NATIONAL STANDARDS COMMISSION

S140
1/12/86

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

SUPPLEMENTARY CERTIFICATE OF APPROVAL No S140

This is to certify that an approval for use for trade has been granted in respect of the pattern and variants of the

Yamato Model UB7-200-C3E Load Cell

submitted by Yamato Scale (Australia) Pty Ltd
16 Gertrude Street
Arncliffe NSW 2205.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/1/88.
This approval expires in respect of new instruments on 1/1/89.

Instruments incorporating a load cell purporting to comply with this approval shall be marked NSC No S140 in addition to the approval number of the instrument.

This approval may be withdrawn if load cells are constructed and used other than in accordance with the drawings and specifications lodged with the Commission.

The number of scale intervals applicable to any weighing instrument in which these load cells are used shall be no greater than the number of verification scale intervals approved for the basework, or the load cell(s), or the headwork, whichever is the smallest.

The load cells shall be subject to regular certification by the Commission.

Signed

J Birch.

Executive Director

Descriptive Advice

Pattern: approved 19/11/82

- Yamato model UB7-200-C3E load cell of 200 kg capacity.

Variant: approved 19/11/82

1. Of 300 kg capacity and known as a model UB7-300-C3E.

Technical Schedule No S140 describes the pattern and variant 1.

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Variants: approved 20/4/83

2. Of 600 kg capacity and known as a model UB7-600-C3E.

3. Of 20 kg capacity and known as a model UB7-20-C3E.

Technical Schedule No S140 Variation No 1 describes variants 2 and 3.

Variant: approved 25/8/83

4. Of 50 kg capacity and known as a model UB7-50-C3E.

Technical Schedule No S140 Variation No 2 describes variant 4.

Variant: approved 3/10/86

5. Of 100 kg capacity and known as a model UB7-100-C3E.

Technical Schedule No S140 Variation No 3 describes variant 5.

Filing Advice

Supplementary Certificate of Approval No S140 dated 26/9/83 is superseded by this Certificate and may be destroyed.

The documentation for this approval now comprises:

Supplementary Certificate of Approval No S140 dated 1/12/86
Technical Schedule No S140 dated 9/2/83
Technical Schedule No S140 Variation No 1 dated 16/5/83 (incl. Table 1)
Technical Schedule No S140 Variation No 2 dated 26/9/83 (incl. Table 2)
Technical Schedule No S140 Variation No 3 dated 1/12/86 (incl. Table 3)
Figures 1 to 4 dated 9/2/83
Figure 5 dated 16/5/83

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No S140

Pattern: Yamato UB7-200-C3E Load Cell Of 200 kg Capacity.

Submittor: Yamato Weighing Systems
16 Gertrude Street
ARNCLIFFE, NSW, 2205.

1. Description of Pattern

The pattern is a Yamato load cell model UB7-200-C3E of 200 kg capacity (refer Figure 1 and Table 1), assembled in a Commission-approved basework.

1.1 Method of Mounting

Mounting is to be in accordance with one of the methods shown in Figures 2 to 4.

1.2 Marking

The following is the minimum data required to be marked on the load cell:

Manufacturer's name or mark
Model number
Serial number
Output in the form 2mV/V
Maximum rated capacity

2. Description of Variant

2.1 Variant 1

Model UB7-300-C3E of 300 kg capacity as described in Table 1.

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TECHNICAL SCHEDULE No S140

TABLE 1

Type Yamato	UB7-200-C3E	UB7-300-C3E
Capacity	200 kg	300 kg
Maximum number of verification scale intervals	3000	3000
Minimum Dead load	20 kg	25 kg
Minimum Scale Interval	0.02 kg	0.05 kg
Maximum Capacity	200 kg	300 kg
Cable length (±0.1m)	2 m	2 m

Yamato UB7 Load Cell - Approved Capacities.

9/2/83

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No S140

VARIATION No 1

Pattern: Yamato UB7-200-C3E Load Cell Of 200 kg Capacity.

Submittor: Yamato Weighing Systems Pty Ltd
16 Gertrude Street
ARNCLIFFE, NSW, 2205.

1. Description of Variants

1.1 Variant 2

Model UB7-600-C3E of 600 kg capacity as specified in Table 1, and mounted in accordance with one of the methods shown in Figures 2 to 5.

1.2 Variant 3

Model UB7-20- C3E of 20 kg capacity as specified in Table 1, and mounted in accordance with either Method (B) (shown in Figure 2) or Method (D) (shown in Figure 3).

TABLE 1

Type: Yamato	UB7-20-C3E	UB7-200-C3E	UB7-300-C3E	UB7-600-C3E
Maximum capacity	20 kg	200 kg	300 kg	600 kg
Maximum number of verification scale intervals	3000	3000	3000	3000
Minimum dead load	0.9 kg	20 kg	25 kg	25 kg
Minimum scale interval	0.002 kg	0.02 kg	0.05 kg	0.10 kg
Cable length ($\pm$0.1m)	2 m	2 m	2 m	2 m

Yamato UB7 Series Load Cells - Approved Capacities.

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No S140

VARIATION No 2

Pattern: Yamato UB7-200-C3E Load Cell Of 200 kg Capacity.

Submittor: Yamato Scale (Australia) Pty Ltd
16 Gertrude Street
ARNCLIFFE, NSW, 2205.

1. Description of Variant 4

Model UB7-50-C3E of 50 kg capacity as specified in Table 2, and mounted in accordance with either Method (B) (shown in Figure 2) or Method (D) (shown in Figure 3).

TABLE 2

Type: Yamato	UB7-50-C3E
Maximum capacity	50 kg
Maximum number of verification scale intervals	2000
Minimum dead load	2.5 kg
Minimum scale interval	0.005 kg
Cable length ($\pm$0.1m)	2 m
Input impedance (nominal)	350 Ω
Supply voltage	10 V AC or DC
Number of leads	6

Yamato UB7 Series Load Cells - Approved Capacities.

26/9/83

TECHNICAL SCHEDULE No S140

VARIATION No 3

Pattern: Yamato Model UB7-200-C3E Load Cell

Submittor: Yamato Scale (Australia) Pty Ltd
16 Gertrude Street
Arncliffe NSW 2205.

1. Description of Variant 5

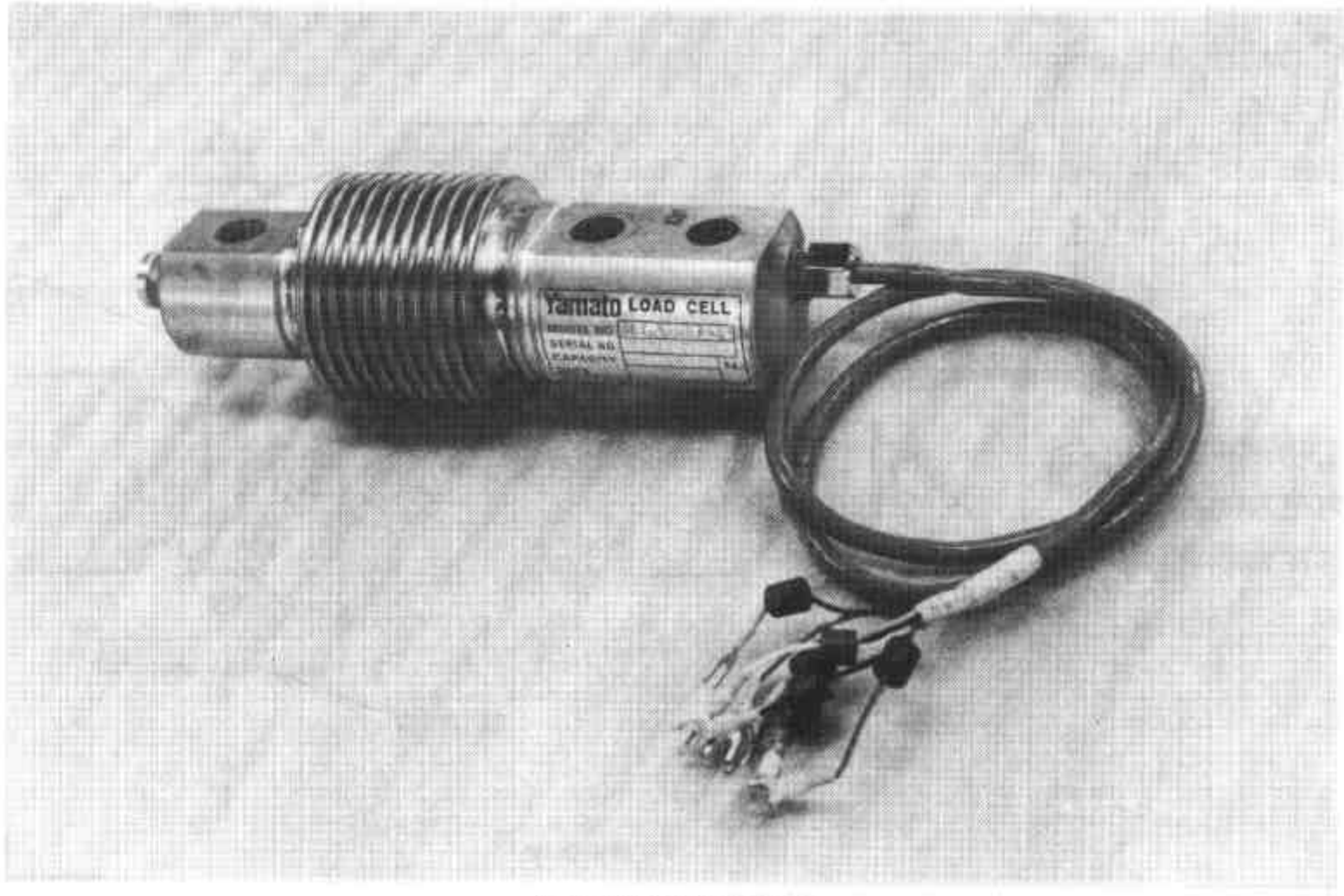
Model UB7-100-C3E load cell of 100 kg capacity as specified in Table 3, and mounted in accordance with one of the methods shown in Figures 2 to 5.

TABLE 3

Type: Yamato	UB7-100-C3E
Maximum capacity	100 kg
Maximum number of verification scale intervals	(a) 1500 (b) 1500 (c) 1500 (d) 1500
Minimum value of verification scale interval	(a) 0.02 kg (b) 0.02 kg (c) 0.02 kg (d) 0.02 kg
Output rating (nominal)	2.0 mV/V
Input impedance (nominal)	350 ohms
Supply voltage (AC or DC)	10 to 15 V
Cable length (± 0.1 m)	2 m
Number of leads (plus shield)	6

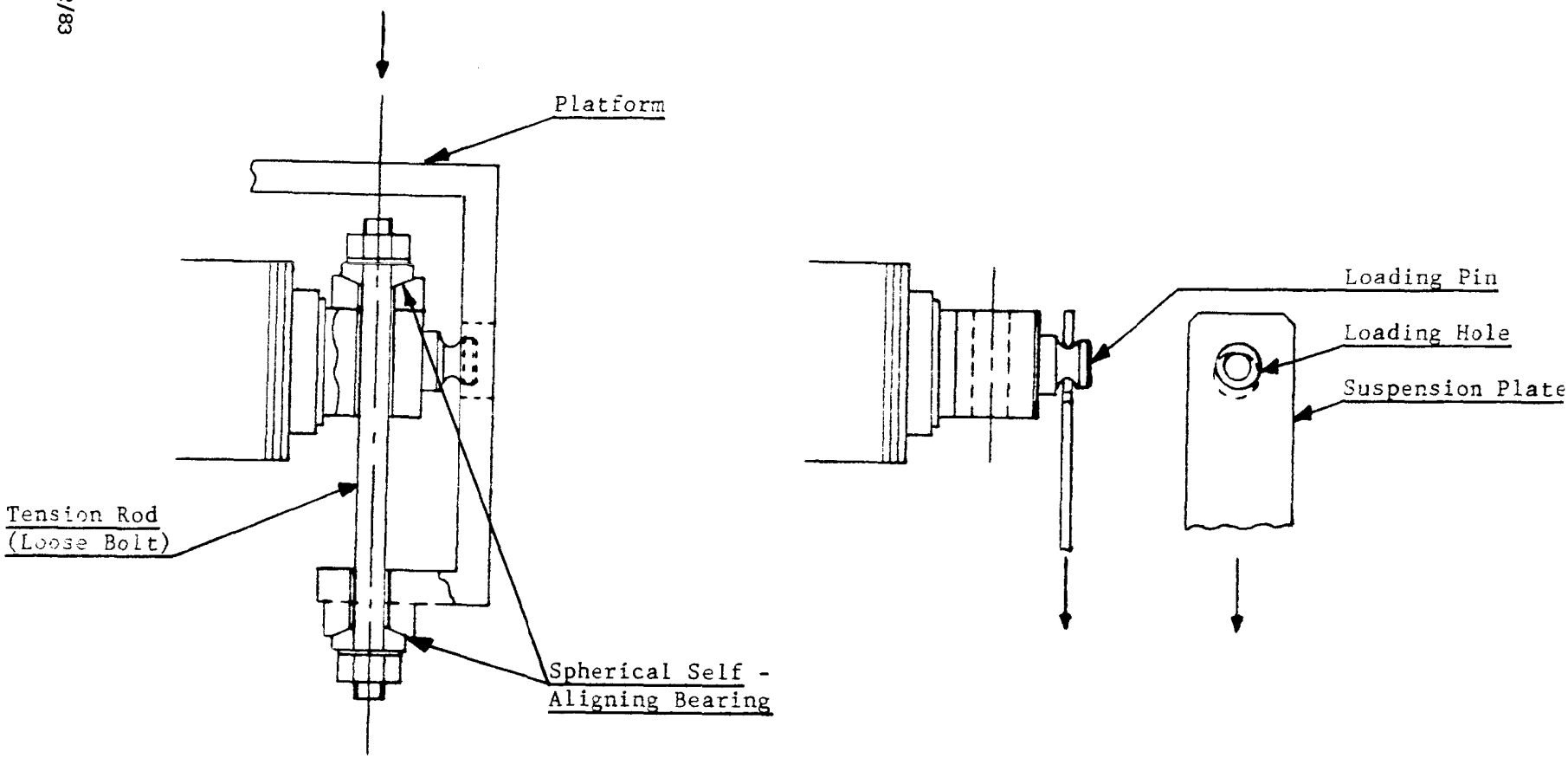
(a) Instruments with automatic zero track - multi cell applications
(b) Instruments with automatic zero track - single cell applications
(c) Instruments without automatic zero track - multi cell applications
(d) Instruments without automatic zero track - single cell applications

FIGURE S140 - 1



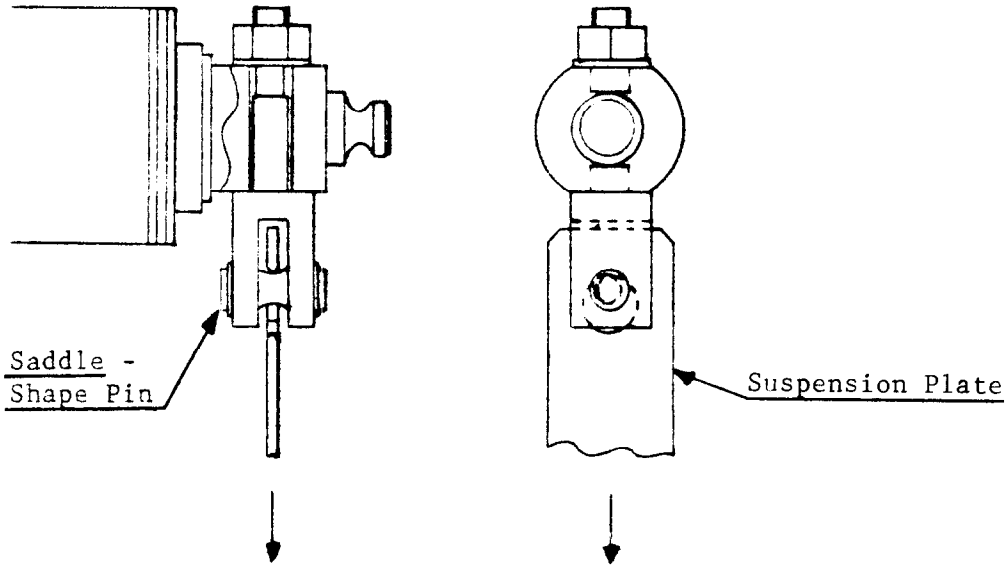
Yamato U87 Series Load Cell

FIGURE S140 - 2

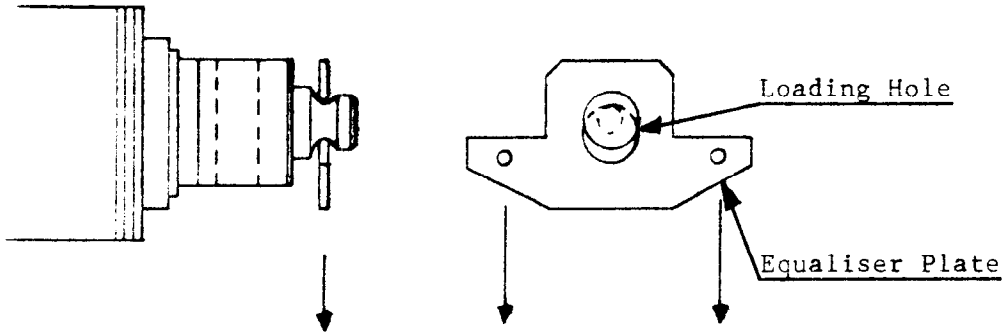


Alternative Mounting Methods

FIGURE S140 - 3



Method (C)

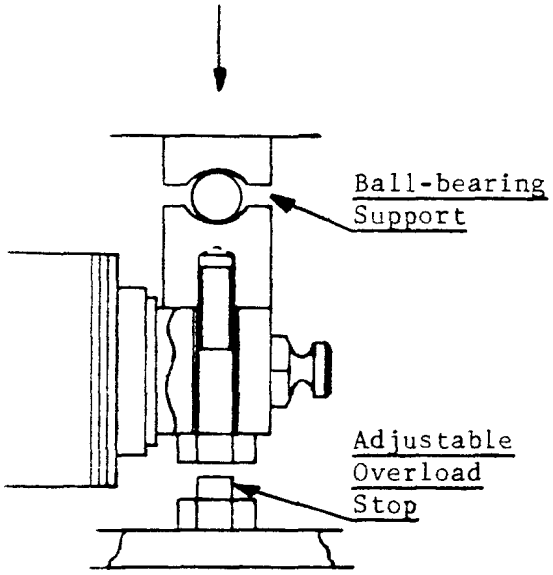


Method (D)

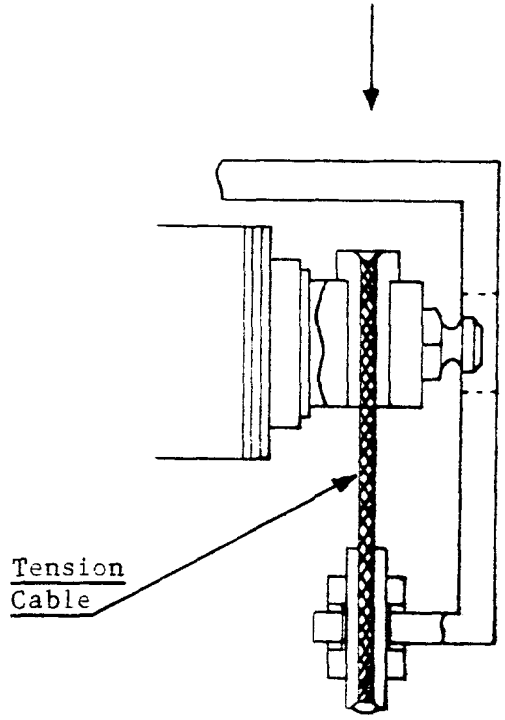
Alternative Mounting Methods

9/2/83

FIGURE S140 - 4



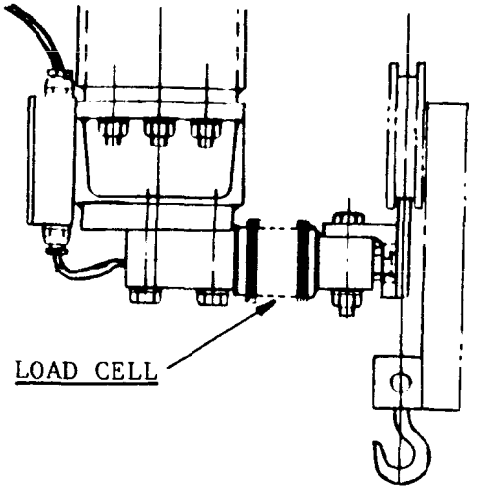
Method (E)



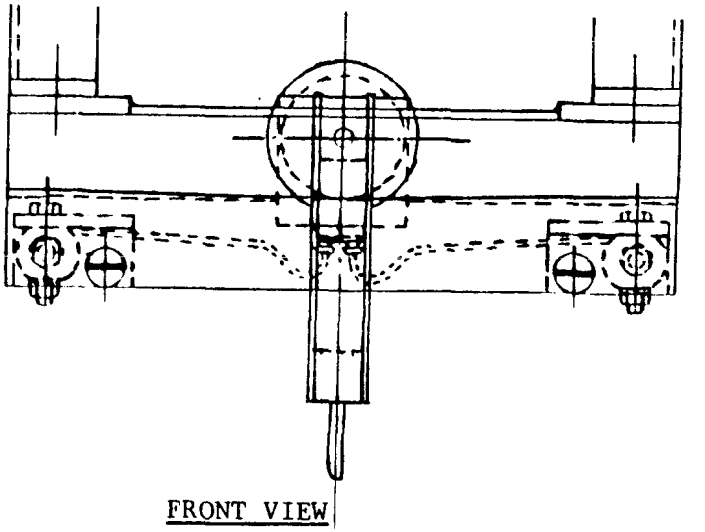
Method (F)

Alternative Mounting Methods

FIGURE S140 - 5



SIDE VIEW



FRONT VIEW

Mounting Method For An Overhead Track Weigh Rail Assembly