FARMALL® 55C
FARMALL® 65C
FARMALL® 75C

Tractor

SERVICE MANUAL

Part number 84419878A

English

October 2011

CASE IH AGRICULTURE

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Op. 25 100 30
FRONT AXLE ASSEMBLY
Removal-Installation

DANGER

Lift and handle all heavy parts using suitable lifting equipment.
Make sure that assemblies or parts are supported by means of suitable slings and hooks. Ensure that no-one is in the vicinity of the load to be lifted.

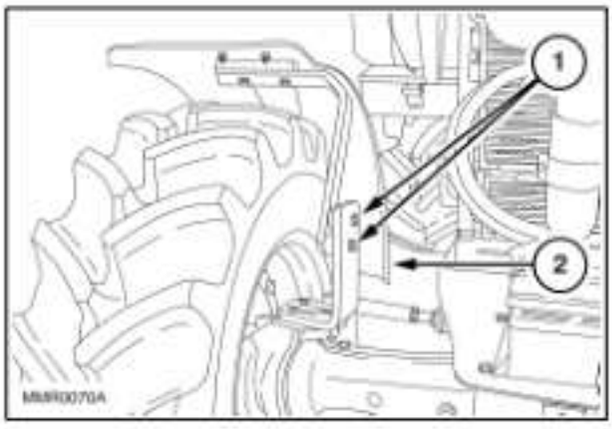
Proceed as follows:

***Note** - The front axle assembly can be removed from the tractor either with or without previously removing the drive shaft. The description below refers to removal of the front axle with the drive shaft installed on the tractor. For removal of the drive shaft refer to section 23.*

1. Unscrew the fixing screws (1) and remove the front wheel mudguards (if applicable).
   Do this on both sides.

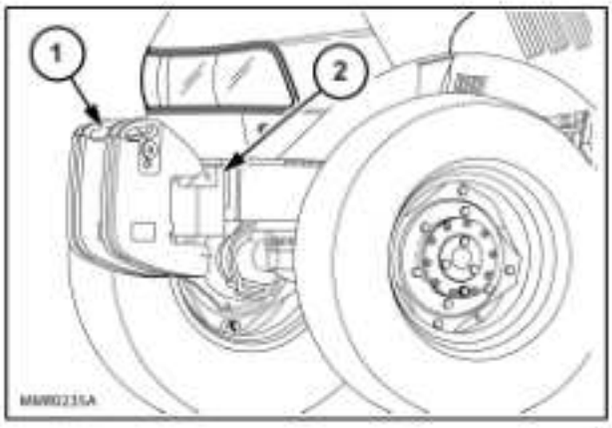
2. Carry out operation **90 100 22** - Bonnet (perform removal only).

***NOTE:** This operation is not strictly necessary but it is advised to avoid damaging the bonnet.*



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3. Extract the fixing pin and remove the ballast weights (1); unscrew the fixing screws and recover the ballast support (2).



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TORQUE SPECIFICATIONS

Thread	Class	
	8.8	10.9
	Nm	Nm
M8	23	33
M8X1	25	35
M10	46	65
M10X1.25	49	69
M12	80	110
M12X1.5	84	118
M12X1.25	88	123
M14	130	180
M14X1.5	138	190
M16	190	270
M16X1.5	210	290
M18	270	380
M18X2	280	400
M18X1.5	300	420

Thread	Class	
	8.8	10.9
	Nm	Nm
M20	380	530
M20X2	400	560
M20X1.5	420	590
M22	510	720
M22X2	540	750
M22X1.5	560	790
M24	630	890
M24X2	680	950
M27	930	1310
M27X2	995	1400
M30	1260	1770
M30X2	1370	1930
5/8" UNC	175	245
5/8" UNF	200	280
3/4" UNC	380	530
3/4" UNF	420	590

STANDARD TIGHTENING TORQUES FOR HYDRAULIC PIPES AND FITTINGS

Data for pipes and tapered fittings at 37°					Tapered fittings at 37° with toroidal seal (O-ring)	
Dimension	∅ pipe	Thread	N·m		N·m	
	mm		Min.	Max.	Min.	Max.
4	6.4	7/16-20	12	16	8	14
5	7.9	1/2-20	16	20	14	20
6	9.5	9/16-18	29	33	20	27
8	1.7	3/4-18	47	54	34	41
10	15.9	7/8-14	72	79	47	54
12	19.1	1-1/16-12	104	111	81	95
14	22.2	1-3/16-12	122	136	95	109
16	25.4	1-5/16-12	149	163	108	122
20	31.8	1-5/8-12	190	204	129	156
24	38.1	1-7/8-12	217	237	163	190
32	50.8	2-1/2-12	305	325	339	407

The above listed tightening torques apply to normal, cadmium-plated or galvanized screws whether lubricated or not.

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SECTION 55 - ELECTRICAL SYSTEM

Chapter 6 - WIRING HARNESSES AND CONNECTORS

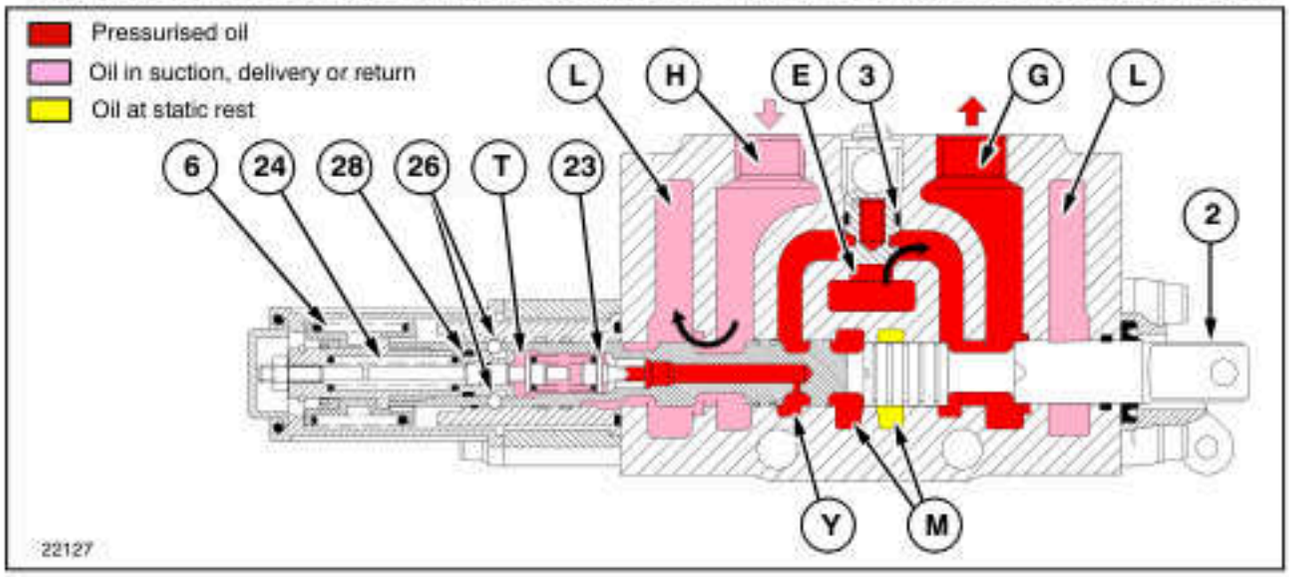
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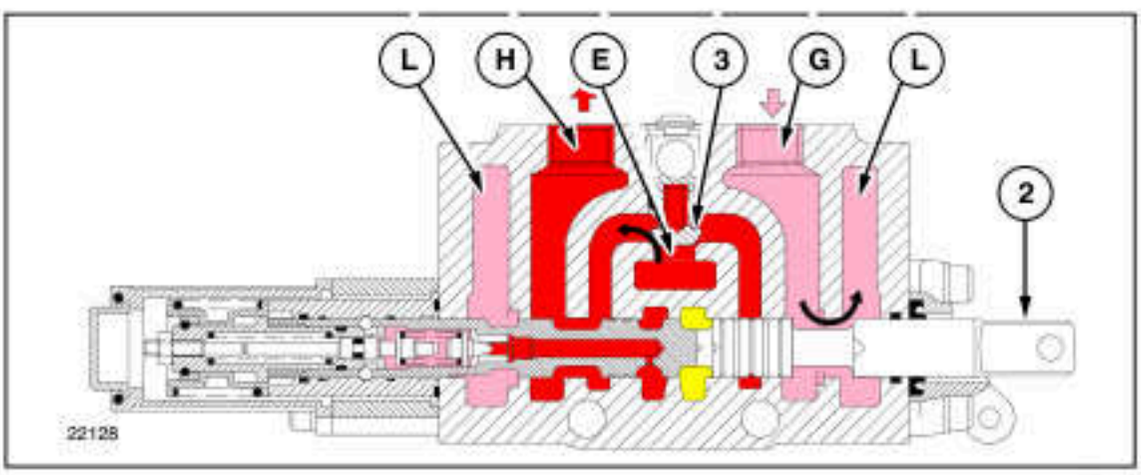
OPERATING STAGES OF AUXILIARY CONTROL VALVE FOR THE OPERATION OF A SINGLE/DOUBLE-ACTING CYLINDER WITH AUTOMATIC DETENT RELEASE AND FLOAT



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LIFTING

On pulling back the control lever (located in the cab), the control valve stem (2) shifts and the detent balls (26) engage the left hand groove, where they are held in place by the support (28) and spring (24). The movement of the spool (2) connects: delivery line (E) with the lower chamber of the cylinder, by way of the check valve (3) and the line (G), and also the upper cylinder chamber with the exhaust line (L) by way of line (H), intercepting the supply of oil to the hydraulic lift control valve. On completion of the lifting movement, the oil pressure increases to 170 ÷ 175 bar (173 ÷ 178 kg/cm^2), acting through the port (V), it overcomes the resistance of the spring of the needle valve (23). Inside chamber (T) the oil pressure increases and, acting on the support (28), it overcomes the resistance of the spring, thus moving the support (28). In this condition the two detent balls (26) drop onto the support (28), releasing the stem (2) which, under the action of the spring (6), returns to the neutral position, and consequently the entire flow from the pump is conveyed to the lift control valve through lines (M).

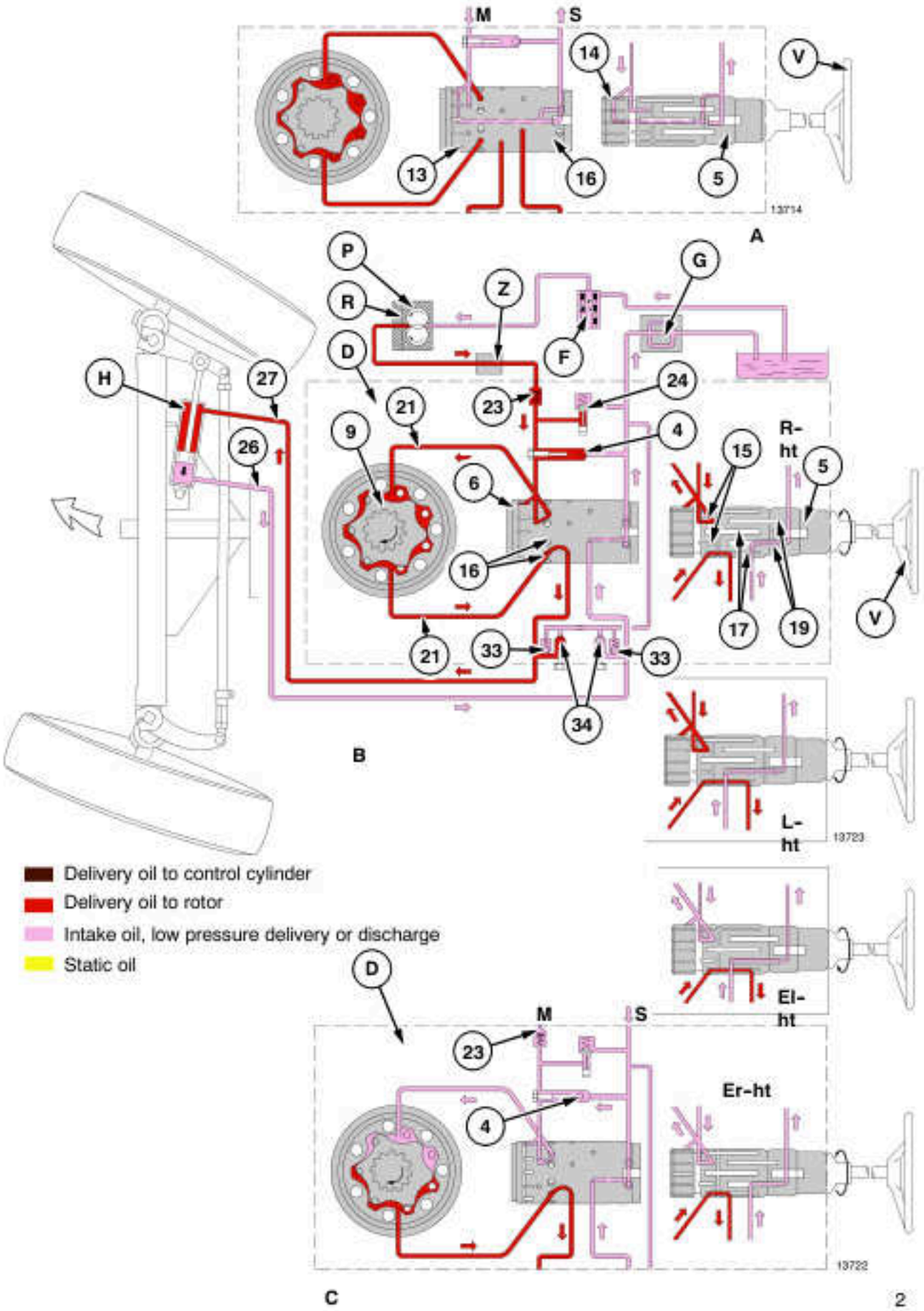


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LOWERING

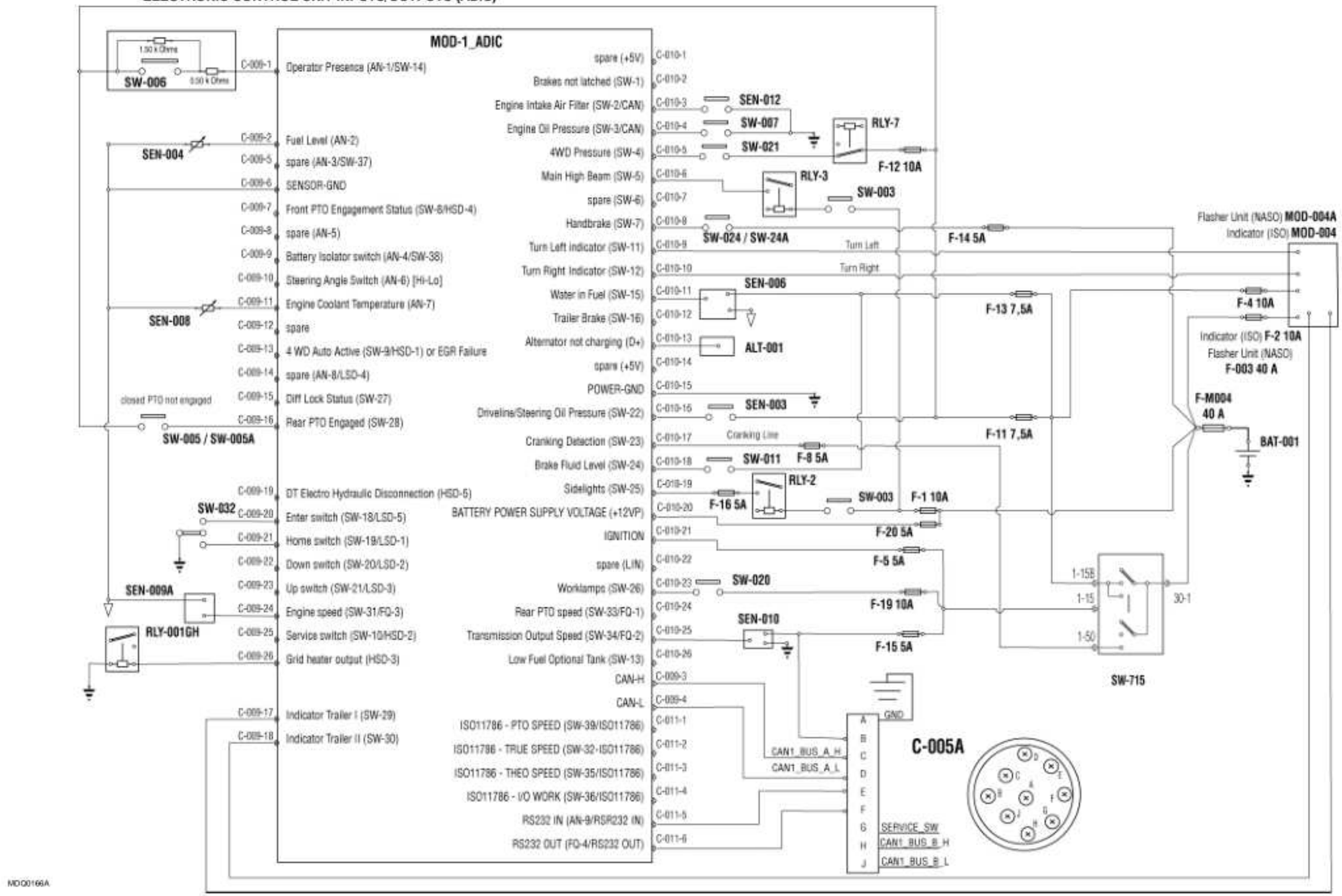
To lower the implement, push forward the control lever (in the cab). The control valve stem(2) shifts and the detent balls (26) engage in the central groove where they are held in position by the support (28) and the spring (24). In this condition the oil contained in the lower chamber of the cylinder can flow to the exhaust (L) by way of line (G), while the upper chamber is connected with the delivery (E) by way of line (H) and check valve (3). On completion of the lowering operation, the detent will be automatically released in the manner described previously.

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ELECTRONIC CONTROL UNIT INPUTS/OUTPUTS (ADIC)



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