

NEW HOLLAND

REPAIR MANUAL

TV145 Tractor

NEW HOLLAND AGRICULTURE

SERVICE

87038775

MidWestTech | New Holland TV145 Tractor Service Manual | Publication 87038775

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TROUBLESHOOTING

IMPORTANT: *When making a repair, the cause of the problem must be identified and corrected to avoid repeat failures.*

PROBLEM	POSSIBLE CAUSE	REMEDY
Engine does not start or develop full power	1. Air in fuel system	1. Bleed air out of fuel system.
	2. Fuel flow obstructed	2. Check fuel lines and fuel filter for obstruction.
	3. Defective fuel injector(s)	3. Clean and test injectors. Repair or replace as necessary.
	4. Defective fuel injection pump	4. Test fuel injection pump. Replace or have serviced as necessary.
	5. Defective fuel shutoff solenoid	5. Test fuel shutoff solenoid replace as necessary
Excessive exhaust smoke	1. Excessive fuel delivery	1. Test fuel injection pump and injectors. Replace or have serviced as necessary.
	2. Thermostart plug leaking fuel (International models only)	2. Check the thermostart plug, replace if necessary.

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SPECIAL TOOLS

HOISTING, LIFTING, SUPPORTING EQUIPMENT

- Lifting slings, chains.
- Overhead Hoist - Minimum 454 kg (1,000 lbs) capacity (lifting splitter box from cab end axle housing).
- Floor Lifts, Jacks - Minimum 1,815 kg (4,000 lbs) capacity (lifting cab end axle housing, cab end articulation frame).
- Jack Stands - Minimum 2,720 kg (6,000 lbs) capacity, each (supporting cab end articulation frame).
- Splitting stand - FTC60293 supports the cab-end axle housing extension and splitter box when removing from articulation frame.

BEARING REMOVING, INSTALLING TOOLS

- Bearing Pulling Attachment FNH09190 removing bearings from shafts
- Bearing Pusher-Puller Attachment FNH09506 removing bearings from shafts.
- Internal Pulling Attachment FNH09507 removing a bearing set from the auxiliary pump housing idler gear.

GENERAL TOOLS

- Snap ring pliers
- Rubber hammer
- Mild steel driver
- Pry bar or heavy duty flat screw driver- (prying splitter box cover from splitter box housing, splitter box from axle housing)
- Dial gauge - (measuring shaft end play tolerance)
- Torque wrench - 542 N·m (400 lb.-ft.)
- Hydraulic Press - (bearing installation)
- Gear heating system - oven or inductive heating with temperature requirement of minimum 205°C (400°F) - (installing axle shaft gear)

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Dome Lamps

Figures 69 and 70

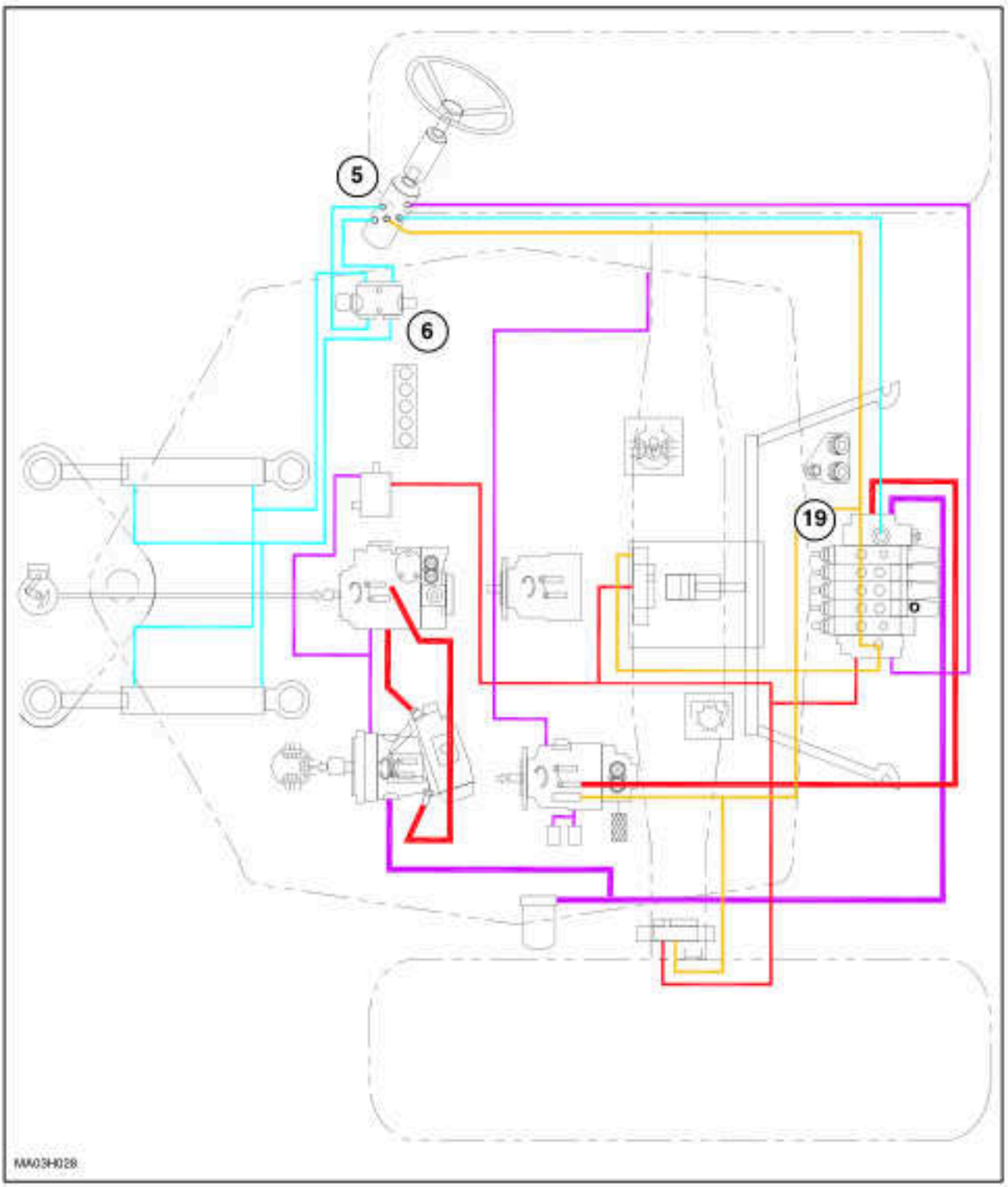
The dome lamps circuit receives power from the main bus through fuse F-14. The dome lamps E-23 and E-24 are powered constantly and light only when the circuit to ground is completed. A switch in each lamp holder is used to switch the light off, on independently, or on controlled by the door switches S-27 and S-28.

Label Key

Label	Component
E-21	LH Console Lamp
E-22	RH Console Lamp
E-23	LH Dome Lamp
E-24	RH Dome Lamp
F-14	Dome/Instrument Fuse
S-27	LH Door Switch
S-28	RH Door Switch
S-29	Beacon Switch

(1) Right Hand B Pillar Ground
(2) Left Hand B Pillar Ground
(3) Lower Cab/Rear Frame Ground
(4) Rear Frame/Engine Ground
(5) Rear Axle Ground
(6) Engine/Hood Ground

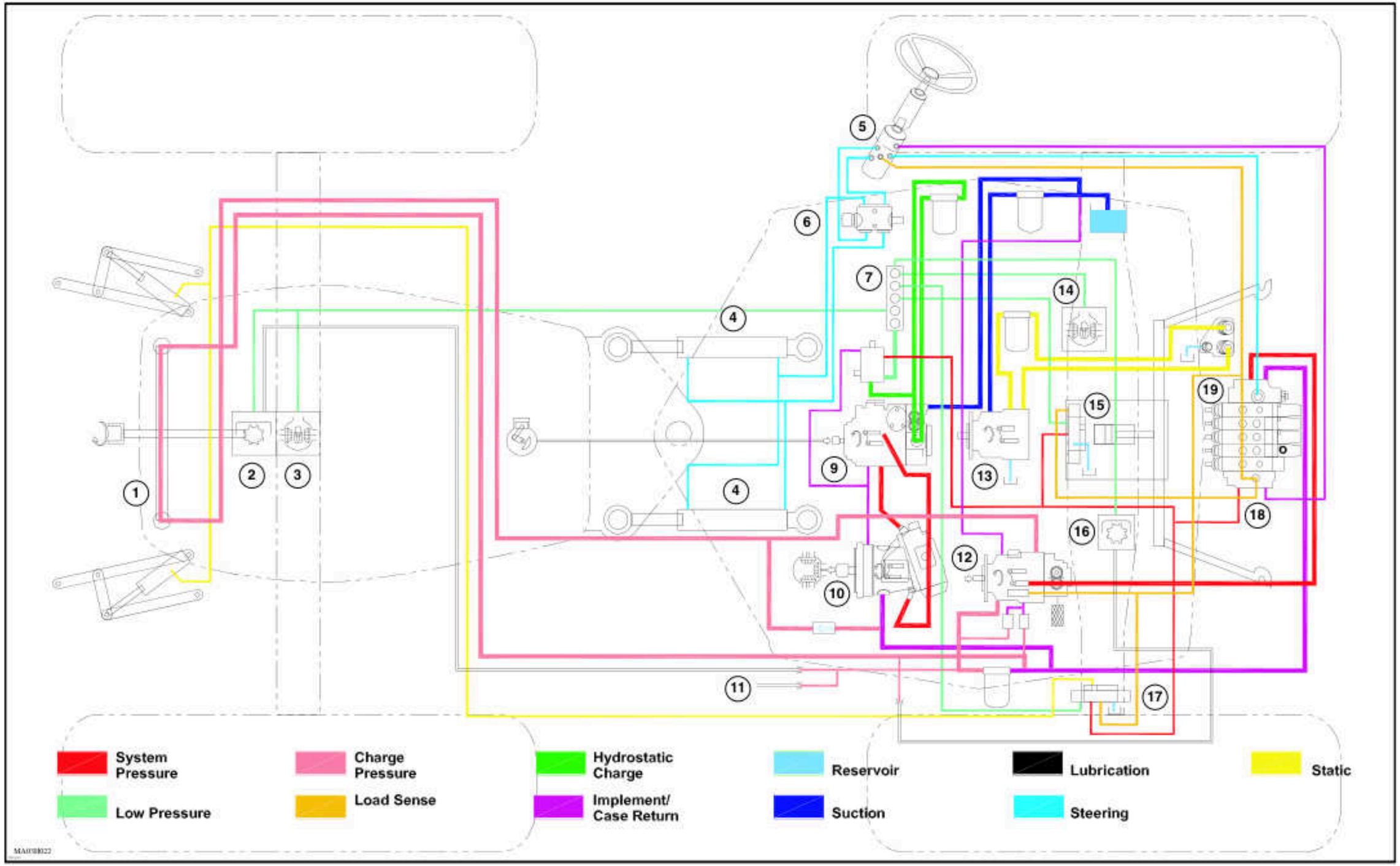
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Steering Circuit 10

System Pressure
Load Sense
Implement/ Case Return
Steering

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