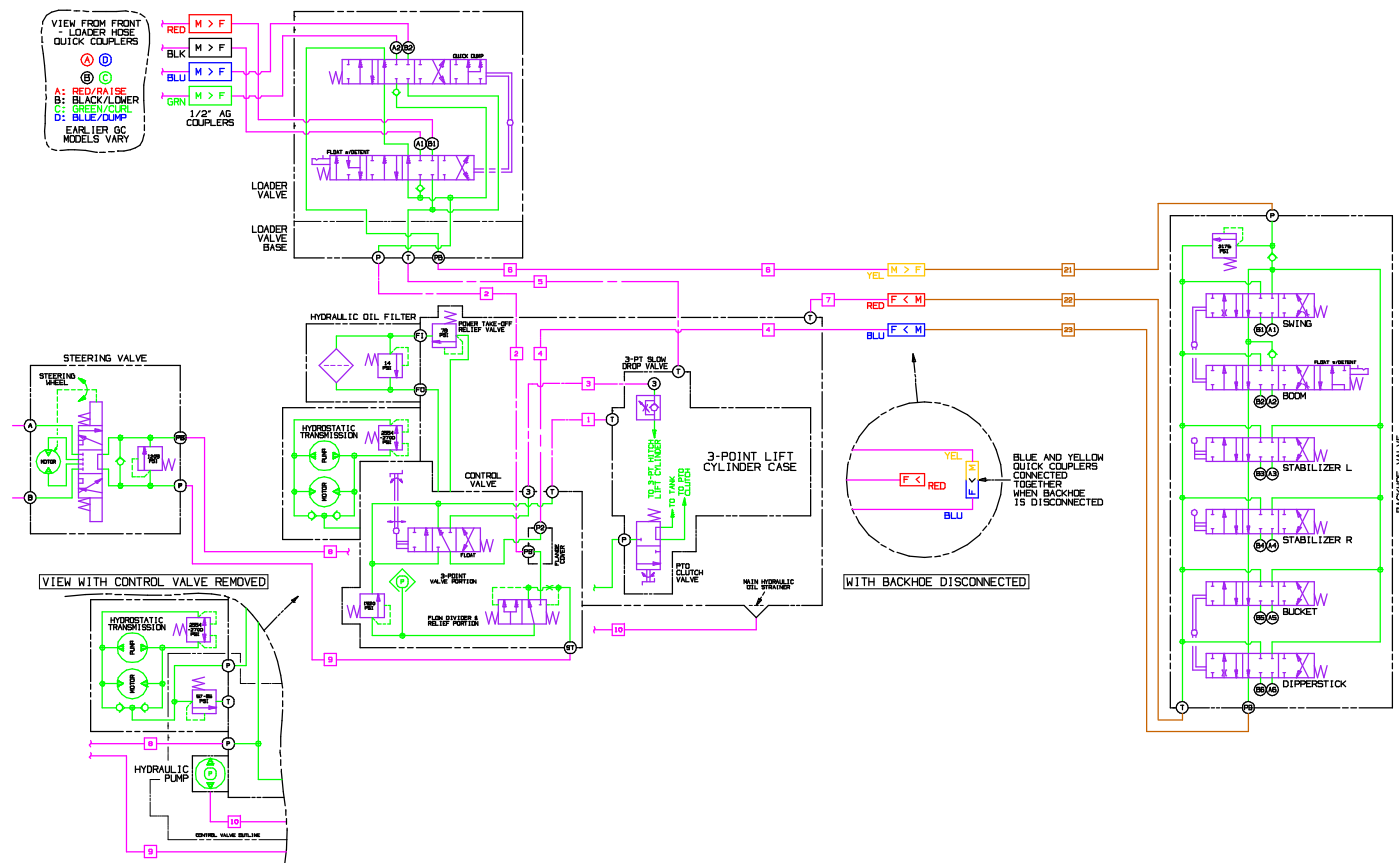


# ORIGINAL HYDRAULICS 03/02/2025

## NOTES:

- THIS SCHEMATIC IS FOR A MASSEY FERGUSON GC 1723EB or 1725MB TLB (TRACTOR-LOADER-BACKHOE). NOT TO SCALE. THE TRANAXLE DRIVE SHAFTS (AXLES) AND HYDRAULIC CYLINDERS NOT SHOWN. THE HYDROSTATIC TRANSMISSION (HST) IS MOUNTED VERTICALLY TO THE FRONT OF THE TRANAXLE; THE HYDROSTATIC PUMP IS DRIVEN BY THE DIESEL ENGINE & IS ON TOP. THE HYDROSTATIC MOTOR DRIVES THE TRANAXLE GEARS & IS MOUNTED BELOW IT. MOST HOSE FITTINGS ARE -6 JIC, BUT A FEW ARE 1/4" & 3/8" BSP, AND THERE ARE SOME BSP & NPT PLUGS. THERE ARE ALSO SOME ODD 16x1.5mm & 20x1.5mm 45° FLARE FITTINGS ON HARD LINES.
- THE CONTROL VALVE HAS TWO PARTS, WITH THE MAIN RELIEF VALVE AND DIVIDING VALVE ON THE LEFT SIDE OF THE TRACTOR, AND THE 3-POINT VALVE ON THE OTHER SIDE. THE 3-POINT VALVE IS A BIT UNUSUAL AS IT IS A LINEAR SPOOL VALVE THAT IS OPERATED BY A ROTORY MOTION, HENCE THE STRANGE "HOMEMADE" HANDLE SYMBOL. IT AND THE 3-POINT SLOW DROP VALVE (ONE-WAY NEEDLE VALVE) ARE STOCK MASSEY FERGUSON, REDRAWN FROM THE SERVICE MANUAL.
- LOADER (JOYSTICK) VALVE IS A STOCK MASSEY FERGUSON SPOOL VALVE, REDRAWN FROM THE SERVICE MANUAL.
- POWER TAKE-OFF (PTO) CLUTCH VALVE AND STEERING VALVE ARE STOCK MASSEY FERGUSON ROTARY SPOOL VALVES. REDRAWN FROM THE SERVICE MANUAL.
- BACKHOE VALVE IS A STOCK MASSEY FERGUSON SPOOL VALVE, REDRAWN FROM SERVICE MANUAL. THE B PORTS ARE CLOSER TO THE HANDLE AND ARE CONNECTED TO THE ROD END OF THE SWING, BUCKET, AND DIPPERSTICK CYLINDERS AND TO THE TOP END OF THE BOOM AND STABILIZER CYLINDERS.



- LINE NUMBERS (in boxes):**
- 1 - HARD LINE FROM T ON CONTROL VALVE TO TANK RETURN ON FRONT OF 3-POINT LIFT CYLINDER CASE
  - 2 - HARD LINE FROM P8 ON CONTROL VALVE FLANGE COVER TO P ON LOADER VALVE
  - 3 - HARD LINE FROM 3 ON CONTROL VALVE TO 3 ON 3-POINT SLOW DROP VALVE ON LIFT CYLINDER CASE
  - 4 - FLEX HOSE FROM BLUE QUICK COUPLER TO P2 ON CONTROL VALVE FLANGE COVER
  - 5 - HARD LINE FROM T ON LOADER VALVE TO TANK RETURN ON SIDE OF 3-POINT LIFT CYLINDER CASE
  - 6 - FLEX HOSE FROM P8 ON LOADER VALVE TO YELLOW QUICK COUPLER
  - 7 - FLEX HOSE FROM RED QUICK COUPLER ON BACKHOE TO TANK RETURN NEAR REAR ON TRANAXLE HSG
  - 8 - FLEX HOSE FROM P8 ON STEERING VALVE TO P ON FRONT OF TRANAXLE HOUSING
  - 9 - FLEX HOSE FROM ST ON CONTROL VALVE TO P ON STEERING VALVE
  - 10 - HARD LINE FROM TRANAXLE STRAINER TO HYDRAULIC PUMP INLET
  - 20 - FLEX HOSE FROM YELLOW QUICK COUPLER TO P ON BACKHOE VALVE
  - 21 - FLEX HOSE FROM T ON BACKHOE VALVE TO RED QUICK COUPLER
  - 22 - FLEX HOSE FROM P8 ON BACKHOE VALVE TO BLUE QUICK COUPLER