | 55 |
| 69.92 | 35 | 65 |
| 70.08 | 35 | 65 |
| 70.24 | 35 | 65 |
| 70.40 | 35 | 55 |
| 70•58 ⊠ 70•56 ≪ | 45 | 55 |
| 70.72 | 50 | 55 |
| 70.88 | 50 | 50 |
| 71.04 | 50 | 45 |
| | | |

| 71.20 | 50 | 45 |
|-------|-----|------------------------|
| 71.36 | 50 | 50 |
| 71.52 | 45 | 45 |
| 71.68 | 45 | 55 |
| 71.84 | 55 | 65 |
| 72.00 | 55 | 65 |
| 72.16 | 70 | 65 |
| 72.32 | 70 | 75 |
| 72.48 | 75 | 85 |
| 72.64 | 75 | 85 |
| 72.80 | 75 | 90 |
| 72.96 | 85 | 95 |
| 73.12 | 90 | 100 |
| 73.28 | 90 | 110 |
| 73.44 | 90 | 115 |
| 73.60 | 90 | 120 |
| 73.76 | 90 | 115 |
| 73.92 | 90 | 115 |
| 74.08 | 110 | 115 |
| 74.24 | 100 | 100 ⊠ 110 ⊠ |
| 74.40 | 100 | 110 |
| 74.56 | 100 | 110 |
| 74.72 | 95 | 115 |
| 74.88 | 95 | 120 |
| 75.04 | 95 | 125 |
| 75.20 | 95 | 135 |
| 75.36 | 100 | 135 |
| | | |

| 75.52 | 100 | 140 |
|----------------------------|-----|-----|
| 75.68 | 100 | 140 |
| 75.84 | 100 | 140 |
| 76.00 | 110 | 135 |
| 76.16 | 100 | 125 |
| 76.32 | 100 | 125 |
| 76.48 | 100 | 125 |
| 76.64 | 110 | 125 |
| 76.80 | 115 | 125 |
| 76.96 | 120 | 125 |
| 77.12 | 120 | 125 |
| 77.28 | 120 | 135 |
| 77.44 | 110 | 125 |
| 77.60 | 100 | 125 |
| 77.76 | 120 | 135 |
| 77.92 | 120 | 125 |
| 78-03 🗵 78·08 🖾 | 120 | 125 |
| 78.24 | 115 | 125 |
| 78.40 | 115 | 120 |
| 78.56 | 115 | 120 |
| 78.72 | 110 | 120 |
| 78.88 | 100 | 120 |
| 79.04 | 100 | 120 |
| 79.20 | 95 | 120 |
| 79.36 | 95 | 120 |
| 79.52 | 95 | 125 |
| 79.68 | 95 | 125 |
| | | |

| 79.84 | 100 | 120 |
|----------------------------|-----|-----|
| 80.00 | 95 | 125 |
| 80.16 | 95 | 125 |
| 80.32 | 95 | 125 |
| 80.48 | 100 | 120 |
| 80.64 | 100 | 125 |
| 80.80 | 100 | 125 |
| 80.96 | 110 | 125 |
| 81.12 | 115 | 135 |
| 81.28 | 110 | 140 |
| 81.44 | 115 | 140 |
| 81.60 | 110 | 140 |
| 81.76 | 115 | 140 |
| 81.92 | 110 | 140 |
| 82.08 | 110 | 140 |
| 82.24 | 110 | 135 |
| 82.40 | 110 | 135 |
| 82.56 | 100 | 125 |
| 87·72 ⊠ 82·72 ≪ | 110 | 125 |
| 82.88 | 110 | 125 |
| 83.04 | 100 | 125 |
| 83.20 | 100 | 120 |
| 83.36 | 100 | 125 |
| 83.52 | 100 | 120 |
| 83.68 | 100 | 135 |
| 83.84 | 95 | 140 |
| 84.00 | 100 | 135 |
| | | |

| 84.16 | 110 | 140 |
|-------|-----|-----|
| 84.32 | 110 | 140 |
| 84.48 | 110 | 140 |
| 84.64 | 110 | 140 |
| 84.80 | 120 | 155 |
| 84.96 | 115 | 145 |
| 85.12 | 115 | 155 |
| 85.28 | 120 | 160 |
| 85.44 | 120 | 165 |
| 85.60 | 120 | 160 |
| 85.76 | 125 | 165 |
| 85.92 | 135 | 160 |
| 86.08 | 135 | 160 |
| 86.24 | 125 | 155 |
| 86.40 | 125 | 155 |
| 86.56 | 120 | 145 |
| 86.72 | 120 | 145 |
| 86.98 | 110 | 140 |
| 87.04 | 110 | 140 |
| 87.20 | 110 | 140 |
| 87.36 | 110 | 140 |
| 87.52 | 110 | 140 |
| 87.68 | 100 | 135 |
| 87.84 | 100 | 135 |
| 88.00 | 100 | 135 |
| 88.16 | 100 | 125 |
| 88.32 | 110 | 120 |
| | | |

| 88.48 | 115 | 120 |
|-------|-----|-----|
| 88.64 | 110 | 120 |
| 88.80 | 110 | 125 |
| 88.96 | 100 | 125 |
| 89.12 | 100 | 125 |
| 89-28 | 95 | 125 |
| 89·44 | 95 | 125 |
| 89.60 | 100 | 120 |
| 89·76 | 100 | 135 |
| 89.92 | 110 | 140 |
| 90.08 | 110 | 135 |
| 90·24 | 110 | 140 |
| 90·40 | 100 | 145 |
| 90.56 | 100 | 155 |
| 90.72 | 110 | 155 |
| 90.88 | 110 | 155 |
| 91.04 | 100 | 155 |
| 91.20 | 110 | 155 |
| 91·36 | 110 | 160 |
| 91.52 | 115 | 160 |
| 91.68 | 110 | 155 |
| 91.84 | 115 | 155 |
| 92.00 | 115 | 140 |
| 92.16 | 115 | 155 |
| 92·32 | 120 | 155 |
| 92·48 | 125 | 145 |
| 92.64 | 125 | 155 |
| | | |

| 92.80 | 125 | 155 |
|-------|-----|-----|
| 92.96 | 120 | 155 |
| 93.12 | 120 | 145 |
| 93.28 | 120 | 145 |
| 93.44 | 115 | 145 |
| 93.60 | 120 | 145 |
| 93.76 | 115 | 140 |
| 93.92 | 115 | 140 |
| 94.08 | 115 | 140 |
| 94.24 | 115 | 140 |
| 94.40 | 115 | 140 |
| 94.56 | 115 | 140 |
| 94.72 | 115 | 135 |
| 94.88 | 115 | 135 |
| 95.04 | 110 | 135 |
| 95.20 | 110 | 135 |
| 95.36 | 110 | 135 |
| 95.52 | 115 | 135 |
| 95.68 | 100 | 140 |
| 95.84 | 95 | 135 |
| 96.00 | 100 | 125 |
| 96.16 | 95 | 125 |
| 96.32 | 95 | 125 |
| 96.48 | 95 | 125 |
| 96.64 | 110 | 125 |
| 96.80 | 95 | 120 |
| 96.96 | 95 | 120 |
| | | |

| 97.12 | 95 | 120 |
|----------------------------|-----|-----|
| 97.28 | 95 | 110 |
| 97.44 | 100 | 115 |
| 97.60 | 110 | 120 |
| 97.76 | 110 | 115 |
| 97.92 | 100 | 115 |
| 98.08 | 95 | 115 |
| 98.24 | 100 | 115 |
| 98.40 | 95 | 115 |
| 98.52 | 100 | 115 |
| 98.72 | 100 | 110 |
| 98.88 | 110 | 100 |
| 99.04 | 95 | 95 |
| 99.20 | 90 | 100 |
| 99.36 | 90 | 100 |
| 93-52 ⊠ 99·52 ⊠ | 75 | 110 |
| 99.68 | 75 | 115 |
| 99.84 | 75 | 115 |
| 100.00 | 75 | 110 |

♦ 83/190/EEC Art. 1 and Annex \rightarrow_1 88/465/EEC Art. 1 and Annex

Appendix 4

Set-value signals for the test-stand inspection of the driver's seat on Category A (Class I) tractors (<u>Hem point</u> 2.5.3.1.1):

PS = set point;

a = amplitude of the set-value signal (in 10^{-4} m);

t = measurement time (in seconds).

When the sequence of signals is repeated in the table for 701 points, points 700 and 0 coincide in time at an amplitude of a = 0:

| PS No | a | t |
|-------|------------------|------|
| | $10^{-4} { m m}$ | S |
| 0 | 0 000 | 0 |
| 1 | 0 089 | |
| 2 | 0 215 | |
| | | |
| | | - |
| | | - |
| 699 | 0 023 | - |
| 700 | 0 000 | 28,0 |

Appendix $\rightarrow_1 5a5 \leftarrow$

Set-value signals for the test-stand inspection of the driver's seat on Category A (Class II) tractors (<u>Hem point</u> 2.5.3.1.1):

- PS = set points;
- a = amplitude of the set-value signal (in 10^{-4} m);
- t = measurement time (in seconds).

When the sequence of signals is repeated in the table for 701 points, points 700 and 0 coincide in time at an amplitude of a = 0:

| PS No | a | t |
|-------|------------------|-------------------------------------|
| | $10^{-4} { m m}$ | S |
| 0 | 0 000 | 0 |
| 1 | 0 022 | |
| 2 | 0 089 | |
| | | |
| | | |
| | | |
| 699 | 0 062 | |
| 700 | 0 000 | → ₁ 31,0 ← |

 Ψ 88/465/EEC Art. 1 and Annex (adapted)

Appendix <u>5b6</u>

Set-value signals for the test-stand testing of drivers' seats for category A tractors in class III (point 2.5.3.1.1)

PS = set point

- a = amplitude of the set value signal in mm
- t = measurement time in seconds

If the signal sequence is repeated for 701 points in the table, point 700 and 0 merge in time, with amplitude a = 0.

| PS | a | t |
|----|-----|-------|
| No | mm | S |
| 1 | 0 | 0,000 |
| 2 | - 3 | 0,027 |
| 3 | - 0 | 0,055 |
| 4 | 2 | 0,082 |
| 5 | 4 | 0,109 |
| 6 | 6 | 0,137 |
| 7 | 6 | 0,164 |
| 8 | 5 | 0,192 |
| 9 | 3 | 0,219 |
| 10 | 1 | 0,246 |
| 11 | - 0 | 0,274 |
| 12 | - 2 | 0,301 |
| 13 | - 4 | 0,328 |
| 14 | - 4 | 0,356 |
| 15 | - 4 | 0,383 |
| | • | • |

| 16 | - 2 | 0,411 |
|----|-----|-------|
| 17 | - 1 | 0,439 |
| 18 | 0 | 0,465 |
| 19 | 2 | 0,493 |
| 20 | 3 | 0,520 |
| 21 | 4 | 0,547 |
| 22 | 3 | 0,575 |
| 23 | 1 | 0,602 |
| 24 | 0 | 0,630 |
| 25 | - 1 | 0,657 |
| 26 | - 3 | 0,684 |
| 27 | - 4 | 0,712 |
| 28 | - 4 | 0,739 |
| 29 | - 4 | 0,766 |
| 30 | - 2 | 0,794 |
| 31 | - 0 | 0,821 |
| 32 | 2 | 0,848 |
| 33 | 4 | 0,876 |
| 34 | 6 | 0,903 |
| 35 | 6 | 0,931 |
| 36 | 6 | 0,958 |
| 37 | 4 | 0,985 |
| 38 | 1 | 1,013 |
| 39 | - 1 | 1,040 |
| 40 | - 4 | 1,067 |
| 41 | - 6 | 1,093 |
| 42 | - 8 | 1,122 |
| | | |

| 43 | - 8 | 1,150 |
|----|------|-------|
| 44 | - 7 | 1,177 |
| 45 | - 4 | 1,204 |
| 46 | - 1 | 1,232 |
| 47 | 2 | 1,259 |
| 48 | 6 | 1,286 |
| 49 | 8 | 1,314 |
| 50 | 10 | 1,341 |
| 51 | 10 | 1,369 |
| 52 | 8 | 1,396 |
| 53 | 4 | 1,423 |
| 54 | 0 | 1,451 |
| 55 | - 4 | 1,478 |
| 56 | - 8 | 1,505 |
| 57 | - 11 | 1,533 |
| 58 | - 13 | 1,560 |
| 59 | - 12 | 1,587 |
| 60 | - 9 | 1,613 |
| 61 | - 4 | 1,642 |
| 62 | 6 | 1,670 |
| 63 | 6 | 1,697 |
| 64 | 11 | 1,724 |
| 65 | 15 | 1,752 |
| 66 | 16 | 1,779 |
| 67 | 14 | 1,806 |
| 68 | 11 | 1,834 |
| 69 | 5 | 1,861 |
| | | |

| 70 | - 1 | 1,869 |
|----|------|-------|
| 71 | - 8 | 1,916 |
| 72 | - 14 | 1,943 |
| 73 | - 18 | 1,971 |
| 74 | - 19 | 1,998 |
| 75 | - 17 | 2,025 |
| 76 | - 13 | 2,053 |
| 77 | - 6 | 2,080 |
| 78 | 0 | 2,108 |
| 79 | 8 | 2,135 |
| 80 | 15 | 2,162 |
| 81 | 19 | 2,190 |
| 82 | 21 | 2,217 |
| 83 | 19 | 2,244 |
| 84 | 15 | 2,272 |
| 85 | 8 | 2,299 |
| 86 | 0 | 2,326 |
| 87 | - 7 | 2,354 |
| 88 | - 15 | 2,361 |
| 89 | - 19 | 2,409 |
| 90 | - 21 | 2,436 |
| 91 | - 20 | 2,463 |
| 92 | - 15 | 2,491 |
| 93 | - 8 | 2,518 |
| 94 | - 0 | 2,545 |
| 95 | 7 | 2,573 |
| 96 | 14 | 2,600 |
| | | |

| 97 | 19 | 2,628 |
|-----|------|-------|
| 98 | 21 | 2,655 |
| 99 | 19 | 2,662 |
| 100 | 14 | 2,710 |
| 101 | 7 | 2,737 |
| 102 | - 0 | 2,764 |
| 103 | - 8 | 2,792 |
| 104 | - 15 | 2,819 |
| 105 | - 19 | 2,847 |
| 106 | - 20 | 2,874 |
| 107 | - 18 | 2,901 |
| 108 | - 13 | 2,929 |
| 109 | - 5 | 2,956 |
| 110 | 2 | 2,983 |
| 111 | 10 | 3,011 |
| 112 | 16 | 3,038 |
| 113 | 20 | 3,055 |
| 114 | 20 | 3,093 |
| 115 | 17 | 3,120 |
| 116 | 12 | 3,148 |
| 117 | 5 | 3,175 |
| 118 | - 3 | 3,202 |
| 119 | - 10 | 3,230 |
| 120 | - 17 | 3,257 |
| 121 | - 20 | 3,284 |
| 122 | - 21 | 3,312 |
| 123 | - 18 | 3,339 |
| | | |

| 124 | - 13 | 3,367 |
|-----|------|-------|
| 125 | - 6 | 3,396 |
| 126 | 2 | 3,421 |
| 127 | 10 | 3,449 |
| 128 | 16 | 3,476 |
| 129 | 21 | 3,503 |
| 130 | 22 | 3,531 |
| 131 | 20 | 3,558 |
| 132 | 15 | 3,586 |
| 133 | 8 | 3,613 |
| 134 | 0 | 3,640 |
| 135 | - 8 | 3,668 |
| 136 | - 15 | 3,695 |
| 137 | - 20 | 3,722 |
| 138 | - 23 | 3,750 |
| 139 | - 22 | 3,777 |
| 140 | - 18 | 3,804 |
| 141 | - 11 | 3,832 |
| 142 | - 3 | 3,859 |
| 143 | 5 | 3,887 |
| 144 | 13 | 3,914 |
| 145 | 19 | 3,941 |
| 146 | 23 | 3,969 |
| 147 | 23 | 3,996 |
| 148 | 20 | 4,023 |
| 149 | 14 | 4,051 |
| 150 | 6 | 4,078 |
| | | |

| 151 | - 2 | 4,106 |
|-----|------|-------|
| 152 | - 11 | 4,133 |
| 153 | - 17 | 4,160 |
| 154 | - 21 | 4,188 |
| 155 | - 22 | 4,215 |
| 156 | - 20 | 4,242 |
| 157 | - 14 | 4,270 |
| 158 | - 7 | 4,297 |
| 159 | 0 | 4,325 |
| 160 | 8 | 4,352 |
| 161 | 14 | 4,379 |
| 162 | 18 | 4,407 |
| 163 | 19 | 4,434 |
| 164 | 17 | 4,461 |
| 165 | 13 | 4,489 |
| 166 | 7 | 4,516 |
| 167 | 0 | 4,543 |
| 168 | - 6 | 4,571 |
| 169 | - 11 | 4,598 |
| 170 | - 14 | 4,626 |
| 171 | - 16 | 4,653 |
| 172 | - 14 | 4,680 |
| 173 | - 11 | 4,708 |
| 174 | - 6 | 4,735 |
| 175 | - 1 | 4,762 |
| 176 | 4 | 4,790 |
| 177 | 8 | 4,817 |
| | | |

| 178 | 12 | 4,845 |
|-----|------|-------|
| 179 | 13 | 4,872 |
| 180 | 13 | 4,899 |
| 181 | 11 | 4,927 |
| 182 | 7 | 4,954 |
| 183 | 3 | 4,981 |
| 184 | - 1 | 5,009 |
| 185 | - 5 | 5,036 |
| 186 | - 9 | 5,064 |
| 187 | - 11 | 5,091 |
| 188 | - 12 | 5,118 |
| 189 | - 12 | 5,146 |
| 190 | - 10 | 5,173 |
| 191 | - 6 | 5,200 |
| 192 | - 2 | 5,228 |
| 193 | 1 | 5,255 |
| 194 | 5 | 5,283 |
| 195 | 9 | 5,310 |
| 196 | 11 | 5,337 |
| 197 | 13 | 5,365 |
| 198 | 12 | 5,392 |
| 199 | 11 | 5,419 |
| 200 | 7 | 5,447 |
| 201 | 3 | 5,474 |
| 202 | - 0 | 5,501 |
| 203 | - 5 | 5,529 |
| 204 | - 9 | 5,556 |
| | | |

| 205 | - 12 | 5,584 |
|-----|------|-------|
| 206 | - 14 | 5,611 |
| 207 | - 14 | 5,638 |
| 208 | - 12 | 5,666 |
| 209 | - 9 | 5,693 |
| 210 | - 4 | 5,720 |
| 211 | 0 | 5,748 |
| 212 | 5 | 5,775 |
| 213 | 9 | 5,803 |
| 214 | 13 | 5,830 |
| 215 | 15 | 5,857 |
| 216 | 15 | 5,885 |
| 217 | 13 | 5,912 |
| 218 | 9 | 5,939 |
| 219 | 4 | 5,967 |
| 220 | - 1 | 5,994 |
| 221 | - 7 | 6,022 |
| 222 | - 11 | 6,049 |
| 223 | - 15 | 6,076 |
| 224 | - 16 | 6,104 |
| 225 | - 16 | 6,131 |
| 226 | - 12 | 6,158 |
| 227 | - 7 | 6,186 |
| 228 | - 1 | 6,213 |
| 229 | 4 | 6,240 |
| 230 | 10 | 6,268 |
| 231 | 16 | 6,295 |
| | | |

| 232 | 17 | 6,323 |
|-----|------|-------|
| 233 | 17 | 6,350 |
| 234 | 14 | 6,377 |
| 235 | 9 | 6,405 |
| 236 | 3 | 6,432 |
| 237 | - 3 | 6,459 |
| 238 | - 10 | 6,487 |
| 239 | - 15 | 6,514 |
| 240 | - 19 | 6,542 |
| 241 | - 19 | 6,569 |
| 242 | - 17 | 6,596 |
| 243 | - 12 | 6,624 |
| 244 | - 6 | 6,651 |
| 245 | 1 | 6,678 |
| 246 | 9 | 6,706 |
| 247 | 16 | 6,733 |
| 248 | 21 | 6,761 |
| 249 | 22 | 6,783 |
| 250 | 21 | 6,815 |
| 251 | 16 | 6,843 |
| 252 | 9 | 6,870 |
| 253 | 0 | 6,897 |
| 254 | - 8 | 6,925 |
| 255 | - 16 | 6,952 |
| 256 | - 22 | 6,979 |
| 257 | - 25 | 7,007 |
| 258 | - 24 | 7,034 |
| | | |

| 259 | - 20 | 7,062 |
|-----|------|-------|
| 260 | - 13 | 7,089 |
| 261 | - 4 | 7,116 |
| 262 | 5 | 7,144 |
| 263 | 14 | 7,171 |
| 264 | 24 | 7,198 |
| 265 | 25 | 7,226 |
| 266 | 26 | 7,253 |
| 267 | 23 | 7,281 |
| 268 | 17 | 7,308 |
| 269 | 8 | 7,335 |
| 270 | - 1 | 7,363 |
| 271 | - 11 | 7,390 |
| 272 | - 20 | 7,417 |
| 273 | - 26 | 7,445 |
| 274 | - 27 | 7,472 |
| 275 | - 25 | 7,500 |
| 276 | - 19 | 7,527 |
| 277 | - 11 | 7,554 |
| 278 | - 1 | 7,582 |
| 279 | 9 | 7,609 |
| 280 | 18 | 7,636 |
| 281 | 24 | 7,664 |
| 282 | 27 | 7,691 |
| 283 | 26 | 7,718 |
| 284 | 21 | 7,746 |
| 285 | 13 | 7,773 |
| | | |

| 286 | 4 | 7,801 |
|-----|------|-------|
| 287 | - 5 | 7,828 |
| 288 | - 13 | 7,855 |
| 289 | - 20 | 7,883 |
| 290 | - 24 | 7,910 |
| 291 | - 25 | 7,937 |
| 292 | - 22 | 7,965 |
| 293 | - 17 | 7,992 |
| 294 | - 9 | 8,020 |
| 295 | - 1 | 8,047 |
| 296 | 7 | 8,074 |
| 297 | 14 | 8,102 |
| 298 | 20 | 8,129 |
| 299 | 22 | 8,156 |
| 300 | 22 | 8,184 |
| 301 | 19 | 8,211 |
| 302 | 13 | 8,239 |
| 303 | 6 | 8,266 |
| 304 | - 1 | 8,293 |
| 305 | - 9 | 8,321 |
| 306 | - 15 | 8,348 |
| 307 | - 19 | 8,375 |
| 308 | - 20 | 8,403 |
| 309 | - 19 | 8,430 |
| 310 | - 14 | 8,457 |
| 311 | - 8 | 8,485 |
| 312 | - 0 | 8,512 |
| | | |

| 313 | 6 | 8,540 |
|-----|------|-------|
| 314 | 12 | 8,567 |
| 315 | 16 | 8,594 |
| 316 | 18 | 8,622 |
| 317 | 16 | 8,649 |
| 318 | 12 | 8,676 |
| 319 | 6 | 8,704 |
| 320 | 0 | 8,731 |
| 321 | - 7 | 8,759 |
| 322 | - 12 | 8,786 |
| 323 | - 15 | 8,813 |
| 324 | - 16 | 8,841 |
| 325 | - 13 | 8,868 |
| 326 | - 8 | 8,895 |
| 327 | - 1 | 8,923 |
| 328 | 5 | 8,950 |
| 329 | 11 | 8,978 |
| 330 | 15 | 9,005 |
| 331 | 17 | 9,032 |
| 332 | 15 | 9,060 |
| 333 | 11 | 9,087 |
| 334 | 5 | 9,114 |
| 335 | - 2 | 9,142 |
| 336 | - 9 | 9,169 |
| 337 | - 15 | 9,196 |
| 338 | - 18 | 9,224 |
| 339 | - 19 | 9,261 |
| | | |

| 340 | - 16 | 9,279 |
|-----|------|-------|
| 341 | - 11 | 9,306 |
| 342 | - 3 | 9,333 |
| 343 | 4 | 9,361 |
| 344 | 11 | 9,388 |
| 345 | 16 | 9,415 |
| 346 | 19 | 9,443 |
| 347 | 19 | 9,470 |
| 348 | 16 | 9,498 |
| 349 | 11 | 9,525 |
| 350 | 4 | 9,552 |
| 351 | - 2 | 9,580 |
| 352 | - 9 | 9,607 |
| 353 | - 14 | 9,634 |
| 354 | - 17 | 9,662 |
| 355 | - 18 | 9,689 |
| 356 | - 16 | 9,717 |
| 357 | - 12 | 9,744 |
| 358 | - 7 | 9,771 |
| 359 | - 1 | 9,799 |
| 360 | 4 | 9,826 |
| 361 | 9 | 9,853 |
| 362 | 13 | 9,881 |
| 363 | 16 | 9,908 |
| 364 | 15 | 9,935 |
| 365 | 14 | 9,963 |
| 366 | 10 | 9,990 |
| | | |

| 367 | 5 | 10,018 |
|------------------------|------|--------|
| 368 | - 0 | 10,045 |
| 369 | - 5 | 10,072 |
| 370 | - 10 | 10,100 |
| 371 | - 13 | 10,127 |
| 372 | - 15 | 10,154 |
| 372 🗵 373 🖾 | - 14 | 10,182 |
| 374 | - 12 | 10,209 |
| 375 | - 7 | 10,237 |
| 376 | - 2 | 10,264 |
| 377 | 2 | 10,291 |
| 378 | 8 | 10,319 |
| 379 | 11 | 10,346 |
| 380 | 13 | 10,373 |
| 381 | 13 | 10,401 |
| 382 | 11 | 10,428 |
| 383 | 7 | 10,456 |
| 384 | 2 | 10,483 |
| 385 | - 2 | 10,510 |
| 386 | - 7 | 10,538 |
| 387 | - 10 | 10,565 |
| 388 | - 11 | 10,592 |
| 389 | - 11 | 10,620 |
| 390 | - 8 | 10,647 |
| 391 | - 5 | 10,674 |
| 392 | - 0 | 10,702 |
| 393 | 3 | 10,729 |
| | | |

| 394 | 7 | 10,757 |
|-----|-----|--------|
| 395 | 9 | 10,784 |
| 396 | 9 | 10,811 |
| 397 | 8 | 10,839 |
| 398 | 5 | 10,866 |
| 399 | 1 | 10,893 |
| 400 | - 2 | 10,921 |
| 401 | - 6 | 10,949 |
| 402 | - 7 | 10,975 |
| 403 | - 8 | 11,003 |
| 404 | - 7 | 11,030 |
| 405 | - 5 | 11,058 |
| 406 | - 2 | 11,085 |
| 407 | 0 | 11,112 |
| 408 | 4 | 11,140 |
| 409 | 6 | 11,167 |
| 410 | 7 | 11,195 |
| 411 | 7 | 11,222 |
| 412 | 6 | 11,249 |
| 413 | 4 | 11,277 |
| 414 | 1 | 11,304 |
| 415 | - 1 | 11,331 |
| 416 | - 4 | 11,359 |
| 417 | - 7 | 11,386 |
| 418 | - 8 | 11,413 |
| 419 | - 8 | 11,441 |
| 420 | - 6 | 11,468 |
| | | |

| 421 | - 4 | 11,496 |
|-----|-----|--------|
| 422 | - 1 | 11,523 |
| 423 | 1 | 11,550 |
| 424 | 4 | 11,578 |
| 425 | 7 | 11,605 |
| 426 | 8 | 11,632 |
| 427 | 8 | 11,660 |
| 428 | 7 | 11,687 |
| 429 | 5 | 11,715 |
| 430 | 2 | 11,742 |
| 431 | - 0 | 11,769 |
| 432 | - 2 | 11,797 |
| 433 | - 4 | 11,824 |
| 434 | - 6 | 11,851 |
| 435 | - 7 | 11,879 |
| 436 | - 6 | 11,906 |
| 437 | - 6 | 11,934 |
| 438 | - 4 | 11,961 |
| 439 | - 3 | 11,988 |
| 440 | - 1 | 12,016 |
| 441 | 0 | 12,043 |
| 442 | 2 | 12,070 |
| 443 | 4 | 12,098 |
| 444 | 6 | 12,125 |
| 445 | 7 | 12,152 |
| 446 | 7 | 12,180 |
| 447 | 7 | 12,207 |
| | | |

| 448 | 6 | 12,235 |
|-----|------|--------|
| 449 | 4 | 12,262 |
| 450 | 1 | 12,289 |
| 451 | - 1 | 12,317 |
| 452 | - 5 | 12,344 |
| 453 | - 8 | 12,371 |
| 454 | - 10 | 12,399 |
| 455 | - 11 | 12,426 |
| 456 | - 11 | 12,454 |
| 457 | - 9 | 12,481 |
| 458 | - 5 | 12,509 |
| 459 | - 1 | 12,536 |
| 460 | 3 | 12,563 |
| 461 | 8 | 12,590 |
| 462 | 11 | 12,618 |
| 463 | 13 | 12,645 |
| 464 | 12 | 12,673 |
| 465 | 10 | 12,700 |
| 466 | 7 | 12,727 |
| 467 | 2 | 12,755 |
| 468 | - 2 | 12,782 |
| 469 | - 6 | 12,809 |
| 470 | - 9 | 12,837 |
| 471 | - 10 | 12,864 |
| 472 | - 10 | 12,891 |
| 473 | - 8 | 12,915 |
| 474 | - 5 | 12,946 |
| | | |

| 475 | - 2 | 12,974 |
|-----|-----|--------|
| 476 | 1 | 13,001 |
| 477 | 3 | 13,028 |
| 478 | 6 | 13,056 |
| 479 | 6 | 13,083 |
| 480 | 5 | 13,110 |
| 481 | 4 | 13,138 |
| 482 | 2 | 13,165 |
| 483 | 0 | 13,193 |
| 484 | - 0 | 13,220 |
| 485 | - 1 | 13,247 |
| 486 | - 2 | 13,275 |
| 487 | - 2 | 13,302 |
| 488 | - 1 | 13,329 |
| 489 | - 1 | 13,357 |
| 490 | - 0 | 13,384 |
| 491 | 0 | 13,412 |
| 492 | 1 | 13,439 |
| 493 | 1 | 13,466 |
| 494 | 1 | 13,494 |
| 495 | 0 | 13,521 |
| 496 | 0 | 13,548 |
| 497 | - 0 | 13,576 |
| 498 | - 1 | 13,603 |
| 499 | - 1 | 13,630 |
| 500 | - 1 | 13,659 |
| 501 | - 1 | 13,685 |
| | | |

| 502 | - 1 | 13,713 |
|-----|-----|--------|
| 503 | - 1 | 13,740 |
| 504 | - 0 | 13,767 |
| 505 | - 0 | 13,795 |
| 506 | 0 | 13,822 |
| 507 | 1 | 13,849 |
| 508 | 1 | 13,877 |
| 509 | 2 | 13,904 |
| 510 | 2 | 13,932 |
| 511 | 2 | 13,959 |
| 512 | 2 | 13,986 |
| 513 | 1 | 14,014 |
| 514 | 1 | 14,041 |
| 515 | 0 | 14,068 |
| 516 | - 0 | 14,096 |
| 517 | - 1 | 14,123 |
| 518 | - 1 | 14,151 |
| 519 | - 2 | 14,178 |
| 520 | - 2 | 14,205 |
| 521 | - 2 | 14,233 |
| 522 | - 2 | 14,260 |
| 523 | - 1 | 14,287 |
| 524 | - 1 | 14,316 |
| 525 | - 1 | 14,342 |
| 526 | - 0 | 14,370 |
| 527 | - 0 | 14,397 |
| 528 | 0 | 14,424 |
| | | |

| 529 | 0 | 14,452 |
|-----|-----|--------|
| 530 | 1 | 14,479 |
| 531 | 2 | 14,506 |
| 532 | 2 | 14,534 |
| 533 | 3 | 14,561 |
| 534 | 4 | 14,598 |
| 535 | 4 | 14,616 |
| 536 | 3 | 14,643 |
| 537 | 2 | 14,671 |
| 538 | 1 | 14,698 |
| 539 | - 0 | 14,725 |
| 540 | - 2 | 14,753 |
| 541 | - 5 | 14,780 |
| 542 | - 7 | 14,807 |
| 543 | - 8 | 14,835 |
| 544 | - 8 | 14,862 |
| 545 | - 7 | 14,890 |
| 546 | - 5 | 14,917 |
| 547 | - 1 | 14,944 |
| 548 | 1 | 14,972 |
| 549 | 6 | 14,999 |
| 550 | 9 | 15,026 |
| 551 | 12 | 15,054 |
| 552 | 13 | 15,081 |
| 553 | 11 | 15,109 |
| 554 | 9 | 15,136 |
| 555 | 4 | 15,163 |
| | | |

| 556 | - 0 | 15,191 |
|-----|------|--------|
| 557 | - 6 | 15,218 |
| 558 | - 11 | 15,245 |
| 559 | - 15 | 15,273 |
| 560 | - 16 | 15,300 |
| 561 | - 15 | 15,327 |
| 562 | - 12 | 15,356 |
| 563 | - 6 | 15,382 |
| 564 | - 0 | 15,410 |
| 565 | 6 | 15,437 |
| 566 | 12 | 15,464 |
| 567 | 17 | 15,492 |
| 568 | 19 | 15,519 |
| 569 | 18 | 15,546 |
| 570 | 14 | 15,574 |
| 571 | 8 | 15,601 |
| 572 | 1 | 15,629 |
| 573 | - 6 | 15,656 |
| 574 | - 12 | 15,683 |
| 575 | - 17 | 15,711 |
| 576 | - 19 | 15,738 |
| 577 | - 19 | 15,766 |
| 578 | - 15 | 15,793 |
| 579 | - 10 | 15,820 |
| 580 | - 8 | 15,848 |
| 581 | 4 | 15,875 |
| 582 | 11 | 15,902 |
| | | |

| 583 | 16 | 15,930 |
|-----|------|--------|
| 584 | 18 | 15,957 |
| 585 | 18 | 15,984 |
| 586 | 15 | 16,012 |
| 587 | 10 | 16,039 |
| 588 | 3 | 16,066 |
| 589 | - 3 | 16,094 |
| 590 | - 10 | 16,121 |
| 591 | - 15 | 16,149 |
| 592 | - 17 | 16,176 |
| 593 | - 17 | 16,203 |
| 594 | - 15 | 15,231 |
| 595 | - 10 | 16,258 |
| 596 | - 3 | 16,285 |
| 597 | 2 | 16,313 |
| 598 | 9 | 16,340 |
| 599 | 14 | 16,368 |
| 600 | 16 | 16,395 |
| 601 | 17 | 16,422 |
| 602 | 14 | 16,450 |
| 603 | 10 | 16,477 |
| 604 | 5 | 16,504 |
| 605 | - 1 | 16,532 |
| 606 | - 7 | 16,559 |
| 607 | - 12 | 16,587 |
| 608 | - 15 | 16,614 |
| 609 | - 16 | 16,641 |
| | | |

| 610 | - 16 | 16,669 |
|-----|------|--------|
| 611 | - 13 | 16,696 |
| 612 | - 8 | 16,728 |
| 613 | - 3 | 16,741 |
| 614 | 2 | 16,776 |
| 615 | 8 | 16,803 |
| 616 | 12 | 16,833 |
| 617 | 15 | 16,860 |
| 618 | 16 | 16,888 |
| 619 | 15 | 16,915 |
| 620 | 12 | 16,942 |
| 621 | 8 | 16,970 |
| 622 | 2 | 16,997 |
| 623 | - 2 | 17,024 |
| 624 | - 8 | 17,052 |
| 625 | - 12 | 17,079 |
| 626 | - 14 | 17,107 |
| 627 | - 15 | 17,134 |
| 628 | - 14 | 17,161 |
| 629 | - 11 | 17,189 |
| 630 | - 7 | 17,216 |
| 631 | - 2 | 17,243 |
| 632 | 1 | 17,271 |
| 633 | 6 | 17,298 |
| 634 | 9 | 17,326 |
| 635 | 11 | 17,353 |
| 636 | 12 | 17,380 |
| | | |

| 637 | 11 | 17,408 |
|-----|-----|--------|
| 638 | 9 | 17,435 |
| 639 | 6 | 17,462 |
| 640 | 2 | 17,490 |
| 641 | - 0 | 17,517 |
| 642 | - 3 | 17,544 |
| 643 | - 5 | 17,572 |
| 644 | - 6 | 17,599 |
| 645 | - 6 | 17,627 |
| 646 | - 6 | 17,654 |
| 647 | - 4 | 17,681 |
| 648 | - 3 | 17,709 |
| 649 | - 1 | 17,736 |
| 650 | - 0 | 17,763 |
| 651 | 0 | 17,791 |
| 652 | 1 | 17,818 |
| 653 | 0 | 17,845 |
| 654 | 0 | 17,873 |
| 655 | 0 | 17,900 |
| 656 | - 0 | 17,928 |
| 657 | - 0 | 17,955 |
| 658 | - 0 | 17,982 |
| 659 | 0 | 18,010 |
| 660 | 1 | 18,037 |
| 661 | 3 | 18,065 |
| 662 | 4 | 18,092 |
| 663 | 5 | 18,119 |
| | | |

| 664 | 5 | 18,147 |
|-----|------|--------|
| 665 | 5 | 18,174 |
| 666 | 4 | 18,201 |
| 667 | 2 | 18,229 |
| 668 | - 0 | 18,256 |
| 669 | - 3 | 18,283 |
| 670 | - 6 | 18,311 |
| 671 | - 9 | 18,339 |
| 672 | - 10 | 18,366 |
| 673 | - 10 | 18,393 |
| 674 | - 9 | 18,420 |
| 675 | - 6 | 18,448 |
| 676 | - 3 | 18,475 |
| 677 | 1 | 18,502 |
| 678 | 6 | 18,530 |
| 679 | 10 | 18,557 |
| 680 | 12 | 18,585 |
| 681 | 14 | 18,612 |
| 682 | 13 | 18,639 |
| 683 | 10 | 18,667 |
| 684 | 6 | 18,694 |
| 685 | 1 | 18,721 |
| 686 | - 3 | 18,749 |
| 687 | - 6 | 18,776 |
| 688 | - 11 | 18,804 |
| 689 | - 13 | 18,831 |
| 690 | - 13 | 18,858 |
| | | |

| 691 | - 10 | 18,886 |
|-----|------|--------|
| 692 | - 7 | 18,913 |
| 693 | - 3 | 18,940 |
| 694 | 1 | 18,968 |
| 695 | 4 | 18,996 |
| 696 | 7 | 19,022 |
| 697 | 8 | 19,050 |
| 698 | 8 | 19,077 |
| 699 | 6 | 19,105 |
| 700 | 4 | 19,132 |
| 701 | 1 | 19,159 |
| 702 | - 0 | 19,187 |
| 703 | - 2 | 19,214 |
| 704 | - 2 | 19,241 |
| 705 | - 2 | 19,269 |
| 706 | - 1 | 19,296 |
| 707 | 0 | 19,324 |
| 708 | 1 | 19,351 |
| 709 | 2 | 19,978 |
| 710 | 2 | 19,406 |
| 711 | 1 | 19,433 |
| 712 | - 0 | 19,460 |
| 713 | - 2 | 19,488 |
| 714 | - 5 | 19,515 |
| 715 | - 6 | 19,543 |
| 716 | - 7 | 19,570 |
| 717 | - 7 | 19,597 |
| | | |

| 718 | - 5 | 19,625 |
|-----|------|--------|
| 719 | - 3 | 19,652 |
| 720 | 0 | 19,679 |
| 721 | 3 | 19,707 |
| 722 | 7 | 19,734 |
| 723 | 9 | 19,761 |
| 724 | 11 | 19,789 |
| 725 | 11 | 19,816 |
| 726 | 10 | 19,844 |
| 727 | 7 | 19,871 |
| 728 | 3 | 19,898 |
| 729 | - 0 | 19,926 |
| 730 | - 4 | 19,953 |
| 731 | - 8 | 19,980 |
| 732 | - 11 | 20,008 |
| 733 | - 12 | 20,035 |
| 734 | - 12 | 20,063 |
| 735 | - 10 | 20,090 |
| 736 | - 7 | 20,117 |
| 737 | - 3 | 20,145 |
| 738 | 0 | 20,172 |
| 739 | 5 | 20,199 |
| 740 | 8 | 20,227 |
| 741 | 11 | 20,254 |
| 742 | 12 | 20,282 |
| 743 | 11 | 20,309 |
| 744 | 9 | 20,336 |
| | | |

| 745 | 6 | 20,354 |
|-----|------|--------|
| 746 | 1 | 20,391 |
| 747 | - 2 | 20,418 |
| 748 | - 6 | 20,446 |
| 749 | - 9 | 20,473 |
| 750 | - 10 | 20,500 |
| 751 | - 9 | 20,526 |
| 752 | - 7 | 20,556 |
| 753 | - 4 | 20,583 |
| 754 | - 1 | 20,610 |
| 755 | 2 | 20,637 |
| 756 | 5 | 20,665 |
| 757 | 7 | 20,692 |
| 758 | 8 | 20,719 |
| 759 | 7 | 20,747 |
| 760 | 5 | 20,774 |
| 761 | 2 | 20,802 |
| 762 | - 1 | 20,829 |
| 763 | - 4 | 20,856 |
| 764 | - 7 | 20,884 |
| 765 | - 9 | 20,911 |
| 766 | - 9 | 20,938 |
| 767 | - 7 | 20,966 |
| 768 | - 5 | 20,993 |
| 769 | - 1 | 21,021 |
| 770 | 2 | 21,048 |
| 771 | 5 | 21,075 |
| | | |

| 772 | 8 | 21,103 |
|-----|-----|--------|
| 773 | 10 | 21,130 |
| 774 | 10 | 21,157 |
| 775 | 8 | 21,185 |
| 776 | 6 | 21,212 |
| 777 | 2 | 21,239 |
| 778 | - 1 | 21,267 |
| 779 | - 4 | 21,294 |
| 780 | - 7 | 21,322 |
| 781 | - 9 | 21,349 |
| 782 | - 9 | 21,376 |
| 783 | - 8 | 21,404 |
| 784 | - 7 | 21,431 |
| 785 | - 4 | 21,458 |
| 786 | - 1 | 21,486 |
| 787 | 1 | 21,513 |
| 788 | 4 | 21,541 |
| 789 | 6 | 21,568 |
| 790 | 7 | 21,595 |
| 791 | 7 | 21,623 |
| 792 | 7 | 21,650 |
| 793 | 5 | 21,677 |
| 794 | 3 | 21,705 |
| 795 | 0 | 21,732 |
| 796 | - 1 | 21,760 |
| 797 | - 4 | 21,787 |
| 798 | - 5 | 21,814 |
| | | |

| 799 | - 6 | 21,842 |
|-----|-----|--------|
| 800 | - 5 | 21,869 |
| 801 | - 4 | 21,896 |
| 802 | - 2 | 21,924 |
| 803 | - 0 | 21,951 |
| 804 | 2 | 21,978 |
| 805 | 4 | 22,006 |
| 806 | 5 | 22,033 |
| 807 | 5 | 22,061 |
| 808 | 4 | 22,088 |
| 809 | 3 | 22,115 |
| 810 | 0 | 22,143 |
| 811 | - 1 | 22,170 |
| 812 | - 3 | 22,197 |
| 813 | - 5 | 22,225 |
| 814 | - 6 | 22,252 |
| 815 | - 5 | 22,280 |
| 816 | - 4 | 22,307 |
| 817 | - 3 | 22,334 |
| 818 | - 0 | 22,362 |
| 819 | 1 | 22,389 |
| 820 | 4 | 22,416 |
| 821 | 5 | 22,444 |
| 822 | 6 | 22,471 |
| | | |
| 824 | 6 | 22,526 |
| 825 | 5 | 22,553 |
| | | |

| 826 | 3 | 22,581 |
|-----|------|--------|
| 827 | 0 | 22,608 |
| 828 | - 2 | 22,635 |
| 829 | - 4 | 22,663 |
| 830 | - 7 | 22,690 |
| 831 | - 8 | 22,717 |
| 832 | - 9 | 22,745 |
| 833 | - 8 | 22,772 |
| 834 | - 7 | 22,800 |
| 835 | - 4 | 22,827 |
| 836 | - 1 | 22,854 |
| 837 | 2 | 22,882 |
| 838 | 6 | 22,909 |
| 839 | 9 | 22,936 |
| 840 | 11 | 22,964 |
| 841 | 12 | 22,991 |
| 842 | 11 | 23,019 |
| 843 | 9 | 23,046 |
| 844 | 5 | 23,073 |
| 845 | 0 | 23,101 |
| 846 | - 5 | 23,128 |
| 847 | - 9 | 23,155 |
| 848 | - 13 | 23,183 |
| 849 | - 15 | 23,210 |
| 850 | - 15 | 23,238 |
| 851 | - 13 | 23,265 |
| 852 | - 9 | 23,292 |
| | | |

| 853 | - 3 | 23,320 |
|-----|------|--------|
| 854 | 3 | 23,347 |
| 855 | 9 | 23,374 |
| 856 | 14 | 23,402 |
| 857 | 18 | 23,429 |
| 858 | 18 | 23,457 |
| 859 | 16 | 23,484 |
| 860 | 12 | 23,511 |
| 861 | 5 | 23,539 |
| 862 | - 1 | 23,566 |
| 863 | - 7 | 23,593 |
| 864 | - 13 | 23,621 |
| 865 | - 16 | 23,648 |
| 866 | - 17 | 23,675 |
| 867 | - 16 | 23,703 |
| 868 | - 12 | 23,730 |
| 869 | - 7 | 23,758 |
| 870 | - 1 | 23,785 |
| 871 | 4 | 23,812 |
| 872 | 9 | 23,840 |
| 873 | 12 | 23,867 |
| 874 | 14 | 23,894 |
| 875 | 13 | 23,922 |
| 876 | 11 | 23,949 |
| 877 | 7 | 23,977 |
| 878 | 2 | 24,004 |
| 879 | - 1 | 24,031 |
| | | |

| 880 | - 6 | 24,059 |
|-----|------|--------|
| 881 | - 9 | 24,086 |
| 882 | - 11 | 24,113 |
| 883 | - 11 | 24,141 |
| 884 | - 9 | 24,168 |
| 885 | - 6 | 24,196 |
| 886 | - 3 | 24,223 |
| 887 | 0 | 24,250 |
| 888 | 4 | 24,278 |
| 889 | 7 | 24,305 |
| 890 | 9 | 24,332 |
| 891 | 9 | 24,360 |
| 892 | 8 | 24,387 |
| 893 | 6 | 24,414 |
| 894 | 3 | 24,442 |
| 895 | - 0 | 24,469 |
| 896 | - 3 | 24,497 |
| 897 | - 6 | 24,524 |
| 898 | - 8 | 24,551 |
| 899 | - 9 | 24,579 |
| 900 | - 8 | 24,606 |
| 901 | - 6 | 24,633 |
| 902 | - 2 | 24,661 |
| 903 | 0 | 24,688 |
| 904 | 4 | 24,716 |
| 905 | 7 | 24,743 |
| 906 | 8 | 24,770 |
| | | |

| 907 | 9 | 24,798 |
|-----|------|--------|
| 908 | 7 | 24,825 |
| 909 | 5 | 24,852 |
| 910 | 1 | 24,880 |
| 911 | - 2 | 24,907 |
| 912 | - 6 | 24,935 |
| 913 | - 8 | 24,962 |
| 914 | - 10 | 24,989 |
| 915 | - 9 | 25,017 |
| 916 | - 7 | 25,044 |
| 917 | - 3 | 25,071 |
| 918 | 0 | 25,099 |
| 919 | 4 | 25,126 |
| 920 | 8 | 25,153 |
| 921 | 11 | 25,181 |
| 922 | 12 | 25,208 |
| 923 | 11 | 25,236 |
| 924 | 9 | 25,263 |
| 925 | 4 | 25,290 |
| 926 | - 0 | 25,318 |
| 927 | - 5 | 25,345 |
| 928 | - 9 | 25,372 |
| 929 | - 12 | 25,400 |
| 930 | - 13 | 25,427 |
| 931 | - 12 | 25,455 |
| 932 | - 9 | 25,482 |
| 933 | - 5 | 25,509 |
| | | |

| 934 | - 0 | 25,537 |
|-----|------|--------|
| 935 | 4 | 25,564 |
| 936 | 8 | 25,591 |
| 937 | 11 | 25,619 |
| 938 | 13 | 25,645 |
| 939 | 13 | 25,674 |
| 940 | 11 | 25,701 |
| 941 | 7 | 25,728 |
| 942 | 3 | 25,756 |
| 943 | - 1 | 25,783 |
| 944 | - 5 | 25,810 |
| 945 | - 8 | 25,839 |
| 946 | - 10 | 25,855 |
| 947 | - 11 | 25,892 |
| 948 | - 10 | 25,920 |
| 949 | - 8 | 25,947 |
| 950 | - 6 | 25,975 |
| 951 | - 2 | 26,002 |
| 952 | 0 | 26,029 |
| 953 | 3 | 26,057 |
| 954 | 5 | 26,084 |
| 955 | 7 | 26,111 |
| 956 | 8 | 26,139 |
| 957 | 8 | 26,166 |
| 958 | 7 | 26,194 |
| 959 | 6 | 26,221 |
| 960 | 4 | 26,248 |
| | | |

| 961 | 2 | 26,276 |
|-----|------|--------|
| 962 | 0 | 26,303 |
| 963 | - 2 | 26,330 |
| 964 | - 4 | 26,358 |
| 965 | - 5 | 26,385 |
| 966 | - 6 | 26,413 |
| 967 | - 7 | 26,440 |
| 968 | - 7 | 26,467 |
| 969 | - 7 | 26,495 |
| 970 | - 6 | 26,522 |
| 971 | - 4 | 26,549 |
| 972 | - 2 | 26,577 |
| 973 | 0 | 26,604 |
| 974 | 3 | 26,631 |
| 975 | 6 | 26,659 |
| 976 | 9 | 26,686 |
| 977 | 10 | 26,714 |
| 978 | 11 | 26,741 |
| 979 | 10 | 26,768 |
| 980 | 8 | 26,796 |
| 981 | 5 | 26,823 |
| 982 | 1 | 26,850 |
| 983 | - 3 | 26,878 |
| 984 | - 7 | 26,905 |
| 985 | - 10 | 26,933 |
| 986 | - 12 | 26,960 |
| 987 | - 13 | 26,987 |
| | | |

| 988 | - 12 | 27,015 |
|------|------|--------|
| 989 | - 10 | 27,042 |
| 990 | - 6 | 27,069 |
| 991 | - 2 | 27,097 |
| 992 | 2 | 27,124 |
| 993 | 6 | 27,152 |
| 994 | 10 | 27,179 |
| 995 | 12 | 27,206 |
| 996 | 14 | 27,234 |
| 997 | 13 | 27,261 |
| 998 | 11 | 27,288 |
| 999 | 8 | 27,316 |
| 1000 | 3 | 27,343 |
| 1001 | - 0 | 27,370 |
| 1002 | - 5 | 27,399 |
| 1003 | - 9 | 27,426 |
| 1004 | - 12 | 27,453 |
| 1005 | - 13 | 27,480 |
| 1006 | - 13 | 27,507 |
| 1007 | - 11 | 27,535 |
| 1008 | - 7 | 27,562 |
| 1009 | - 2 | 27,589 |
| 1010 | 1 | 27,617 |
| 1011 | 6 | 27,644 |
| 1012 | 9 | 27,672 |
| 1013 | 11 | 27,699 |
| 1014 | 12 | 27,726 |
| | | |

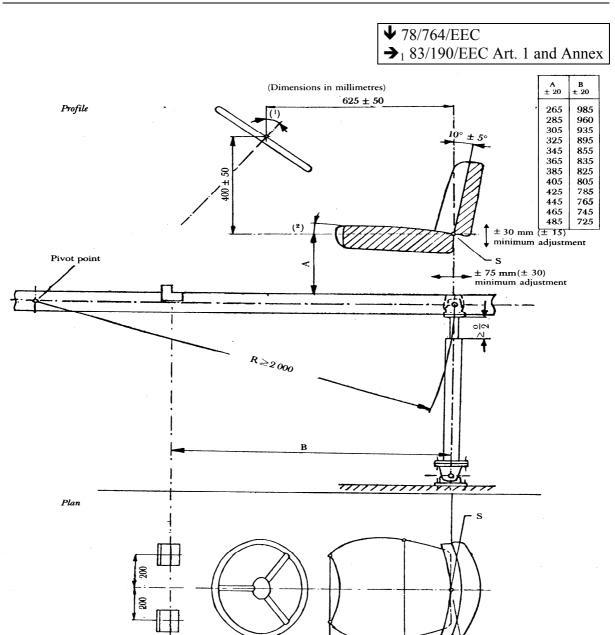
| 1015 | 10 | 27,754 |
|------|-----|--------|
| 1016 | 8 | 27,781 |
| 1017 | 4 | 27,808 |
| 1018 | 0 | 27,836 |
| 1019 | - 3 | 27,863 |
| 1020 | - 6 | 27,891 |
| 1021 | - 8 | 27,918 |
| 1022 | - 9 | 27,945 |
| 1023 | - 8 | 27,973 |
| 1024 | 0 | 28,000 |

↓ 78/764/EEC

<u>Appendix 67</u>

 \clubsuit 83/190/EEC Art. 1 and Annex

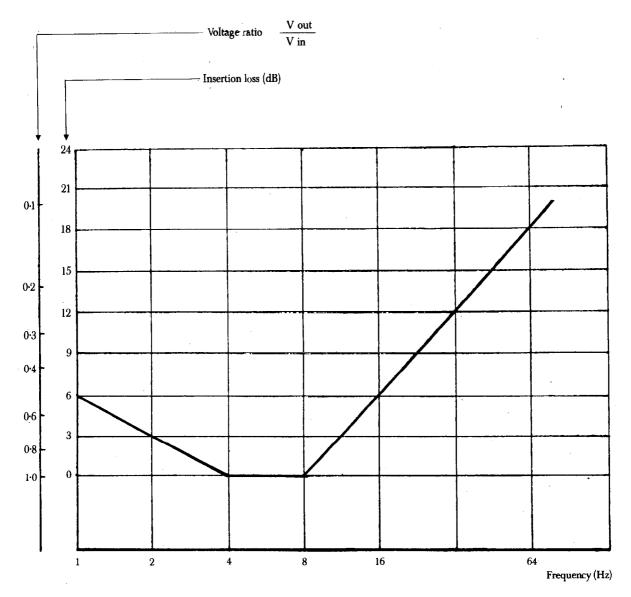
Test stand (<u>Item point</u> 2.5.3.1); example of construction (dimensions in mm)



The angle of the steering column in relation to the vertical depends on the position of the seat, the diameter of the steering wheel.
 The rearward inclination of the surface of the fitted seat cushion must be 3 to 12° in relation to the horizontal when measured with the loading device in accordance with Appendix 1. The choice of the angle of inclination within this class depends on the position when seated.

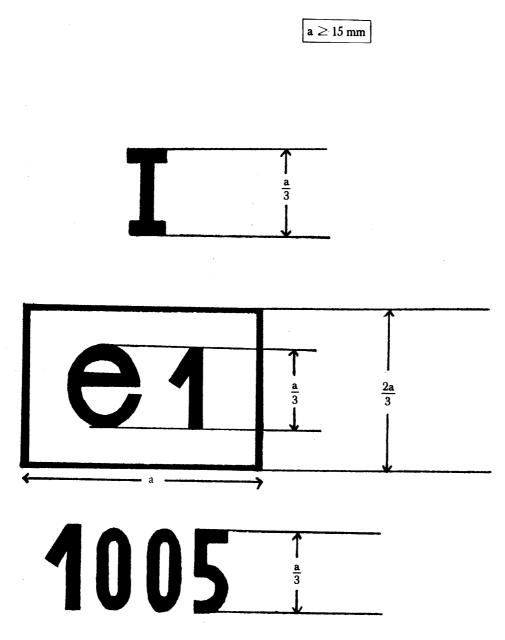


Characteristic of the filter of the vibration measuring instrument (point 2.5.3.3.5)



<u>Appendix →₁ <u>89</u> ←</u>

Example of an <u>EEC</u> <u>EC</u> component type-approval mark (<u>point</u> 3.5)



The seat bearing the <u>EEC</u> type-approval mark above is a seat intended for a Category A tractor in Class I and approved in Germany (e1) under number 1 005.

ANNEX III

| MOD | EL <u>EEC</u> COMPONENT TYPE-APPROVAL CERTIFICATE | |
|--------|---|--|
| | Name of administration | |
| | otification concerning the grant, refusal <u>or</u> withdrawal $\frac{1}{\text{or extension}}$ of <u>EEC</u> <u>EC</u> onent type-approval for a type of driver's seat for a wheeled agricultural or forestry tractor | |
| EEC EC | <u>C</u> component type-approval No | |
| 1. | Trade name or mark of seat | |
| 2. | Name and address of manufacturer | |
| 3. | If applicable, name and address of manufacturer's authorized representative | |
| 4. | Mark, type and trade name of tractor(s) for which seat is intended (¹) | |
| 5. | Date of submission for <u>EEC</u> component type-approval | |
| 6. | Test laboratory | |
| 7. | Date and number of laboratory report | |
| 8. | Date on which $\underline{\text{EC}} \underline{\text{EC}}$ component type-approval was granted/refused/withdrawn $\binom{2}{2}$ | |
| 9. | Place | |
| 10. | Date | |
| 11. | A note describing the seat, particularly the range of adjustment, the total weight, the suspension system characteristics, type and thickness of padding and directions for attachment, is attached to this certificate. Designs of the sides of the seat in DIN A4 form (210 x 297 mm) with a lateral and frontal view are enclosed with this note. \Rightarrow_1 This note must be sent to the competent authorities of the other Member States if they so request. | |

| 12. | Remarks |
|-----|--|
| 13. | Signature |
| (1) | In the case of a seat intended for a tractor in Class I or II, state the class(es) of the tractor(s) for which the seat is intended. |
| (2) | Delete whichever is inapplicable. |

ANNEX IV

DRIVER'S SEAT INSTALLATION REQUIREMENTS FOR <u>EEC</u> TYPE-APPROVAL OF A TRACTOR

- 1. Every driver's seat must bear the $\underline{\text{EC}}$ $\underline{\text{EC}}$ component type-approval mark and comply with the following installation requirements:
- 1.1. the driver's seat must be installed in such a way that:
- 1.1.1. the driver is assured of a comfortable position for driving and manoeuvring the tractor;
- 1.1.2. the seat is easily accessible;
- 1.1.3. the driver, when seated in the normal driving position, can easily reach the various controls of the tractor that are likely to be actuated during operation;
- 1.1.4. no part of any of the seat or tractor components is likely to cause the driver to suffer cuts or bruises;

↓ 1999/57/EC Art. 1

1.1.5. where the position of the seat is adjustable only lengthwise and vertically, the longitudinal axis passing through the seat reference point shall be parallel with the vertical longitudinal plane of the tractor passing through the centre of the steering wheel and not more than 100 mm from that plane;

↓ 78/764/EEC

- 1.1.6. where the seat is designed to revolve round a vertical axis it must be capable of being locked in all or certain positions and in any case in the position mentioned in point 1.1.5.
- 2. The holder of the $\underline{\text{EC}}$ $\underline{\text{EC}}$ type-approval may request that it be extended to other types of seat. The competent authorities must grant this extension on the following conditions:
- 2.1. the new type of seat has received $\underline{\text{EEC}} \underline{\text{EC}}$ component type-approval;
- 2.2. it has been designed to be installed on the type of tractor for which the extension of the <u>EEC</u> <u>EC</u> type-approval has been requested;
- 2.3. it is installed in such a manner as to comply with the installation requirements in this Annex.

♦ 83/190/EEC Art. 1 and Annex

- 3. Seats intended for tractors with a minimum rear-wheel track of not more than 1 150 mm may have the following minimum dimensions in respect of the depth and width of the seat surface:
 - depth of seat surface: 300 mm;
 - width of seat surface: 400 mm.

This provision is applicable only if the values specified for the depth and the width of the seat surface (i.e. 400 ± 50 mm and at least 450 mm respectively) cannot be adhered to on grounds relating to the tractor.

↓ 78/764/EEC

4. A certificate conforming to the model shown in Annex V is to be attached to the $\frac{\text{EEC}}{\text{EC}}$ EC type-approval certificate for each type-approval or extension of type-approval granted or refused.

↓ 78/764/EEC (adapted)

Name of administration

ANNEX V

ANNEX TO THE <u>EEC</u> TYPE-APPROVAL CERTIFICATE FOR A TRACTOR WITH REGARD TO THE DRIVER'S SEAT

(Article<u>s</u> 4 (2) and 10 of <u>Directive 2003/37/EC of the European Parliament and of the Council</u> of 26 May 2003 on type-approval of agricultural or forestry tractors, their trailers and interchangeable towed machinery, together with their systems, components and separate technical units and repealing Directive 74/150/EEC <u>Council Directive 74/150/EEC of 4</u> <u>March 1974 on the approximation of the laws of the Member States relating to the type-</u> <u>approval of wheeled agricultural or forestry tractors</u>)

| | | Ivanie of administration |
|-------|--|--|
| EEC I | <u>EC</u> type-approval No | |
| | | extension(¹) |
| 1. | Trade name or mark of tractor | |
| | | |
| 2. | Type of tractor | |
| 3. | Name and address of tractor manufacturer | |
| | | |
| 4. | If applicable, name and address of authorized representation | ative |
| | | |
| 5. | Trade name or mark of driver's seat and EC component | type-approval number |
| | | |
| 6. | Extension of $\underline{\text{EEC}}$ EC type-approval of the tractor to co | ver the following seat type |
| | | |
| 7. | Tractor submitted for <u>EEC</u> <u>EC</u> type-approval on | |
| 8. | Technical department responsible for checking conform | ity for the purpose of <u>EEC</u> |
| | <u>EC</u> type-approval | |
| | | |
| 9. | Date of report issued by that department | |
| 10. | Number of report issued by that department | |
| 11. | $\underline{\text{EEC}}$ $\underline{\text{EC}}$ type-approval with respect to the driver's seat | has been granted/refused(²) |

- An extension of <u>EEC</u> type-approval with respect to the driver's seat has been granted/refused(2) 12.
- 13. Place
- 14. Date
- 15. Signature
- Where appropriate, state whether the extension of the initial $\underline{\text{EEC}}$ $\underline{\text{EC}}$ type-approval is the first, second, etc. $(^{1})$

 $(^{2})$ Delete whichever is inapplicable.

1

ANNEX VI

Part A

Repealed Directive with list of its successive amendments (referred to in Article 12)

Council Directive 78/764/EEC (OJ L 255, 18.9.1978, p. 1)

1979 Act of Accession

Council Directive 82/890/EEC (OJ L 378, 31.12.1982, p. 45)

Commission Directive 83/190/EEC (OJ L 109, 26.4.1983, p. 13)

Point IX.A.15.(f) of Annex I to the 1985 Act of Accession (OJ L 302, 15.11.1985, p. 213)

Council Directive 87/354/EEC (OJ L 192, 11.7.1987, p. 43)

Commission Directive 88/465/EEC (OJ L 228, 17.8.1988, p. 31)

Point XI.C.II.3 of Annex I to the 1994 Act of Accession (OJ C 241, 29.8.1994, p. 206)

Directive 97/54/EC of the European Parliament and of the Council (OJ L 277, 10.10.1997, p. 24)

Commission Directive 1999/57/EC

(OJ L 148, 15.6.1999, p. 35)

Point I.A.27 of Annex II to the 2003 Act of Accession (OJ L 236, 23.9.2003, p. 61)

Council Directive 2006/96/EC (OJ L 363, 20.12.2006, p. 81)

Only as regards the reference to Directive 78/764/EEC in Article 1(1)

Point 9(f) of the Annex only

Second indent of Article 1 only

Only as regards the reference to Directive 78/764/EEC in Article 1 and point A.(26) of the Annex

Part B

List of time-limits for transposition into national law and application (referred to in Article 12)

| Directive | Time-limit for transposition | Date of application |
|------------|-----------------------------------|---------------------|
| 78/764/EEC | 29 January 1980 | - |
| 82/890/EEC | 21 June 1984 | - |
| 83/190/EEC | 30 September 1983 ^(*) | - |
| 87/354/EEC | 31 December 1987 | - |
| 88/465/EEC | 30 September 1988 ^(**) | - |
| 97/54/EC | 22 September 1998 | 23 September 1998 |
| 1999/57/EC | 30 June 2000 ^(***) | - |
| 2006/96/EC | 1 January 2007 | - |

(*) In conformity with Article 2 of Directive 83/190/EEC:

- "1. With effect from 1 October 1983, no Member State may refuse to grant EEC type approval, to issue the document referred to in the last indent of Article 10(1) of Directive 74/150/EEC or to grant national type approval in respect of a type of tractor, or
 - prohibit the entry into service of tractors,

if the driver's seat on this type of tractor or of these tractors complies with the provisions of this Directive.

- 2. With effect from 1 October 1984, Member States:
 - shall no longer issue the document referred to in the last indent of Article 10(1) of Directive 74/150/EEC in respect of a type of tractor in which the driver's seat does not comply with the provisions of this Directive,
 - may refuse to grant national type-approval in respect of a type of tractor in which the driver's seat does not comply with the provisions of the present Directive."
- (**) In conformity with Article 2 of Directive 88/465/EEC:
 - "1. From 1 October 1988, no Member State may:
 - (a) refuse, in respect of a type of tractor, to grant EEC type approval, to issue the document referred to in Article 10(1), final indent, of Directive 74/150/EEC, or to grant national type approval, or
 - prohibit the entry into service of tractors,

if the driver's seat on this type of tractor or tractors complies with the provisions of this Directive;

- (b) refuse, in respect of a type of driver's seat, to grant EEC component type approval or national type-approval if seats of that type comply with the provisions of this Directive, or
 - prohibit the placing on the market of driver's seats which bear the EEC component type approval mark issued in accordance with the provisions of this Directive.
- 2. From 1 October 1989, Member States:
 - (a) shall no longer issue the document referred to in Article 10 (1), final indent, of Directive 74/150/EEC in respect of a type of tractor the driver's seat of which does not comply with the provisions of this Directive,
 - may refuse to grant national type approval in respect of a type of tractor the driver's seat of which does not comply with the provisions of this Directive;
 - (b) shall not grant EEC component type approval in respect of a type of driver's seat if it does not comply with the provisions of this Directive,
 - may refuse to grant national component type approval in respect of a type of driver's seat if it does not comply with the provisions of this Directive."
- (***) In conformity with Article 2 of Directive 1999/57/EC:
 - "1. From 1 July 2000, Member States may not:
 - refuse to grant EC type-approval, to issue the document provided for in the third indent of Article 10(1) of Directive 74/150/EEC, or to grant national type-approval, in respect of any of tractor, or
 - prohibit the entry into service of tractors,

if the tractors in question meet the requirements of Directive 78/764/EEC, as amended by this Directive.

- 2. From 1 January 2001, Member States:
 - may no longer issue the document provided for in the third indent of Article 10(1) of Directive 74/150/EEC in respect of a type of tractor which does not meet the requirements of Directive 78/764/EEC, as amended by this Directive,
 - may refuse to grant national type-approval in respect of a type of tractor which does not meet the requirements of Directive 78/764/EEC, as amended by this Directive."

<u>ANNEX VII</u>

| Directive 78/764/EEC | This Directive |
|----------------------------|--|
| Articles 1 and 2 | Articles 2 and 3 |
| Article 3(1) | Article 4, first paragraph |
| Article 3(2) | Article 4, second and third paragraphs |
| Articles 4 and 5 | Articles 5 and 6 |
| Article 6, first sentence | Article 7, first paragraph |
| Article 6, second sentence | Article 7, second paragraph |
| Articles 7 and 8 | Articles 8 and 9 |
| Article 9 | Article 1 |
| Article 10 | Article 10 |
| Article 11(1) | - |
| Article 11(2) | Article 11 |
| - | Article 12 |
| - | Article 13 |
| Article 12 | Article 14 |
| Annex I | Annex I |
| Annex II | Annex II |
| Appendices 1 to 4 | Appendices 1 to 4 |
| Appendix 5a | Appendix 5 |
| Appendix 5b | Appendix 6 |
| Appendix 6 | Appendix 7 |
| Appendix 7 | Appendix 8 |
| Appendix 8 | Appendix 9 |
| Annexes III, IV and V | Annexes III, IV and V |

| - | Annex VI |
|---|-----------|
| - | Annex VII |