

Brake Lever Guards or Guides

General Assembly Guidance

Notes:

There are up to 6 components per brake lever guard, the number depends on the design - for example the GER ratchet item is one component.

In most instances two pin chains are supplied per lever guard as they are fragile and easily lost.

1. Do not remove the guard from the etch frame until it is assembled.
2. The parts are aligned to assist construction
3. For most guards the shield can be folded over to hold it to the lever rest/solebar part until fixed together.
4. A small half etched "dot" indicates a sharp bend point.
5. A long half etched slot indicates a gentle bend.
6. For RCH style guard shields also bend the component where the half etched section ends - at the bottom of the guide



- ← Alignment points
- ★ Alignment for axleguard ties
- ⊗ Extra bend points

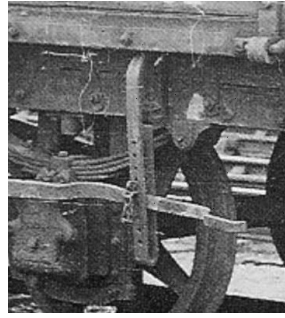
The following pages also describe the different guards in the AMBIS range.



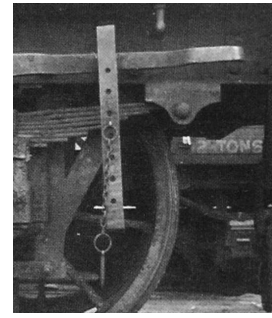
Standard RCH type with axleguard tie with a central tab.



Standard RCH type without an axleguard tie.



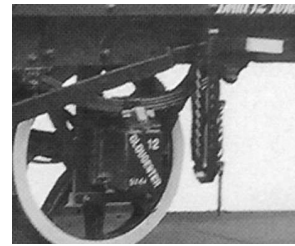
Earlier type with curved top to shield.



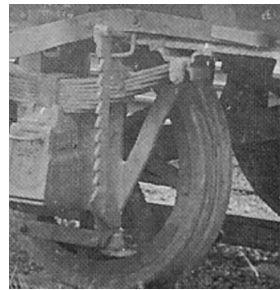
Earlier type with 7 pin holes.



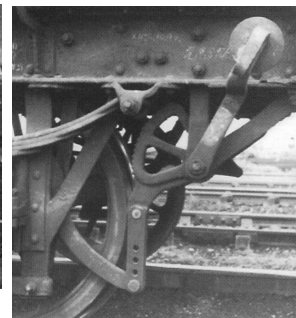
"Half Open" type used by NBR



Some later and heavier wagons in South Wales are used both pin down and ratchet brakes.



The GER used an open ratchet type tied to the axleguard.



Dean Churchward brake handle and ratchet.



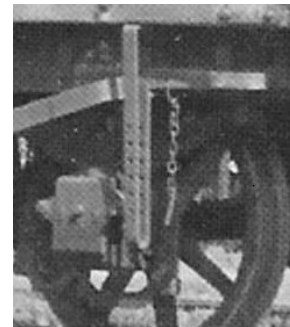
Early GWR ratchet brake guard.



Later GWR ratchet brake guard with axleguard tie.



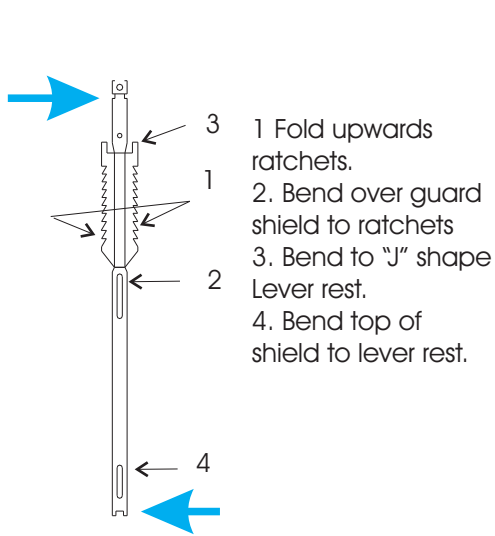
NER 20Ton wood hopper wagons had long travel brake guards.



The pin down chain can be attached to a brake lever not the guard shield.

A selection of brake lever guard types. The ratchet system was used by many companies than the GWR. The variations were greater on the earlier wagons. But by the 1930's the Railway Clearing House pattern was probably the most common on new wagons.. AMBIS make a number of designs to try to represent this variety.

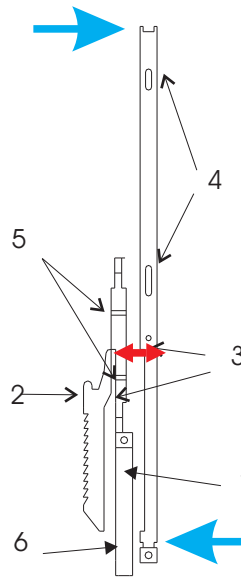
Brake Lever Guards or guides - Assembly



- 1 Fold upwards ratchets.
2. Bend over guard shield to ratchets
3. Bend to "J" shape
4. Bend top of shield to lever rest.

GWR Early Ratchet

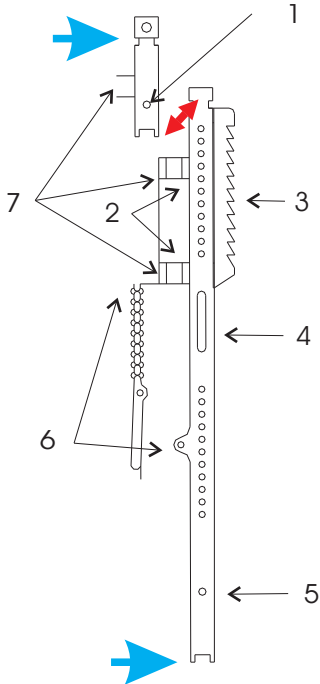
BLG11A



1. Remove strap to axleguard,
- 2 Fold upwards ratchet.
3. Bend up shield to fit ratchet item.
4. Bend shield over ratchet and fix at bottom.
5. Fold backwards solebar bracket for iron solebars.
6. Add axleguard strap if required.

GWR Later ratchet

BLG11A

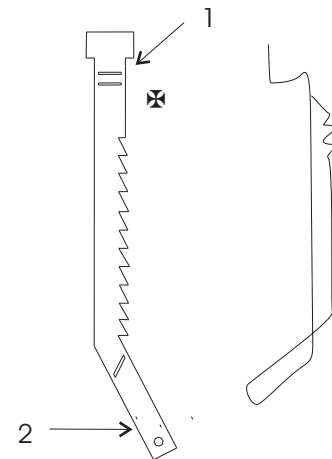


- 1 Fold upwards lever rest.
2. Fold over shield to make "U" shape over lever rest and fix to rest.
3. Fold upwards ratchet.
4. Bend over guard shield to ratchet.
5. Bend shield over to lever rest and fix. Lever rest.
6. Attach pin/chain to tab.
7. Remove guard from etch frame.

Severn Valley Ports
Pin & Ratchet

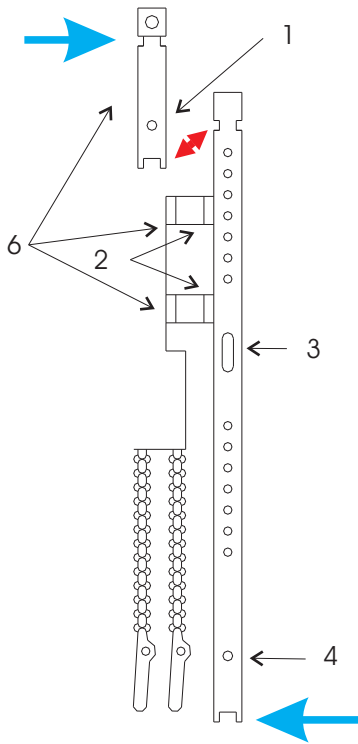
BLG12

- 1 Bend through a right angle the upper section. Forming the lever rest.
2. Fold over bottom part - it attaches to the axleguard.



GER Open Ratchet

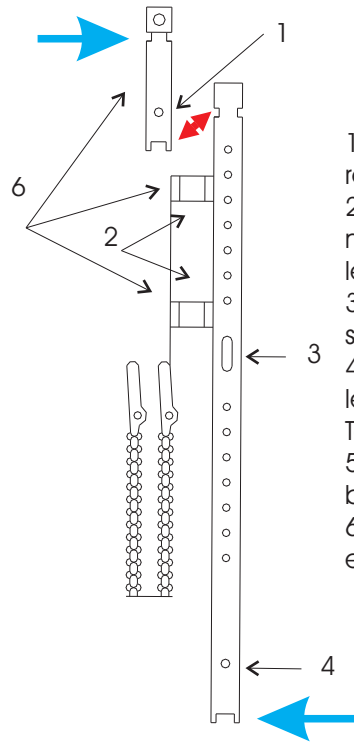
BLG7



- 1 Fold upwards lever rest.
2. Fold over shield to make "U" shape over lever rest and fix to rest.
3. Bend over guard shield.
4. Bend shield over to lever rest and fix to lever rest.
5. Attach pin/chain to brake lever.
6. Remove guard from etch frame.

Short 7hole
For fitted stock

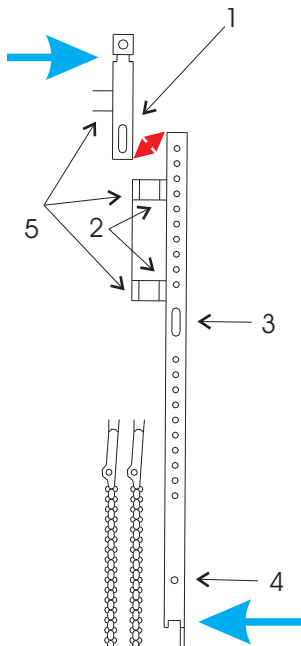
BLG4A



- 1 Fold upwards lever rest.
2. Fold over shield to make "U" shape over lever rest and fix to rest.
3. Bend over guard shield.
4. Bend shield over to lever rest and fix to lever rest.
5. Attach pin/chain to brake lever.
6. Remove guard from etch frame.

Pre-Group
7 Hole

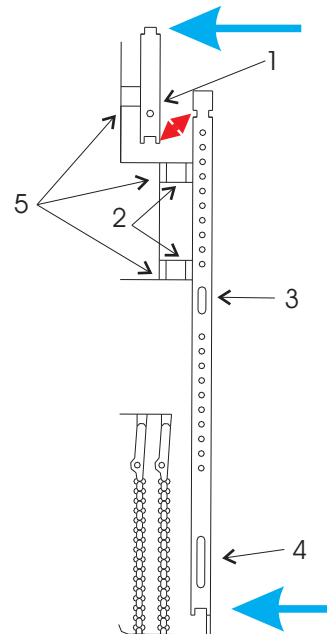
BLG4B



- 1 Bend upwards lever rest.
2. Fold over shield to make "U" shape over lever rest and fix to rest.
3. Bend over guard shield.
4. Bend shield over to lever rest and fix to lever rest.
5. Remove guard from etch frame.
6. Attach pin/chain to brake lever.

Pre Group
10 hole with
Rounded lever rest

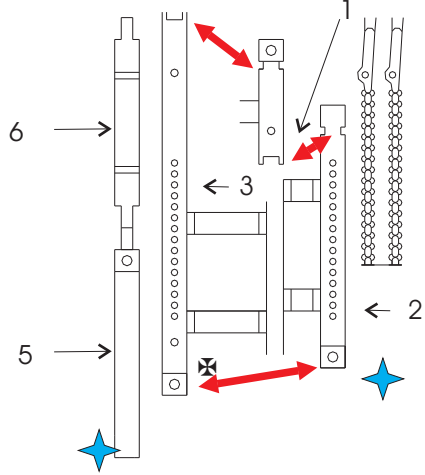
BLG8B



- 1 Fold upwards lever rest.
2. Fold over shield to make "U" shape over lever rest and fix to rest.
3. Bend over guard shield.
4. Bend shield over to lever rest and fix to lever rest.
5. Remove guard from etch frame.
6. Attach pin/chain to brake lever.

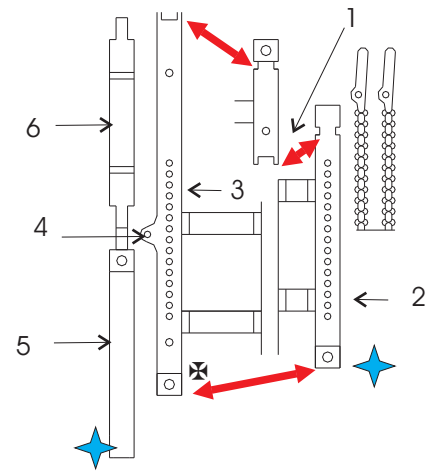
Pre Group
10 hole with
curved top shield

BLG8A



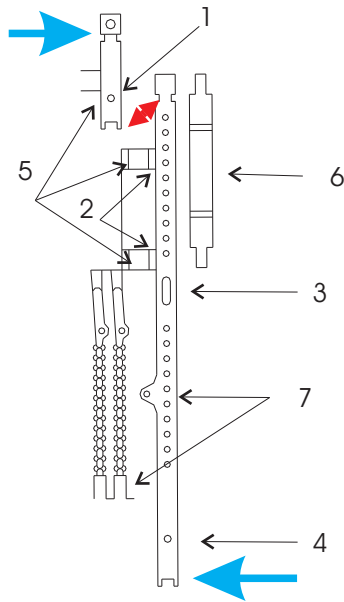
RCH Long Chain
BLG3B

- 1 Bend upwards lever rest.
2. Fold over guard to make "U" shape over lever rest and fix to rest.
3. Fold over shield at "X" to make a "U" shape over guard /rest and fix to guard and rest.
4. Attach pin chain to tab or guard shield or brake lever.
5. Add axleguard tie to bottom of guard.
6. Fold Up and add bracket for iron solebars ONLY
7. Attach pin/chain to brake lever.



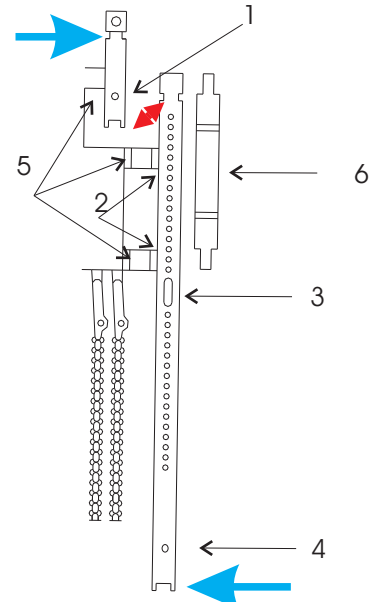
RCH Short Chain
BLG3 and BLG3A

- 1 Bend upwards lever rest.
2. Fold over shield to make "U" shape over lever rest and fix to rest.
3. Bend over guard shield.
4. Bend shield over to lever rest and fix to lever rest.
5. Remove guard from etch frame.
6. Fold up and add bracket for iron solebars ONLY.
7. Attach pin/chain to tab.

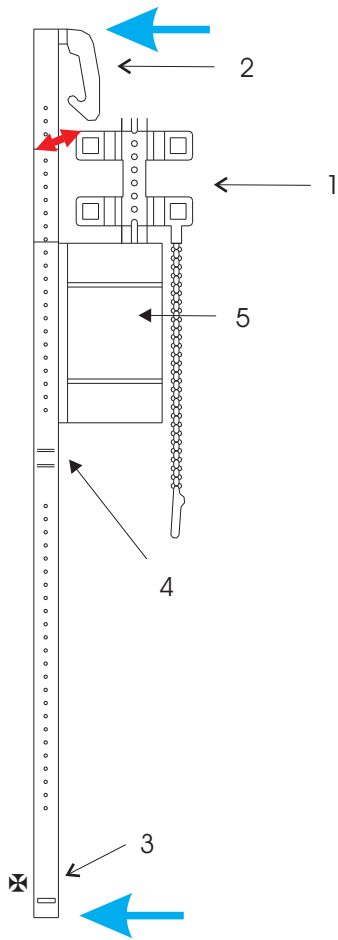


Pre-Group
10 Hole
BLG11A

- 1 Bend upwards lever rest.
2. Fold over shield to make "U" shape over lever rest and fix to rest.
3. Bend over guard shield.
4. Bend shield over to lever rest and fix to lever rest.
5. Remove guard from etch frame.
6. Fold Up and add bracket for iron solebars ONLY
7. Attach pin/chain to brake lever.



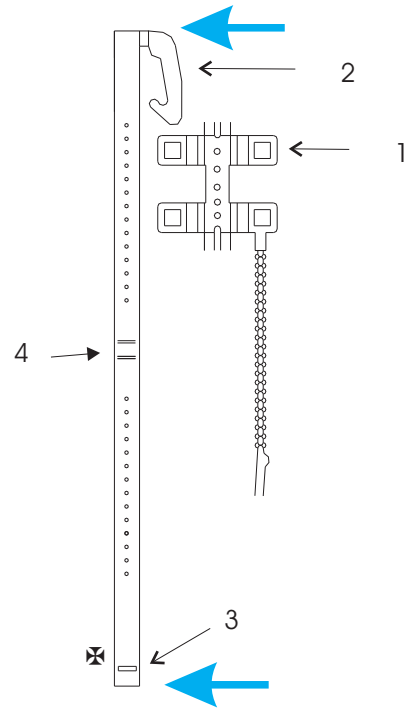
Pre-Group
16 hole
BLG11A



1. Cut out lever guard and fix to mounting plate.
2. Fold up the lever rest.
3. Bend up end of the lever guard shield.
4. Fold over the shield to meet the top of the guard and fix.
5. For iron solebars on 20T hoppers fold up the filler plate and fix behind the guard mounting bracket.

NE 20T Hopper guard

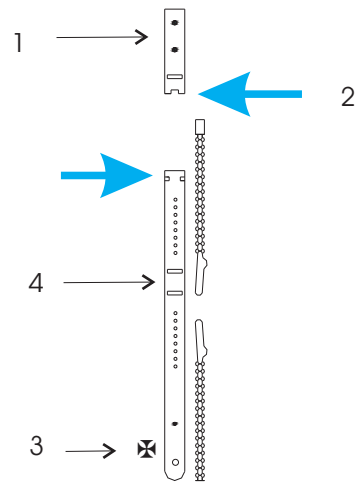
BLG6



NE 12T Hopper guard

BLG6A

1. Fold the lever rest.
2. Cut out the guard and fix the guard to the lever rest.
3. Bend over (top) the lower section of the lever guard and bend to fit the curb rail of the wagon.
4. Fold the guard shield over the lever guide.
5. Attach the pin chain.



NBR "Half Open" guard

BLG10