WHEEL LOADER

SERVICE MANUAL

HL660VL

HYUNDAI

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TABLE OF CONTENTS

Safety

Wheel Loader Safety S0103010K

Specifications

Specifications SP002339

General Maintenance

General Maintenance Procedures..... S0302000
Standard Torques..... S0309000

Upper Structure

Counterweight..... SP002340
Hydraulic Oil Tank SP002341

Lower Structure and Chassis

Center Joint (Articulation Joint)..... SP002342

Engine and Drive Train

Engine..... SP002472
Front Axle SP002343
Rear Axle SP002344
Air Conditioner..... SP002345
Transmission and Torque Converter SP002346

Hydraulics

Cylinders..... SP002347
Main Pump..... SP002348
Steer Pump..... SP002349
Main Control Valve..... SP002351
Pilot Control Valve SP002352
Priority Valve SP002353
Steering Unit..... SP002354
Hydraulic Schematic SP002355

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TABLE OF CONTENTS

To the Operator of a Wheel Loader 3
General Safety Essentials 6
Location of Safety Labels 6
Unauthorized Modifications 6
General Hazard Information 7
Before Starting Engine 14
Machine Operation 17
Maintenance 24
Battery 32
Towing 34
Shipping and Transportation 35

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TABLE OF CONTENTS

Component Locations 4
General Specifications 6
Engine Performance Curves 8
Working Range and Dimensions.....10
Working Capacities 11
    Bucket Capacity 11
    Tipping Load 11
Material Weight 11
    Approximate Weight of Workload Materials 11

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MATERIAL	LOW WEIGHT OR DENSITY 1,100 KG/M^3 (1,850 LB/YD^3), OR LESS	MEDIUM WEIGHT OR DENSITY 1,600 KG/M^3 (2,700 LB/YD^3), OR LESS	HIGH WEIGHT OR DENSITY 2,000 KG/M^3 (3,370 LB/YD^3), OR LESS
Salt	929 kg/m^3 (1,566 lb/yd^3)	----------	----------
Snow, light density	529 kg/m^3 (891 lb/yd^3)	----------	----------
Sand, DRY, loose	----------	1,522 kg/m^3 (2,565 lb/yd^3)	----------
Sand, WET, packed	----------	----------	1,922 kg/m^3 (3,240 lb/yd^3)
Shale, broken	----------	1,362 kg/m^3 (2,295 lb/y d^3)	----------
Sulphur, broken	529 kg/m^3 (891 lb/yd^3)	----------	----------

IMPORTANT

Weights are approximations of estimated average volume and mass. Exposure to rain, snow or ground water; settling or compaction due to overhead weight and chemical or industrial processing or changes due to thermal or chemical transformations could all increase value of weights listed in table..

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Disassembly of transmission

Disassembly of transmission assembly

1. Disassemble torque converter assembly.

   Keep torque converter upward, put transmission assembly on supporting and fix, loosen and dismantle bolts between torque converter and transmission.

   Torque converter：about150Kg

   Separate torque converter and transmission with jackscrew, hang transmission away from torque converter assembly, put torque converter assembly on work platform vertically. Jackscrew: M10

   Note: *Hanging tools must be guaranteed above the torque converter, do not grab combination surface of transmission with hands to avoid hurt hands.*



Figure 7

2. Dismantle the third shaft assembly from tank body.



Figure 8

3. Screw in the relative thread holes of overrun clutch with two jackscrews, separate tank body and suspend it away.

   Jackscrew: M14



Figure 9

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ENGINE STARTING CIRCUIT

Operation during start process

Turn key switch (6) to "ON" position, connect terminal "B" and "BR", output electric current starts power relay (8), then fuse box is power on.

After key switch (6) is turned to "ON" position, terminal "R2" and "B" are connected, starter relay (4) is started, then other contact terminals "B" and "PP" are connected, active gear of starter (3) is propelled to contact ring gear of flywheel and connect with contact terminal of starter.

Electric current comes out from storage battery (2), goes through terminal "B" and "PP" of starter relay (4) and arrives at starter (3) terminal "50".

Operation after start process

Once generator is started, the belt will drive AC generator (9) to create electric current. Electric current goes through generator (9) terminal "B", safety plate (7), power relay (8) terminal "B" and supply power to fuse box.

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25. Install oil seal seat and flange.

Note: *Fastening torque: 22~30Nm*



Figure 114

26. Install oil pan.

Note: *Fastening torque: 45~59Nm*



Figure 115

27. Install variable speed valve and twist bolts.

Note: *Fastening torque: 45~59Nm*



Figure 116

Assembly parts assembling

1. Fix torque converter body, install output gear.



Figure 117

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12. Overturn gearbox, dismantle hand brake assembly.



Figure 18

13. Take out baffle ring with baffle ring pincer.

Note: *It must be clamped firmly when using baffle ring pincer to avoid safe hazard when it pops out from tank body.*



Figure 19

14. Loosen bolts of variable pump, dismantle variable pump and take out sealing gaskets.

Note: *Put variable pump at clean place, cover oil way surface to avoid dust and sundries entering into valve.*



Figure 20

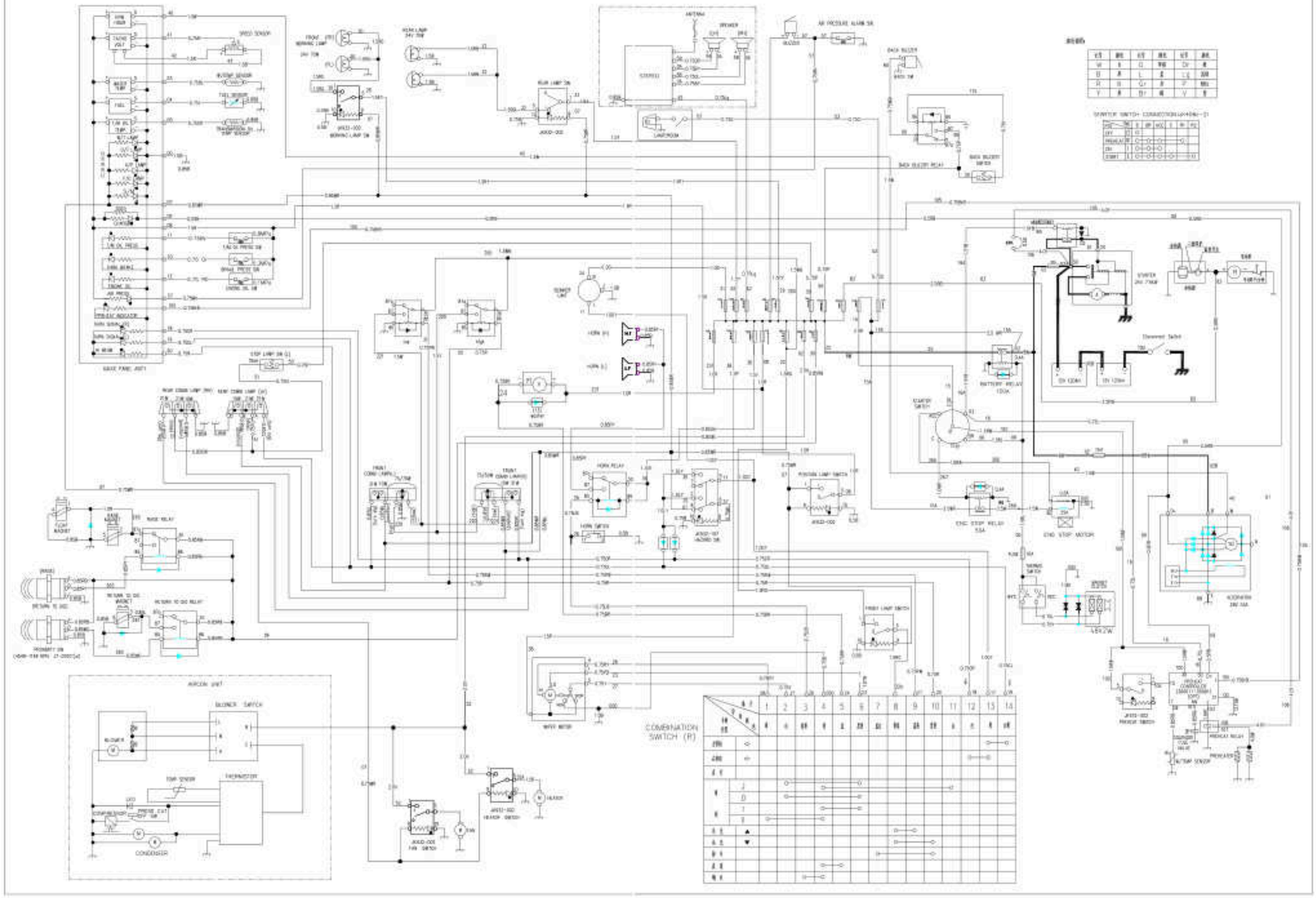
15. Loosen bolts with relative tools and separate end cap from tank body with two jackscrews. Jackscrew: M10



Figure 21

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