# SERVICE MANUAL

## TT3840 / TT3840F / TT4030 / TT3880F

Tractor

Part number 47921938
English
February 2017

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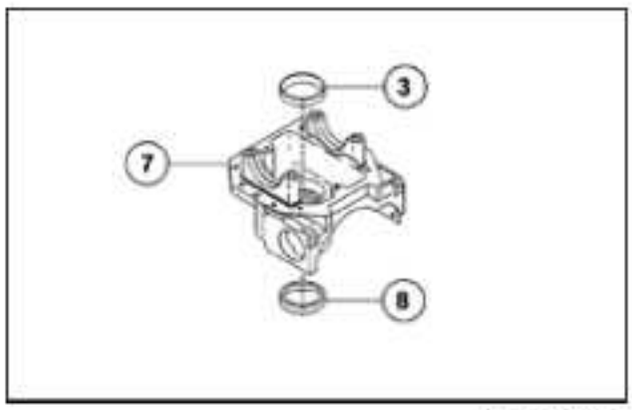
# Differential Input shaft assembly - Assemble (Narrow shaft)

| | |
|---|---|
| TT3840F | LA |
| TT3880F | LA |

**Prior operation:**
To remove the pinion assembly, see the procedures in **Differential Input shaft assembly - Disassemble (Narrow shaft) (25.102)**.

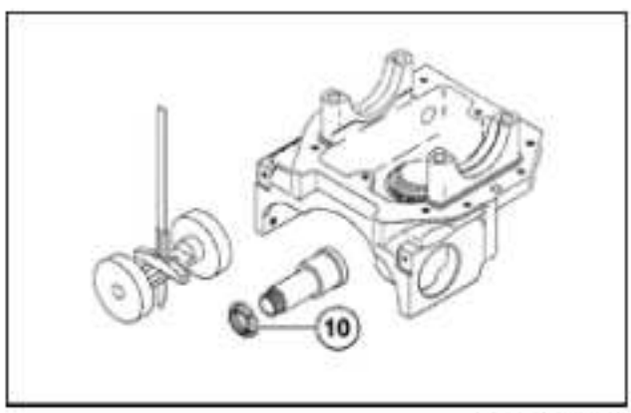
Some of the following pictures may not show your axle exactly, but the indicated operations are correct anyway. See the exploded view of the assembly in **Differential - Exploded view (Narrow shaft) (25.102)**.

1. Place the differential support **(7)** on a workbench.
2. Fit bearing races **(3)** and **(8)** using special tool CA119068 and a hammer.



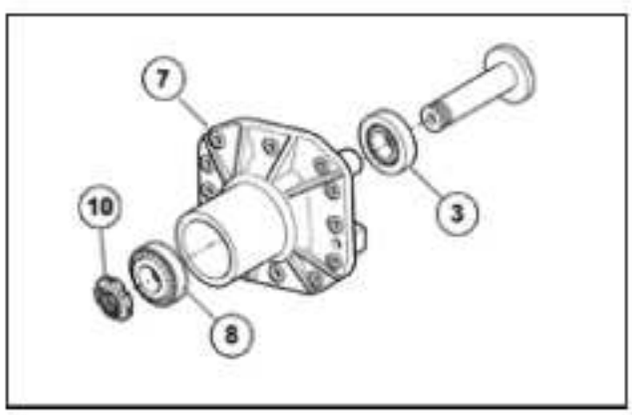
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3. Prepare the kit consisting of the special tools called the "false pinion" CA715084 and the "false differential box" CA119205, as well as a depth gauge .



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4. Insert the bearing cones **(3)** and **(8)** into their housings. Assemble the "false pinion" and its ring nut **(10)**. Tighten without exceeding the ring nut, till the backlash is eliminated.



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# Hydraulic control components - General specification

| | |
|---|---|
| TT3840F | LA |
| TT3840 | LA |
| TT3880F | LA |
| TT4030 | LA |

## Specifications

| Component | TT3840 | TT3840F | TT3880F | TT4030 |
|---|---|---|---|---|
| Type | Hydrostat | | | |
| Make | Danfoss | | | |
| Hydraulic circuit | Independent pump | | | |
| Oil Tank | Located on the right-hand side of the engine | | | |
| Oil filter | Located inside the oil reservoir | | | |
| Hydraulic pump | | | | |
| Type | Gears | | | |
| Drive | From engine valve gear | | | |
| Rotation | Clockwise | | | |
| Drive ratio | 1 to 0.931 | | | |
| Flow at rated speed - **2328 RPM**: | **26.4 l/min** | | | |
| Flow on workbench at **1.450 RPM** ( **70102 Kg/cm²**): | | | | |
| - New or reconditioned pump | **15.3 l/min** | | | |
| - Used pump | **10.7 l/min** | | | |
| - Test oil temperature | **55 – 65 °C** | | | |
| - Test oil viscosity | **SAE 20 W** | | | |
| Diameter of drive/driven gear journal | **17400 – 17418 mm** | | | |
| Internal diameter of bearing | **17450 – 17470 mm** | | | |
| Gear journal play in bearing | **0.032 – 0.070 mm** | | | |
| Maximum wear clearance. | **0.1 mm** | | | |
| Gear clearance in pump body | **0.020 – 0.064 mm** | | | |
| Maximum wear clearance | **0.1 mm** | | | |
| Bearing Width | **19.812 mm** | | | |
| Gear width | **18.348 mm** | | | |
| Pump Body Width | **58072 – 58122 mm** | | | |
| Bearing and gear end clearance in pump body | **0.1 – 0.2 mm** | | | |
| Control Valve | Danfoss | | | |
| Type | Operated by the steering column | | | |
| Outfit code: | | | | |
| Relief valve setting | **100 bar** | | | |
| Adjusting the cylinder overload valve | **200 bar** | | | |
| Front axle hydraulic cylinder | | | | |
| Type | Dual action | | | |
| Make | Ognibene | | | |
| Cylinder bore | **48 mm** | | | |
| Piston rod diameter | **22 mm** | | | |
| Maximum piston stroke with cylinder make | **214 mm** | | | |

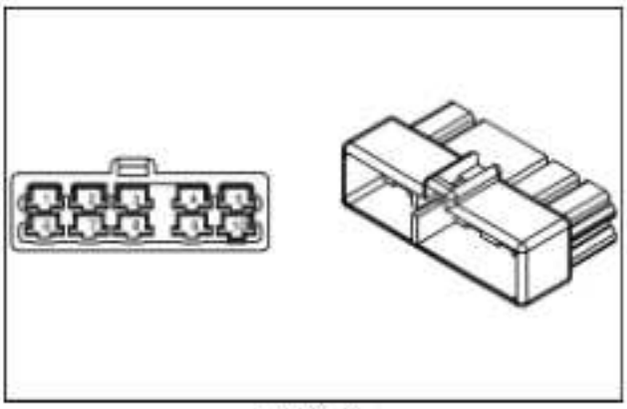
# Hydraulic control components - Torque

| | |
|---|---|
| TT3840F | LA |
| TT3840 | LA |
| TT3880F | LA |
| TT4030 | LA |



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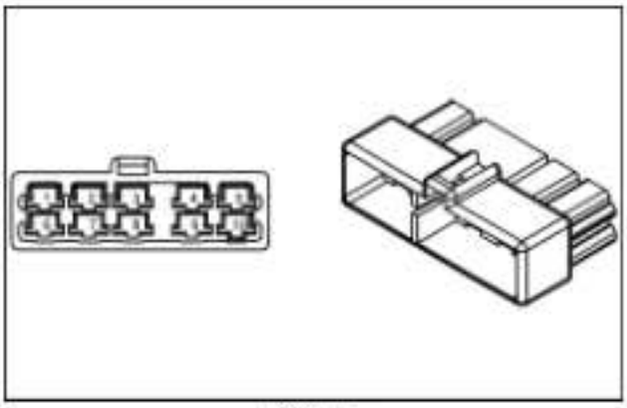
### *X-003F - ENGINE / MAIN HARNESS [ SH2: A-3] (47921520) (Receptacle)*



47921520 3

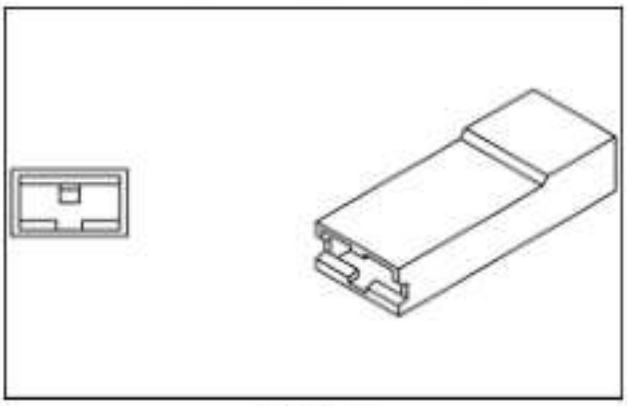
**47921520**

### *X-003M - ENGINE / MAIN HARNESS (Receptacle)*



47921520 4

### *X-004 - AIR RESTRICTION SWITCH [ S-001] (87705140) (Receptacle)*



87705140 5

**87705140**

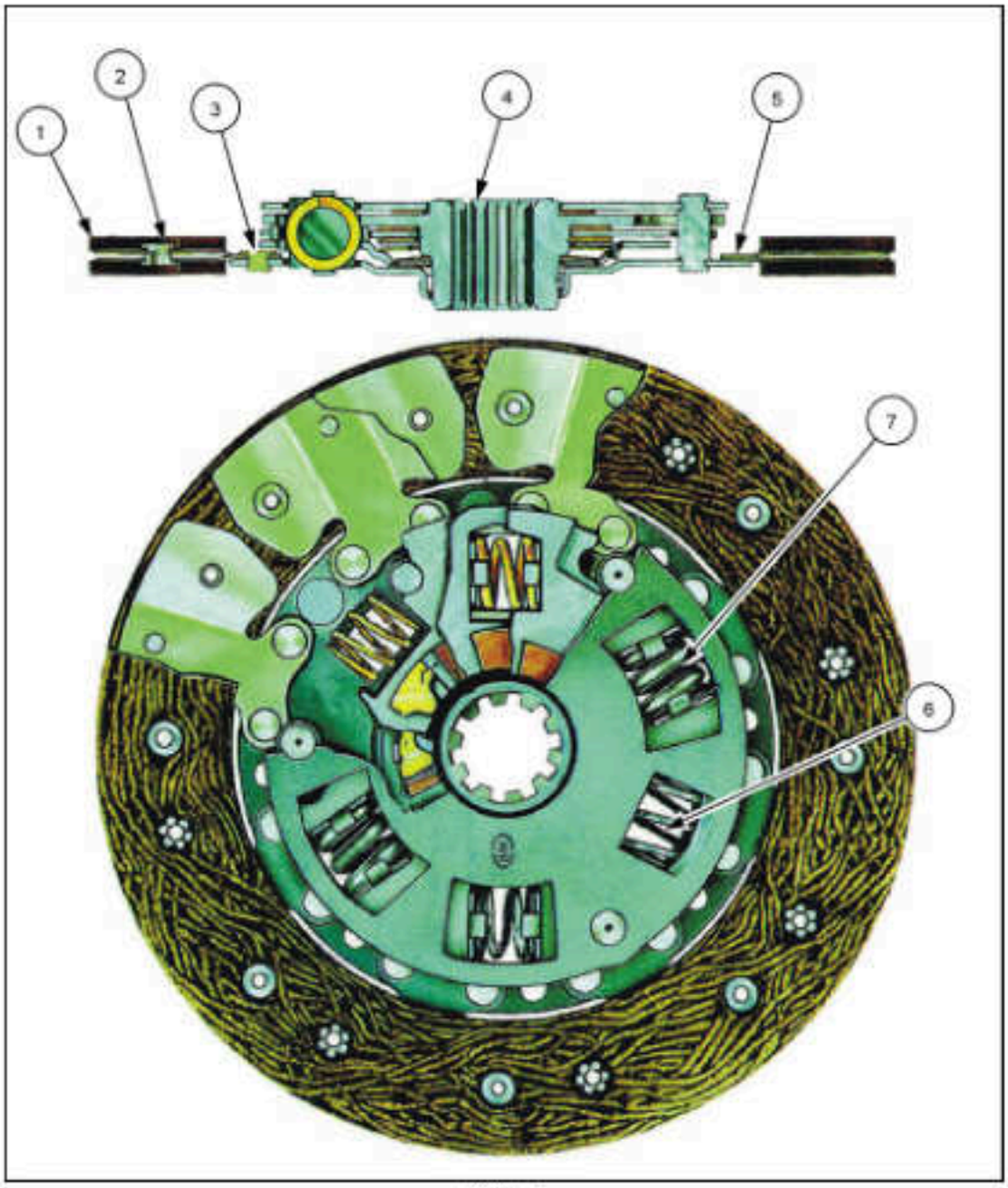
| Pin | From | Wire | Description | Color-Size | Frame |
|---|---|---|---|---|---|
| 1 | **X-003F pin 8** ENGINE / MAIN HARNESS | EN-1003 | EN-1003 | RD - 1.0 | **SHEET 02** |



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# Clutch - Sectional view Clutch plate

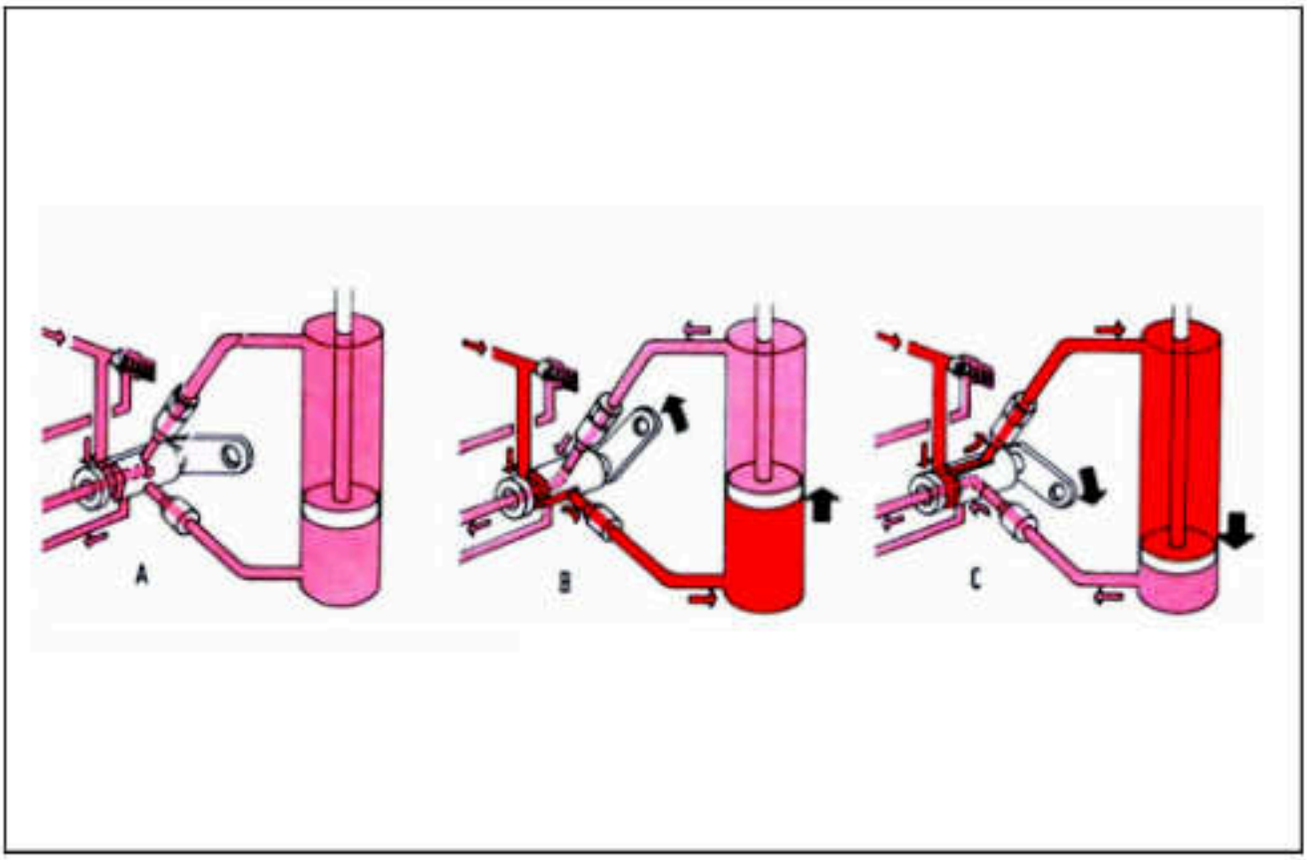
| | |
|---|---|
| TT3840F | LA |
| TT3840 | LA |
| TT3880F | LA |
| TT4030 | LA |




1. Clutch facing
2. Facing rivet
3. Segment rivet
4. Hub
5. Segment
6. Idle damper spring
7. Main damper spring



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**Double acting cylinder control**

## A - Raise

Pulling the lever forward will extend the cylinder and raise the implement.

## B - Neutral

When released, the spring automatically returns the lever to the neutral position, disabling the connected cylinder.

## C – Lower

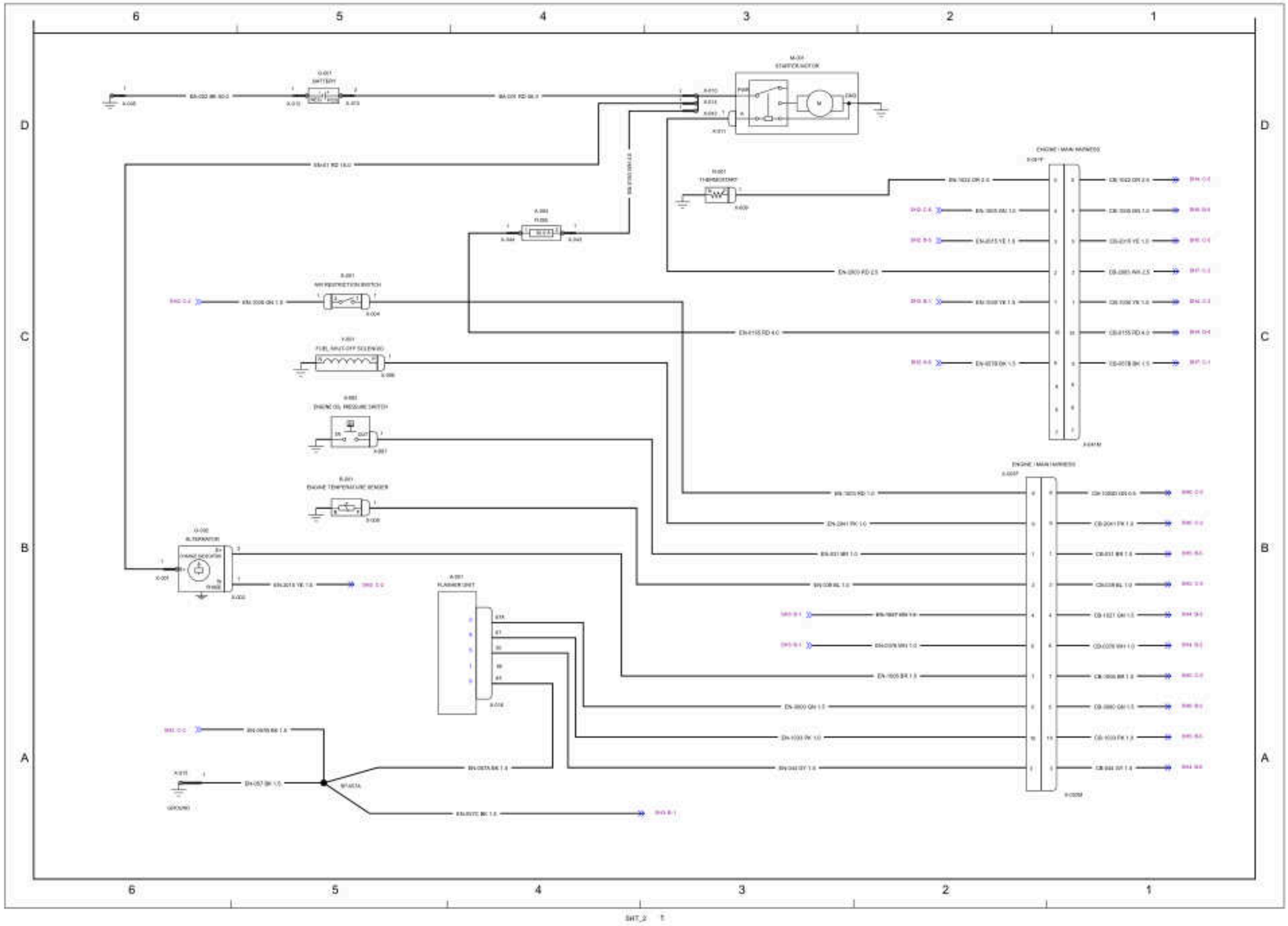
Pushing the lever backward will retreat the cylinder and lower the implement.

***NOTE:*** *Shuffling the cylinder connection to the auxiliary cylinder will reverse the lever function. i.e. forward movement will lower the implement; backward movement will raise the implement.*

***NOTE:*** *The auxiliary cylinder uses the same hydraulic fluid as the hydraulic lift, but is operated independently with the hand lever* ***(c)****. It is not possible, however, to operate the auxiliary cylinder and the hydraulic lift unit simultaneously.*



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