

S.E.Rly. C.E.'s Circular No.112 of 1991 dt. 13.2.91 circulated to all concerned for information & guidance.

Sub :- The Standard practice of key driving in different types of sleepers

The standard practice of key driving in different types of sleepers shall be as enumerated below :-

1. Single line.

1.1 CST-9 Sleeper

For single rail fishplated track, SWR and LWR the keys shall be driven in reverse direction on alternate sleepers. All the keys in one sleeper shall be driven in the same direction.

1.2 Steel trough sleeper

The outer keys on a sleeper should be in one direction and the inner keys in the opposite direction. The pattern of driving keys in alternate sleepers should be reversed as in 1.1 above.

3 Wooden sleeper

- (a) The same scheme of driving keys as in CST-9 sleepers as in para 1.1 above will be followed in case of wooden sleepers with anti-creep bearing plates having single key configuration.
- (b) Scheme of driving keys will be as per steel sleepers in para 1.2 above in case of wooden sleepers with anticreep bearing plates with double keys configuration.

2. Double line.

2.1 CST-9 sleeper

- (a) On fishplated track and SWR the direction of 75% keys should be in the direction of traffic and 25% in opposite direction.
- (b) For LWR in the non-breathing portion, 75% keys should be driven in the direction of traffic and 25% in the opposite direction. In breathing lengths, the keys should be driven in one direction in one sleeper and in opposite direction in the next sleeper and the scheme followed up in subsequent sleepers.

This is in conformity with Annexure VII para (vi) of LWR manual.

2.2. ST-Sleeper

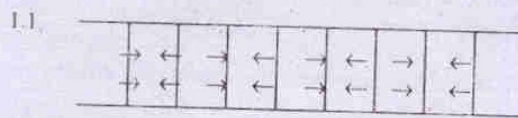
(a) In case of single rail fishplated track and SWR, 75% sleepers should have all 4 keys driven in the direction of traffic and 25% sleepers should have all 4 keys in the reverse direction.

(b) In case of long welded rails in the non-breathing in length, 75% sleepers should have all 4 keys driven in the direction of traffic and 25% sleepers should have all the keys in reverse direction of traffic. In breathing length on a sleeper the two inner key should be driven in one direction and the outer keys in the other direction. Also direction of keys should be reversed in alternate sleeper-so as to prevent relative movement between the rail and the sleeper in the breathing length.

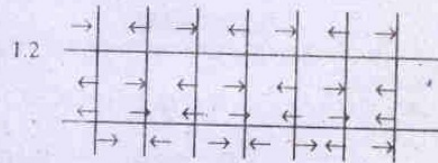
3. The graphic representation is given in the Annexure for all patterns of key driving.

Annexure-1

Standard practice of key driving in different types of sleepers SINGLE LINE

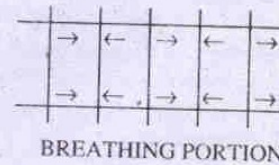
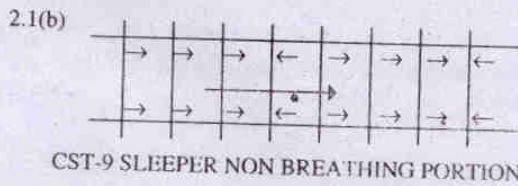
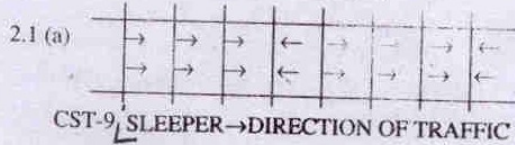


CST-9 Sleeper

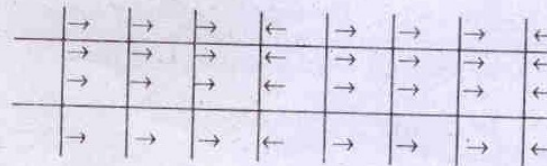


Steel trough sleeper

DOUBLE LINE



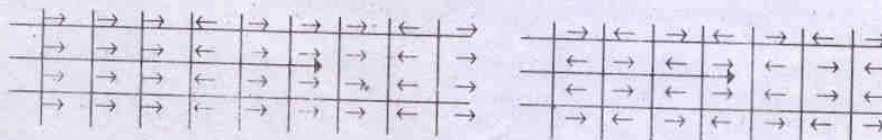
2.2 (a)



→ DIRECTION OF TRAFFIC

Steel trough sleeper

2.2 (b)



NON BREATHING PORTION

BREATHING PORTION