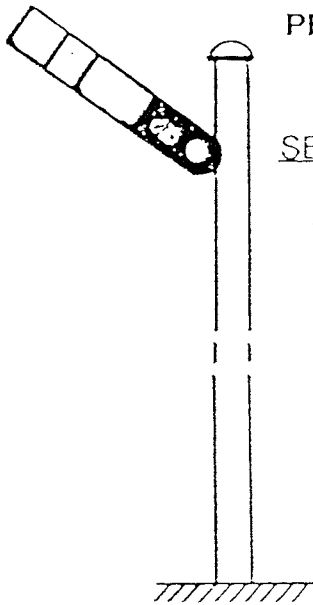


DIRECTOR OF S & T ENGINEERING.
WEST MIDLANDS PROJECTS GROUP.

UNDERSTANDING CERTAIN SELECTED
SIGNALLING TERMS

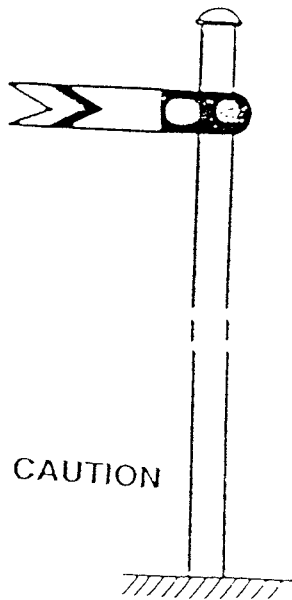


PROCEED

SEMAPHORE

SIGNALS

OR



CAUTION

OR

4 ASPECT

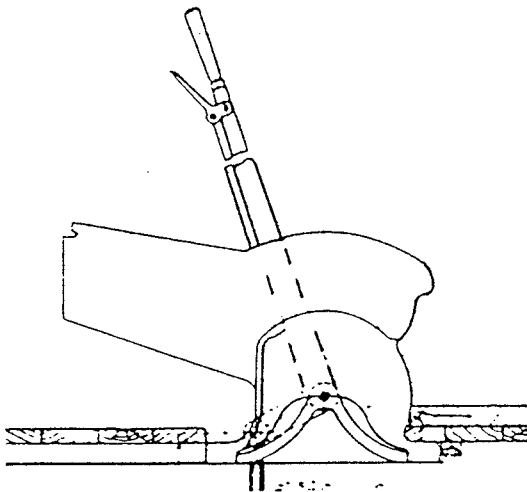
COLOUR LIGHT
SIGNALS



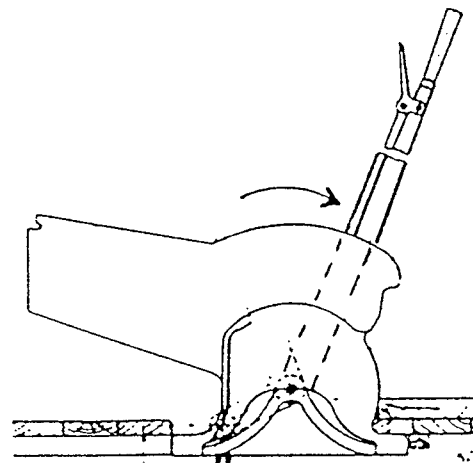
CAUTION



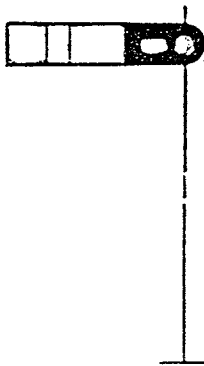
UNDERSTANDING CERTAIN SELECTED SIGNALLING TERMS



Lever Normal



Lever Reverse



Signal "ON"
at DANGER



Signal "OFF"
PROCEED



Signal "ON"
RED
aspect displayed



Signal "OFF"
YELLOW
aspect displayed

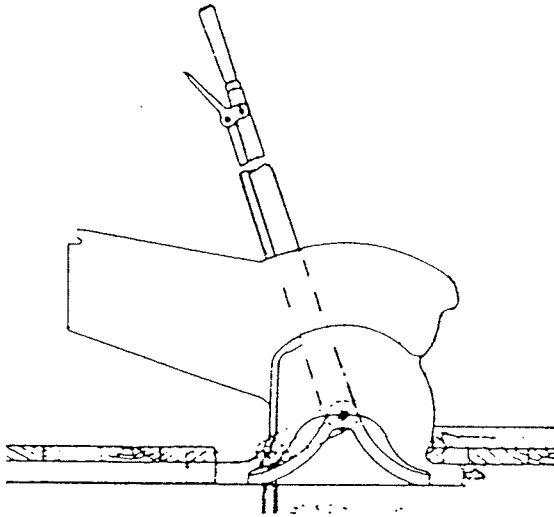
OR



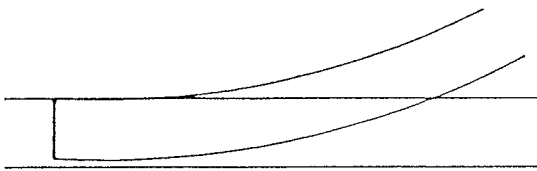
Signal "OFF"
GREEN
aspect displayed

UNDERSTANDING CERTAIN SELECTED SIGNALLING TERMS

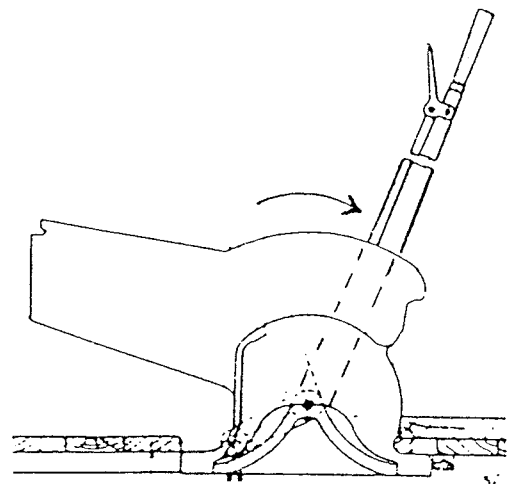
SIGNALLING TERMS
(POINTS)



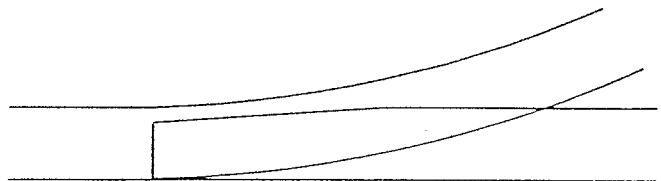
Lever Normal



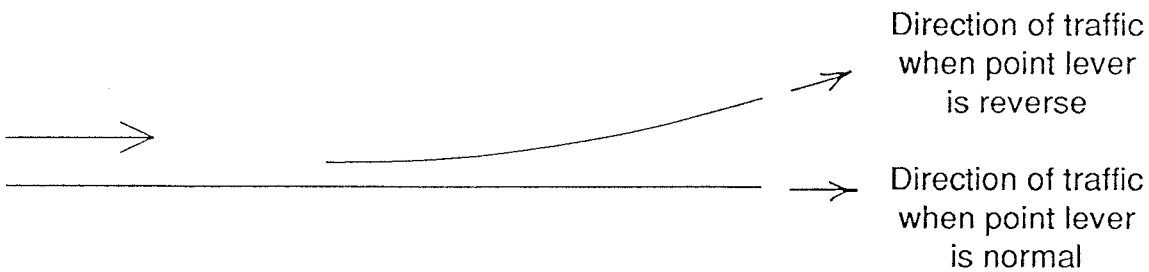
Lie of the points on the ground when the point lever is in the **NORMAL** position.



Lever Reverse

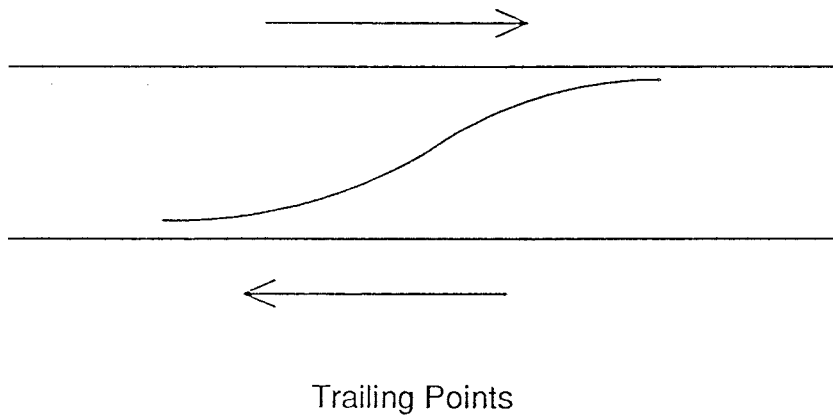
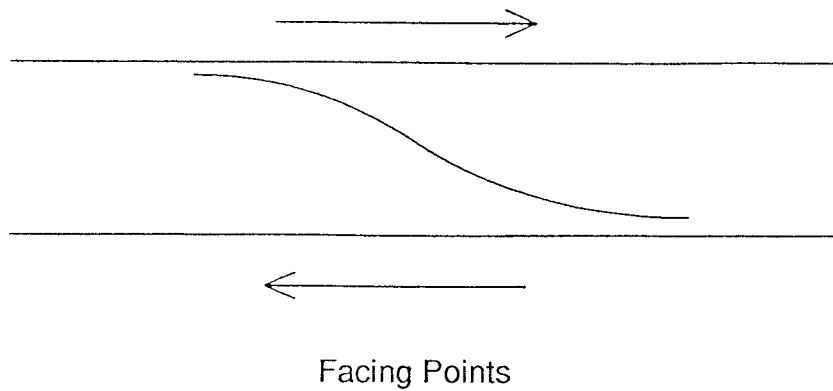


Lie of the points on the ground when the point lever is in the **REVERSE** position.

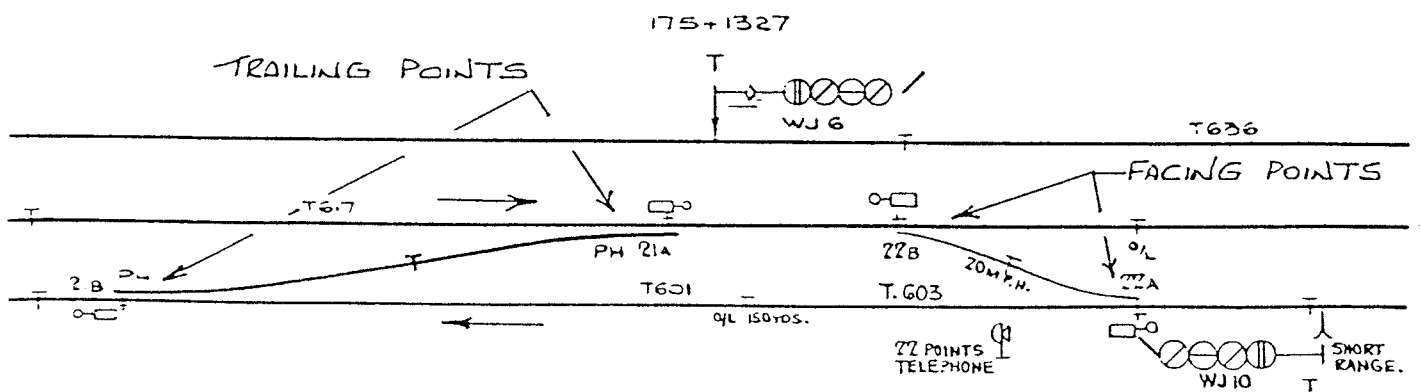


IMPORTANT :- On a Signalling scheme plan, the points are **ALWAYS** shown in their **NORMAL** position (ie. If worked from a Lever Operated Signal Box the point lever will be in the **NORMAL** position).

UNDERSTANDING CERTAIN SELECTED SIGNALLING TERMS



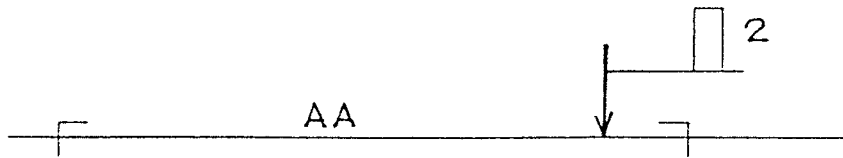
Extract From Weaver JCN Scheme Plan.



continued

UNDERSTANDING CERTAIN SELECTED SIGNALLING TERMS

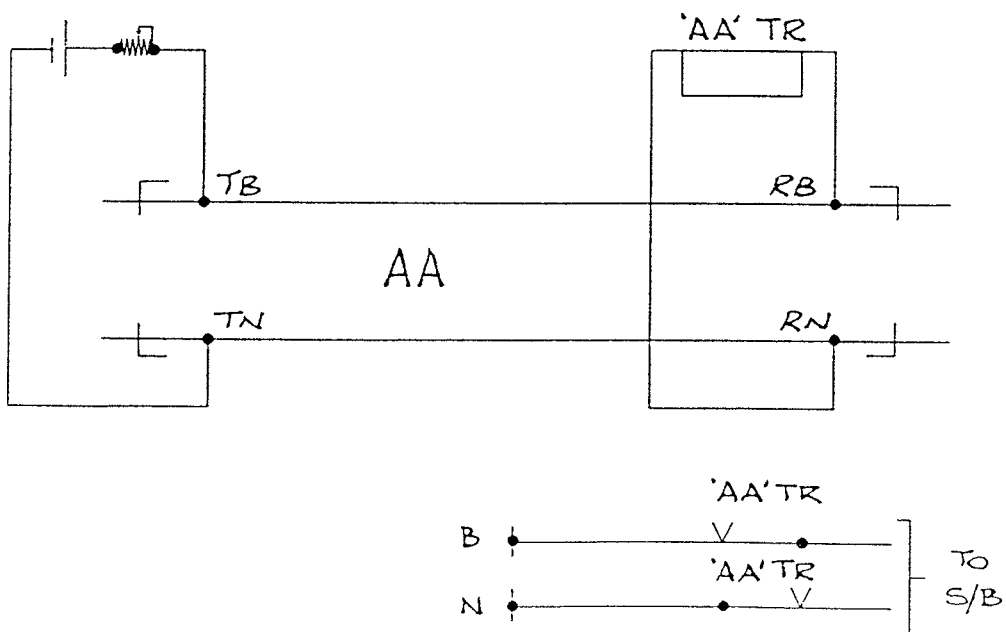
TRACK CIRCUITS



Track circuits are shown on a Signalling Scheme Plan as above.

A Track Circuit proves the clearance of a stretch of line between “defined limits” (ie. **NOT** occupied by train or any fault condition prevalent).

A SIMPLE DIRECT CURRENT TRACK CIRCUIT

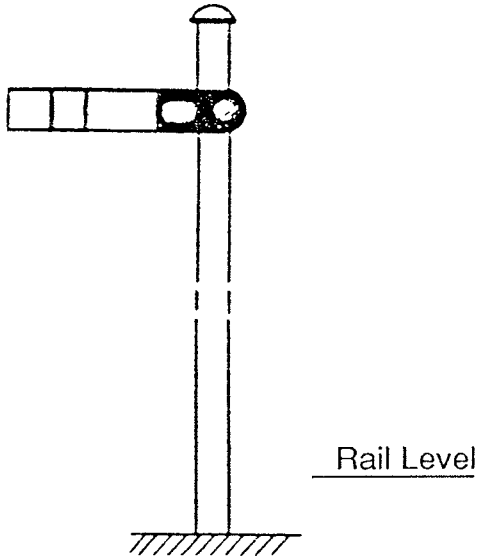


continued

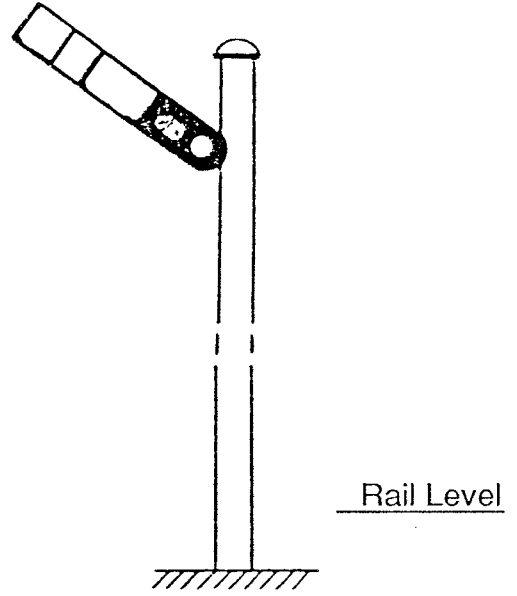
UNDERSTANDING CERTAIN SELECTED SIGNALLING TERMS

TYPES OF SIGNALS (SEMAPHORE)

STOP SIGNAL

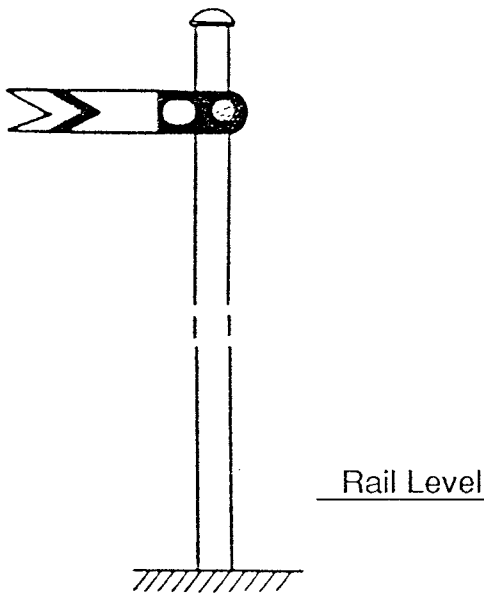


DANGER - STOP

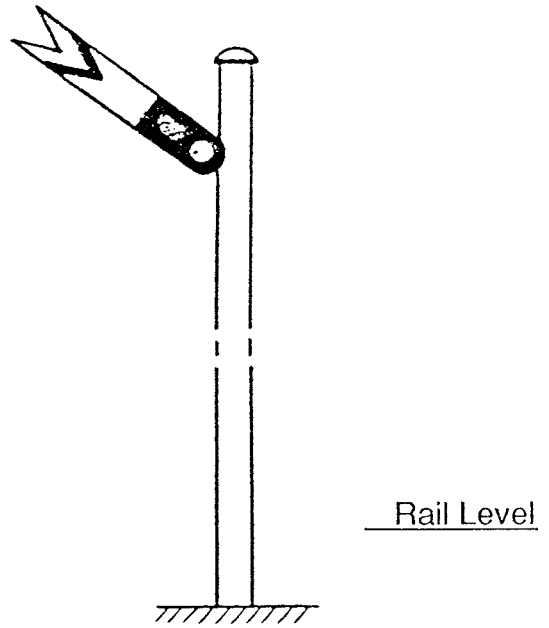


**PROCEED - As Far As The
Next Stop Signal**

DISTANT SIGNAL



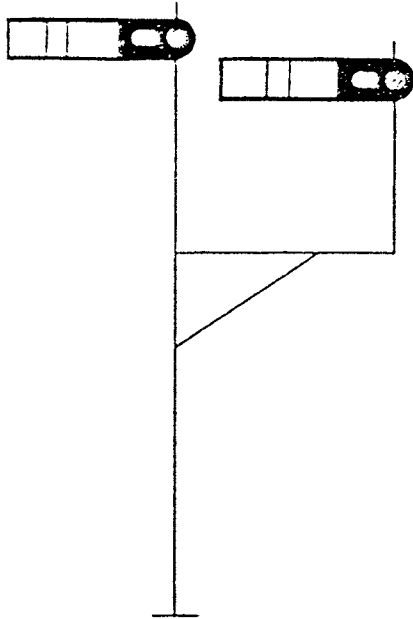
CAUTION
Prepare To Stop At
Next Stop Signal



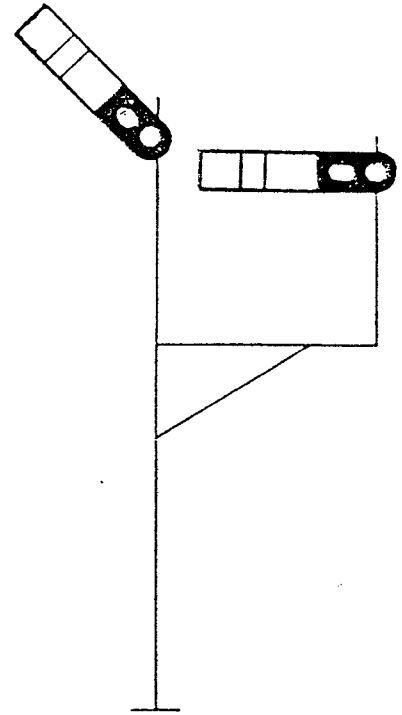
PROCEED

UNDERSTANDING CERTAIN SELECTED SIGNALLING TERMS

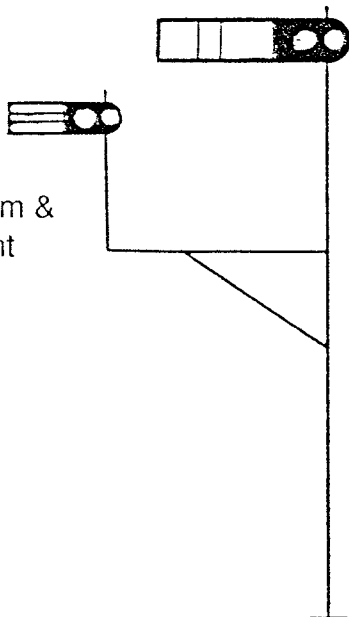
JUNCTION SIGNALS



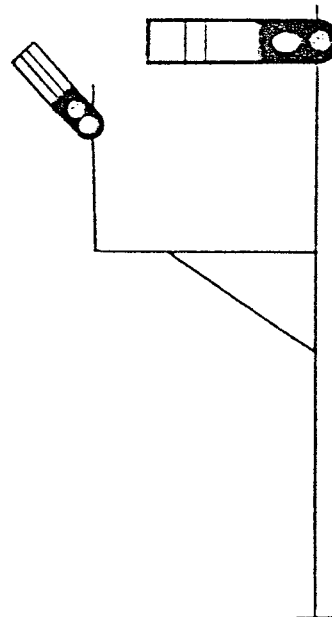
STOP



PROCEED - On Higher
Speed Route



Miniature arm &
Small light



PROCEED AT CAUTION - On to a
"No Block" line, or into a dead end
siding, or into a yard where the route
may be either occupied or clear.

continued

UNDERSTANDING CERTAIN SELECTED SIGNALLING TERMS

SUBSIDIARY SIGNAL CALLING ON



Letter **C** displayed only when arm is **OFF**. Small Green Light.

Used where "**Permissive Working**" is in force, Call-On is controlled so that it cannot be pulled unless "**Block Instrument**" is at "**Train On Line**" or Track Circuit is occupied before the next signal is reached.

When subsidiary signal is "**ON**" **WHITE LIGHT** is displayed.

PROCEED AT CAUTION - Line is **NOW OCCUPIED** before the next stop signal is reached.

SUBSIDIARY SIGNAL SHUNT - AHEAD



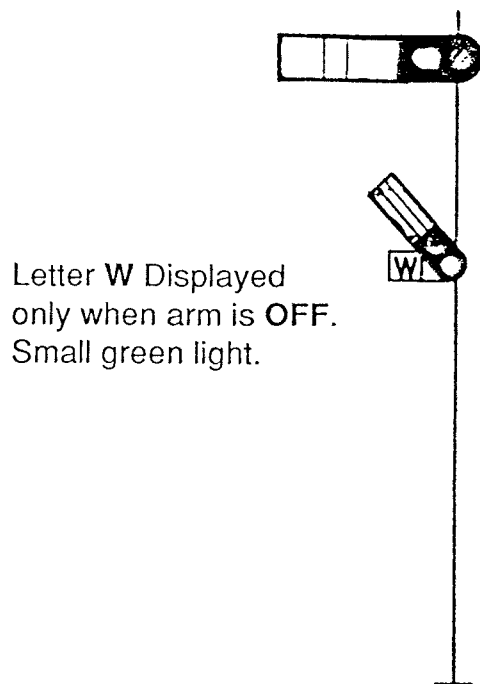
Letter **S** displayed only when arm is **OFF**. Small Green Light.

Used only at "**SECTION**" signals, ie. starting signals leading into the section ahead, where it is necessary to pass such a signal at **DANGER** for shunting purposes & where it would not be convenient always to obtain "**LINE CLEAR**" from the box ahead for such a movement. Generally restricted to places where for physical reasons the starter cannot be located beyond the limit of all shunting movements.

Move forward for **SHUNTING** purposes **ONLY**.
On no account to go away until main arm above is pulled **OFF**.

UNDERSTANDING CERTAIN SELECTED SIGNALLING TERMS

SUBSIDIARY SIGNAL
WARNING SIGNAL

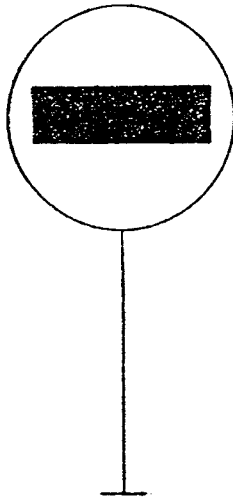


PROCEED AT CAUTION

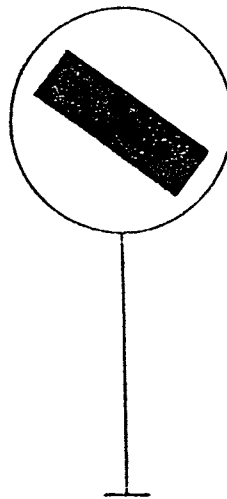
Line is clear to next stop signal
but may be occupied immediately
beyond the signal.

UNDERSTANDING CERTAIN SELECTED SIGNALLING TERMS

BANNER REPEATER SIGNALS



PROCEED - The stop signal next ahead is at **DANGER**.

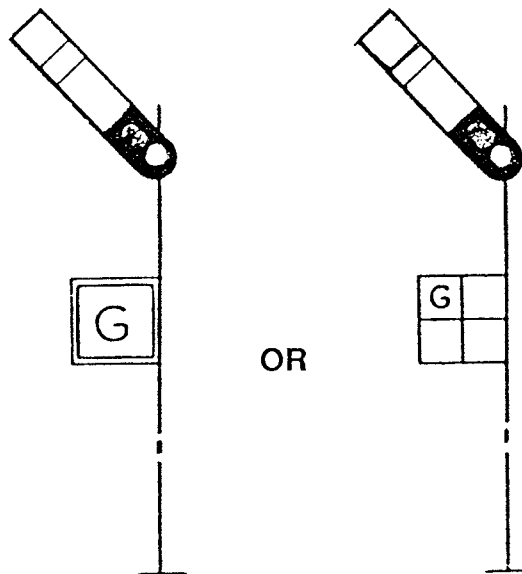


PROCEED - The stop signal Next Ahead Is "OFF".

In all cases **BLACK** arm on a **WHITE** ground

This signal can be used in either semaphore or colour light territory. In the latter case the "OFF" aspect of the banner repeater merely indicates that the colour light next ahead is **NOT** at danger.

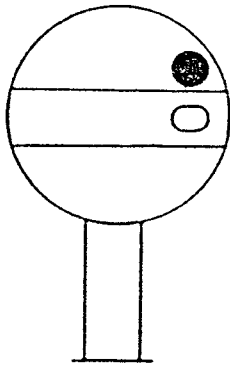
ROUTE INDICATORS



PROCEED TO GOODS LINE

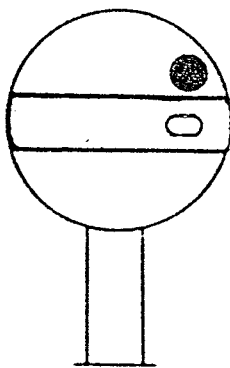
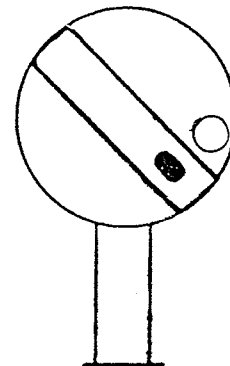
UNDERSTANDING CERTAIN SELECTED SIGNALLING TERMS

SHUNTING SIGNALS
GROUND DISCS

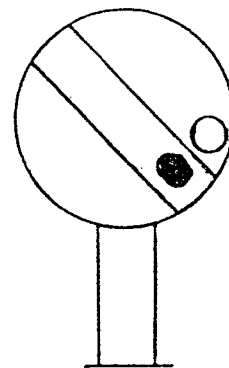


STOP

Proceed along siding **ONLY** as far as the line is clear or towards the next **STOP** signal as far as the line is **CLEAR**. May apply to more than one route.



May be passed in the "**ON**" position, under the authority of a shunter or guard towards a route for which it is not applicable & cannot be pulled **OFF**.

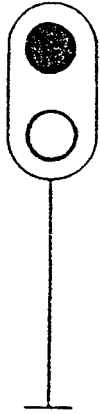


Proceed as far as the line is **CLEAR** only along the route or routes to which it is applicable.

UNDERSTANDING CERTAIN SELECTED SIGNALLING TERMS

TYPES OF SIGNALS
(COLOUR LIGHT)

COLOUR LIGHT SIGNALS
2 ASPECT



RED/GREEN SIGNAL
Danger - Stop/Green - Proceed



DISTANT SIGNAL
Yellow - Caution/Green - Proceed
(Next signal is "OFF")



COLOUR LIGHT SIGNALS
3 ASPECT



Multi-Unit Type

DANGER
STOP



CAUTION
Be prepared to **STOP** at next
signal which is now at **RED**.



CLEAR - PROCEED
next signal is displaying a
PROCEED aspect.

UNDERSTANDING CERTAIN SELECTED SIGNALLING TERMS

COLOUR LIGHT SIGNALS
4 ASPECT



**DANGER
STOP**



CAUTION
Be prepared to stop at next
signal which is now at **RED**.

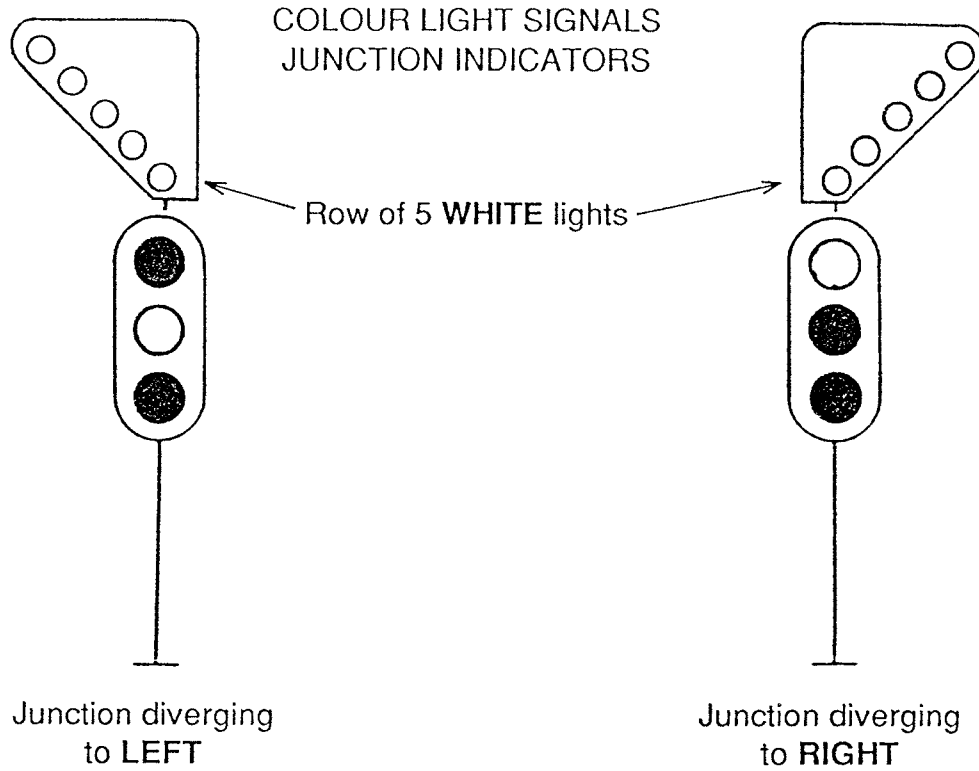


PRELIMINARY CAUTION
Prepare to pass next signal at
restricted speed & to find it
showing one **YELLOW** light

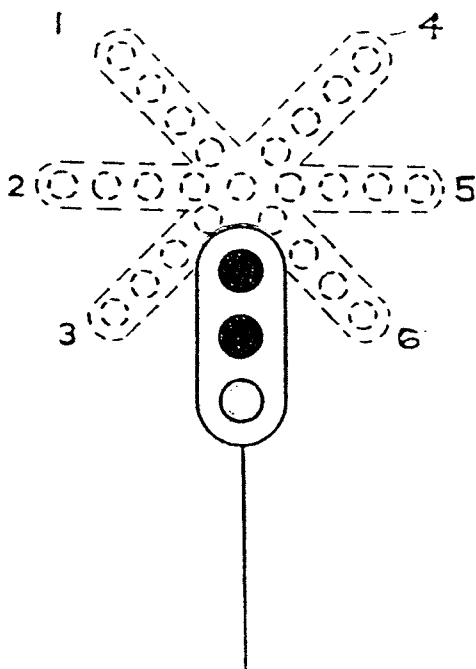


**CLEAR
PROCEED**

UNDERSTANDING CERTAIN SELECTED SIGNALLING TERMS



Normally used for running junctions. May be associated with any colour light signal, searchlight or multi-unit, 3 aspect or 4 aspect. Line of white lights is normally out & **NO INDICATION** apart from signal aspect given for main route. Line of **WHITE** lights, light up & coupled with signal aspect gives the indication for the diverging route. Signal aspect will not clear unless at least 3 white lights are alight.



Junction Indicator Arms may be fitted to **LEFT & RIGHT**

POSITION 1 - 1st Route to left of through route.

POSITION 2 - 2nd Route to **LEFT**.

POSITION 3 - 3rd Route (ie that furthest away to **LEFT** of **THROUGH ROUTE**).

Positions 4, 5 & 6 read in the same way to the **RIGHT** of the **THROUGH ROUTE**.

UNDERSTANDING CERTAIN SELECTED SIGNALLING TERMS

COLOUR LIGHT SIGNALS
SUBSIDIARY SIGNALS



2 White Lights

CALLING-ON

Proceed at **CAUTION** -
The line is now occupied
before the next signal is
reached.



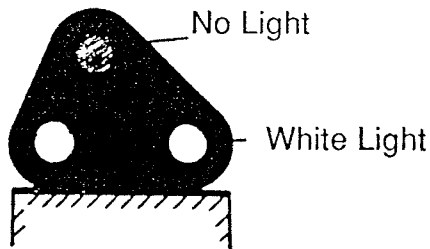
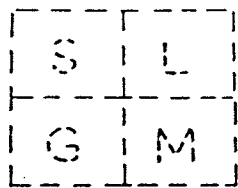
2 White Lights

SHUNT

**MOVE AHEAD FOR SHUNTING
PURPOSES ONLY.**

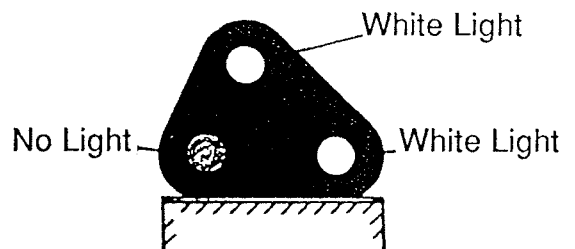
These signals may also be associated
with route indicators as an aid to the
Driver.

COLOUR LIGHT SIGNALLING
GROUND SHUNTING SIGNALS
POSITION LIGHT TYPE



STOP

A Stencil Type Route Indicator may be
associated with this signal in some cases.



Move forward, as far as the line is
clear or towards the next signal as far
as the line is clear.