



# TECH TIPS

## Dixie Part Numbers:

200-39101	201-39121	S-7031	TS-1657	TS-1785
200-39102	201-39206	S-7033	TS-1658	TS-1789
200-39103	201-41109	S-7035	TS-1662	TS-1793
200-39104	201-41207	S-7037	TS-1664	TS-1796
200-39105	201-42113	S-7039	TS-1666	TS-1797
200-39109	201-42114	S-7041	TS-1667	TS-1799
200-39110	201-42118	S-7043	TS-1668	TS-1801
200-39203	201-42120	S-7044	TS-1669	TS-1802
200-39204	201-42204	S-80173	TS-1676	TS-1803
200-39205	201-42212	TS-1512	TS-1678	TS-1804
200-39206	260-67112	TS-1604	TS-1682	TS-1805
200-45127	S-1295	TS-1605	TS-1698	TS-1806
200-46109	S-1297	TS-1608	TS-1705	TS-1807
200-46110	S-1300	TS-1610	TS-1735	TS-1808
200-46209	S-7016	TS-1611	TS-1736	TS-1809
201-37114	S-7018	TS-1612	TS-1737	
201-37118	S-7020	TS-1638	TS-1773	

## Applications:

This bulletin applies to various medium, heavy duty and industrial applications.

## Condition:

The operator of the vehicle may complain of one of two conditions:

- 1) The vehicle does not crank intermittently
- 2) The starter motor is repeatedly burns out.

## Cause:

The above starters, if installed with the required relay and wiring, have a built in over crank protection (OCP) feature. The OCP feature is designed such that if the starter is cranked too long, without allowing the starter to cool down to cause an open circuit to the solenoid switch terminal. This *temporarily* prevents the starter motor from functioning until it has sufficiently cooled down, at which point the OCP feature completes the circuit and allows the starter to function. In the case of the intermittent non-cranking issue, this may simply be the OCP functioning as it was designed to.

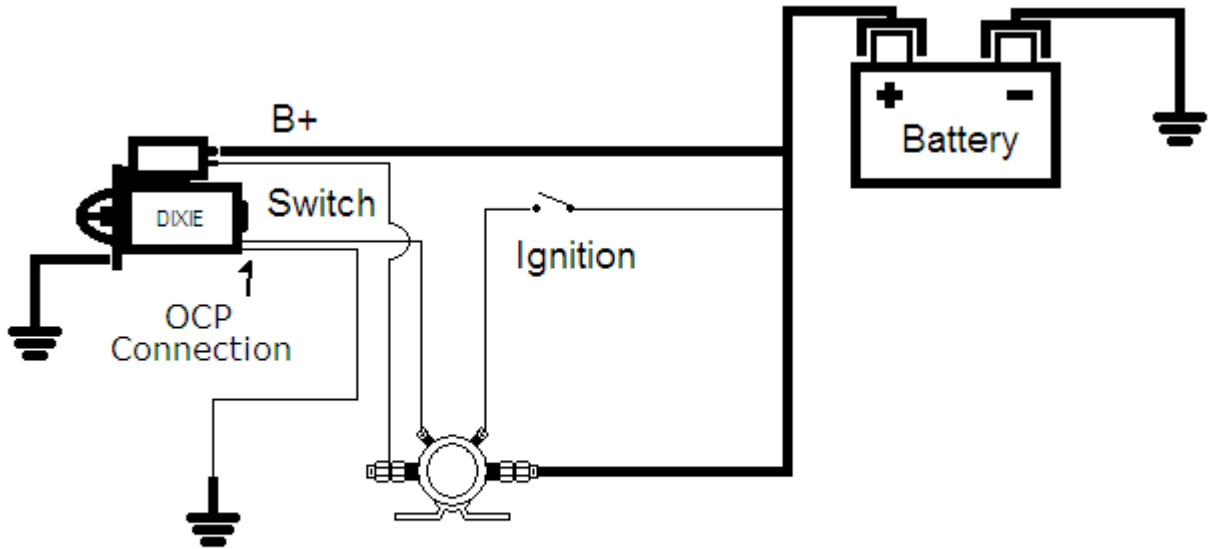
The OCP feature will not function if the starter is being used to replace a standard non-OCP starter **unless** there is a relay or magnetic switch added to the system.



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## Correction:

Follow the manufacturer's recommended procedure for installing the relay or magnetic switch. Below is a typical wiring configuration for an OCP equipped starter. If no relay or magnetic switch is installed the OCP feature is completely bypassed.



Simplified wiring diagram



REV: 20110323 Removed reference to S-7051

20191015 Updated Dixie part numbers