FORKLIFT

SERVICE MANUAL

15P40T-7

HYUNDAI

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9) Wheels

Item		Front	Rear
Type		Cushion, Urethane, Non-marking	Pneumatic(solid), Non-marking
Quantity		1	2
Wheel	15P-7	305×127	5.00-8-8PR(5.00-8)
	40T-7	305×127	4.00-8

10) Steering

Item		Specification
Steering	Type	Full hydraulic, power steering
	Steering angle	90° to both right and left angle, respectively

11) Brake

Item		Specification
Type		Center brake
Brake shoe	W×L×T	40×110×5mm(1.6×4.3×0.2in)
	Area	44cm²(6.8in²)
Brake drum diameter	New	120mm(4.7in)
	Repair limit	117mm(4.6in)
Brake pedal play		10–15mm(0.4–0.6in)
Braking distance	Unloaded	Less than 5.0m(197in)
	Loaded	Less than 2.0m(79in)

12) Parking brake

Item	Specification
Type	Ratchet
Parking lever stroke	40mm
Parking cable stroke	16mm

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TROUBLESHOOTING CHART

LED Code	Programmer LCD display	Explanation	Possible cause
2, 5	MOTOR TEMP	· Motor temperature too high	· Calibrate FIELD R parameter. · Set parameters MOTOR WARM and MOTOR HOT for the motor's temperature characteristics. · Reduce multimode drive C/L parameter
5, 2	BRAKE	· Programmable brake map set incorrectly. · Brake pot out of range.	· Check Brake map values. · Check Brake pot connections.
1, 3	SPEED SENSOR	· No feedback pulses detect-ed	· Speed sensor wiring open · Defective sensor unit
1, 6	BATTERY CURRENT	· Battery current is greater than the programmed multimode value.	· Check multimode parameter.a
2, 3	THERMAL	· Over/Under temperature cutback	· Temperature >85℃ or < -25℃ · Excessive load on vehicle · Improper mounting of controller
2, 1	LOW BATTERY	· Battery pack is approach-ing the minimum limit to continue operating.	· Battery voltage < under voltage limit
2, 2	OVER-VOLTAGE	· Battery pack is approach-ing the maximum limit to continue operating without damage	· Regeneration into bad batteries. · Key switch input(KSI) turned off, causing main contactor to drop out, during regeneration-causing regeneration into cap-bank. · Main contactor opens "on its own"(road bumpy)causing regeneration into cap-bank. · Battery pack B+ connection becomes disconnected causing regeneration into cap-bank
1, 2	THROTTLE	· Programmable throttle map set incorrectly. · Throttle pot out of range.	· Check brake map values · Check brake pot connections.
1, 4	HPD	· Direction selected with throttle pressed. · Direction changed while driving. · Keyswitch turned on with throttle pressed.	· Make sure direction selected before pressing throttle. · Do not change direction while driving. · Do not press on throttle before controller is turned on.
2, 4	MAIN DRIVER ON	· This alarm catches the cases where the main contactor-coil driver fails on(shorted) when it should be off.	· Check Main contactor wiring. · Check Main contactor for damage. · May need to replace controller.
3, 1	MAIN DRIVER OFF	· This detects when the main-contactor-coil driver is off(failed open) when it is supposed to be on.	· Check Main contactor wiring. · Check Main contactor for damage. · May need to replace controller.
4, 1	CURRENT SENSOR	· Armature current sensor failure	· Replace controller.

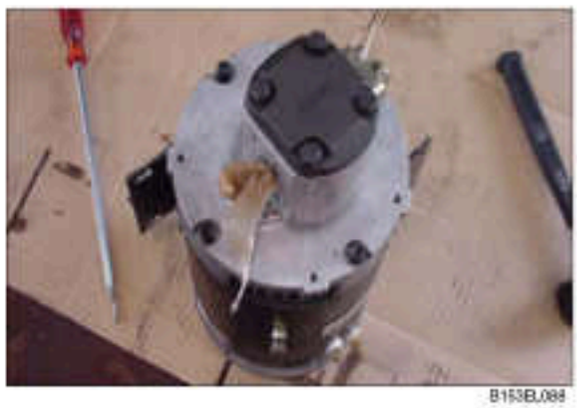
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(6) Remove 4 bolts on the drive side endbell, using L wrench.



B153EL087

(7) Remove armature and drive side endbell by lifting up straightly. (below)



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Armature assembly and drive side endbell.



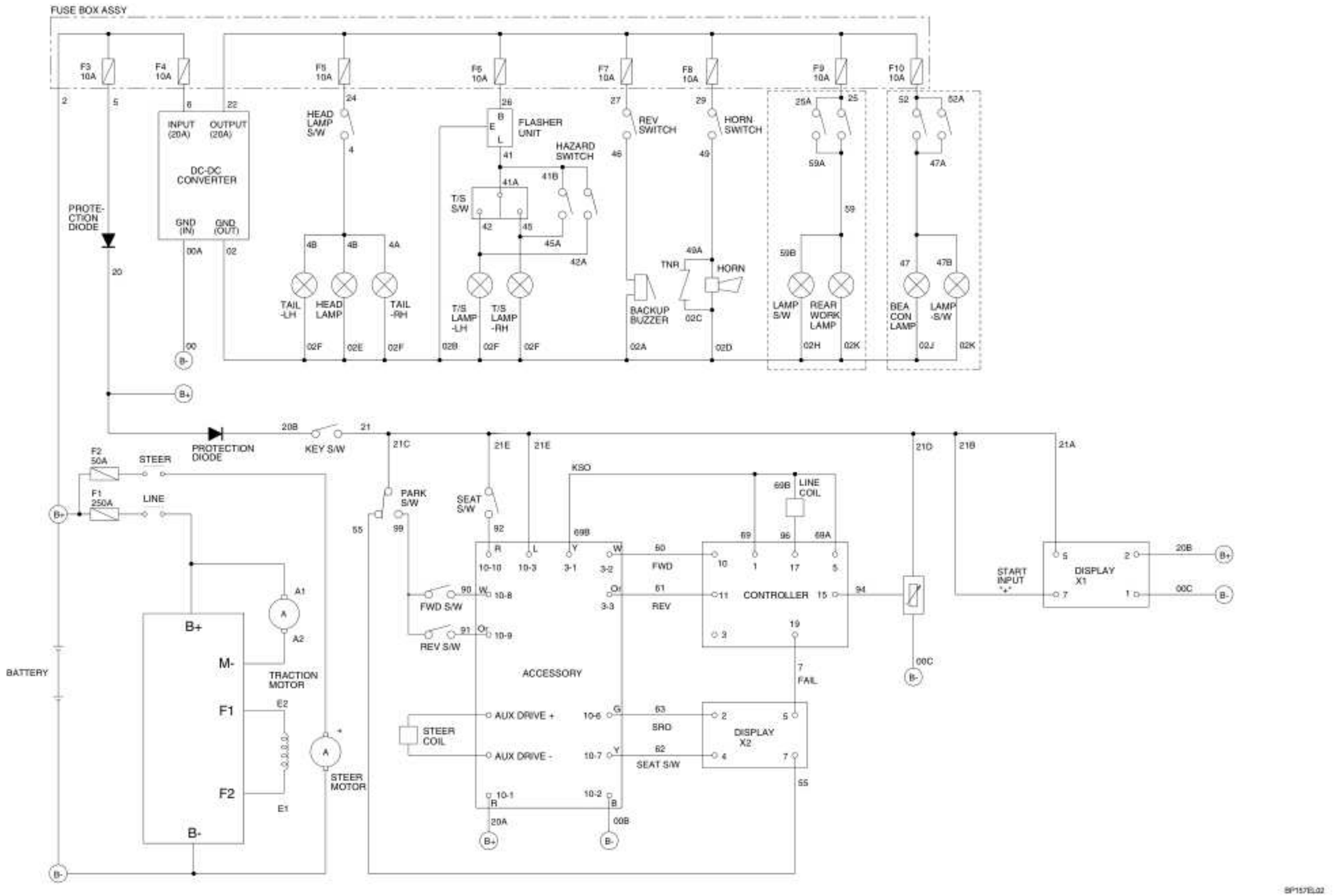
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GROUP 2 ELECTRICAL CIRCUIT



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