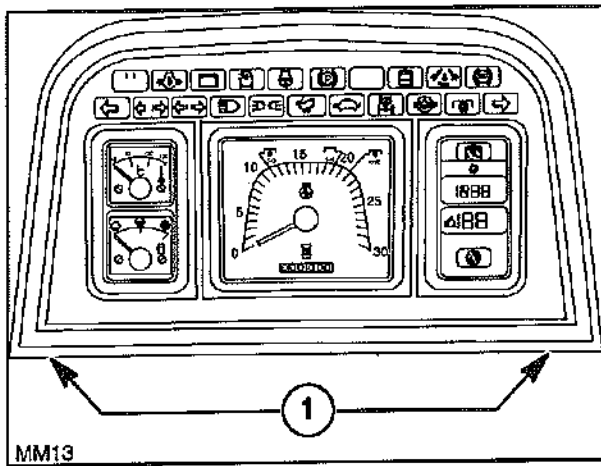


## SECTION 3 – LUBRICATION AND MAINTENANCE



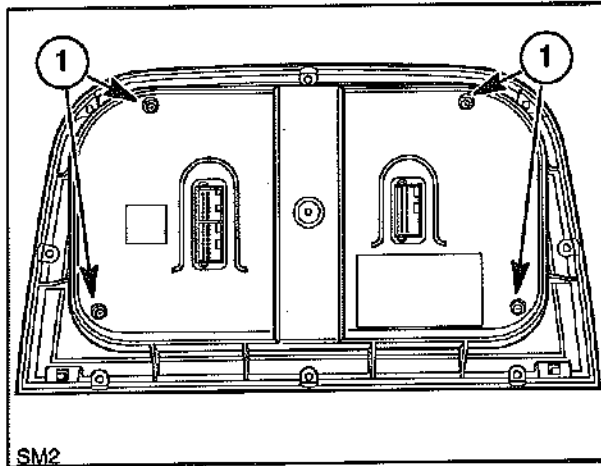
3-83

### Instrument Panel Bulbs – Figures 3-83 to 3-85

The warning and panel light bulbs are removable from the rear of the instrument panel. To gain access, remove the two retaining screws (1) Figure 3-83 from the lower edge of the instrument panel surround and withdraw the instrument panel assembly. Disconnect the electrical connectors from the rear of the panel, as necessary.

**NOTE:** There are three types of instrument panel available and the rear views shown in Figures 3-84 and 3-85 may differ from the panel fitted to your tractor. However the method of removing the rear cover and bulbs is similar on all models.

Remove the four screws (1) Figure 3-84, holding the cover to the rear of the panel.



3-84

With reference to Figure 3-85, turn the failed bulb  $\frac{1}{4}$  turn anti-clockwise and remove. Re-assemble in reverse order.

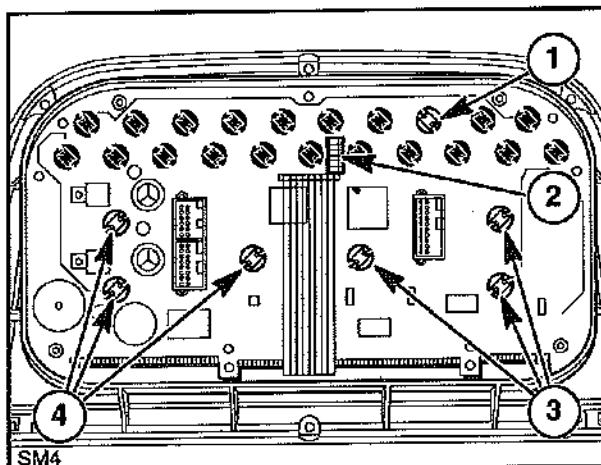
**IMPORTANT:** The two rows of warning light bulbs at the top of the panel are coloured black, except for the alternator warning light bulb (1) Figure 3-85, which is red. The red bulb is of a different wattage to the others and it is important that the correct bulb is used in this position otherwise the alternator may not function. The instrument backlight bulbs (3) and (4) are coloured yellow.

### OPERATION 40

#### FUSES AND RELAYS – Figures 3-86 to 3-87

The fuse box is located behind a panel on the right-hand side of the instrument console. Pull the panel to remove. Pull off the lid of the fuse box to gain access to the fuses and relays, Figure 3-86. A quick reference guide to the fuses and relays is provided on a decal stuck to the inside of the lid.

There is provision for 24 fuses although they may not all be fitted to your tractor. In addition, certain items of equipment may not be installed on your tractor. However, the fuses for these features are still fitted and may be used as spares.



3-85

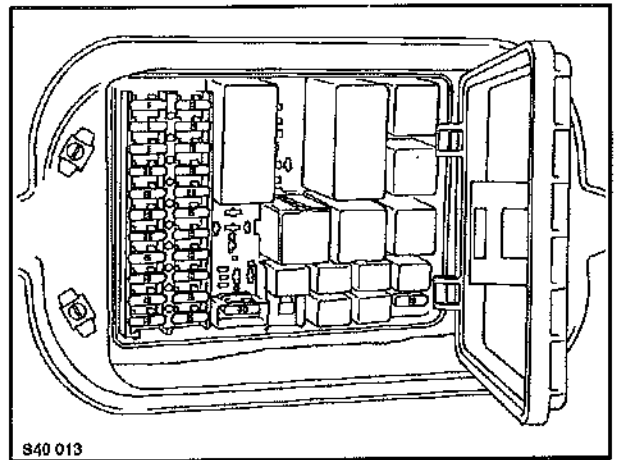
**IMPORTANT:** Do not replace a blown fuse with another of a different rating.

## SECTION 3 – LUBRICATION AND MAINTENANCE

The fuses are numbered and colour-coded. See Figure 3-87 and the upper chart below.

**NOTE:** Fuse No. 17 is uprated to 25 amps when optional lock-out valves are installed.

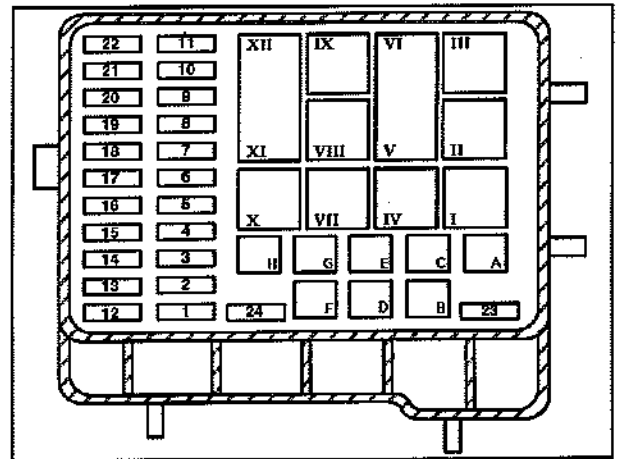
**NOTE:** Items I to XII and A to H, as shown in Figure 3-87 and listed in the chart (bottom right), are relays. Not all the relays shown may be fitted. See your New Holland dealer if you have a problem with any of the circuits listed that is not caused by fuse failure.



840 013

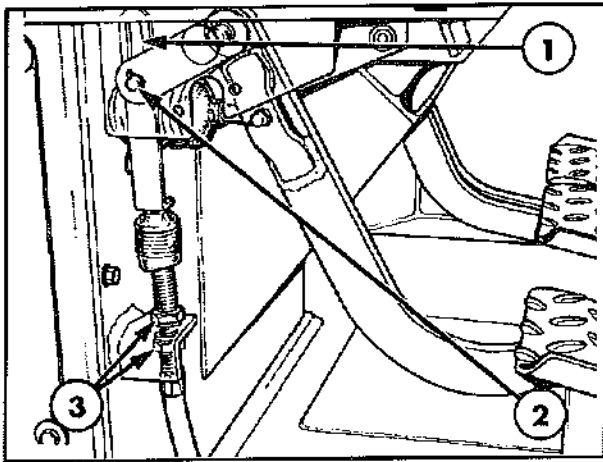
3-86

Fuse No.	Rating	Colour	Circuit
1	15A	Lt. Blue	Main beam
2	15A	Lt. Blue	Dip beam
3	10A	Red	R.H. side light
4	10A	Red	L.H. side light
5	10A	Red	Front work lamps
6	15A	Lt. Blue	Rear work lamps
7	20A	Yellow	Lower work lamps
8	10A	Red	Fuel shut off
9	10A	Red	Gauges/external switches
10	15A	Lt. Blue	Hazard lights
11	10A	Red	Horn/headlamp flash cigar lighter/roof beacon
12	10A	Red	E.D.C.
13	15A	Lt. blue	Transmission dump solenoid/creeper gears
14	10A	Red	E.D.C.
15	15A	Lt. Blue	Diff. lock/4wd/stop lamps
16	25A	Natural	Blower motor/air conditioner
17	20A	Yellow	Wash-wipe/console lamp
18	10A	Red	Turn indicators
19	25A	Natural	Thermostart
20	5A	Tan	'Keep alive' memory
21	5A	Tan	P.T.O.
22	5A	Tan	Radio/Implement socket switch & relay
23	10A	Red	Accessories/interior light
24	30A	Green	Implement socket



3-87

Relay	Circuit Identification
I	Ignition relay
II	Accessory socket
III	Implement socket
IV	Flasher unit
V & VI	Power take-off
VII	Thermostart
VIII	Not used
IX	Delay relay
X	Not used
XI & XII	Flasher mode
A	Differential lock
B	Front work lamps
C	Rear work lamps
D	Lower front work lamp
E	Lower rear work lamps
F	Automatic fuel shut-off
G	Differential lock
H	Four wheel drive




3-8f

### OPERATION 41

#### ALTERNATOR PROTECTION

To avoid damage to the alternator charging system, service precautions should be observed, as follows:

- **Never** make or break any of the charging circuit connections, including the battery, when the engine is running.
- **Never** short any of the charging components to earth.
- **Do not** use a slave battery of higher than 12 volts nominal voltage.
- **Always** observe correct polarity when installing a battery or using a slave battery to jump start the engine. Follow the instructions in the Operator's Manual when jump starting the tractor.
- **Always** disconnect the battery earth cable before carrying out arc welding on the tractor or on any implement attached to the tractor. Locate the arc welder earth clamp close to the part being repaired.
- **Always** disconnect the battery earth cable when charging the battery in the tractor using a battery charger.

 **WARNING:** *Wear eye protection when charging the battery or starting the tractor with a slave battery.*

Connect **positive to positive** and **negative to negative**.

OPERATION 42

**CLUTCH INTERLOCK CABLE ADJUSTMENT  
(12 x 12 transmission only) – Figure 3-88**

An hydraulically actuated clutch is installed, requiring no adjustment. However, a cable-operated clutch interlock mechanism is provided that only permits engagement of the transmission shuttle lever if the clutch pedal is fully depressed.

Should movement of the shuttle lever become difficult with the clutch depressed, the cable may require adjustment.

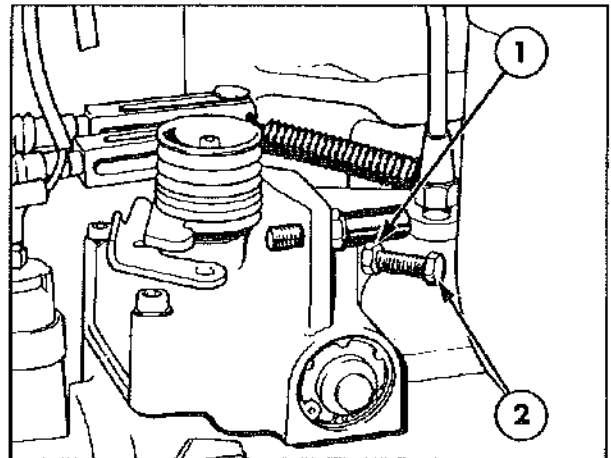
To adjust the cable, turn the adjusting nuts (3) so that the clutch pedal pin (2) contacts the upper end of the slot (1) in the cable clevis to cause a cable movement of 0.24 – 0.31 in. (6 – 8 mm) when the clutch pedal is fully depressed.

OPERATION 43

**ENGINE IDLE SPEED ADJUSTMENT  
– Figure 3-89**

Loosen the locknut (1) and turn the stop screw (2) to adjust the engine idle speed.

The maximum no-load speed is set in the factory and must only be adjusted, if required, by an authorised dealer.



3-89