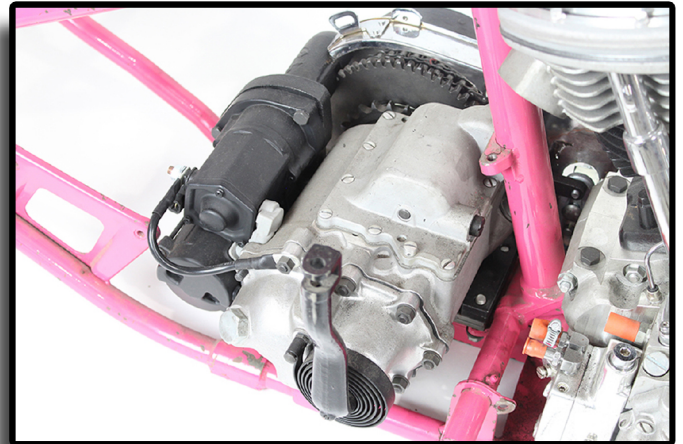
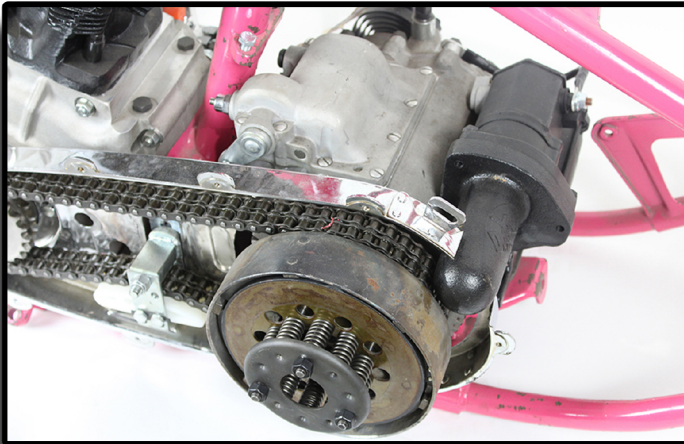




ELECTRA START INSTALLATION



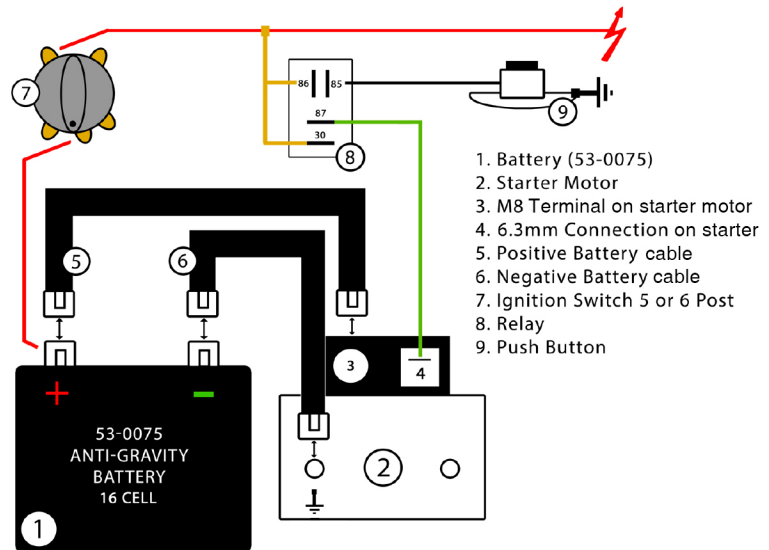
Disassembly and preparation of the motorcycle.

NOTE: If bike has not been converted to 12V

Conversion will be necessary
parts for conversion not included in this kit.

- Disconnect and remove battery.
- Support motorcycle on secure jack to raise rear wheel off the ground.
- Remove rear wheel.
- Remove rear exhaust or full exhaust if necessary.
- Remove rear fender.
- Remove toolbox if applicable.
- Drain oil tank.
- Remove oil tank.
- Remove outer primary cover.
- Remove motor sprocket, clutch basket and the primary chain.
- Remove clutch hub.
- Remove inner primary cover.
- Loosen transmission adjusting bolts.
- Remove transmission adjuster.
- Remove front and rear transmission mounting plate bolts.

Wiring Diagram:



NOTE: 32-3000 Starter Relay included if desired





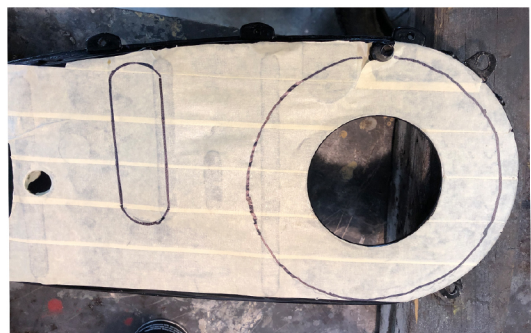
ELECTRA START INSTALLATION



AS INSTALLED ON OUR 1947 REPLICA KNUCKLEHEAD



- Attach primary chain tensioner bracket to the front mounting holes of the transmission From the bottom using thread locker on the 3 / 8 x 1-1/2" x 24 bolts and lock washers.
- Slide the transmission as far forward as it can go.
- Install starter mount kit (32-1568) at the rear of the transmission mount plate using thread locker on the supplied hardware.
- Temporarily install chain tensioner detent plate to tensioner bracket.
- Prep inner primary for customization. Suggest thorough cleaning of the back surface (side that goes against engine) and apply masking tape.
- Holding inner primary in place against motor trace tensioner detent outline.
- Using suitable cutting tools cut on outline and remove material to create opening for tensioner detent plate. (see illustration).





ELECTRA START INSTALLATION



- Using inner primary spacer install primary on motor.
- Temporarily install new clutch hub with ring gear to trace outline on to inner primary.
- Using suitable cutting tools create opening for ring gear.
- Temporarily install starter shaft housing and create opening in inner primary to accommodate the starter shaft housing.

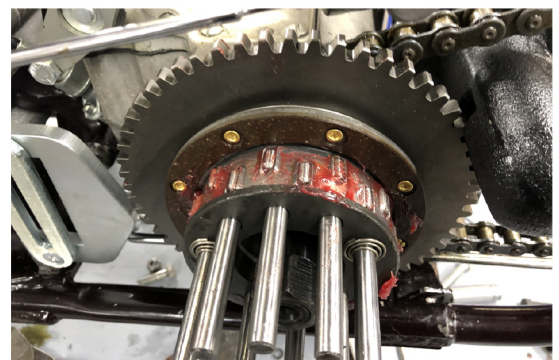
- Once inner primary is customized to fit starter shaft housing permanently install housing to mounting bracket using supplied hardware and thread locker.

- Install new clutch hub.

- Lubricate starter drive with light coat of grease and secure starter to starter shaft housing using supplied hardware.

- Install remote starter button to end of starter at this time.

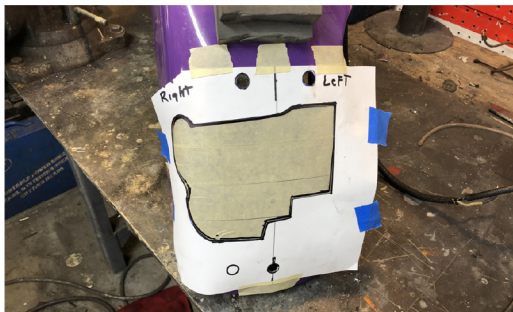
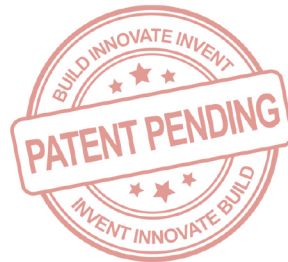
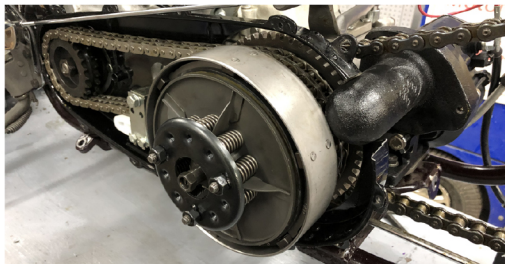
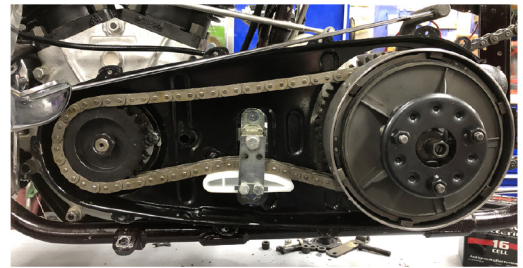
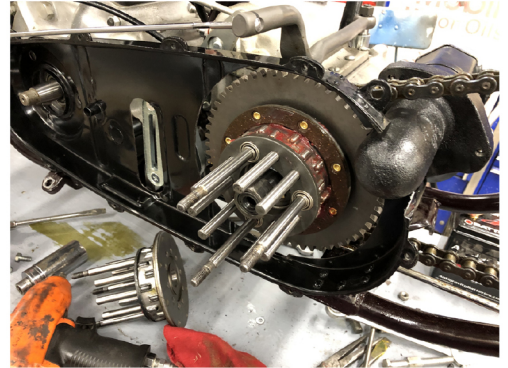
- Press and hold remote starter button to engage ring gear. Move ring gear back and forth to check lash. At least .020 lash is necessary. To set lash move transmission forward or backward as necessary. Once achieved tighten transmission to mounting plate bolts.





ELECTRA START INSTALLATION

- Install new motor sprocket, primary chain and clutch hub being sure to use new lock washer on clutch hub nut.
- Re-install clutch plates.
- Assemble chain tensioning adjuster and set tension to $\frac{1}{2}$ ".
- Torque all bolts and engage locking tabs.
Modify rear fender:
- Using masking tape to protect finish cut out supplied template. Be sure to orient left and right according to the illustrations.



- Using suitable tools cut away fender material in the shaded area.
- Protect raw edges with primer and paint.
- Install positive battery cable to starter at this time.
- Reinstall rear fender. Be sure to protect battery cable from sharp edges.



ELECTRA START INSTALLATION

Modify Oil Tank or use York Oil Tank

- It is necessary to remove the rear fender mounting bracket from oil tank.
(see illustrations).
- Install oil tank using York oil tank base (31-1741) supplied in kit (eliminating original oil tank mounting plate).
- Install rear fender to oil plate mounting bracket.
- Reconnect oil lines (It may be necessary to reconfigure oil feed line to obtain length necessary to fit around starter motor).



York Electric Start Oil Tanks

40-0491 - Chrome
40-0616 - Black
40-1429 - Raw



53-0075



- Battery rods will need to be cut as far as the bracket.



ELECTRA START INSTALLATION

- Refill oil tank.
- Reinstall toolbox.
- Reinstall wheel.
- Reinstall exhaust pipe.
- Adjust chain.
- Adjust rear brake.
- Install battery (recommended 16 cell antigravity battery or equivalent).
- Connect positive lead from starter to battery.
- Install supplied battery ground cable.
- Adjust clutch.
- Modify outer primary as necessary to accommodate starter shaft housing (see illustration.)
- Install outer primary.



32-1500

32-1508	Starter Shaft Housing
32-1507	12 Volt Starter Assembly
18-0781	Starter Cluth Hub w/ Rollers & Cage
10-1461	York Motor Spacer
19-0655	York Motor Sprocket
19-0933	TYC Primary Chain 84 Link
32-1568	Transmission/Starter Mount Kit
18-8247	Chain Tensioner Kit
32-0742	Remote Starter Button, Chrome
32-0331	Battery Ground Cable 8-1/2" Length
32-0310	Battery Cable, 15-1/2" Length
31-1741	Horse Shoe Tank Base, Black
18-0783	Chain Tensioner Bracket
42-9918	Replica Battery Hold Down Rod
42-0910	Battery Box Top Cover, Chrome
31-0544	Parkerized Oil Tank/Fender, Bracket
32-0314	Replacement Battery Cable
32-2007	Extreme Duty Battery Cable Set
42-0760	Replica Battery Top Cover
32-3000	Starter Relay
100-031	3/8-24 X 1-1/2 Hex Bolt
400-001	Split Lock Washer, 3/8", ZINC
400-020	Flat Washer, 3/8"
100-013	5/16-24 X 1 Hex Bolt
200-002	5/16-24 Hex Nut

32-1503

18-0781	Starter Cluth Hub w/ Rollers & Cage
32-1508	Starter Shaft Housing
32-1507	12 Volt Starter Assembly
18-8247	Chain Tensioner Kit
19-0655	York Motor Sprocket
10-1465	York Motor Spacer
19-0933	TYC Primary Chain 84 Link
32-0742	Remote Starter Button, Chrome
42-0760	Replica Battery Top Cover
32-1568	Transmission/Starter Mount Kit
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400-020	Flat Washer, 3/8"
100-013	5/16-24 X 1 Hex Bolt
200-002	5/16-24 Hex Nut
400-006	Split Lock Washer, 5/16"

