MOTORCYCLE DOCTOR

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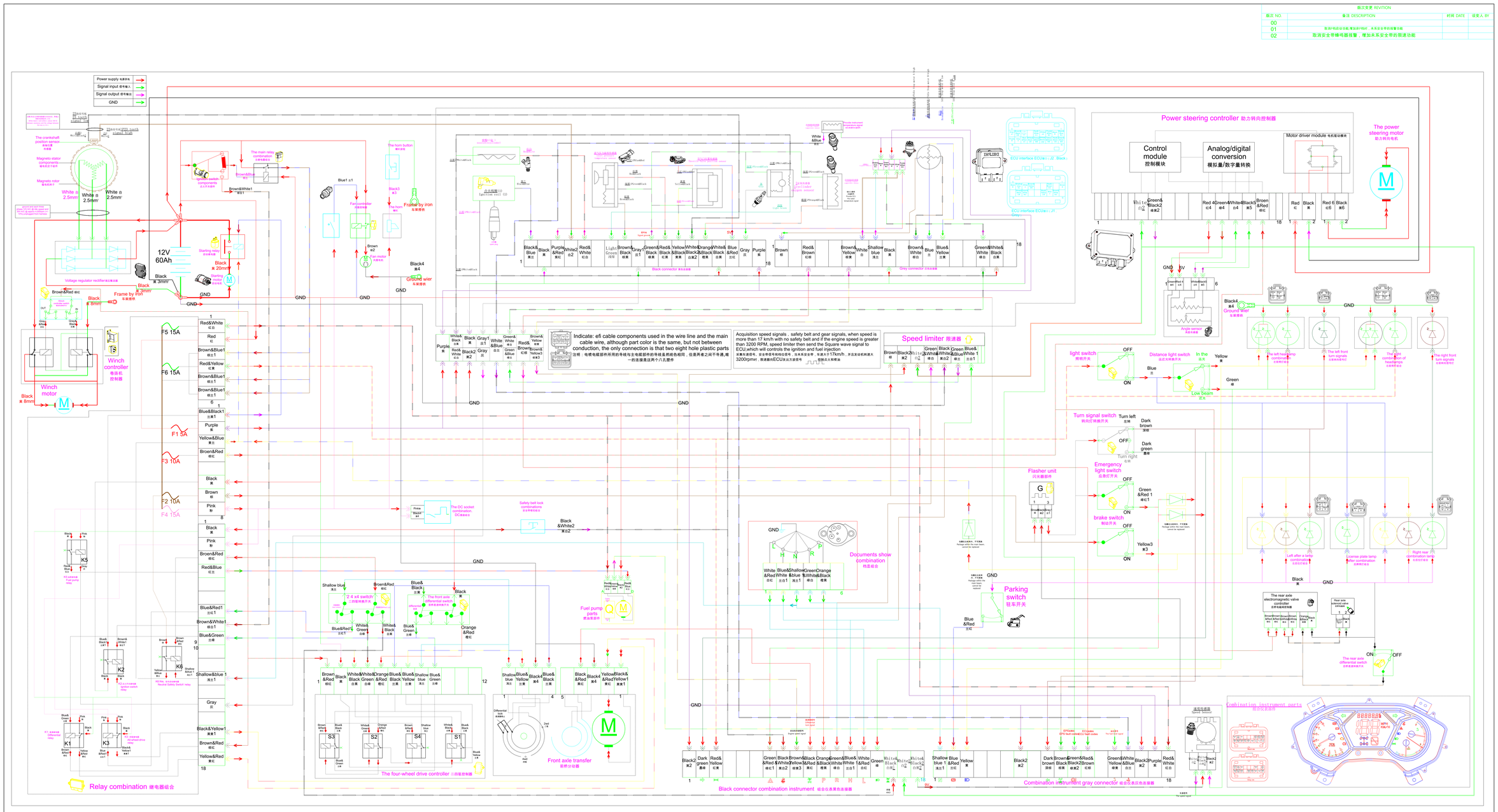
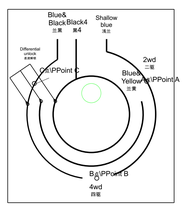


750UTV-4

2017 MTD 550 & 750

由于前桥分动器内部结构和啮合开关结构的限制，导致要完成二驱到四驱。
四驱到差速的电路逻辑非常的复杂，要完成一个功能的转换，需要多个继电器同时工作，对电路的检测，带来了很大的麻烦。整个系统用了六个继电器，两个船型开关。但请客户放心，我们用的继电器质量是非常好的。
如果外部电路不短路，几乎不会存在继电器坏的现象。
如果二四驱，差速功能出现问题，请先检查相关的电源保险是否烧毕，相关的连接器是否接好，开关是否接触良好；如果这些都没有问题，位置换二四驱控制器，继电器组合，如果将上述都检测了一遍，还没有找到问题，在更W换前桥分动器，进行检测。
Front axle transfer due to the internal structure and the limitation of the ship type switch structure, causes to complete the two drive to four-wheel drive.
Four-wheel drive to differential circuit logic is very complex, to complete a conversion function, need more after.
Electrical work at the same time, to detect circuit, a lot of trouble. The whole system with six following
Electric appliances, two ship type switch. But please rest assured customers, we use the relay quality is very good.
If you don't short circuit external circuit, almost no relay bad phenomenon.
If two raider, differential function problem, please check whether the power of the relevant insurance burned, related
Whether the connector is connected and the switch contact is good. If these are not problems, in the change of m
Drive controller, relay, if all the above test again, haven't find the problem, the more
In front axle transfer, for testing.



开关状态
二四驱开关：二驱：棕红-白棕 接通
四驱：棕红-白黑 接通
浅兰-兰红 下 接通
差速开关:差速锁时:兰黑-兰绿 接通
差速解锁时：黑-橙红 接通
Switch state
Two all-wheel-drive switch: two displacement:
palm red - white green through
All-wheel-drive;
palm red - white black
Light blue - blue red 1 through
Differential switch; Differential lock;
Black - blue green connected
When differential unlock:
black - orange through

750UTV-4 前桥二四驱、差速功能检测方法
开关在二驱时，按下差速解锁开关，电机无动作，必须在四驱时，才能进入差速解锁状态。
二驱时，棕红-白棕，S2动作，棕红与S3线圈连接，此时按下差速解锁按钮，棕红-黑，K6动作，兰黑-兰绿，但在二驱时，兰黑未接地，则K1不动作，棕黑未GND，黑黄也未GND，则电机不动作。
二驱-四驱：棕红与白棕断开，白棕-黑空，S2断开。
四驱时：棕红-白黑，S1动作，兰黑与兰黑断开。
浅兰-兰红，在二驱向四驱过渡过程中，浅兰未GND，则K3动作，黑黄得+12V电，电机转动，当B点时，浅兰悬空，K3断开，黑黄接地，电机停止转动。前桥进入四驱状态。
按下差速解锁开关：兰黑与兰橙断开，黑-橙红。
黑-橙红，S4动作,兰黑与浅兰接，此时二四驱开关处于四驱状态，浅兰与兰红是导通的，则兰黑与兰红通；当B点时，兰黑为GND，则K3动作，电机转动，当C点时，兰黑悬空，K3断开，黑黄接地，电机停止转动，前桥进入差速解锁状态。
按二四驱开关，开关处于二驱状态，差速开关处于差速解锁状态（橙红-黑），直接由差速解锁进入二驱状态：
棕红-白棕，S2动作，棕红与S3的线圈通；S3动作，兰黑与兰绿通；（此时处于差速解锁状态，兰黑为GND），K1动作，棕黑得+12V电，电机转动到B点。
二驱时，白黑悬空，S1复位，GND-兰黑-兰绿，则K1动作，电机继续转动，到A点，兰黑悬空，电机停止转动，前桥处于二驱状态。
差速解锁向差速锁过渡：黑与橙红断开，兰黑-兰绿，兰黑此时为GND,则K1动作，棕黑得+12V，电机转动到B点，兰黑悬空，电机停止转动，前桥进入四驱状态。
四驱向二驱过渡:棕红与白黑断开，S1复位，兰黑-兰黑；浅兰与兰红断开，
棕红-白棕，S2动作，棕红与S3线圈连接；此时差速开关处于锁定状态，棕红与黑通，为GND）；则S3动作，兰黑与兰绿通；S1被电磁铁，兰黑与兰黑也连接（兰黑为GND）则兰绿为GDN，K1动作，棕黑得+12V电，电机转动到A点，兰黑悬空，电机停止转动，前桥处于二驱状态。

750 utv - 4 two all-wheel-drive front axle, differential detection method
The switch in the drive, press the differential unlock switch, motor, no action must be in 4 x4, can enter into differential unlocked.
Two drives: palm red - white and green, S2, orange with S3 coil connection; The differential unlock button, orange - black,
K6, dark - blue, green, but in the second drive, blue black off ground, K1 is action, brown and black GND, black and yellow
No GND, the motor is not action.
All-wheel drive and four-wheel drive: brown and white green disconnect, white, green, impending, S2 disconnect.
All-wheel-drive: palm red - white and black, S1 movement, the black and blue yellow disconnect.
Shallow blue - blue red, in the second displacement in the process of transition to a four-wheel drive, shallow blue GND, the K3 action, dark yellow + 12 v battery,
Motor rotation, to point B, the shallow blue impending, K3 disconnect, dark yellow earth, motor stop running. Front axle into
All-wheel-drive.
Press the differential unlock switch: black and blue green disconnect, black - orange.
Black - orange, S4 movements, with yellow light LanTong, when two all-wheel-drive all-wheel-drive switch, light blue and blue red is
Conduction, with yellow LanGongTong; At point B, yellow to GND, the K3 action, motor rotation, to point C,
Huang hung, K3 disconnect, dark yellow earth, motor stop running, front axle into differential unlocked.
According to two all-wheel-drive switch, switch in the second displacement state, differential switch in the differential unlock state (orange - black), directly by the differential
Unlock into two drive state:
Palm red - white and green, S2 action, orange with S3 coil tong, S3, with dark blue green, (at this point in the poor
Unlocked, blue black GND) as K1, brown and black + 12 v battery, motor rotation to point B;
Two drives, white black dangling, S1 reset, GND - blue yellow blue black - blue green, the K1 action, motor continue to roll, to
Point A, orchid huang hung up, the motor stopped spinning, front axle in the second displacement state.
Differential unlock the transition to a differential lock: black and orange disconnect. LAN dark - blue, green, blue black at this point to GND, the K1 action, brown and black + 12 v,
Motor rotation to point B, blue black dangling, motor stop running, into a state front axle all-wheel-drive.
Four-wheel drive to the second drive too much; Brown and white black disconnect, S1 restoration, blue yellow and blue black; Light blue and blue red disconnect,
Palm red - white and green, orange S2, and S3 coil connection (lock gear differential switch at this time, the red orange,
To GND), then the S3, with dark blue green tong; S1 in the relay, with dark blue yellow also connection (blue yellow to GND)
It is GDN blue-green, K1, brown and black + 12 v battery, motor rotation to point A, huang hung up, motor stop running,
Front axle in the second displacement state.

0.5mm²---0.05
1.25mm²---0.15
2.0mm²---2.0
3.0mm²---3.0
8.0mm²---4.0
14mm²---7.0

设 图 PROJECTION	HS750UTV-4	图 号 PART NO.	34100-315001-0002
		物料号 ERP NO.	P315001341000002
相 似 件 SIMILAR PART	（中文名称）	付属 COLLATERL	REV
发布状态 RELEASE STATUS	电路原理图	图 号 PART NO.	
		物料号 ERP NO.	
发布时间 RELEASE DATE	PART NAME	图样标记 SIZE	比例SCALE
2017.06.23	The vehicle electric schematic diagram	日	
设计 DRAWN 审核 CHECK 批准 APPROVED	MATERIAL 材料	数量QTY 重量WT	第 页/总 页 SHEET 1/1
			重庆环松科技工业有限公司)